



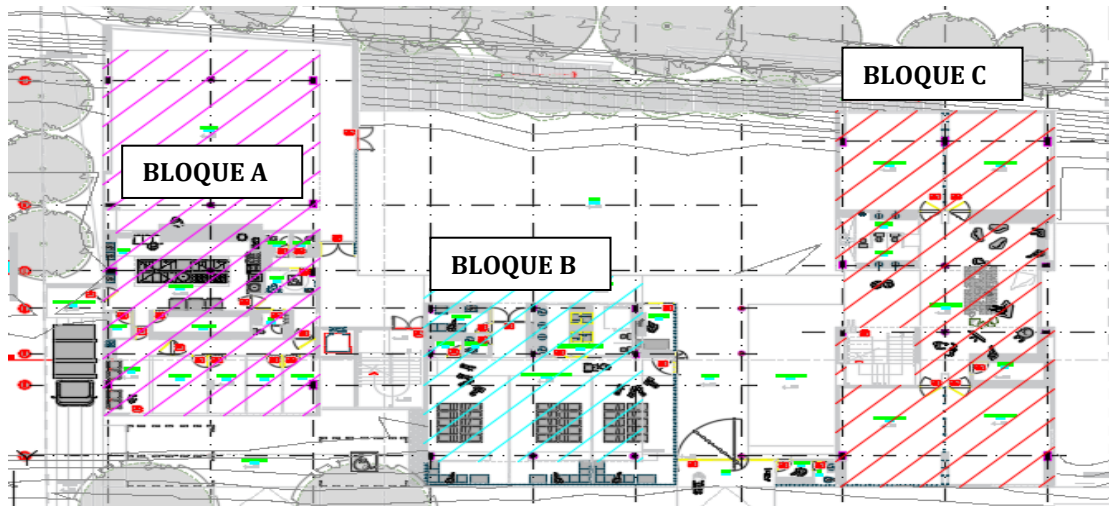
MEMORIA DE DISEÑO Y CÁLCULO ESTRUCTURAL
JARDÍN INFANTIL CAMPO VERDE

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 09 de Noviembre de 2018

MEMORIA DE DISEÑO Y CÁLCULO ESTRUCTURAL JARDÍN INFANTIL Y CENTRO DE BIENESTAR SOCIAL (CBS) EL RECREO.

1.- DESCRIPCIÓN DEL PROYECTO

El proyecto arquitectónico contempla la construcción de los edificios para un jardín infantil, ubicado en la carrera 95a No. 85 Sur-80, en la localidad de Bosa de Bogotá D.C. Se trata de 3 (tres) edificios de dos y tres pisos de altura.



El programa arquitectónico resuelve los siguientes usos:

Edificio A

- Piso 1 (N-0.10): Comedor y almacenaje
- Piso 2 (N+3.50): Aula pedagógica.
- Piso 3 (N+7.10): Aula múltiple.
- Cubierta (N+14.60).

Edificio B

- Piso 1 (N-0.10): Aulas y servicios generales
- Piso 2 (N+3.50): Administrativo.
- Piso 3 (N+7.10): Terraza.
- Cubierta (N+14.60).

Edificio C

- Piso 1 (N-0.10): Aulas pedagógicas
- Piso 2 (N+3.50): Aula pedagógica.
- Cubierta (N+10.70).

1.1.- Características Generales

Localización: carrera 95a No. 85 Sur-80, Bogotá D.C.

Nivel de Amenaza Sísmica: intermedia.

Diseño Arquitectónico: DARP Arquitectura y paisaje

Estudio de Suelos:

1.2.- Número de pisos

Los edificios A y B tienen tres pisos de altura y el edificio C tienen dos pisos de altura, que se desarrollan a partir del nivel N 0.00, La cubierta es mixta entre cubierta con plana y cubierta inclinada. La altura total de la estructura es de 15.55 m medidos a partir del nivel del espacio público (N+ 0.00m).

2.- DESCRIPCIÓN DEL SISTEMA ESTRUCTURAL:

EL sistema principal de resistencia sísmica del edificio es Pórticos en concreto reforzado. El sistema de entrepiso es una losa maciza trabajando en una dirección, apoyada en viguetas y vigas.

Los principios de diseño de la estructura son los siguientes:

- Todos los elementos verticales (columnas y muros) se vinculan entre sí mediante vigas en las dos direcciones ortogonales. Por la geometría de los vanos, las placas de entrepiso funcionan en una dirección.
- La placa maciza se propone de 12cm trabajando en una dirección. Las placas funcionan como diafragmas rígidos en cada nivel.
- El sistema estructural está diseñado y detallado para una capacidad de disipación de energía Moderada (DMO), de acuerdo con los requisitos de la NSR10.

2.2 CAPACIDAD DE DISIPACIÓN DE ENERGÍA:

De acuerdo con el material de la estructura y las características del sistema de resistencia sísmica descrito, se establece el grado de disipación de energía para el proyecto como **Disipación de Energía Moderada (DMO)**. De acuerdo con La Tabla A.3-2 el valor de R_0 para el sistema de pórticos en concreto es **$R_0=5.0$** .

Se realizó el correspondiente chequeo de irregularidades conforme a lo establecido en las tablas A.3-5, A.3-6 y A.3-7 de la NSR-10, y a partir de este se obtuvieron los siguientes coeficientes de reducción de la capacidad de disipación de energía para los edificios:

Edificio A:

- Irregularidad en planta en X: $\phi_{pX} = 1.0$
- Irregularidad en planta en Y: $\phi_{pY} = 1.0$
- Irregularidad en altura: $\phi_a = 1.0$
- Irregularidad por ausencia de redundancia: $\phi_{rx} = 1.0$

Valor definitivo del coeficiente de disipación de energía:

- En dirección X: $R'_x = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$
- En dirección Y: $R'_y = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$

Edificio B:

- Irregularidad en planta en X: $\phi_{pX} = 1.0$
- Irregularidad en planta en Y: $\phi_{pY} = 1.0$
- Irregularidad en altura: $\phi_{aA} = 1.0$
- Irregularidad por ausencia de redundancia: $\phi_{rx} = 1.0$

Valor definitivo del coeficiente de disipación de energía:

- En dirección X: $R'_x = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$
- En dirección Y: $R'_y = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$

Edificio C:

- Irregularidad en planta en X: $\phi_{pX} = 0.9$ (1Ap)
- Irregularidad en planta en Y: $\phi_{pY} = 0.9$ (1Ap)
- Irregularidad en altura: $\phi_{aA} = 1.0$
- Irregularidad por ausencia de redundancia: $\phi_{rx} = 1.0$

Valor definitivo del coeficiente de disipación de energía:

- En dirección X: $R'_x = 5.0 \times 0.9 \times 1.0 \times 1.0 = 4.5$
- En dirección Y: $R'_y = 5.0 \times 0.9 \times 1.0 \times 1.0 = 4.5$

3.- CARGAS

3.1.- CARGAS MUERTAS Y VIVAS DE DISEÑO

El peso propio de los elementos estructurales se determina con base en la densidad de los materiales de construcción. Adicionalmente, se consideraron las siguientes cargas muertas para el edificio:

Piso 1 y 2

- | | |
|-------------------------------|-----------------------|
| - Acabados y afinado: | 170 kg/m ² |
| - Cielo raso e instalaciones: | 25 kg/m ² |
| - Muros divisorios: | 50 kg/m ² |

Cubierta

- | | |
|-------------|-----------------------|
| - Acabados: | 170 kg/m ² |
| - Cubierta: | 170 kg/m ² |

De acuerdo con el uso que tendrán las diferentes áreas del edificio, las cargas vivas utilizadas en el análisis corresponden a:

- | | |
|-------------------------------------|-----------------------|
| - Aula múltiple: | 500 kg/m ² |
| - Terrazas, corredores y escaleras: | 500 kg/m ² |
| - Aulas pedagógicas: | 200 kg/m ² |
| - Cubierta plana: | 180 kg/m ² |
| - Cubierta inclinada: | 50 kg/m ² |

3.2.- MOVIMIENTO SÍSMICO DE DISEÑO

De acuerdo a la información digital consignada en el SIRE (Sistema de información para la gestión de riesgo y atención de emergencias de Bogotá), el proyecto se ubica en la zona **Aluvial 200** de la microzonificación sísmica de Bogotá. Los parámetros de cálculo de la fuerza sísmica para la estructura son los siguientes:

Zona: Aluvial 200:

1. Aceleración horizontal pico efectiva de diseño. $A_a = 0.15\text{ g}$
2. Aceleración que representa la velocidad horizontal pico efectiva de diseño, $A_v = 0.20\text{ g}$
3. Coeficiente de amplificación que afecta la aceleración en la zona de períodos cortos $F_a = 1.05$
4. Coeficiente de amplificación que afecta la aceleración en la zona de períodos intermedios $F_v = 2.10$
5. Coeficiente de Importancia $I = 1.25$ (Grupo III)

3.2.1 – Movimientos para el Umbral de Daño.

De acuerdo con los requisitos de A.12 para edificaciones educativas (Grupo III), se hizo la verificación de las derivas para el Umbral de daño, de acuerdo con las gráficas de la Tabla 5 del Decreto 523 de 2010.

3.3.- FUERZAS SÍSMICAS.

Las fuerzas sísmicas se calculan por el Método de análisis dinámico espectral, como se establece en el Capítulo A.5 de la NSR-10. Se calcularon los modos de vibración de la estructura hasta obtener más del 90% de participación de masa en ambas direcciones. Los resultados de cada modo se combinan mediante el método CQC para obtener el cortante total en la base. Las fuerzas calculadas de esta manera se distribuyen de acuerdo a la rigidez de los entrepisos, teniendo en cuenta además los efectos de torsión accidental recomendados en la Norma NSR-10.

4.- CIMENTACIÓN

El diseño de la cimentación se basa en las recomendaciones del estudio de Suelos realizado por el Ing. Alejandro Velásquez Álvarez.

La cimentación consiste en zapatas aisladas superficiales apoyadas a 3,00 m de profundidad mínima de desplante contados a partir del nivel final de adecuación del terreno, unidas entre sí con vigas de amarre en direcciones ortogonales. La capacidad admisible con la que se diseñó la cimentación es de 14.5 ton/m^2

5.- MATERIALES DE CONSTRUCCIÓN

Las especificaciones de los materiales utilizados en el análisis estructural del proyecto son:

1. Concretos:

- Vigas de cimentación: $f'_c = 210\text{ kg/cm}^2$ (21 MPa)
- Zapatas: $f'_c = 210\text{ kg/cm}^2$ (21 MPa)
- Columnas: $f'_c = 280\text{ kg/cm}^2$ (28 MPa)
- Vigas de entrepiso y placas: $f'_c = 280\text{ kg/cm}^2$ (28 MPa)

1. Refuerzo:

- $3/8''$ y mayores $f_y = 4200\text{ kg/cm}^2$ (420 MPa)
- $1/4''$ y menores $f_y = 2400\text{ kg/cm}^2$ (240 MPa)

CONTENIDO GENERAL

MODULO A

1. Análisis de Cargas
2. Datos de Entrada: Geometría y Propiedades
3. Espectro de Diseño
4. Desplazamientos obtenidos y Chequeo de Derivas Máximas
5. Espectro de Diseño Umbral de Daño
6. Desplazamientos obtenidos y Chequeo de Derivas Máximas Umbral de Daño
7. Chequeo de irregularidades
8. Envolvente de Fuerzas para el Diseño
9. Diseño de Columnas, vigas de cimentación, vigas y viguetas en Concreto
10. Reacciones

MODULO B

1. Análisis de Cargas
2. Datos de Entrada: Geometría y Propiedades
3. Espectro de Diseño
4. Desplazamientos obtenidos y Chequeo de Derivas Máximas
5. Espectro de Diseño Umbral de Daño
6. Desplazamientos obtenidos y Chequeo de Derivas Máximas Umbral de Daño
7. Chequeo de irregularidades
8. Envolvente de Fuerzas para el Diseño
9. Diseño de Columnas, vigas, vigas de cimentación y viguetas en Concreto
10. Reacciones

MODULO C

1. Análisis de Cargas
2. Datos de Entrada: Geometría y Propiedades
3. Espectro de Diseño
4. Desplazamientos obtenidos y Chequeo de Derivas Máximas
5. Espectro de Diseño Umbral de Daño
6. Desplazamientos obtenidos y Chequeo de Derivas Máximas Umbral de Daño
7. Chequeo de irregularidades
8. Envolvente de Fuerzas para el Diseño
9. Diseño de Columnas, vigas de cimentación y viguetas en Concreto
10. Reacciones

GENERALES

1. Diseño de escaleras
2. Diseño de cubierta de entrada
3. Diseño de tanque
4. Diseño de elementos no estructurales
5. Diseño de dados y zapatas
6. Análisis de carga puente y diseño de vigas
7. Revisión de vigas a torsión
8. Deflexiones en vigas
9. Diseño de pilotes
10. Diseño de vigas de amarre
11. Diseño de ménsula
12. Datos de entrada pilotes
13. Datos de salida pilotes
14. Placa base columna metálica a pedestal y a viga superior

Atentamente,

NICOLAS PARRA GARCIA
Ingeniero Civil
Mat. 25202-62063 CND



MEMORIA DE DISEÑO Y CÁLCULO ESTRUCTURAL
JARDÍN INFANTIL CAMPO VERDE

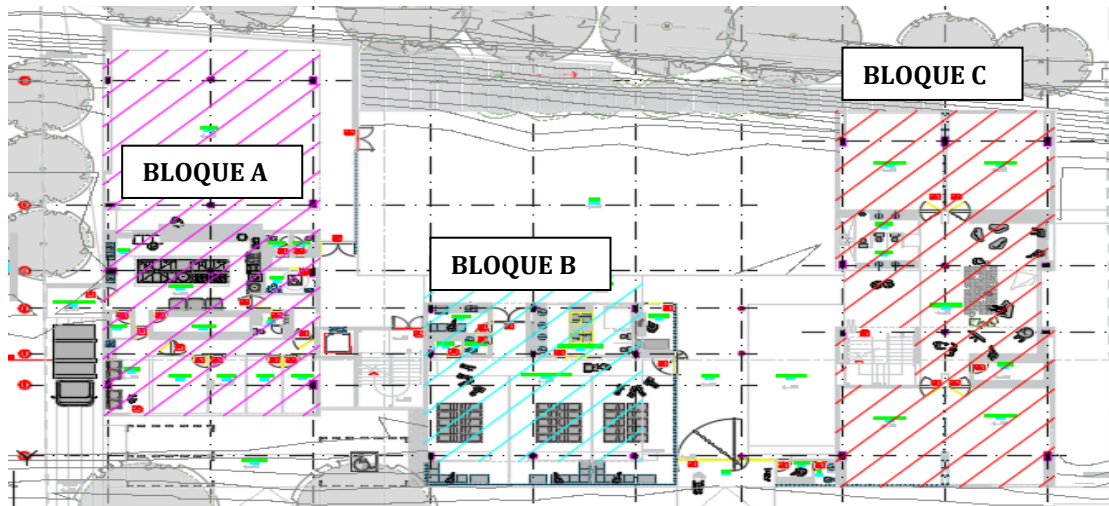
CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 11 de julio de 2018

MEMORIA DE DISEÑO Y CÁLCULO ESTRUCTURAL

JARDÍN INFANTIL Y CENTRO DE BIENESTAR SOCIAL (CBS) EL RECREO.

1.- DESCRIPCIÓN DEL PROYECTO

El proyecto arquitectónico contempla la construcción de los edificios para un jardín infantil, ubicado en la carrera 95a No. 85 Sur-80, en la localidad de Bosa de Bogotá D.C. Se trata de 3 (tres) edificios de dos y tres pisos de altura.



El programa arquitectónico resuelve los siguientes usos:

Edificio A

- Piso 1 (N-0.10): Comedor y almacenaje
- Piso 2 (N+3.50): Aula pedagógica.
- Piso 3 (N+7.10): Aula múltiple.
- Cubierta (N+14.60).

Edificio B

- Piso 1 (N-0.10): Aulas y servicios generales
- Piso 2 (N+3.50): Administrativo.
- Piso 3 (N+7.10): Terraza.
- Cubierta (N+14.60).

Edificio C

- Piso 1 (N-0.10): Aulas pedagógicas
- Piso 2 (N+3.50): Aula pedagógica.
- Cubierta (N+10.70).

1.1.- Características Generales

Localización: carrera 95a No. 85 Sur-80, Bogotá D.C.

Nivel de Amenaza Sísmica: intermedia.

Diseño Arquitectónico: DARP Arquitectura y paisaje

Estudio de Suelos:

1.2.- Número de pisos

Los edificios A y B tienen tres pisos de altura y el edificio C tienen dos pisos de altura, que se desarrollan a partir del nivel N 0.00, La cubierta es mixta entre cubierta con plana y cubierta inclinada. La altura total de la estructura es de 15.55 m medidos a partir del nivel del espacio público (N+ 0.00m).

2.- DESCRIPCIÓN DEL SISTEMA ESTRUCTURAL:

EL sistema principal de resistencia sísmica del edificio es Pórticos en concreto reforzado. El sistema de entrepiso es una losa maciza trabajando en una dirección, apoyada en viguetas y vigas.

Los principios de diseño de la estructura son los siguientes:

- Todos los elementos verticales (columnas y muros) se vinculan entre sí mediante vigas en las dos direcciones ortogonales. Por la geometría de los vanos, las placas de entrepiso funcionan en una dirección.
- La placa maciza se propone de 12cm trabajando en una dirección. Las placas funcionan como diafragmas rígidos en cada nivel.
- El sistema estructural está diseñado y detallado para una capacidad de disipación de energía Moderada (DMO), de acuerdo con los requisitos de la NSR10.

2.2 CAPACIDAD DE DISIPACIÓN DE ENERGÍA:

De acuerdo con el material de la estructura y las características del sistema de resistencia sísmica descrito, se establece el grado de disipación de energía para el proyecto como **Disipación de Energía Moderada (DMO)**. De acuerdo con La Tabla A.3-2 el valor de R_0 para el sistema de pórticos en concreto es **$R_0=5.0$** .

Se realizó el correspondiente chequeo de irregularidades conforme a lo establecido en las tablas A.3-5, A.3-6 y A.3-7 de la NSR-10, y a partir de este se obtuvieron los siguientes coeficientes de reducción de la capacidad de disipación de energía para los edificios:

Edificio A:

- Irregularidad en planta en X: $\phi_{pX} = 1.0$
- Irregularidad en planta en Y: $\phi_{pY} = 1.0$
- Irregularidad en altura: $\phi_a = 1.0$
- Irregularidad por ausencia de redundancia: $\phi_{rx} = 1.0$

Valor definitivo del coeficiente de disipación de energía:

- En dirección X: $R'_x = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$
- En dirección Y: $R'_y = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$

Edificio B:

- Irregularidad en planta en X: $\phi_{pX} = 1.0$
- Irregularidad en planta en Y: $\phi_{pY} = 1.0$
- Irregularidad en altura: $\phi_{aA} = 1.0$
- Irregularidad por ausencia de redundancia: $\phi_{rx} = 1.0$

Valor definitivo del coeficiente de disipación de energía:

- En dirección X: $R'_x = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$
- En dirección Y: $R'_y = 5.0 \times 1.0 \times 1.0 \times 1.0 = 5.0$

Edificio C:

- Irregularidad en planta en X: $\phi_{pX} = 0.9$ (1Ap)
- Irregularidad en planta en Y: $\phi_{pY} = 0.9$ (1Ap)
- Irregularidad en altura: $\phi_{aA} = 1.0$
- Irregularidad por ausencia de redundancia: $\phi_{rx} = 1.0$

Valor definitivo del coeficiente de disipación de energía:

- En dirección X: $R'_x = 5.0 \times 0.9 \times 1.0 \times 1.0 = 4.5$
- En dirección Y: $R'_y = 5.0 \times 0.9 \times 1.0 \times 1.0 = 4.5$

3.- CARGAS

3.1.- CARGAS MUERTAS Y VIVAS DE DISEÑO

El peso propio de los elementos estructurales se determina con base en la densidad de los materiales de construcción. Adicionalmente, se consideraron las siguientes cargas muertas para el edificio:

Piso 1 y 2

- Acabados y afinado: 170 kg/m²
- Cielo raso e instalaciones: 25 kg/m²
- Muros divisorios: 50 kg/m²

Cubierta

- Acabados: 170 kg/m²
- Cubierta: 170 kg/m²

De acuerdo con el uso que tendrán las diferentes áreas del edificio, las cargas vivas utilizadas en el análisis corresponden a:

- Aula múltiple: 500 kg/m²
- Terrazas, corredores y escaleras: 500 kg/m²
- Aulas pedagógicas: 200 kg/m²
- Cubierta plana: 180 kg/m²
- Cubierta inclinada: 50 kg/m²

3.2.- MOVIMIENTO SÍSMICO DE DISEÑO

De acuerdo a la información digital consignada en el SIRE (Sistema de información para la gestión de riesgo y atención de emergencias de Bogotá), el proyecto se ubica en la zona **Aluvial 200** de la microzonificación sísmica de Bogotá. Los parámetros de cálculo de la fuerza sísmica para la estructura son los siguientes:

Zona: Aluvial 200:

1. Aceleración horizontal pico efectiva de diseño. $A_a = 0.15\text{ g}$
2. Aceleración que representa la velocidad horizontal pico efectiva de diseño, $A_v = 0.20\text{ g}$
3. Coeficiente de amplificación que afecta la aceleración en la zona de períodos cortos $F_a = 1.05$
4. Coeficiente de amplificación que afecta la aceleración en la zona de períodos intermedios $F_v = 2.10$
5. Coeficiente de Importancia $I = 1.25$ (Grupo III)

3.2.1 – Movimientos para el Umbral de Daño.

De acuerdo con los requisitos de A.12 para edificaciones educativas (Grupo III), se hizo la verificación de las derivas para el Umbral de daño, de acuerdo con las gráficas de la Tabla 5 del Decreto 523 de 2010.

3.3.- FUERZAS SÍSMICAS.

Las fuerzas sísmicas se calculan por el Método de análisis dinámico espectral, como se establece en el Capítulo A.5 de la NSR-10. Se calcularon los modos de vibración de la estructura hasta obtener más del 90% de participación de masa en ambas direcciones. Los resultados de cada modo se combinan mediante el método CQC para obtener el cortante total en la base. Las fuerzas calculadas de esta manera se distribuyen de acuerdo a la rigidez de los entrepisos, teniendo en cuenta además los efectos de torsión accidental recomendados en la Norma NSR-10.

4.- CIMENTACIÓN

El diseño de la cimentación se basa en las recomendaciones del estudio de Suelos realizado por el Ing. Alejandro Velásquez Álvarez.

La cimentación consiste en zapatas aisladas superficiales apoyadas a 3,00 m de profundidad mínima de desplante contados a partir del nivel final de adecuación del terreno, unidas entre sí con vigas de amarre en direcciones ortogonales. La capacidad admisible con la que se diseñó la cimentación es de 14.5 ton/m^2

5.- MATERIALES DE CONSTRUCCIÓN

Las especificaciones de los materiales utilizados en el análisis estructural del proyecto son:

1. Concretos:

- Vigas de cimentación: $f'_c = 210\text{ kg/cm}^2$ (21 MPa)
- Zapatas: $f'_c = 210\text{ kg/cm}^2$ (21 MPa)
- Columnas: $f'_c = 280\text{ kg/cm}^2$ (28 MPa)
- Vigas de entrepiso y placas: $f'_c = 280\text{ kg/cm}^2$ (28 MPa)

1. Refuerzo:

- $3/8"$ y mayores $f_y = 4200\text{ kg/cm}^2$ (420 MPa)
- $1/4"$ y menores $f_y = 2400\text{ kg/cm}^2$ (240 MPa)

CONTENIDO GENERAL

MODULO A

1. Análisis de Cargas
2. Datos de Entrada: Geometría y Propiedades
3. Espectro de Diseño
4. Desplazamientos obtenidos y Chequeo de Derivas Máximas
5. Espectro de Diseño Umbral de Daño
6. Desplazamientos obtenidos y Chequeo de Derivas Máximas Umbral de Daño
7. Chequeo de irregularidades
8. Envolvente de Fuerzas para el Diseño
9. Diseño de Columnas, vigas de cimentación, vigas y viguetas en Concreto
10. Reacciones

MODULO B

1. Análisis de Cargas
2. Datos de Entrada: Geometría y Propiedades
3. Espectro de Diseño
4. Desplazamientos obtenidos y Chequeo de Derivas Máximas
5. Espectro de Diseño Umbral de Daño
6. Desplazamientos obtenidos y Chequeo de Derivas Máximas Umbral de Daño
7. Chequeo de irregularidades
8. Envolvente de Fuerzas para el Diseño
9. Diseño de Columnas, vigas, vigas de cimentación y viguetas en Concreto
10. Reacciones

MODULO C

1. Análisis de Cargas
2. Datos de Entrada: Geometría y Propiedades
3. Espectro de Diseño
4. Desplazamientos obtenidos y Chequeo de Derivas Máximas
5. Espectro de Diseño Umbral de Daño
6. Desplazamientos obtenidos y Chequeo de Derivas Máximas Umbral de Daño
7. Chequeo de irregularidades
8. Envolvente de Fuerzas para el Diseño
9. Diseño de Columnas, vigas de cimentación y viguetas en Concreto
10. Reacciones

GENERALES

1. Diseño de escaleras
2. Diseño de cubierta de entrada
3. Diseño de tanque
4. Diseño de elementos no estructurales
5. Diseño de dados y zapatas
6. Análisis de carga puente y diseño de vigas
7. Revisión de vigas a torsión
8. Deflexiones en vigas
9. Diseño de pilotes
10. Diseño de vigas de amarre
11. Diseño de ménsula
12. Datos de entrada pilotes
13. Datos de salida pilotes
14. Placa base columna metálica a pedestal y a viga superior

Atentamente,

NICOLAS PARRA GARCIA
Ingeniero Civil
Mat. 25202-62063 CND



JARDÍN INFANTIL CAMPO VERDE.

MODULO A

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 18 abril de 2018

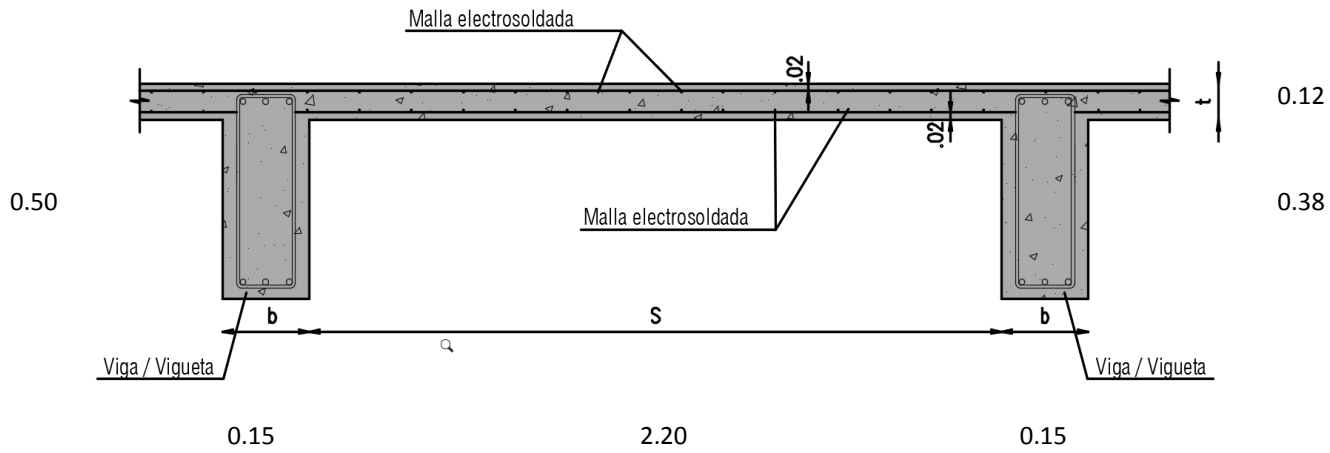
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardin Infantil Campo Verde

Modulo A

CALCULO: JDH

PISO: Piso 1



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	58	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	346 Kg/m ²	+ 245 Kg/m ²
C. VIVA	500 Kg/m ²	
C. TOTAL =		1091 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1509 Kg/m ²
Factor de Carga, F.C.=		1.38

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1509 \times 2.35 = 3546.6 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	508.0	Kg/m ²	Materiales (kg/cm ²)	
C. VIVA =	500.0	Kg/m ²	f'c =	280
C. ULTIMA =	1409.6	Kg/m ²	fy =	4200
			b (cm) =	100
			d (cm) =	9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	682.25	0.094	0.07	0.0025	2.28
M+	487.32	0.067	0.07	0.0018	2.16

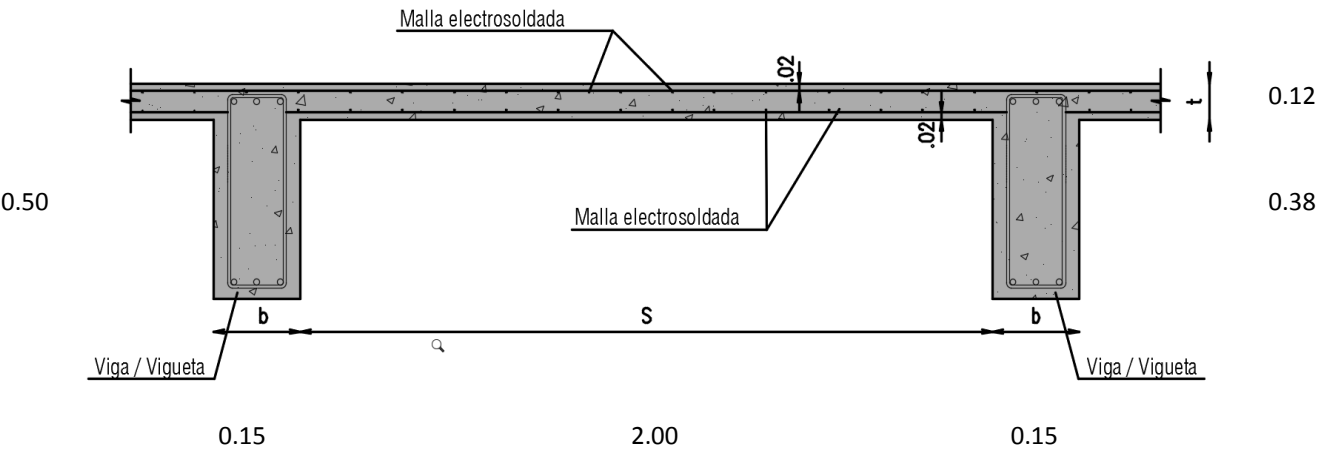
Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1550.56	5986.30	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde** **Modulo A** CALCULO: JDH

PISO: Piso 2



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	64	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	352 Kg/m ²	+ 245 Kg/m ²
C. VIVA	200 Kg/m ²	
C. TOTAL =		797 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1036 Kg/m ²
Factor de Carga, F.C.=		1.30

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:
q_u / Vigueta = 1036 x 2.15 = 2228.3 Kg/m

DISEÑO DE LA LOSA			Materiales (kg/cm ²)		
C. MUERTA =	508.0	Kg/m ²	f'c =	280	b (cm) = 100
C. VIVA =	200.0	Kg/m ²	fy =	4200	d (cm) = 9
C. ULTIMA =	929.6	Kg/m ²			

Diseño a Flexión					
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	371.84	0.051	0.07	0.0014	2.16
M+	265.60	0.036	0.07	0.0010	2.16

Chequeo Cortante		
v _u (kg/m)	φV _c (kg/m)	Check
929.60	5986.30	Ok

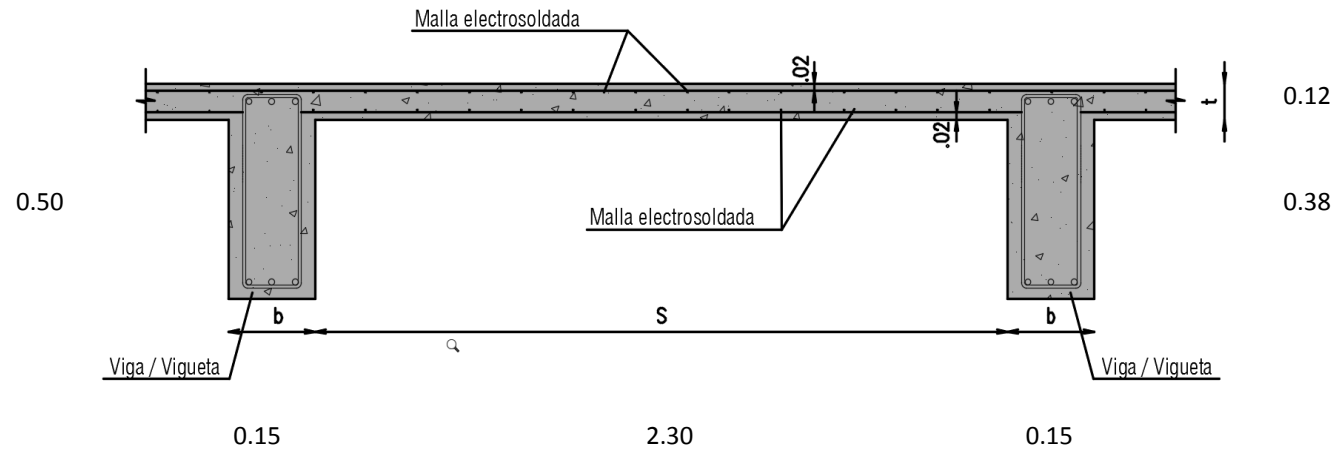
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardín Infantil Campo Verde

Modulo A

CALCULO: JDH

PISO: Piso 3



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	56	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	344 Kg/m ²	+ 245 Kg/m ²
C. VIVA	500 Kg/m ²	
C. TOTAL =		1089 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1507 Kg/m ²
Factor de Carga, F.C.=		1.38

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1507 \times 2.45 = 3691.7 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	508.0	Kg/m ²	Materiales	(kg/cm ²)	
C. VIVA =	500.0	Kg/m ²	f'c =	280	b (cm) = 100
C. ULTIMA =	1409.6	Kg/m ²	fy =	4200	d (cm) = 9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	745.68	0.102	0.07	0.0028	2.50
M+	532.63	0.073	0.07	0.0020	2.16

Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1621.04	5986.30	Ok

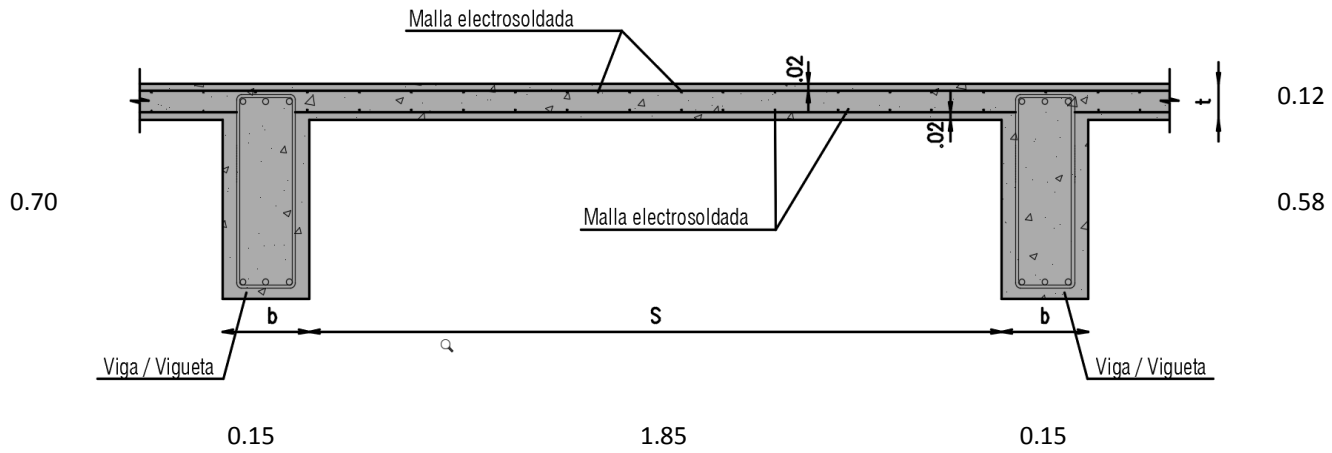
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardin Infantil Campo Verde

Modulo A

CALCULO: JDH

PISO: cubierta



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	104	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		0
C. MUERTA	392 Kg/m ²	+ 195 Kg/m ²
C. VIVA	180 Kg/m ²	
C. TOTAL =		767 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		992 Kg/m ²
Factor de Carga, F.C.=		1.29

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 992 \times 2.00 = 1984.8 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	458.0 Kg/m ²	Materiales (kg/cm ²)	
C. VIVA =	180.0 Kg/m ²	f'c =	280 b (cm) = 100
C. ULTIMA =	837.6 Kg/m ²	fy =	4200 d (cm) = 9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	286.67	0.039	0.07	0.0011	2.16
M+	204.76	0.028	0.07	0.0007	2.16

Chequeo Cortante

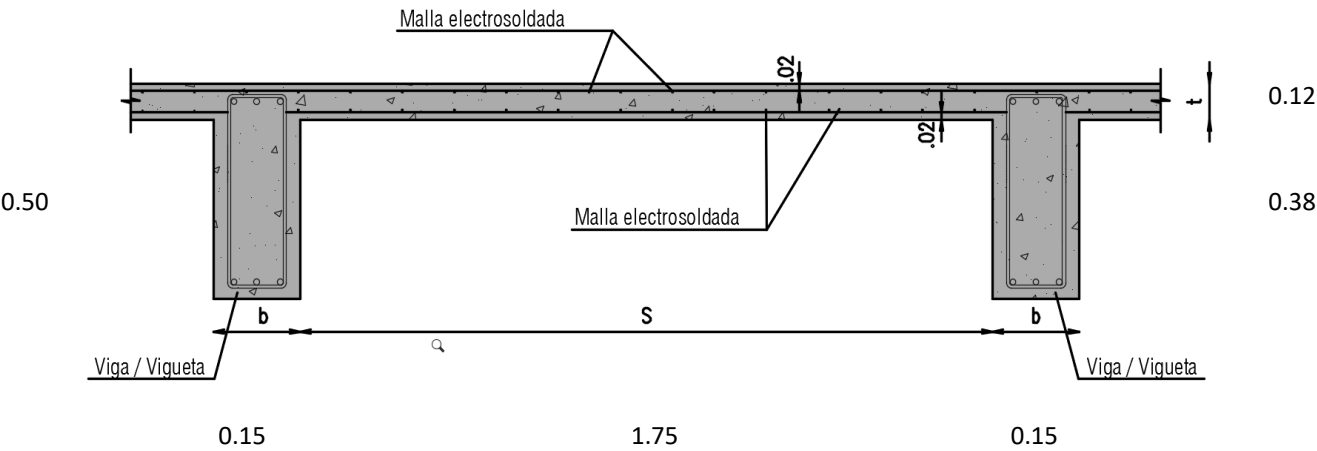
v _u (kg/m)	φV _c (kg/m)	Check
774.78	5986.30	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardin Infantil Campo Verde

CALCULO: JDH

PISO: terraza verde no transitable



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	72	
* CIELO RASO		25
* ACABADOS		0
* TERRAZA VERDE		640
C. MUERTA	360 Kg/m ²	665 Kg/m ²
C. VIVA	180 Kg/m ²	
C. TOTAL =		1205 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1518 Kg/m ²
Factor de Carga, F.C.=		1.26

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1518 \times 1.90 = 2884.2 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	928.0	Kg/m ²	Materiales	(kg/cm ²)	
C. VIVA =	180.0	Kg/m ²	f'c =	280	b (cm) = 100
C. ULTIMA =	1401.6	Kg/m ²	fy =	4200	d (cm) = 9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	429.24	0.059	0.07	0.0016	2.16
M+	306.60	0.042	0.07	0.0011	2.16

Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1226.40	5986.30	Ok



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Nodes

Node	X (m)	Y (m)	Z (m)
5	0.263	0.250	-27.608
6	0.263	0.250	2.234
7	6.063	0.250	-27.090
8	6.063	0.250	2.235
9	11.863	0.250	-26.571
10	11.863	0.250	2.235
11	0.263	0.250	-23.615
12	14.263	0.250	-23.615
13	0.263	0.250	-13.915
14	14.263	0.250	-13.915
15	0.263	0.250	-8.816
16	14.263	0.250	-8.816
17	0.263	0.250	-0.015
19	14.263	0.250	-26.356
22	0.263	3.850	-27.608
23	0.263	3.850	2.234
24	6.063	3.850	-27.090
25	6.063	3.850	2.235
26	11.863	3.850	-26.571
27	11.863	3.850	2.235
28	0.263	3.850	-23.615
29	14.263	3.850	-23.615
30	0.263	3.850	-13.915
31	14.263	3.850	-13.915
32	0.263	3.850	-8.816
33	14.263	3.850	-8.816
34	0.263	3.850	-0.015
36	14.263	3.850	-26.356
38	11.863	3.850	1.785
39	0.263	7.450	-25.865
40	0.263	7.450	2.234
41	6.063	7.450	-25.865
42	6.063	7.450	2.235
43	11.863	7.450	-25.865
44	11.863	7.450	2.235
45	0.263	7.450	-23.615
46	11.863	7.450	-23.615
47	0.263	7.450	-13.915
48	11.863	7.450	-13.915
49	0.263	7.450	-8.816
50	11.863	7.450	-8.816
51	0.263	7.450	-0.015
55	11.863	7.450	1.785
56	11.863	7.450	-8.516
57	0.263	11.100	2.235
58	0.263	11.100	-8.816
59	11.863	11.100	2.235
60	11.863	11.100	-8.816
61	0.263	11.100	-13.915



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
63	0.263	11.100	-25.865
64	11.863	11.100	-25.865
65	0.863	11.100	-8.816
67	0.263	14.550	-9.965
68	11.863	14.550	2.235
69	11.863	11.100	-9.965
70	0.263	14.550	-13.915
72	11.863	14.550	-25.865
73	6.063	0.250	-0.015
74	6.063	0.250	-8.816
75	6.063	0.250	-13.915
76	6.063	0.250	-23.615
77	11.863	0.250	-0.015
78	11.863	0.250	-8.816
79	11.863	0.250	-13.915
80	11.863	0.250	-23.615
81	6.063	3.850	-0.015
82	6.063	3.850	-8.816
83	6.063	3.850	-13.915
84	6.063	3.850	-23.615
85	11.863	3.850	-0.015
86	11.863	3.850	-8.816
87	11.863	3.850	-13.915
88	11.863	3.850	-23.615
89	6.063	7.450	-0.015
90	6.063	7.450	-8.816
91	6.063	7.450	-13.915
92	6.063	7.450	-23.615
93	11.863	7.450	-0.015
109	0.263	11.100	-23.615
110	11.863	11.100	-23.615
111	0.263	11.100	-0.015
112	11.863	11.100	-0.015
113	11.863	11.100	-13.915
115	11.863	13.900	-23.615
118	11.863	13.914	-0.015
121	0.263	14.225	-8.816
122	0.263	11.736	-0.015
124	0.263	11.750	-23.615
131	9.679	14.550	-23.615
132	9.724	14.550	-0.015
134	11.863	11.425	-8.816
137	1.357	14.550	-8.816
138	0.263	0.250	-2.216
140	0.263	3.850	-2.216
142	0.263	7.450	-2.216
144	6.063	0.250	-2.216
145	11.863	0.250	-2.216
146	6.063	3.850	-2.216



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
147	11.863	3.850	-2.216
148	6.063	7.450	-2.216
149	11.863	7.450	-2.216
150	0.263	0.250	-4.416
152	0.263	3.850	-4.416
154	0.263	7.450	-4.416
156	6.063	0.250	-4.416
157	11.863	0.250	-4.416
158	6.063	3.850	-4.416
159	11.863	3.850	-4.416
160	6.063	7.450	-4.416
161	11.863	7.450	-4.416
162	0.263	0.250	-6.615
164	0.263	3.850	-6.615
166	0.263	7.450	-6.615
168	6.063	0.250	-6.615
169	11.863	0.250	-6.615
170	6.063	3.850	-6.615
171	11.863	3.850	-6.615
172	6.063	7.450	-6.615
173	11.863	7.450	-6.615
174	0.263	0.250	-11.316
175	14.263	0.250	-11.316
177	14.263	3.850	-11.316
179	11.863	7.450	-11.316
180	6.063	0.250	-11.316
181	11.863	0.250	-11.316
182	6.063	3.850	-11.316
183	11.863	3.850	-11.316
184	6.063	7.450	-11.316
185	0.263	0.250	-15.866
186	14.263	0.250	-15.866
187	0.263	3.850	-15.866
188	14.263	3.850	-15.866
189	0.263	7.450	-15.866
190	11.863	7.450	-15.866
191	6.063	0.250	-15.866
192	11.863	0.250	-15.866
193	6.063	3.850	-15.866
194	11.863	3.850	-15.866
195	6.063	7.450	-15.866
196	0.263	0.250	-17.816
197	14.263	0.250	-17.816
198	0.263	3.850	-17.816
199	14.263	3.850	-17.816
200	0.263	7.450	-17.816
201	11.863	7.450	-17.816
202	6.063	0.250	-17.816
203	11.863	0.250	-17.816



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
204	6.063	3.850	-17.816
205	11.863	3.850	-17.816
206	6.063	7.450	-17.816
207	0.263	0.250	-19.765
208	14.263	0.250	-19.765
209	0.263	3.850	-19.765
210	14.263	3.850	-19.765
211	0.263	7.450	-19.765
212	11.863	7.450	-19.765
213	6.063	0.250	-19.765
214	11.863	0.250	-19.765
215	6.063	3.850	-19.765
216	11.863	3.850	-19.765
217	6.063	7.450	-19.765
218	0.263	0.250	-21.715
219	14.263	0.250	-21.715
220	0.263	3.850	-21.715
221	14.263	3.850	-21.715
222	0.263	7.450	-21.715
223	11.863	7.450	-21.715
224	6.063	0.250	-21.715
225	11.863	0.250	-21.715
226	6.063	3.850	-21.715
227	11.863	3.850	-21.715
228	6.063	7.450	-21.715
229	0.263	0.250	-25.615
230	14.263	0.250	-25.615
231	6.063	0.250	-25.615
232	11.863	0.250	-25.615
233	3.063	11.100	-8.816
235	5.263	11.100	-8.816
237	7.463	11.100	-8.816
239	9.663	11.100	-8.816
249	8.543	13.563	-25.865
250	5.783	12.742	-25.865
251	3.023	11.921	-25.865
275	0.263	11.937	-22.965
276	0.263	12.774	-20.066
277	0.263	13.612	-17.166
278	11.863	13.612	-22.615
279	11.863	12.774	-19.715
280	11.863	11.937	-16.816
281	9.103	11.921	-13.915
282	6.343	12.742	-13.915
283	3.583	13.563	-13.915
286	6.063	14.550	-19.890
302	10.245	14.550	-24.199
303	7.457	14.550	-21.326
304	8.851	14.550	-22.762



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
305	1.881	14.550	-15.582
306	3.276	14.550	-17.018
307	4.669	14.550	-18.455
308	8.008	14.053	-23.615
309	5.221	13.224	-23.615
310	2.447	12.399	-23.615
311	10.842	14.204	-23.615
314	6.063	14.550	-3.865
341	9.103	11.921	-9.965
342	6.343	12.742	-9.965
343	3.583	13.563	-9.965
344	8.543	13.563	2.235
345	5.783	12.742	2.235
346	3.023	11.921	2.235
347	10.201	14.550	0.487
348	11.863	11.920	-7.065
349	11.863	12.740	-4.166
350	11.863	13.560	-1.265
351	0.263	13.560	-6.465
352	0.263	12.740	-3.565
353	0.263	11.920	-0.665
354	7.442	14.550	-2.415
355	8.822	14.550	-0.964
356	1.925	14.550	-8.218
357	3.304	14.550	-6.767
358	4.684	14.550	-5.316
359	7.921	14.014	-0.015
360	5.162	13.193	-0.015
361	2.402	12.373	-0.015
362	10.770	11.750	-8.816
363	8.010	12.571	-8.816
364	5.251	13.392	-8.816
365	2.492	14.212	-8.816
366	10.677	14.266	-0.015
367	9.663	11.100	-13.915
368	7.463	11.100	-13.915
369	5.263	11.100	-13.915
370	3.063	11.100	-13.915
371	0.863	11.100	-13.915
380	0.913	7.450	-13.915
382	0.913	7.450	-11.316
383	0.913	7.450	-8.816
384	0.263	3.850	-25.615
385	14.263	3.850	-25.615
386	6.063	3.850	-25.615
387	11.863	3.850	-25.615
389	0.263	3.850	-11.316



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Beams

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4	5	229	1.993	16	0
5	7	231	1.474	9	0
6	9	232	0.955	9	0
7	11	76	5.800	5	0
8	13	75	5.800	5	0
9	15	74	5.800	5	0
10	17	73	5.800	5	0
11	19	230	0.741	2	0
12	5	7	5.823	5	0
13	6	8	5.800	2	0
15	22	384	1.993	10	0
16	24	386	1.475	9	0
17	26	387	0.955	10	0
18	28	84	5.800	14	0
21	34	81	5.800	14	0
22	36	385	0.741	17	0
23	23	25	5.800	2	0
25	22	24	5.823	2	0
26	39	45	2.250	10	0
27	41	92	2.250	9	0
28	43	46	2.250	10	0
29	45	92	5.800	14	0
30	47	380	0.650	5	0
31	49	383	0.650	5	0
32	51	89	5.800	14	0
34	40	42	5.800	2	0
36	39	41	5.800	2	0
40	58	65	0.600	5	0
41	61	371	0.600	5	0
42	61	109	9.701	10	0
44	65	371	5.099	10	0
45	59	112	2.250	10	0
46	57	122	2.338	11	0
47	68	118	2.338	11	0
48	70	277	3.383	11	0
49	113	280	3.018	11	0
50	63	251	2.879	6	0
51	70	283	3.464	11	0
52	67	343	3.464	6	0
53	57	346	2.879	6	0
54	72	302	2.322	8	0
55	68	347	2.412	8	0
56	17	6	2.250	16	0
57	15	162	2.200	16	0
58	13	174	2.600	16	0
59	11	218	1.900	16	0
60	73	8	2.250	9	0
61	74	168	2.200	9	0
62	75	180	2.600	9	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
63	76	224	1.900	9	0
64	10	77	2.250	15	0
66	78	169	2.200	15	0
67	79	181	2.600	9	0
68	80	225	1.900	9	0
69	80	12	2.400	5	0
70	76	80	5.800	5	0
71	79	14	2.400	5	0
72	75	79	5.800	5	0
73	78	16	2.400	5	0
74	74	78	5.800	5	0
76	73	77	5.800	5	0
79	14	175	2.600	2	0
80	12	219	1.900	2	0
81	9	19	2.410	5	0
82	7	9	5.823	5	0
83	8	10	5.800	2	0
84	34	23	2.250	10	0
85	32	164	2.200	10	0
86	30	389	2.600	10	0
87	28	220	1.900	10	0
88	81	25	2.250	9	0
89	82	170	2.200	9	0
90	83	182	2.600	9	0
91	84	226	1.900	9	0
92	38	27	0.450	10	0
93	85	38	1.800	10	0
94	86	171	2.200	10	0
95	87	183	2.600	10	0
96	88	227	1.900	10	0
97	88	29	2.400	14	0
98	84	88	5.800	14	0
99	87	31	2.400	5	0
100	83	87	5.800	5	0
101	86	33	2.400	5	0
102	82	86	5.800	5	0
104	81	85	5.800	14	0
107	31	177	2.600	17	0
108	29	221	1.900	17	0
109	25	27	5.800	2	0
110	26	36	2.410	2	0
111	24	26	5.823	2	0
112	51	40	2.250	10	0
113	49	166	2.200	10	0
114	380	382	2.600	10	0
115	45	222	1.900	10	0
116	89	42	2.250	9	0
117	90	172	2.200	9	0
118	91	184	2.600	9	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
119	92	228	1.900	9	0
120	55	44	0.450	10	0
121	93	55	1.800	10	0
122	56	173	1.900	10	0
123	50	56	0.300	10	0
124	48	179	2.600	10	0
125	46	223	1.900	10	0
126	92	46	5.800	14	0
127	91	48	5.800	5	0
128	90	50	5.800	5	0
130	89	93	5.800	14	0
132	42	44	5.800	2	0
133	41	43	5.800	2	0
136	113	110	9.700	10	0
155	11	28	3.600	13	90
156	28	45	3.600	13	90
157	76	84	3.600	4	0
158	84	92	3.600	4	0
159	77	85	3.600	3	0
160	85	93	3.600	3	0
161	73	81	3.600	3	0
162	81	89	3.600	3	0
163	17	34	3.600	3	0
164	34	51	3.600	3	0
165	15	32	3.600	3	90
166	32	49	3.600	3	90
167	49	58	3.650	3	90
168	13	30	3.600	3	90
169	30	47	3.600	3	90
170	47	61	3.650	3	90
171	80	88	3.600	13	90
172	88	46	3.600	13	90
173	75	83	3.600	4	0
174	83	91	3.600	4	0
175	79	87	3.600	3	0
176	87	48	3.600	3	0
178	50	60	3.650	4	0
179	78	86	3.600	12	0
180	86	50	3.600	4	0
181	74	82	3.600	4	0
182	82	90	3.600	4	0
187	46	110	3.650	13	90
188	45	109	3.650	13	90
193	93	112	3.650	3	0
194	51	111	3.650	3	0
195	113	69	3.950	10	0
196	48	113	3.650	3	0
197	110	115	2.800	13	90
198	115	72	2.342	11	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
199	112	118	2.814	3	0
200	118	350	1.299	11	0
201	111	122	0.636	3	0
202	58	121	3.125	3	90
203	121	67	1.195	11	0
204	122	353	0.675	11	0
205	61	70	3.450	3	90
206	109	124	0.650	13	90
207	124	63	2.342	11	0
208	124	310	2.279	14	0
209	122	361	2.232	14	0
210	131	304	1.189	8	0
211	132	355	1.309	8	0
212	131	311	1.213	14	0
213	132	366	0.995	14	0
214	60	134	0.325	4	0
215	134	69	1.195	11	0
216	121	137	1.141	11	0
217	137	67	1.587	8	0
218	137	365	1.185	11	0
271	138	17	2.200	16	0
273	140	34	2.200	10	0
275	142	51	2.200	10	0
277	144	73	2.200	9	0
278	145	77	2.200	15	0
279	146	81	2.200	9	0
280	147	85	2.200	10	0
281	148	89	2.200	9	0
282	149	93	2.200	10	0
283	138	144	5.800	7	0
284	140	146	5.800	7	0
285	142	148	5.800	7	0
287	144	145	5.800	7	0
289	146	147	5.800	7	0
291	148	149	5.800	7	0
292	150	138	2.200	16	0
294	152	140	2.200	10	0
296	154	142	2.200	10	0
298	156	144	2.200	9	0
299	157	145	2.200	15	0
300	158	146	2.200	9	0
301	159	147	2.200	10	0
302	160	148	2.200	9	0
303	161	149	2.200	10	0
304	150	156	5.800	7	0
305	152	158	5.800	7	0
306	154	160	5.800	7	0
308	156	157	5.800	7	0
310	158	159	5.800	7	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
312	160	161	5.800	7	0
313	162	150	2.200	16	0
315	164	152	2.200	10	0
317	166	154	2.200	10	0
319	168	156	2.200	9	0
320	169	157	2.200	15	0
321	170	158	2.200	9	0
322	171	159	2.200	10	0
323	172	160	2.200	9	0
324	173	161	2.200	10	0
325	162	168	5.800	7	0
326	164	170	5.800	7	0
327	166	172	5.800	7	0
329	168	169	5.800	7	0
331	170	171	5.800	7	0
333	172	173	5.800	7	0
334	174	15	2.500	16	0
335	175	16	2.500	2	0
336	389	32	2.500	10	0
337	177	33	2.500	17	0
338	382	383	2.500	10	0
339	179	50	2.500	10	0
340	180	74	2.500	9	0
341	181	78	2.500	9	0
342	182	82	2.500	9	0
343	183	86	2.500	10	0
344	184	90	2.500	9	0
345	174	180	5.800	7	0
348	181	175	2.400	7	0
349	180	181	5.800	7	0
351	182	183	5.800	7	0
352	184	179	5.800	7	0
353	185	13	1.950	16	0
354	186	14	1.950	2	0
355	187	30	1.950	10	0
356	188	31	1.950	17	0
357	189	47	1.950	10	0
358	190	48	1.950	10	0
359	191	75	1.950	9	0
360	192	79	1.950	9	0
361	193	83	1.950	9	0
362	194	87	1.950	10	0
363	195	91	1.950	9	0
364	185	191	5.800	7	0
365	187	193	5.800	7	0
366	189	195	5.800	7	0
367	192	186	2.400	7	0
368	191	192	5.800	7	0
370	193	194	5.800	7	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
371	195	190	5.800	7	0
372	196	185	1.950	16	0
373	197	186	1.950	2	0
374	198	187	1.950	10	0
375	199	188	1.950	17	0
376	200	189	1.950	10	0
377	201	190	1.950	10	0
378	202	191	1.950	9	0
379	203	192	1.950	9	0
380	204	193	1.950	9	0
381	205	194	1.950	10	0
382	206	195	1.950	9	0
383	196	202	5.800	7	0
384	198	204	5.800	7	0
385	200	206	5.800	7	0
386	203	197	2.400	7	0
387	202	203	5.800	7	0
389	204	205	5.800	7	0
390	206	201	5.800	7	0
391	207	196	1.950	16	0
392	208	197	1.950	2	0
393	209	198	1.950	10	0
394	210	199	1.950	17	0
395	211	200	1.950	10	0
396	212	201	1.950	10	0
397	213	202	1.950	9	0
398	214	203	1.950	9	0
399	215	204	1.950	9	0
400	216	205	1.950	10	0
401	217	206	1.950	9	0
402	207	213	5.800	7	0
403	209	215	5.800	7	0
404	211	217	5.800	7	0
405	214	208	2.400	7	0
406	213	214	5.800	7	0
408	215	216	5.800	7	0
409	217	212	5.800	7	0
410	218	207	1.950	16	0
411	219	208	1.950	2	0
412	220	209	1.950	10	0
413	221	210	1.950	17	0
414	222	211	1.950	10	0
415	223	212	1.950	10	0
416	224	213	1.950	9	0
417	225	214	1.950	9	0
418	226	215	1.950	9	0
419	227	216	1.950	10	0
420	228	217	1.950	9	0
421	218	224	5.800	7	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
422	220	226	5.800	7	0
423	222	228	5.800	7	0
424	225	219	2.400	7	0
425	224	225	5.800	7	0
427	226	227	5.800	7	0
428	228	223	5.800	7	0
429	229	11	2.000	16	0
430	230	12	2.000	2	0
431	231	76	2.000	9	0
432	232	80	2.000	9	0
433	229	231	5.800	7	0
434	232	230	2.400	7	0
435	231	232	5.800	7	0
438	233	370	5.099	7	0
440	235	369	5.099	7	0
442	237	368	5.100	7	0
444	239	367	5.100	7	0
455	249	72	3.464	6	0
456	250	249	2.879	6	0
457	251	250	2.879	6	0
488	275	124	0.676	11	0
489	276	275	3.018	11	0
490	277	276	3.018	11	0
491	278	115	1.041	11	0
492	279	278	3.018	11	0
493	280	279	3.018	11	0
494	281	113	2.879	11	0
495	282	281	2.879	11	0
496	283	282	2.879	11	0
498	113	286	9.013	7	0
499	286	307	2.001	8	0
500	286	310	5.619	7	0
504	251	309	3.405	7	0
505	250	308	3.425	7	0
506	249	302	2.579	7	0
508	282	306	4.723	7	0
509	283	305	2.579	7	0
510	281	307	6.868	7	0
513	65	233	2.200	5	0
515	110	64	2.250	10	0
518	233	235	2.200	5	0
519	235	237	2.200	5	0
520	237	239	2.200	5	0
521	239	60	2.200	5	0
522	302	131	0.813	8	0
523	303	286	2.001	8	0
524	304	303	2.001	8	0
525	305	70	2.323	8	0
526	306	305	2.002	8	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
527	307	306	2.001	8	0
528	303	280	6.826	7	0
529	304	279	4.638	7	0
530	302	311	0.903	7	0
531	306	276	4.638	7	0
532	305	277	2.451	7	0
533	307	275	6.826	7	0
534	308	131	1.744	14	0
535	309	308	2.907	14	0
536	310	309	2.894	14	0
537	311	115	1.066	14	0
538	310	63	3.394	7	0
539	309	303	3.464	7	0
540	308	304	1.299	7	0
541	311	278	1.547	7	0
543	69	362	1.715	7	0
544	314	358	2.002	8	0
545	314	361	5.741	7	0
581	346	360	3.355	7	0
582	345	359	3.354	7	0
583	344	347	2.604	7	0
584	353	358	6.935	7	0
585	352	357	4.772	7	0
586	351	356	2.610	7	0
599	341	69	2.879	6	0
600	342	341	2.879	6	0
601	343	342	2.879	6	0
602	344	68	3.464	6	0
603	345	344	2.879	6	0
604	346	345	2.879	6	0
605	347	132	0.693	8	0
606	348	134	1.819	11	0
607	349	348	3.014	11	0
608	350	349	3.014	11	0
609	351	121	2.442	11	0
610	352	351	3.014	11	0
611	353	352	3.014	11	0
612	354	314	2.002	8	0
613	355	354	2.002	8	0
614	356	137	0.825	8	0
615	357	356	2.002	8	0
616	358	357	2.002	8	0
617	354	348	6.935	7	0
618	355	349	4.772	7	0
619	347	366	0.748	7	0
620	358	363	5.218	7	0
621	357	364	3.054	7	0
622	356	365	0.891	7	0
623	359	132	1.881	14	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
624	360	359	2.878	14	0
625	361	360	2.879	14	0
626	361	57	3.355	7	0
627	360	354	3.578	7	0
628	359	355	1.414	7	0
629	362	134	1.141	11	0
630	363	362	2.879	11	0
631	364	363	2.879	11	0
632	365	364	2.878	11	0
633	362	314	7.382	7	0
634	363	341	1.715	7	0
635	364	342	1.714	7	0
636	365	343	1.713	7	0
637	60	69	1.150	10	0
769	366	118	1.237	14	0
770	366	350	1.862	7	0
825	111	58	8.800	10	0
826	367	113	2.200	5	0
827	368	367	2.200	5	0
828	369	368	2.200	5	0
829	370	369	2.200	5	0
830	371	370	2.200	5	0
832	112	60	8.800	10	0
838	109	63	2.250	10	0
839	111	57	2.250	10	0
840	90	383	5.150	5	0
841	82	32	5.800	5	0
842	91	380	5.150	5	0
843	83	30	5.800	5	0
844	182	389	5.800	7	0
845	184	382	5.150	7	0
866	384	28	2.000	10	0
867	385	29	2.000	17	0
868	386	84	2.000	9	0
869	387	88	2.000	10	0
870	384	386	5.800	7	0
872	386	385	8.200	7	0



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Plates

Plate	Node A	Node B	Node C	Node D	Property
638	6	8	73	17	1
639	8	10	77	73	1
641	17	73	144	138	1
642	73	77	145	144	1
644	138	144	156	150	1
645	144	145	157	156	1
647	150	156	168	162	1
648	156	157	169	168	1
650	162	168	74	15	1
651	168	169	78	74	1
653	15	74	180	174	1
654	74	78	181	180	1
655	78	16	175	181	1
656	174	180	75	13	1
657	180	181	79	75	1
658	181	175	14	79	1
659	13	75	191	185	1
660	75	79	192	191	1
661	79	14	186	192	1
662	185	191	202	196	1
663	191	192	203	202	1
664	192	186	197	203	1
665	196	202	213	207	1
666	202	203	214	213	1
667	203	197	208	214	1
668	207	213	224	218	1
669	213	214	225	224	1
670	214	208	219	225	1
671	218	224	76	11	1
672	224	225	80	76	1
673	225	219	12	80	1
674	11	76	231	229	1
675	76	80	232	231	1
676	80	12	230	232	1
677	229	231	7	5	1
678	231	232	9	7	1
679	232	230	19	9	1
684	23	25	81	34	1
685	25	27	85	81	1
687	34	81	146	140	1
688	81	85	147	146	1
690	140	146	158	152	1
691	146	147	159	158	1
693	152	158	170	164	1
694	158	159	171	170	1
696	164	170	82	32	1
697	170	171	86	82	1
700	82	86	183	182	1
701	86	33	177	183	1



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Plates Cont...

Plate	Node A	Node B	Node C	Node D	Property
703	182	183	87	83	1
704	183	177	31	87	1
705	30	83	193	187	1
706	83	87	194	193	1
707	87	31	188	194	1
708	187	193	204	198	1
709	193	194	205	204	1
710	194	188	199	205	1
711	198	204	215	209	1
712	204	205	216	215	1
713	205	199	210	216	1
714	209	215	226	220	1
715	215	216	227	226	1
716	216	210	221	227	1
717	220	226	84	28	1
718	226	227	88	84	1
719	227	221	29	88	1
720	28	84	24	22	1
721	84	88	26	24	1
722	88	29	36	26	1
723	40	42	89	51	1
724	42	44	93	89	1
726	51	89	148	142	1
727	89	93	149	148	1
729	142	148	160	154	1
730	148	149	161	160	1
732	154	160	172	166	1
733	160	161	173	172	1
735	166	172	90	49	1
736	172	173	50	90	1
739	90	50	179	184	1
742	184	179	48	91	1
744	47	91	195	189	1
745	91	48	190	195	1
747	189	195	206	200	1
748	195	190	201	206	1
750	200	206	217	211	1
751	206	201	212	217	1
753	211	217	228	222	1
754	217	212	223	228	1
756	222	228	92	45	1
757	228	223	46	92	1
759	45	92	41	39	1
760	92	46	43	41	1
762	65	233	370	371	1
763	233	235	369	370	1
764	235	237	368	369	1
765	237	239	367	368	1
766	57	346	360	361	1



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Plates Cont...

Plate	Node A	Node B	Node C	Node D	Property
767	346	345	359	360	1
768	345	344	347	359	1
771	347	68	118	366	1
772	122	361	314	358	1
773	361	360	354	314	1
774	360	359	355	354	1
775	132	366	350	349	1
776	354	355	349	348	1
777	314	354	348	134	1
778	358	314	362	363	1
779	357	358	363	364	1
780	353	358	357	352	1
781	352	357	356	351	1
782	357	364	365	356	1
783	351	356	137	121	1
784	137	365	343	67	1
785	365	364	342	343	1
786	364	363	341	342	1
787	363	362	69	341	1
788	283	282	306	305	1
789	282	281	307	306	1
790	281	113	286	307	1
791	113	280	303	286	1
792	280	279	304	303	1
793	279	278	311	131	1
794	311	115	72	302	1
795	305	306	276	277	1
796	306	307	275	276	1
797	307	286	310	275	1
798	286	303	309	310	1
799	303	304	308	309	1
800	310	309	251	63	1
801	309	308	250	251	1
802	308	131	302	249	1
803	70	283	305		1
804	70	305	277		1
805	304	279	131		1
806	311	278	115		1
807	304	131	308		1
808	131	311	302		1
809	302	72	249		1
810	308	249	250		1
811	275	310	124		1
812	124	310	63		1
813	344	68	347		1
814	57	361	122		1
815	122	358	353		1
816	359	132	355		1
817	359	347	132		1



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Plates Cont...

Plate	Node A	Node B	Node C	Node D	Property
818	347	366	132		1
819	366	118	350		1
820	132	349	355		1
821	314	134	362		1
822	362	134	69		1
823	356	365	137		1
824	121	137	67		1
837	239	367	113	60	1
862	383	90	184	382	1
865	382	184	91	380	1
873	32	82	182	389	1
874	389	182	83	30	1

Section Properties

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{zz} (cm ⁴)	J (cm ⁴)	Material
2	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONC28
3	Rect 0.50x0.80	4E+3	2.13E+6	833E+3	2.04E+6	CONC28
4	Cir 0.50	1.96E+3	307E+3	307E+3	614E+3	CONC28
5	Rect 0.60x0.40	2.4E+3	320E+3	720E+3	751E+3	CONC28
6	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONC28
7	Rect 0.50x0.15	750.000	14.1E+3	156E+3	45.6E+3	CONC28
8	Rect 0.60x0.30	1.8E+3	135E+3	540E+3	371E+3	CONC28
9	Rect 0.60x0.50	3E+3	625E+3	900E+3	1.24E+6	CONC28
10	Rect 0.70x0.50	3.5E+3	729E+3	1.43E+6	1.63E+6	CONC28
11	Rect 0.70x0.30	2.1E+3	158E+3	857E+3	460E+3	CONCRETE
12	Rect 0.50x0.50	2.5E+3	521E+3	521E+3	879E+3	CONC28
13	Rect 1.00x0.60	6E+3	1.8E+6	5E+6	4.51E+6	CONC28
14	Rect 0.70x0.60	4.2E+3	1.26E+6	1.71E+6	2.44E+6	CONCRETE
15	Rect 0.60x0.85	5.1E+3	3.07E+6	1.53E+6	3.45E+6	CONCRETE
16	Rect 0.60x0.65	3.9E+3	1.37E+6	1.17E+6	2.12E+6	CONCRETE
17	Rect 0.84x0.20	1.68E+3	56E+3	988E+3	190E+3	CONC28

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	12.000	12.000	12.000	12.000	DIAFRAGMA



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Materials

Mat	Name	E (kN/mm ²)	v	Density (kg/m ³)	α (/°C)
1	DIAFRAGMA	24.389	0.170	0.200	10E -6
2	CONC28	24.389	0.170	2.4E+3	10E -6
3	STEEL	205.000	0.300	7.83E+3	12E -6
4	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
5	ALUMINUM	68.948	0.330	2.71E+3	23E -6
6	CONCRETE	24.389	0.170	2.4E+3	10E -6

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN°m/deg)	rY (kN°m/deg)	rZ (kN°m/deg)
11	Fixed	Fixed	Fixed	-	-	-
13	Fixed	Fixed	Fixed	-	-	-
15	Fixed	Fixed	Fixed	-	-	-
17	Fixed	Fixed	Fixed	-	-	-
73	Fixed	Fixed	Fixed	-	-	-
74	Fixed	Fixed	Fixed	-	-	-
75	Fixed	Fixed	Fixed	-	-	-
76	Fixed	Fixed	Fixed	-	-	-
77	Fixed	Fixed	Fixed	-	-	-
78	Fixed	Fixed	Fixed	-	-	-
79	Fixed	Fixed	Fixed	-	-	-
80	Fixed	Fixed	Fixed	-	-	-

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
5	DERX1	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.80
6	DERX2	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.80
7	DERZ1	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	0.80
8	DERZ2	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	-0.80
9	DERX3	1	DEAD	0.90
		3	EQX	0.80
10	DERX4	1	DEAD	0.90
		3	EQX	-0.80
11	DERZ3	1	DEAD	0.90
		4	EQZ	0.80
12	DERZ4	1	DEAD	0.90
		4	EQZ	-0.80



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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
13	COM1	1	DEAD	1.40
14	COM2	1	DEAD	1.20
		2	LIVE	1.60
15	COM3	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.20
		4	EQZ	0.06
16	COM4	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.20
		4	EQZ	-0.06
17	COM5	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.20
		4	EQZ	-0.06
18	COM6	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.20
		4	EQZ	0.06
19	COM7	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.06
		4	EQZ	0.20
20	COM8	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.06
		4	EQZ	-0.20
21	COM9	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.06
		4	EQZ	-0.20
22	COM10	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.06
		4	EQZ	0.20
23	COM11	1	DEAD	0.90
		3	EQX	0.20
		4	EQZ	0.06
24	COM12	1	DEAD	0.90
		3	EQX	0.20
		4	EQZ	-0.06
25	COM13	1	DEAD	0.90
		3	EQX	-0.20
		4	EQZ	-0.06
26	COM14	1	DEAD	0.90
		3	EQX	-0.20
		4	EQZ	0.06
27	COM15	1	DEAD	0.90
		3	EQX	0.06



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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
28	COM16	4	EQZ	0.20
		1	DEAD	0.90
		3	EQX	0.06
29	COM17	4	EQZ	-0.20
		1	DEAD	0.90
		3	EQX	-0.06
30	COM18	4	EQZ	-0.20
		1	DEAD	0.90
		3	EQX	-0.06
31	CIM	4	EQZ	0.20
		1	DEAD	1.00
		2	LIVE	1.00
32	CIMX1	1	DEAD	0.90
		3	EQX	0.14
		4	EQZ	0.04
33	CIMX2	1	DEAD	0.90
		3	EQX	-0.14
		4	EQZ	0.04
34	CIMX3	1	DEAD	0.90
		3	EQX	0.14
		4	EQZ	-0.04
35	CIMX4	1	DEAD	0.90
		3	EQX	-0.14
		4	EQZ	-0.04
36	CIMX5	1	DEAD	0.90
		3	EQX	0.04
		4	EQZ	0.14
37	CIMX6	1	DEAD	0.90
		3	EQX	-0.04
		4	EQZ	0.14
38	CIMX7	1	DEAD	0.90
		3	EQX	0.04
		4	EQZ	-0.14
39	CIMX8	1	DEAD	0.90
		3	EQX	-0.05
		4	EQZ	-0.14
40	CIMX9	3	EQX	0.14
		4	EQZ	0.04
		1	DEAD	1.00
41	CIMX10	2	LIVE	1.00
		3	EQX	0.14
		4	EQZ	-0.04
42	CIMX11	1	DEAD	1.00
		2	LIVE	1.00
		3	EQX	-0.14
43	CIMX12	4	EQZ	0.04
		1	DEAD	1.00
		2	LIVE	1.00
		3	EQX	-0.14



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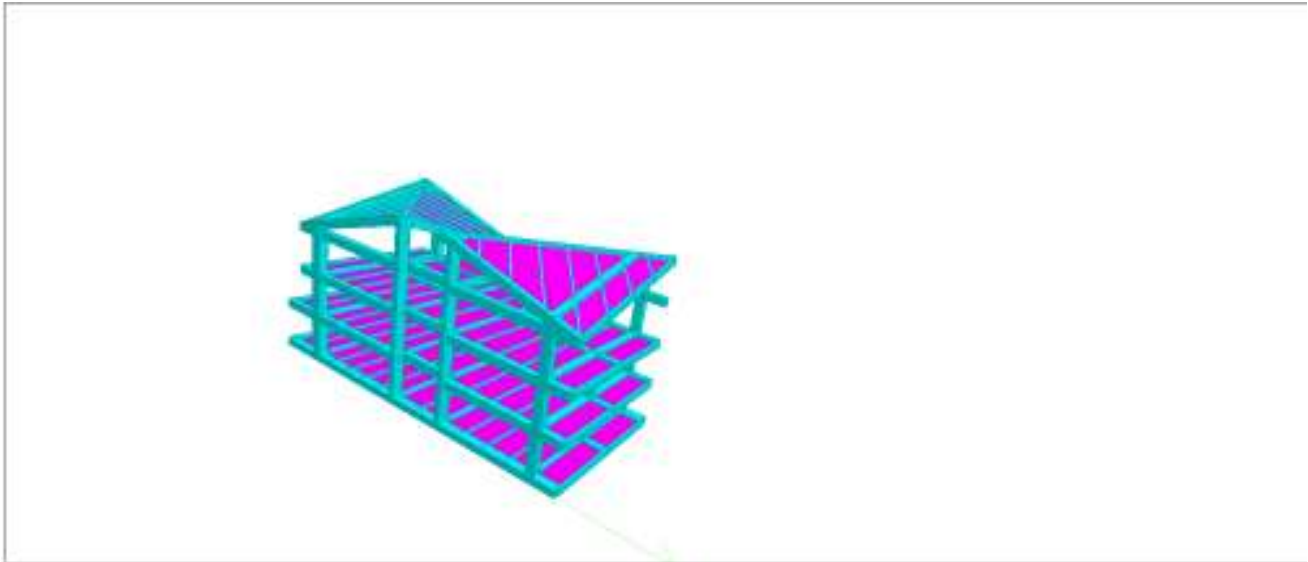
Date/Time 07-Nov-2018 11:41

Combination Load Cases Cont...

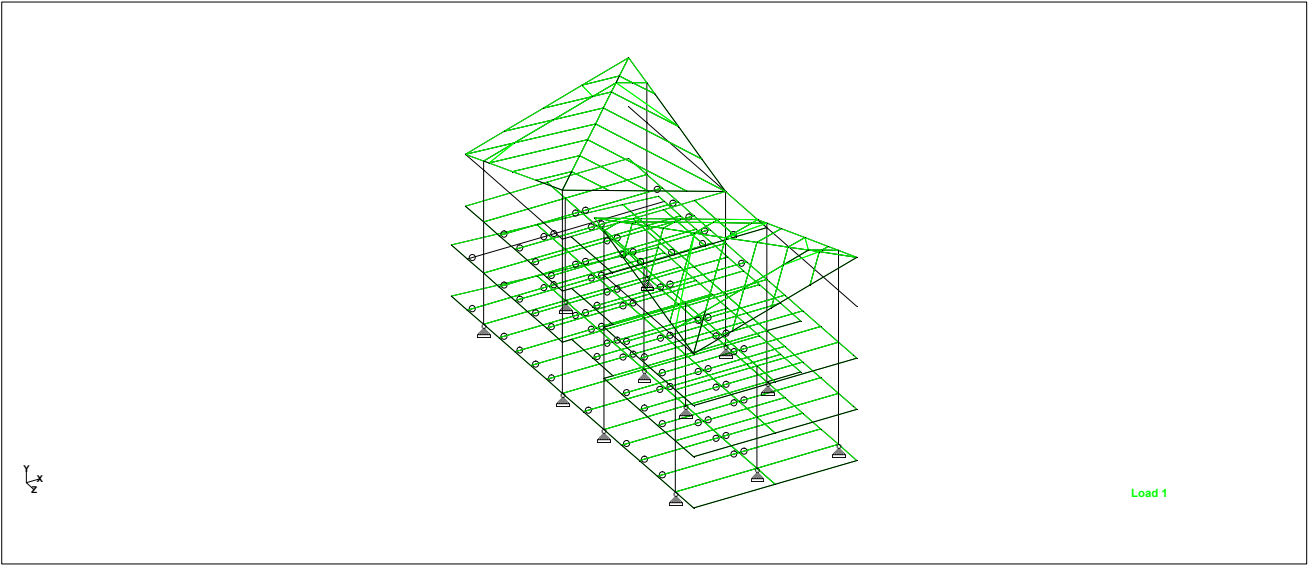
Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
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		1	DEAD	1.00
		2	LIVE	1.00
44	CIMX13	3	EQX	0.04
		4	EQZ	0.14
		1	DEAD	1.00
		2	LIVE	1.00
45	CIMX14	3	EQX	0.04
		4	EQZ	-0.14
		1	DEAD	1.00
		2	LIVE	1.00
46	CIMX15	3	EQX	-0.04
		4	EQZ	0.14
		1	DEAD	1.00
		2	LIVE	1.00
47	CIMX16	3	EQX	-0.04
		4	EQZ	-0.14
		1	DEAD	1.00
		2	LIVE	1.00

Load Generators

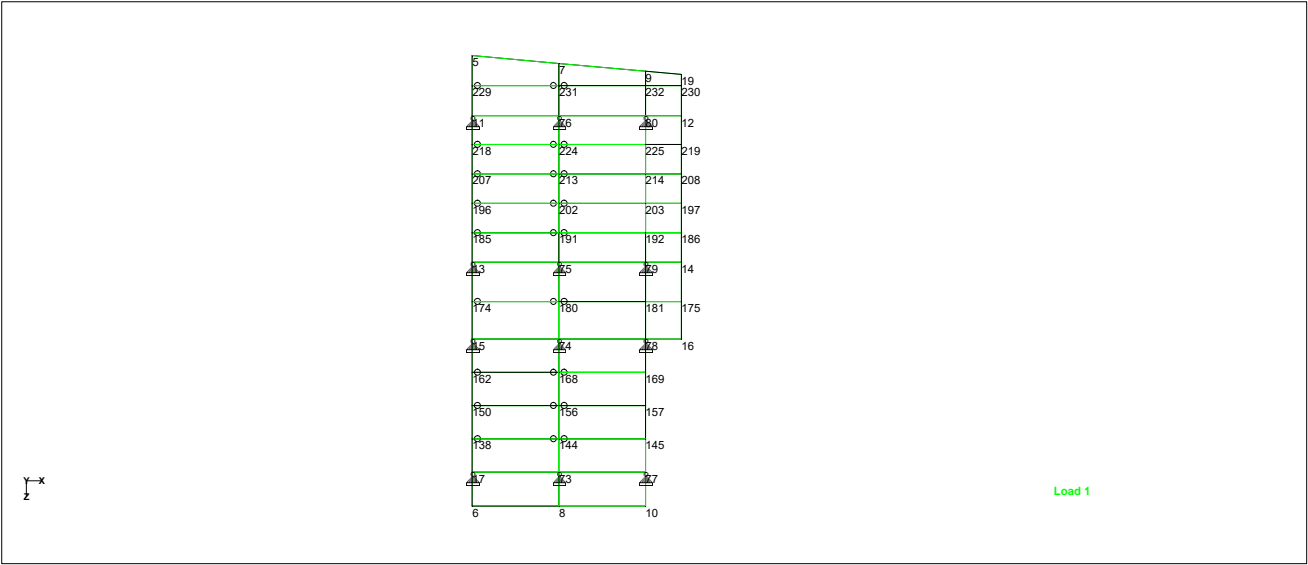
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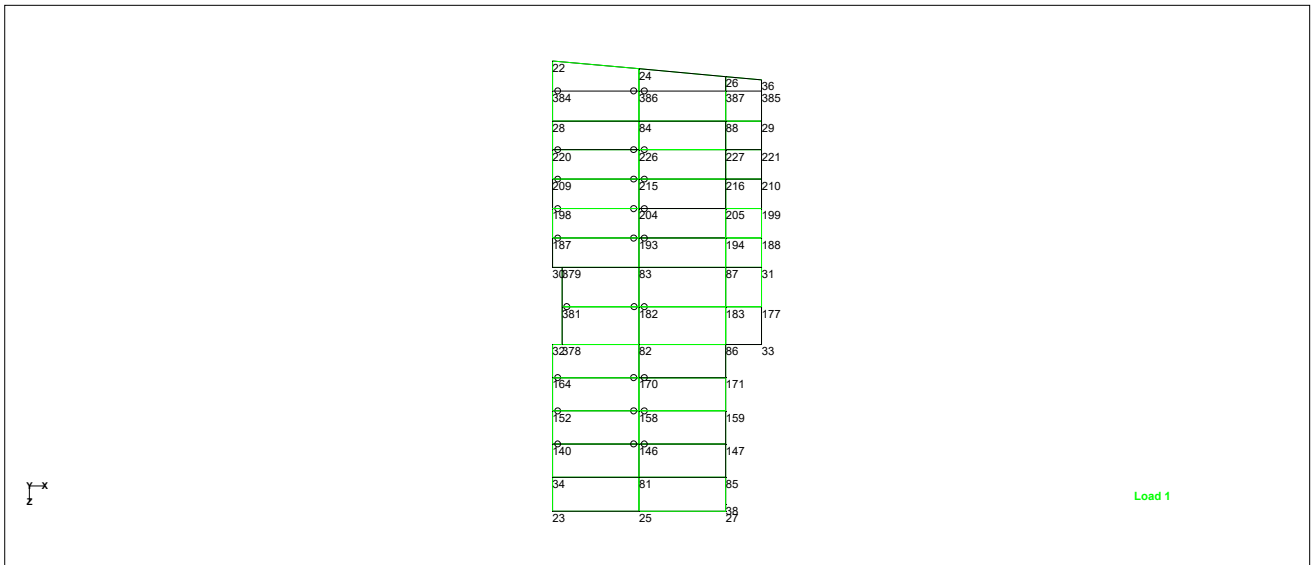
3D Modelo estructural



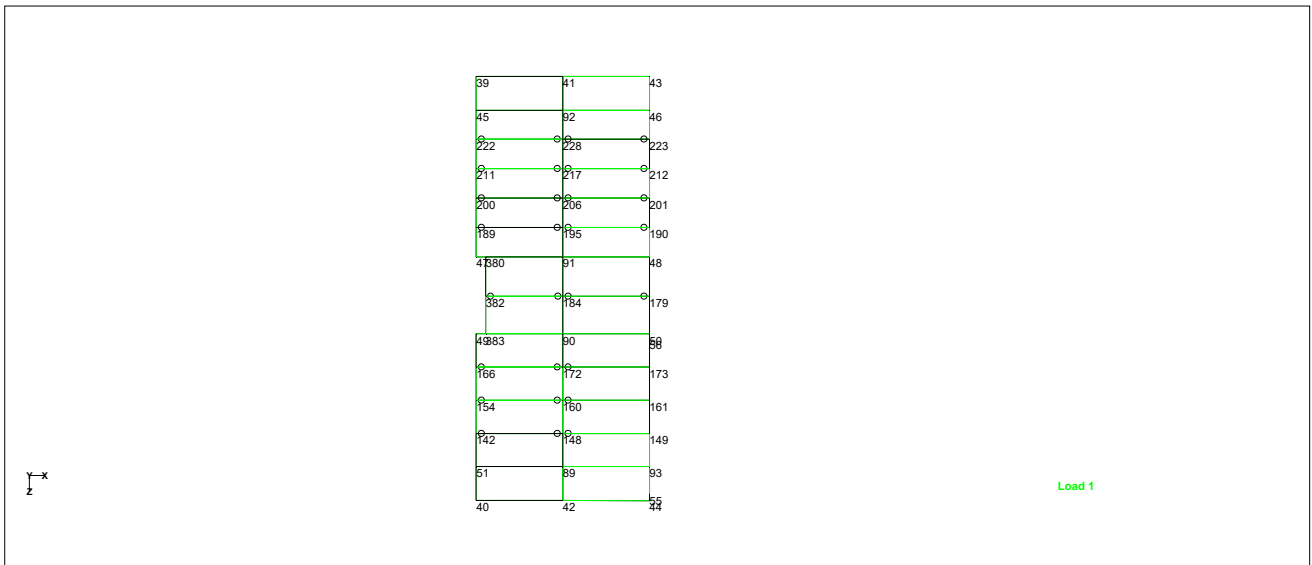
3D modelo analítico



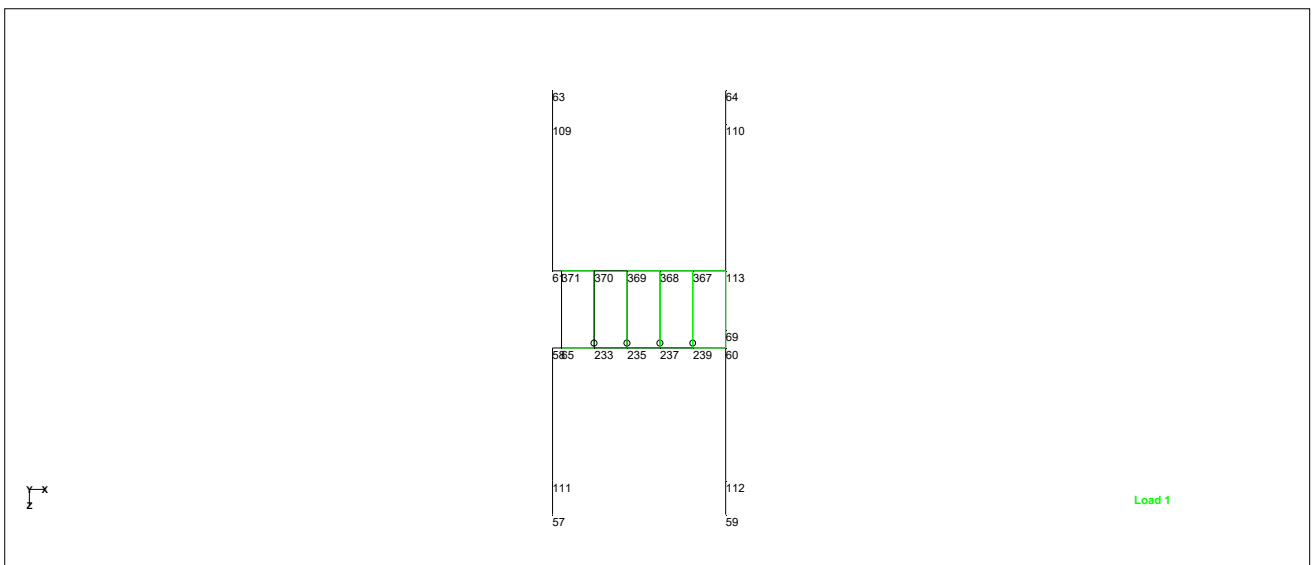
Nodos Ne+0.15



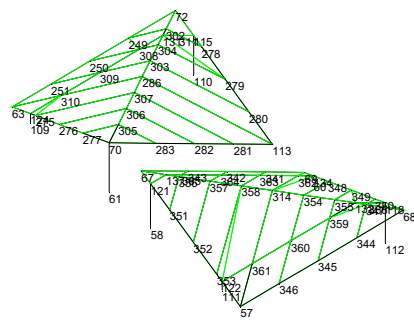
Nodos Ne+3.85



Nodos NE+7.45



Nodos Ne+11.10



Nodos cubierta

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*          Proprietary Program of                 *
*          Bentley Systems, Inc.                  *
*          Date=    NOV  7, 2018                  *
*          Time=    14:52:18                      *
*
*          USER ID: CNI Ingermieros              *
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1. STAAD SPACE DXF IMPORT OF DRAWING1.DXF

INPUT FILE: Y:\PROYECTOS 2018\181_JARDIN CAMPO VERDE\2. MODELOS\1.CURADURIA\MODULO A_08ago_18.STD

2. START JOB INFORMATION

3. ENGINEER DATE 19-APR-18

4. JOB NAME CAMPO VERDE MODULO A

5. END JOB INFORMATION

6. INPUT WIDTH 79

7. UNIT METER MTON

8. JOINT COORDINATES

9. 5 0.263133 0.25 -27.6081; 6 0.263133 0.25 2.2345; 7 6.06313 0.25 -27.0895
10. 8 6.06313 0.25 2.23453; 9 11.8631 0.25 -26.5709; 10 11.8631 0.25 2.23456
11. 11 0.263133 0.25 -23.6155; 12 14.2631 0.25 -23.6155; 13 0.263133 0.25 -13.9155
12. 14 14.2631 0.25 -13.9155; 15 0.263133 0.25 -8.8155; 16 14.2631 0.25 -8.8155
13. 17 0.263133 0.25 -0.0154974; 19 14.2631 0.25 -26.3563
14. 22 0.263133 3.85 -27.608; 23 0.263 3.85 2.2345; 24 6.06313 3.85 -27.09
15. 25 6.063 3.85 2.23453; 26 11.8631 3.85 -26.571; 27 11.863 3.85 2.23456
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18. 34 0.263133 3.85 -0.0154974; 36 14.2631 3.85 -26.356; 38 11.863 3.85 1.7845
19. 39 0.263133 7.45 -25.8655; 40 0.263133 7.45 2.2345; 41 6.06313 7.45 -25.8655
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22. 48 11.8631 7.45 -13.9155; 49 0.263133 7.45 -8.8155; 50 11.8631 7.45 -8.8155
23. 51 0.263133 7.45 -0.0154974; 55 11.8631 7.45 1.7845; 56 11.8631 7.45 -8.5155
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25. 60 11.8631 11.1 -8.8155; 61 0.263133 11.1 -13.9146; 63 0.263133 11.1 -25.8655
26. 64 11.8631 11.1 -25.8655; 65 0.863133 11.1 -8.8155; 67 0.263133 14.55 -9.9655
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28. 72 11.863 14.55 -25.8655; 73 6.06313 0.25 -0.0154974; 74 6.06313 0.25 -8.8155
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32. 84 6.06313 3.85 -23.6155; 85 11.8631 3.85 -0.0154974; 86 11.8631 3.85 -8.8155
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77. 227 11.8631 3.85 -21.7155; 228 6.06313 7.45 -21.7155
78. 229 0.263133 0.25 -25.6155; 230 14.2631 0.25 -25.6155
79. 231 6.06313 0.25 -25.6155; 232 11.8631 0.25 -25.6155; 233 3.06313 11.1 -8.8155
80. 235 5.26313 11.1 -8.8155; 237 7.46313 11.1 -8.8155; 239 9.66313 11.1 -8.8155
81. 249 8.54313 13.5626 -25.8655; 250 5.78313 12.7417 -25.8655
82. 251 3.02313 11.9209 -25.8655; 275 0.263133 11.9372 -22.9655
83. 276 0.263133 12.7744 -20.0655; 277 0.263133 13.6116 -17.1655
84. 278 11.8631 13.6117 -22.6155; 279 11.8631 12.7745 -19.7155
85. 280 11.8631 11.9372 -16.8155; 281 9.1031 11.9209 -13.9154
86. 282 6.3431 12.7417 -13.9153; 283 3.5831 13.5626 -13.9151
87. 286 6.06321 14.55 -19.8904; 302 10.2455 14.55 -24.1991
88. 303 7.45699 14.55 -21.3263; 304 8.85092 14.55 -22.7624
89. 305 1.88098 14.55 -15.5817; 306 3.27551 14.55 -17.0184
90. 307 4.66944 14.55 -18.4545; 308 8.00753 14.0529 -23.6155
91. 309 5.22096 13.2241 -23.6155; 310 2.4473 12.3992 -23.6154
92. 311 10.8416 14.2042 -23.6155; 314 6.06312 14.55 -3.8655
93. 341 9.1031 11.9209 -9.9655; 342 6.3431 12.7417 -9.9655
94. 343 3.5831 13.5626 -9.9655; 344 8.54313 13.5626 2.23452

95. 345 5.78313 12.7417 2.23452; 346 3.02313 11.9209 2.23452
 96. 347 10.2012 14.55 0.486583; 348 11.8631 11.9201 -7.0655
 97. 349 11.8631 12.7401 -4.1655; 350 11.8631 13.5602 -1.2655
 98. 351 0.263133 13.5603 -6.46548; 352 0.263133 12.7402 -3.56548
 99. 353 0.263133 11.9201 -0.66548; 354 7.44247 14.55 -2.4148
 100. 355 8.82181 14.55 -0.964113; 356 1.92509 14.55 -8.21758
 101. 357 3.30443 14.55 -6.76688; 358 4.68378 14.55 -5.31619
 102. 359 7.92063 14.0137 -0.0154942; 360 5.16184 13.1932 -0.0154894
 103. 361 2.40247 12.3726 -0.0154846; 362 10.7697 11.7504 -8.8155
 104. 363 8.00999 12.5712 -8.8155; 364 5.25061 13.3919 -8.8155
 105. 365 2.49225 14.2122 -8.8155; 366 10.6774 14.2664 -0.01549
 106. 367 9.66313 11.1 -13.9153; 368 7.46313 11.1 -13.9152; 369 5.26313 11.1 -13.915
 107. 370 3.06313 11.1 -13.9148; 371 0.863133 11.1 -13.9146
 108. 380 0.913133 7.45 -13.9155; 382 0.913133 7.45 -11.3155
 109. 383 0.913133 7.45 -8.8155; 384 0.263133 3.85 -25.6155
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 111. 387 11.8631 3.85 -25.6155; 389 0.263133 3.85 -11.3155
 112. MEMBER INCIDENCES
 113. 4 5 229; 5 7 231; 6 9 232; 7 11 76; 8 13 75; 9 15 74; 10 17 73; 11 19 230
 114. 12 5 7; 13 6 8; 15 22 384; 16 24 386; 17 26 387; 18 28 84; 21 34 81; 22 36 385
 115. 23 23 25; 25 22 24; 26 39 45; 27 41 92; 28 43 46; 29 45 92; 30 47 380
 116. 31 49 383; 32 51 89; 34 40 42; 36 39 41; 40 58 65; 41 61 371; 42 61 109
 117. 44 65 371; 45 59 112; 46 57 122; 47 68 118; 48 70 277; 49 113 280; 50 63 251
 118. 51 70 283; 52 67 343; 53 57 346; 54 72 302; 55 68 347; 56 17 6; 57 15 162
 119. 58 13 174; 59 11 218; 60 73 8; 61 74 168; 62 75 180; 63 76 224; 64 10 77
 120. 66 78 169; 67 79 181; 68 80 225; 69 80 12; 70 76 80; 71 79 14; 72 75 79
 121. 73 78 16; 74 74 78; 76 73 77; 79 14 175; 80 12 219; 81 9 19; 82 7 9; 83 8 10
 122. 84 34 23; 85 32 164; 86 30 389; 87 28 220; 88 81 25; 89 82 170; 90 83 182
 123. 91 84 226; 92 38 27; 93 85 38; 94 86 171; 95 87 183; 96 88 227; 97 88 29
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 125. 108 29 221; 109 25 27; 110 26 36; 111 24 26; 112 51 40; 113 49 166
 126. 114 380 382; 115 45 222; 116 89 42; 117 90 172; 118 91 184; 119 92 228
 127. 120 55 44; 121 93 55; 122 56 173; 123 50 56; 124 48 179; 125 46 223; 126 92 46
 128. 127 91 48; 128 90 50; 130 89 93; 132 42 44; 133 41 43; 136 113 110; 155 11 28
 129. 156 28 45; 157 76 84; 158 84 92; 159 77 85; 160 85 93; 161 73 81; 162 81 89
 130. 163 17 34; 164 34 51; 165 15 32; 166 32 49; 167 49 58; 168 13 30; 169 30 47
 131. 170 47 61; 171 80 88; 172 88 46; 173 75 83; 174 83 91; 175 79 87; 176 87 48
 132. 178 50 60; 179 78 86; 180 86 50; 181 74 82; 182 82 90; 187 46 110; 188 45 109
 133. 193 93 112; 194 51 111; 195 113 69; 196 48 113; 197 110 115; 198 115 72
 134. 199 112 118; 200 118 350; 201 111 122; 202 58 121; 203 121 67; 204 122 353
 135. 205 61 70; 206 109 124; 207 124 63; 208 124 310; 209 122 361; 210 131 304
 136. 211 132 355; 212 131 311; 213 132 366; 214 60 134; 215 134 69; 216 121 137
 137. 217 137 67; 218 137 365; 271 138 17; 273 140 34; 275 142 51; 277 144 73
 138. 278 145 77; 279 146 81; 280 147 85; 281 148 89; 282 149 93; 283 138 144
 139. 284 140 146; 285 142 148; 287 144 145; 289 146 147; 291 148 149; 292 150 138
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 146. 341 181 78; 342 182 82; 343 183 86; 344 184 90; 345 174 180; 348 181 175
 147. 349 180 181; 351 182 183; 352 184 179; 353 185 13; 354 186 14; 355 187 30
 148. 356 188 31; 357 189 47; 358 190 48; 359 191 75; 360 192 79; 361 193 83
 149. 362 194 87; 363 195 91; 364 185 191; 365 187 193; 366 189 195; 367 192 186
 150. 368 191 192; 370 193 194; 371 195 190; 372 196 185; 373 197 186; 374 198 187

151. 375 199 188; 376 200 189; 377 201 190; 378 202 191; 379 203 192; 380 204 193
 152. 381 205 194; 382 206 195; 383 196 202; 384 198 204; 385 200 206; 386 203 197
 153. 387 202 203; 389 204 205; 390 206 201; 391 207 196; 392 208 197; 393 209 198
 154. 394 210 199; 395 211 200; 396 212 201; 397 213 202; 398 214 203; 399 215 204
 155. 400 216 205; 401 217 206; 402 207 213; 403 209 215; 404 211 217; 405 214 208
 156. 406 213 214; 408 215 216; 409 217 212; 410 218 207; 411 219 208; 412 220 209
 157. 413 221 210; 414 222 211; 415 223 212; 416 224 213; 417 225 214; 418 226 215
 158. 419 227 216; 420 228 217; 421 218 224; 422 220 226; 423 222 228; 424 225 219
 159. 425 224 225; 427 226 227; 428 228 223; 429 229 11; 430 230 12; 431 231 76
 160. 432 232 80; 433 229 231; 434 232 230; 435 231 232; 438 233 370; 440 235 369
 161. 442 237 368; 444 239 367; 455 249 72; 456 250 249; 457 251 250; 488 275 124
 162. 489 276 275; 490 277 276; 491 278 115; 492 279 278; 493 280 279; 494 281 113
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 165. 515 110 64; 518 233 235; 519 235 237; 520 237 239; 521 239 60; 522 302 131
 166. 523 303 286; 524 304 303; 525 305 70; 526 306 305; 527 307 306; 528 303 280
 167. 529 304 279; 530 302 311; 531 306 276; 532 305 277; 533 307 275; 534 308 131
 168. 535 309 308; 536 310 309; 537 311 115; 538 310 63; 539 309 303; 540 308 304
 169. 541 311 278; 543 69 362; 544 314 358; 545 314 361; 581 346 360; 582 345 359
 170. 583 344 347; 584 353 358; 585 352 357; 586 351 356; 599 341 69; 600 342 341
 171. 601 343 342; 602 344 68; 603 345 344; 604 346 345; 605 347 132; 606 348 134
 172. 607 349 348; 608 350 349; 609 351 121; 610 352 351; 611 353 352; 612 354 314
 173. 613 355 354; 614 356 137; 615 357 356; 616 358 357; 617 354 348; 618 355 349
 174. 619 347 366; 620 358 363; 621 357 364; 622 356 365; 623 359 132; 624 360 359
 175. 625 361 360; 626 361 57; 627 360 354; 628 359 355; 629 362 134; 630 363 362
 176. 631 364 363; 632 365 364; 633 362 314; 634 363 341; 635 364 342; 636 365 343
 177. 637 60 69; 769 366 118; 770 366 350; 825 111 58; 826 367 113; 827 368 367
 178. 828 369 368; 829 370 369; 830 371 370; 832 112 60; 838 109 63; 839 111 57
 179. 840 90 383; 841 82 32; 842 91 380; 843 83 30; 844 182 389; 845 184 382
 180. 866 384 28; 867 385 29; 868 386 84; 869 387 88; 870 384 386; 872 386 385
 181. ELEMENT INCIDENCES SHELL
 182. 638 6 8 73 17; 639 8 10 77 73; 641 17 73 144 138; 642 73 77 145 144
 183. 644 138 144 156 150; 645 144 145 157 156; 647 150 156 168 162
 184. 648 156 157 169 168; 650 162 168 74 15; 651 168 169 78 74; 653 15 74 180 174
 185. 654 74 78 181 180; 655 78 16 175 181; 656 174 180 75 13; 657 180 181 79 75
 186. 658 181 175 14 79; 659 13 75 191 185; 660 75 79 192 191; 661 79 14 186 192
 187. 662 185 191 202 196; 663 191 192 203 202; 664 192 186 197 203
 188. 665 196 202 213 207; 666 202 203 214 213; 667 203 197 208 214
 189. 668 207 213 224 218; 669 213 214 225 224; 670 214 208 219 225
 190. 671 218 224 76 11; 672 224 225 80 76; 673 225 219 12 80; 674 11 76 231 229
 191. 675 76 80 232 231; 676 80 12 230 232; 677 229 231 7 5; 678 231 232 9 7
 192. 679 232 230 19 9; 684 23 25 81 34; 685 25 27 85 81; 687 34 81 146 140
 193. 688 81 85 147 146; 690 140 146 158 152; 691 146 147 159 158
 194. 693 152 158 170 164; 694 158 159 171 170; 696 164 170 82 32; 697 170 171 86 82
 195. 700 82 86 183 182; 701 86 33 177 183; 703 182 183 87 83; 704 183 177 31 87
 196. 705 30 83 193 187; 706 83 87 194 193; 707 87 31 188 194; 708 187 193 204 198
 197. 709 193 194 205 204; 710 194 188 199 205; 711 198 204 215 209
 198. 712 204 205 216 215; 713 205 199 210 216; 714 209 215 226 220
 199. 715 215 216 227 226; 716 216 210 221 227; 717 220 226 84 28; 718 226 227 88 84
 200. 719 227 221 29 88; 720 28 84 24 22; 721 84 88 26 24; 722 88 29 36 26
 201. 723 40 42 89 51; 724 42 44 93 89; 726 51 89 148 142; 727 89 93 149 148
 202. 729 142 148 160 154; 730 148 149 161 160; 732 154 160 172 166
 203. 733 160 161 173 172; 735 166 172 90 49; 736 172 173 50 90; 739 90 50 179 184
 204. 742 184 179 48 91; 744 47 91 195 189; 745 91 48 190 195; 747 189 195 206 200
 205. 748 195 190 201 206; 750 200 206 217 211; 751 206 201 212 217
 206. 753 211 217 228 222; 754 217 212 223 228; 756 222 228 92 45; 757 228 223 46 92

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207. 759 45 92 41 39; 760 92 46 43 41; 762 65 233 370 371; 763 233 235 369 370
 208. 764 235 237 368 369; 765 237 239 367 368; 766 57 346 360 361
 209. 767 346 345 359 360; 768 345 344 347 359; 771 347 68 118 366
 210. 772 122 361 314 358; 773 361 360 354 314; 774 360 359 355 354
 211. 775 132 366 350 349; 776 354 355 349 348; 777 314 354 348 134
 212. 778 358 314 362 363; 779 357 358 363 364; 780 353 358 357 352
 213. 781 352 357 356 351; 782 357 364 365 356; 783 351 356 137 121
 214. 784 137 365 343 67; 785 365 364 342 343; 786 364 363 341 342
 215. 787 363 362 69 341; 788 283 282 306 305; 789 282 281 307 306
 216. 790 281 113 286 307; 791 113 280 303 286; 792 280 279 304 303
 217. 793 279 278 311 131; 794 311 115 72 302; 795 305 306 276 277
 218. 796 306 307 275 276; 797 307 286 310 275; 798 286 303 309 310
 219. 799 303 304 308 309; 800 310 309 251 63; 801 309 308 250 251
 220. 802 308 131 302 249; 803 70 283 305; 804 70 305 277; 805 304 279 131
 221. 806 311 278 115; 807 304 131 308; 808 131 311 302; 809 302 72 249
 222. 810 308 249 250; 811 275 310 124; 812 124 310 63; 813 344 68 347
 223. 814 57 361 122; 815 122 358 353; 816 359 132 355; 817 359 347 132
 224. 818 347 366 132; 819 366 118 350; 820 132 349 355; 821 314 134 362
 225. 822 362 134 69; 823 356 365 137; 824 121 137 67; 837 239 367 113 60
 226. 862 383 90 184 382; 865 382 184 91 380; 873 32 82 182 389; 874 389 182 83 30
 227. START GROUP DEFINITION

WARNING PLATE NO. 815 (JOINTS 122 - 358 - 353 - 0)
 IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

228. MEMBER
 229. _COL 155 TO 176 178 TO 182 187 188 193 194 196 197 199 201 202 205 206 214
 230. _VIGASCIM 4 TO 13 56 TO 64 66 TO 74 76 79 TO 83 271 277 278 283 287 292 298 -
 231. 299 304 308 313 319 320 325 329 334 335 340 341 345 348 349 353 354 359 360 -
 232. 364 367 368 372 373 378 379 383 386 387 391 392 397 398 402 405 406 410 411 -
 233. 416 417 421 424 425 429 TO 435 870 872
 234. _VC 4 TO 13 56 TO 64 66 TO 74 76 79 TO 83 271 277 278 283 287 292 298 299 -
 235. 304 308 313 319 320 325 329 334 335 340 341 345 348 349 353 354 359 360 364 -
 236. 367 368 372 373 378 379 383 386 387 391 392 397 398 402 405 406 410 411 416 -
 237. 417 421 424 425 429 TO 435
 238. END GROUP DEFINITION
 239. ELEMENT PROPERTY
 240. 638 639 641 642 644 645 647 648 650 651 653 TO 679 684 685 687 688 690 691 -
 241. 693 694 696 697 700 701 703 TO 724 726 727 729 730 732 733 735 736 739 742 -
 242. 744 745 747 748 750 751 753 754 756 757 759 760 762 TO 768 771 TO 824 837 -
 243. 862 865 873 874 THICKNESS 0.12
 244. DEFINE MATERIAL START
 245. ISOTROPIC CONCRETE
 246. E 2.487E+006
 247. POISSON 0.17
 248. DENSITY 2.40262
 249. ALPHA 1E-005
 250. DAMP 0.05
 251. TYPE CONCRETE
 252. STRENGTH FCU 2812.28
 253. ISOTROPIC DIAFRAGMA
 254. E 2.487E+006
 255. POISSON 0.17
 256. DENSITY 0.0002
 257. ALPHA 1E-005
 258. DAMP 0.05
 259. G 946439

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260. TYPE CONCRETE
261. STRENGTH FCU 2812.28
262. ISOTROPIC CONC28
263. E 2.487E+006
264. POISSON 0.17
265. DENSITY 2.40262
266. ALPHA 1E-005
267. DAMP 0.05
268. G 946439
269. TYPE CONCRETE
270. STRENGTH FCU 2812.28
271. END DEFINE MATERIAL
272. MEMBER PROPERTY AMERICAN
273. 11 13 23 25 34 36 79 80 83 109 TO 111 132 133 335 354 373 392 411 -
274. 430 PRIS YD 0.6 ZD 0.2
275. 159 TO 170 175 176 193 194 196 199 201 202 205 PRIS YD 0.5 ZD 0.8
276. 157 158 173 174 178 180 TO 182 214 PRIS YD 0.5
277. 7 TO 10 12 30 31 40 41 69 TO 74 76 81 82 99 TO 102 127 128 513 518 TO 521 -
278. 826 TO 830 840 TO 843 PRIS YD 0.6 ZD 0.4
279. 50 52 53 455 TO 457 599 TO 604 PRIS YD 0.6 ZD 0.2
280. MEMBER PROPERTY AMERICAN
281. 283 TO 285 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 348 -
282. 349 351 352 364 TO 368 370 371 383 TO 387 389 390 402 TO 406 408 409 421 -
283. 422 TO 425 427 428 433 TO 435 438 440 442 444 498 500 504 TO 506 508 TO 510 -
284. 528 TO 533 538 TO 541 543 545 581 TO 586 617 TO 622 626 TO 628 633 TO 636 -
285. 770 844 845 870 872 PRIS YD 0.5 ZD 0.15
286. 54 55 210 211 217 499 522 TO 527 544 605 612 TO 616 PRIS YD 0.6 ZD 0.3
287. MEMBER PROPERTY AMERICAN
288. 5 6 16 27 60 TO 63 67 68 88 TO 91 116 TO 119 277 279 281 298 300 302 319 321 -
289. 323 340 TO 342 344 359 TO 361 363 378 TO 380 382 397 TO 399 401 416 TO 418 -
290. 420 431 432 868 PRIS YD 0.6 ZD 0.5
291. 15 17 26 28 42 44 45 84 TO 87 92 TO 96 112 TO 115 120 TO 125 136 195 273 275 -
292. 280 282 294 296 301 303 315 317 322 324 336 338 339 343 355 357 358 362 374 -
293. 376 377 381 393 395 396 400 412 414 415 419 515 637 825 832 838 839 866 -
294. 869 PRIS YD 0.7 ZD 0.5
295. 46 TO 49 51 198 200 203 204 207 215 216 218 488 TO 496 606 TO 611 629 TO 631 -
296. 632 PRIS YD 0.7 ZD 0.3
297. 179 PRIS YD 0.5 ZD 0.5
298. 155 156 171 172 187 188 197 206 PRIS YD 1 ZD 0.6
299. MEMBER PROPERTY AMERICAN
300. 18 21 29 32 97 98 104 126 130 208 209 212 213 534 TO 537 623 TO 625 -
301. 769 PRIS YD 0.7 ZD 0.6
302. MEMBER PROPERTY AMERICAN
303. 64 66 278 299 320 PRIS YD 0.6 ZD 0.85
304. MEMBER PROPERTY AMERICAN
305. 4 56 TO 59 271 292 313 334 353 372 391 410 429 PRIS YD 0.6 ZD 0.65
306. MEMBER PROPERTY AMERICAN
307. 22 107 108 337 356 375 394 413 867 PRIS YD 0.84 ZD 0.2
308. CONSTANTS
309. BETA 90 MEMB 155 156 165 TO 172 187 188 197 202 205 206
310. MATERIAL CONC28 MEMB 5 TO 13 15 TO 17 22 23 25 TO 28 30 31 34 36 40 TO 42 -
311. 44 45 50 52 TO 55 60 TO 63 67 TO 74 76 79 TO 96 99 TO 102 107 TO 125 127 -
312. 128 132 133 136 155 TO 176 178 TO 182 187 188 193 TO 197 199 201 202 205 -
313. 206 210 211 214 217 273 275 277 279 TO 285 287 289 291 294 296 298 -
314. 300 TO 306 308 310 312 315 317 319 321 TO 327 329 331 333 335 TO 345 348 -
315. 349 351 352 354 TO 368 370 371 373 TO 387 389 390 392 TO 406 408 409 411 -

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317. 504 TO 506 508 TO 510 513 515 518 TO 533 538 TO 541 543 TO 545 581 TO 586 -
318. 599 TO 605 612 TO 622 626 TO 628 633 TO 639 641 642 644 645 647 648 650 651 -
319. 653 TO 679 684 685 687 688 690 691 693 694 696 697 700 701 703 TO 724 726 -
320. 727 729 730 732 733 735 736 739 742 744 745 747 748 750 751 753 754 756 757 -
321. 759 760 762 TO 768 770 TO 830 832 837 TO 845 866 TO 870 872
322. MATERIAL DIAFRAGMA MEMB 638 639 641 642 644 645 647 648 650 651 653 TO 679 -
323. 684 685 687 688 690 691 693 694 696 697 700 701 703 TO 724 726 727 729 730 -
324. 732 733 735 736 739 742 744 745 747 748 750 751 753 754 756 757 759 760 762 -
325. 763 TO 768 771 TO 824 837 862 865 873 874
326. MATERIAL CONCRETE MEMB 4 18 21 29 32 46 TO 49 51 56 TO 59 64 66 97 98 104 -
327. 126 130 198 200 203 204 207 TO 209 212 213 215 216 218 271 278 292 299 313 -
328. 320 334 353 372 391 410 429 488 TO 496 534 TO 537 606 TO 611 623 TO 625 629 -
329. 630 TO 632 769
330. SUPPORTS
331. 11 13 15 17 73 TO 80 PINNED
332. ELEMENT PLANE STRESS
333. 638 639 641 642 644 645 647 648 650 651 653 TO 679 684 685 687 688 690 691 -
334. 693 694 696 697 700 701 703 TO 724 726 727 729 730 732 733 735 736 739 742 -
335. 744 745 747 748 750 751 753 754 756 757 759 760 762 TO 768 771 TO 824 837
336. MEMBER RELEASE
337. 283 TO 285 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 349 -
338. 351 352 364 TO 366 368 370 371 383 TO 385 387 389 390 402 TO 404 406 408 -
339. 409 421 TO 423 425 427 428 433 435 438 440 442 444 844 845 870 -
340. 872 START MX MY MZ
341. 283 TO 285 304 TO 306 325 TO 327 345 352 364 TO 366 371 383 TO 385 390 402 -
342. 403 TO 404 409 421 TO 423 428 433 844 845 870 END MX MY MZ
343. CUT OFF MODE SHAPE 25
344. LOAD 1 LOADTYPE DEAD TITLE DEAD
345. MEMBER LOAD
346. 7 TO 10 18 21 29 TO 32 69 TO 74 76 98 100 102 104 126 TO 128 130 283 TO 285 -
347. 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 348 349 351 -
348. 352 364 TO 368 370 371 383 TO 387 389 390 402 TO 406 408 409 421 TO 425 427 -
349. 428 433 TO 435 840 842 844 845 870 872 UNI GY -1.1
350. 843 UNI GY -1.1 5.15 5.8
351. 843 UNI GY -1.1 0 5.15
352. 841 UNI GY -1.1 5.15 5.8
353. 841 UNI GY -1.1 0 5.15
354. 12 13 23 25 34 36 81 TO 83 109 111 132 133 UNI GY -0.5
355. 92 TO 94 96 280 301 322 362 381 400 419 438 440 442 444 498 500 504 TO 506 -
356. 508 TO 510 528 TO 533 538 TO 541 543 545 581 TO 586 617 TO 622 626 TO 628 -
357. 633 TO 636 770 UNI GY -1.
358. 12 13 23 25 34 36 44 46 TO 53 66 67 81 TO 83 88 89 91 109 111 132 133 195 -
359. 198 200 203 204 207 215 278 279 299 300 320 321 341 361 380 399 418 -
360. 455 TO 457 488 TO 496 599 TO 604 606 TO 611 868 UNI GY -0.5
361. 64 UNI GY -0.5
362. 4 56 TO 59 271 292 313 334 353 372 391 410 429 UNI GY -2.3
363. 40 TO 42 45 136 513 515 518 TO 521 825 TO 830 832 UNI GY -0.32
364. SELFWEIGHT Y -1
365. SELFWEIGHT Y -1 LIST 843
366. SELFWEIGHT Y -1 LIST 841
367. MEMBER LOAD
368. 66 278 299 320 UNI GY -2.3
369. 64 UNI GY -2.3
370. 17 22 95 96 107 108 337 343 356 362 375 381 394 400 413 419 867 869 UNI GY -1.2
371. LOAD 2 LOADTYPE LIVE REDUCIBLE TITLE LIVE

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373. 7 TO 10 29 TO 32 69 TO 74 76 126 TO 128 130 283 285 287 291 304 306 308 312 -
374. 325 327 329 333 345 348 349 352 364 366 TO 368 371 383 385 TO 387 390 402 -
375. 404 TO 406 409 421 423 TO 425 428 433 TO 435 840 842 845 UNI GY -1.1
376. 12 13 34 36 81 TO 83 132 133 UNI GY -0.61
377. 18 21 98 100 102 104 284 289 305 310 326 331 351 365 370 384 389 403 408 422 -
378. 427 844 870 872 UNI GY -0.49
379. 843 UNI GY -0.49 5.15 5.8
380. 843 UNI GY -0.49 0 5.15
381. 841 UNI GY -0.49 5.15 5.8
382. 841 UNI GY -0.49 0 5.15
383. 438 440 442 444 498 500 504 TO 506 508 TO 510 528 TO 533 538 TO 541 543 545 -
384. 581 TO 586 617 TO 622 626 TO 628 633 TO 636 770 UNI GY -0.37
385. 44 46 TO 53 195 198 200 203 204 207 215 455 TO 457 488 TO 496 599 TO 604 606 -
386. 607 TO 611 UNI GY -0.19
387. 23 25 109 111 UNI GY -0.24
388. 66 278 299 320 UNI GY -0.86
389. 64 UNI GY -0.86
390. 17 22 95 96 107 108 337 343 356 362 375 381 394 400 413 419 867 -
391. 869 UNI GY -0.23
392. LOAD 3 LOADTYPE SEISMIC TITLE EQX
393. SPECTRUM CQC X 1.15 ACC SCALE 9.81 DAMP 0.05 LIN
394. 0 0.492; 1.28 0.492; 1.391 0.453; 1.502 0.419; 1.613 0.391; 1.724 0.365
395. 1.835 0.343; 1.946 0.324; 2.057 0.306; 2.168 0.291; 2.279 0.276; 2.39 0.264
396. 2.501 0.252; 2.612 0.241; 2.723 0.231; 2.834 0.222; 2.945 0.214; 3.056 0.206
397. 3.167 0.199; 3.278 0.192; 3.389 0.186; 3.5 0.18; 3.7 0.161; 3.9 0.145
398. 4.1 0.131; 4.3 0.119; 4.5 0.109; 4.7 0.1; 4.7 0.041
399. MEMBER LOAD
400. 18 21 29 TO 32 98 100 102 104 126 TO 128 130 284 285 289 291 305 306 310 312 -
401. 326 327 331 333 351 352 365 366 370 371 384 385 389 390 403 404 408 409 422 -
402. 423 427 428 840 842 845 UNI GX 1.31
403. 843 UNI GX 1.31 5.15 5.8
404. 843 UNI GX 1.31 0 5.15
405. 841 UNI GX 1.31 5.15 5.8
406. 841 UNI GX 1.31 0 5.15
407. 844 UNI GX 1.31
408. 843 UNI GX 1.31 0 5.15
409. 841 UNI GX 1.31 0 5.15
410. 23 25 34 36 109 111 132 133 UNI GX 0.65
411. 92 TO 94 96 280 301 322 362 381 400 419 438 440 442 444 498 500 504 TO 506 -
412. 508 TO 510 528 TO 533 538 TO 541 543 545 581 TO 586 617 TO 622 626 TO 628 -
413. 633 TO 636 770 UNI GX 1
414. 869 UNI GX 1 0 1.2945
415. 17 UNI GX 1 0.25 0.9555
416. 17 UNI GX 1 0 0.25
417. 23 25 34 36 44 46 TO 53 88 89 91 109 111 132 133 195 198 200 203 204 207 215 -
418. 279 300 321 361 380 399 418 455 TO 457 488 TO 496 599 TO 604 606 TO 611 -
419. 637 UNI GX 0.5
420. 868 UNI GX 0.5 0 0.775499
421. 16 UNI GX 0.5 0.25 1.4745
422. 16 UNI GX 0.5 0 0.25
423. 40 TO 42 45 136 513 515 518 TO 521 825 TO 830 832 UNI GX 0.32
424. SELFWEIGHT X 1
425. SELFWEIGHT X 1 LIST 843
426. SELFWEIGHT X 1 LIST 841
427. MEMBER LOAD

Nodes

Node	X (m)	Y (m)	Z (m)
5	0.263	0.250	-27.608
6	0.263	0.250	2.234
7	6.063	0.250	-27.090
8	6.063	0.250	2.235
9	11.863	0.250	-26.571
10	11.863	0.250	2.235
11	0.263	0.250	-23.615
12	14.263	0.250	-23.615
13	0.263	0.250	-13.915
14	14.263	0.250	-13.915
15	0.263	0.250	-8.816
16	14.263	0.250	-8.816
17	0.263	0.250	-0.015
19	14.263	0.250	-26.356
22	0.263	3.850	-27.608
23	0.263	3.850	2.234
24	6.063	3.850	-27.090
25	6.063	3.850	2.235
26	11.863	3.850	-26.571
27	11.863	3.850	2.235
28	0.263	3.850	-23.615
29	14.263	3.850	-23.615
30	0.263	3.850	-13.915
31	14.263	3.850	-13.915
32	0.263	3.850	-8.816
33	14.263	3.850	-8.816
34	0.263	3.850	-0.015
36	14.263	3.850	-26.356
38	11.863	3.850	1.785
39	0.263	7.450	-25.865
40	0.263	7.450	2.234
41	6.063	7.450	-25.865
42	6.063	7.450	2.235
43	11.863	7.450	-25.865
44	11.863	7.450	2.235
45	0.263	7.450	-23.615
46	11.863	7.450	-23.615
47	0.263	7.450	-13.915
48	11.863	7.450	-13.915
49	0.263	7.450	-8.816
50	11.863	7.450	-8.816
51	0.263	7.450	-0.015
55	11.863	7.450	1.785
56	11.863	7.450	-8.516
57	0.263	11.100	2.235
58	0.263	11.100	-8.816
59	11.863	11.100	2.235
60	11.863	11.100	-8.816
61	0.263	11.100	-13.915
63	0.263	11.100	-25.865
64	11.863	11.100	-25.865
65	0.863	11.100	-8.816
67	0.263	14.550	-9.965
68	11.863	14.550	2.235

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
69	11.863	11.100	-9.965
70	0.263	14.550	-13.915
72	11.863	14.550	-25.865
73	6.063	0.250	-0.015
74	6.063	0.250	-8.816
75	6.063	0.250	-13.915
76	6.063	0.250	-23.615
77	11.863	0.250	-0.015
78	11.863	0.250	-8.816
79	11.863	0.250	-13.915
80	11.863	0.250	-23.615
81	6.063	3.850	-0.015
82	6.063	3.850	-8.816
83	6.063	3.850	-13.915
84	6.063	3.850	-23.615
85	11.863	3.850	-0.015
86	11.863	3.850	-8.816
87	11.863	3.850	-13.915
88	11.863	3.850	-23.615
89	6.063	7.450	-0.015
90	6.063	7.450	-8.816
91	6.063	7.450	-13.915
92	6.063	7.450	-23.615
93	11.863	7.450	-0.015
109	0.263	11.100	-23.615
110	11.863	11.100	-23.615
111	0.263	11.100	-0.015
112	11.863	11.100	-0.015
113	11.863	11.100	-13.915
115	11.863	13.900	-23.615
118	11.863	13.914	-0.015
121	0.263	14.225	-8.816
122	0.263	11.736	-0.015
124	0.263	11.750	-23.615
131	9.679	14.550	-23.615
132	9.724	14.550	-0.015
134	11.863	11.425	-8.816
137	1.357	14.550	-8.816
138	0.263	0.250	-2.216
140	0.263	3.850	-2.216
142	0.263	7.450	-2.216
144	6.063	0.250	-2.216
145	11.863	0.250	-2.216
146	6.063	3.850	-2.216
147	11.863	3.850	-2.216
148	6.063	7.450	-2.216
149	11.863	7.450	-2.216
150	0.263	0.250	-4.416
152	0.263	3.850	-4.416
154	0.263	7.450	-4.416
156	6.063	0.250	-4.416
157	11.863	0.250	-4.416
158	6.063	3.850	-4.416
159	11.863	3.850	-4.416

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
160	6.063	7.450	-4.416
161	11.863	7.450	-4.416
162	0.263	0.250	-6.615
164	0.263	3.850	-6.615
166	0.263	7.450	-6.615
168	6.063	0.250	-6.615
169	11.863	0.250	-6.615
170	6.063	3.850	-6.615
171	11.863	3.850	-6.615
172	6.063	7.450	-6.615
173	11.863	7.450	-6.615
174	0.263	0.250	-11.316
175	14.263	0.250	-11.316
177	14.263	3.850	-11.316
179	11.863	7.450	-11.316
180	6.063	0.250	-11.316
181	11.863	0.250	-11.316
182	6.063	3.850	-11.316
183	11.863	3.850	-11.316
184	6.063	7.450	-11.316
185	0.263	0.250	-15.866
186	14.263	0.250	-15.866
187	0.263	3.850	-15.866
188	14.263	3.850	-15.866
189	0.263	7.450	-15.866
190	11.863	7.450	-15.866
191	6.063	0.250	-15.866
192	11.863	0.250	-15.866
193	6.063	3.850	-15.866
194	11.863	3.850	-15.866
195	6.063	7.450	-15.866
196	0.263	0.250	-17.816
197	14.263	0.250	-17.816
198	0.263	3.850	-17.816
199	14.263	3.850	-17.816
200	0.263	7.450	-17.816
201	11.863	7.450	-17.816
202	6.063	0.250	-17.816
203	11.863	0.250	-17.816
204	6.063	3.850	-17.816
205	11.863	3.850	-17.816
206	6.063	7.450	-17.816
207	0.263	0.250	-19.765
208	14.263	0.250	-19.765
209	0.263	3.850	-19.765
210	14.263	3.850	-19.765
211	0.263	7.450	-19.765
212	11.863	7.450	-19.765
213	6.063	0.250	-19.765
214	11.863	0.250	-19.765
215	6.063	3.850	-19.765
216	11.863	3.850	-19.765
217	6.063	7.450	-19.765
218	0.263	0.250	-21.715

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
219	14.263	0.250	-21.715
220	0.263	3.850	-21.715
221	14.263	3.850	-21.715
222	0.263	7.450	-21.715
223	11.863	7.450	-21.715
224	6.063	0.250	-21.715
225	11.863	0.250	-21.715
226	6.063	3.850	-21.715
227	11.863	3.850	-21.715
228	6.063	7.450	-21.715
229	0.263	0.250	-25.615
230	14.263	0.250	-25.615
231	6.063	0.250	-25.615
232	11.863	0.250	-25.615
233	3.063	11.100	-8.816
235	5.263	11.100	-8.816
237	7.463	11.100	-8.816
239	9.663	11.100	-8.816
249	8.543	13.563	-25.865
250	5.783	12.742	-25.865
251	3.023	11.921	-25.865
275	0.263	11.937	-22.965
276	0.263	12.774	-20.066
277	0.263	13.612	-17.166
278	11.863	13.612	-22.615
279	11.863	12.774	-19.715
280	11.863	11.937	-16.816
281	9.103	11.921	-13.915
282	6.343	12.742	-13.915
283	3.583	13.563	-13.915
286	6.063	14.550	-19.890
302	10.245	14.550	-24.199
303	7.457	14.550	-21.326
304	8.851	14.550	-22.762
305	1.881	14.550	-15.582
306	3.276	14.550	-17.018
307	4.669	14.550	-18.455
308	8.008	14.053	-23.615
309	5.221	13.224	-23.615
310	2.447	12.399	-23.615
311	10.842	14.204	-23.615
314	6.063	14.550	-3.865
341	9.103	11.921	-9.965
342	6.343	12.742	-9.965
343	3.583	13.563	-9.965
344	8.543	13.563	2.235
345	5.783	12.742	2.235
346	3.023	11.921	2.235
347	10.201	14.550	0.487
348	11.863	11.920	-7.065
349	11.863	12.740	-4.166
350	11.863	13.560	-1.265
351	0.263	13.560	-6.465
352	0.263	12.740	-3.565

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
353	0.263	11.920	-0.665
354	7.442	14.550	-2.415
355	8.822	14.550	-0.964
356	1.925	14.550	-8.218
357	3.304	14.550	-6.767
358	4.684	14.550	-5.316
359	7.921	14.014	-0.015
360	5.162	13.193	-0.015
361	2.402	12.373	-0.015
362	10.770	11.750	-8.816
363	8.010	12.571	-8.816
364	5.251	13.392	-8.816
365	2.492	14.212	-8.816
366	10.677	14.266	-0.015
367	9.663	11.100	-13.915
368	7.463	11.100	-13.915
369	5.263	11.100	-13.915
370	3.063	11.100	-13.915
371	0.863	11.100	-13.915
380	0.913	7.450	-13.915
382	0.913	7.450	-11.316
383	0.913	7.450	-8.816
384	0.263	3.850	-25.615
385	14.263	3.850	-25.615
386	6.063	3.850	-25.615
387	11.863	3.850	-25.615
389	0.263	3.850	-11.316

Beams

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4	5	229	1.993	16	0
5	7	231	1.474	9	0
6	9	232	0.955	9	0
7	11	76	5.800	5	0
8	13	75	5.800	5	0
9	15	74	5.800	5	0
10	17	73	5.800	5	0
11	19	230	0.741	2	0
12	5	7	5.823	5	0
13	6	8	5.800	2	0
15	22	384	1.993	10	0
16	24	386	1.475	9	0
17	26	387	0.955	10	0
18	28	84	5.800	14	0
21	34	81	5.800	14	0
22	36	385	0.741	2	0
23	23	25	5.800	2	0
25	22	24	5.823	2	0
26	39	45	2.250	10	0
27	41	92	2.250	9	0
28	43	46	2.250	10	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
29	45	92	5.800	14	0
30	47	380	0.650	5	0
31	49	383	0.650	5	0
32	51	89	5.800	14	0
34	40	42	5.800	2	0
36	39	41	5.800	2	0
40	58	65	0.600	5	0
41	61	371	0.600	5	0
42	61	109	9.701	10	0
44	65	371	5.099	10	0
45	59	112	2.250	10	0
46	57	122	2.338	11	0
47	68	118	2.338	11	0
48	70	277	3.383	11	0
49	113	280	3.018	11	0
50	63	251	2.879	6	0
51	70	283	3.464	11	0
52	67	343	3.464	6	0
53	57	346	2.879	6	0
54	72	302	2.322	8	0
55	68	347	2.412	8	0
56	17	6	2.250	16	0
57	15	162	2.200	16	0
58	13	174	2.600	16	0
59	11	218	1.900	16	0
60	73	8	2.250	9	0
61	74	168	2.200	9	0
62	75	180	2.600	9	0
63	76	224	1.900	9	0
64	10	77	2.250	15	0
66	78	169	2.200	15	0
67	79	181	2.600	9	0
68	80	225	1.900	9	0
69	80	12	2.400	5	0
70	76	80	5.800	5	0
71	79	14	2.400	5	0
72	75	79	5.800	5	0
73	78	16	2.400	5	0
74	74	78	5.800	5	0
76	73	77	5.800	5	0
79	14	175	2.600	2	0
80	12	219	1.900	2	0
81	9	19	2.410	5	0
82	7	9	5.823	5	0
83	8	10	5.800	2	0
84	34	23	2.250	10	0
85	32	164	2.200	10	0
86	30	389	2.600	10	0
87	28	220	1.900	10	0
88	81	25	2.250	9	0
89	82	170	2.200	9	0
90	83	182	2.600	9	0
91	84	226	1.900	9	0
92	38	27	0.450	10	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
93	85	38	1.800	10	0
94	86	171	2.200	10	0
95	87	183	2.600	10	0
96	88	227	1.900	10	0
97	88	29	2.400	14	0
98	84	88	5.800	14	0
99	87	31	2.400	5	0
100	83	87	5.800	5	0
101	86	33	2.400	5	0
102	82	86	5.800	5	0
104	81	85	5.800	14	0
107	31	177	2.600	2	0
108	29	221	1.900	2	0
109	25	27	5.800	2	0
110	26	36	2.410	2	0
111	24	26	5.823	2	0
112	51	40	2.250	10	0
113	49	166	2.200	10	0
114	380	382	2.600	10	0
115	45	222	1.900	10	0
116	89	42	2.250	9	0
117	90	172	2.200	9	0
118	91	184	2.600	9	0
119	92	228	1.900	9	0
120	55	44	0.450	10	0
121	93	55	1.800	10	0
122	56	173	1.900	10	0
123	50	56	0.300	10	0
124	48	179	2.600	10	0
125	46	223	1.900	10	0
126	92	46	5.800	14	0
127	91	48	5.800	5	0
128	90	50	5.800	5	0
130	89	93	5.800	14	0
132	42	44	5.800	2	0
133	41	43	5.800	2	0
136	113	110	9.700	10	0
155	11	28	3.600	13	90
156	28	45	3.600	13	90
157	76	84	3.600	4	0
158	84	92	3.600	4	0
159	77	85	3.600	3	0
160	85	93	3.600	3	0
161	73	81	3.600	3	0
162	81	89	3.600	3	0
163	17	34	3.600	3	0
164	34	51	3.600	3	0
165	15	32	3.600	3	90
166	32	49	3.600	3	90
167	49	58	3.650	3	90
168	13	30	3.600	3	90
169	30	47	3.600	3	90
170	47	61	3.650	3	90
171	80	88	3.600	13	90

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
172	88	46	3.600	13	90
173	75	83	3.600	4	0
174	83	91	3.600	4	0
175	79	87	3.600	3	0
176	87	48	3.600	3	0
178	50	60	3.650	4	0
179	78	86	3.600	12	0
180	86	50	3.600	4	0
181	74	82	3.600	4	0
182	82	90	3.600	4	0
187	46	110	3.650	13	90
188	45	109	3.650	13	90
193	93	112	3.650	3	0
194	51	111	3.650	3	0
195	113	69	3.950	10	0
196	48	113	3.650	3	0
197	110	115	2.800	13	90
198	115	72	2.342	11	0
199	112	118	2.814	3	0
200	118	350	1.299	11	0
201	111	122	0.636	3	0
202	58	121	3.125	3	90
203	121	67	1.195	11	0
204	122	353	0.675	11	0
205	61	70	3.450	3	90
206	109	124	0.650	13	90
207	124	63	2.342	11	0
208	124	310	2.279	14	0
209	122	361	2.232	14	0
210	131	304	1.189	8	0
211	132	355	1.309	8	0
212	131	311	1.213	14	0
213	132	366	0.995	14	0
214	60	134	0.325	4	0
215	134	69	1.195	11	0
216	121	137	1.141	11	0
217	137	67	1.587	8	0
218	137	365	1.185	11	0
271	138	17	2.200	16	0
273	140	34	2.200	10	0
275	142	51	2.200	10	0
277	144	73	2.200	9	0
278	145	77	2.200	15	0
279	146	81	2.200	9	0
280	147	85	2.200	10	0
281	148	89	2.200	9	0
282	149	93	2.200	10	0
283	138	144	5.800	7	0
284	140	146	5.800	7	0
285	142	148	5.800	7	0
287	144	145	5.800	7	0
289	146	147	5.800	7	0
291	148	149	5.800	7	0
292	150	138	2.200	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
294	152	140	2.200	10	0
296	154	142	2.200	10	0
298	156	144	2.200	9	0
299	157	145	2.200	15	0
300	158	146	2.200	9	0
301	159	147	2.200	10	0
302	160	148	2.200	9	0
303	161	149	2.200	10	0
304	150	156	5.800	7	0
305	152	158	5.800	7	0
306	154	160	5.800	7	0
308	156	157	5.800	7	0
310	158	159	5.800	7	0
312	160	161	5.800	7	0
313	162	150	2.200	16	0
315	164	152	2.200	10	0
317	166	154	2.200	10	0
319	168	156	2.200	9	0
320	169	157	2.200	15	0
321	170	158	2.200	9	0
322	171	159	2.200	10	0
323	172	160	2.200	9	0
324	173	161	2.200	10	0
325	162	168	5.800	7	0
326	164	170	5.800	7	0
327	166	172	5.800	7	0
329	168	169	5.800	7	0
331	170	171	5.800	7	0
333	172	173	5.800	7	0
334	174	15	2.500	16	0
335	175	16	2.500	2	0
336	389	32	2.500	10	0
337	177	33	2.500	2	0
338	382	383	2.500	10	0
339	179	50	2.500	10	0
340	180	74	2.500	9	0
341	181	78	2.500	9	0
342	182	82	2.500	9	0
343	183	86	2.500	10	0
344	184	90	2.500	9	0
345	174	180	5.800	7	0
348	181	175	2.400	7	0
349	180	181	5.800	7	0
350	183	177	2.400	7	0
351	182	183	5.800	7	0
352	184	179	5.800	7	0
353	185	13	1.950	16	0
354	186	14	1.950	2	0
355	187	30	1.950	10	0
356	188	31	1.950	2	0
357	189	47	1.950	10	0
358	190	48	1.950	10	0
359	191	75	1.950	9	0
360	192	79	1.950	9	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
361	193	83	1.950	9	0
362	194	87	1.950	10	0
363	195	91	1.950	9	0
364	185	191	5.800	7	0
365	187	193	5.800	7	0
366	189	195	5.800	7	0
367	192	186	2.400	7	0
368	191	192	5.800	7	0
369	194	188	2.400	7	0
370	193	194	5.800	7	0
371	195	190	5.800	7	0
372	196	185	1.950	16	0
373	197	186	1.950	2	0
374	198	187	1.950	10	0
375	199	188	1.950	2	0
376	200	189	1.950	10	0
377	201	190	1.950	10	0
378	202	191	1.950	9	0
379	203	192	1.950	9	0
380	204	193	1.950	9	0
381	205	194	1.950	10	0
382	206	195	1.950	9	0
383	196	202	5.800	7	0
384	198	204	5.800	7	0
385	200	206	5.800	7	0
386	203	197	2.400	7	0
387	202	203	5.800	7	0
388	205	199	2.400	7	0
389	204	205	5.800	7	0
390	206	201	5.800	7	0
391	207	196	1.950	16	0
392	208	197	1.950	2	0
393	209	198	1.950	10	0
394	210	199	1.950	2	0
395	211	200	1.950	10	0
396	212	201	1.950	10	0
397	213	202	1.950	9	0
398	214	203	1.950	9	0
399	215	204	1.950	9	0
400	216	205	1.950	10	0
401	217	206	1.950	9	0
402	207	213	5.800	7	0
403	209	215	5.800	7	0
404	211	217	5.800	7	0
405	214	208	2.400	7	0
406	213	214	5.800	7	0
407	216	210	2.400	7	0
408	215	216	5.800	7	0
409	217	212	5.800	7	0
410	218	207	1.950	16	0
411	219	208	1.950	2	0
412	220	209	1.950	10	0
413	221	210	1.950	2	0
414	222	211	1.950	10	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
415	223	212	1.950	10	0
416	224	213	1.950	9	0
417	225	214	1.950	9	0
418	226	215	1.950	9	0
419	227	216	1.950	10	0
420	228	217	1.950	9	0
421	218	224	5.800	7	0
422	220	226	5.800	7	0
423	222	228	5.800	7	0
424	225	219	2.400	7	0
425	224	225	5.800	7	0
426	227	221	2.400	7	0
427	226	227	5.800	7	0
428	228	223	5.800	7	0
429	229	11	2.000	16	0
430	230	12	2.000	2	0
431	231	76	2.000	9	0
432	232	80	2.000	9	0
433	229	231	5.800	7	0
434	232	230	2.400	7	0
435	231	232	5.800	7	0
438	233	370	5.099	7	0
440	235	369	5.099	7	0
442	237	368	5.100	7	0
444	239	367	5.100	7	0
455	249	72	3.464	6	0
456	250	249	2.879	6	0
457	251	250	2.879	6	0
488	275	124	0.676	11	0
489	276	275	3.018	11	0
490	277	276	3.018	11	0
491	278	115	1.041	11	0
492	279	278	3.018	11	0
493	280	279	3.018	11	0
494	281	113	2.879	11	0
495	282	281	2.879	11	0
496	283	282	2.879	11	0
498	113	286	9.013	7	0
499	286	307	2.001	8	0
500	286	310	5.619	7	0
504	251	309	3.405	7	0
505	250	308	3.425	7	0
506	249	302	2.579	7	0
508	282	306	4.723	7	0
509	283	305	2.579	7	0
510	281	307	6.868	7	0
513	65	233	2.200	5	0
515	110	64	2.250	10	0
518	233	235	2.200	5	0
519	235	237	2.200	5	0
520	237	239	2.200	5	0
521	239	60	2.200	5	0
522	302	131	0.813	8	0
523	303	286	2.001	8	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
524	304	303	2.001	8	0
525	305	70	2.323	8	0
526	306	305	2.002	8	0
527	307	306	2.001	8	0
528	303	280	6.826	7	0
529	304	279	4.638	7	0
530	302	311	0.903	7	0
531	306	276	4.638	7	0
532	305	277	2.451	7	0
533	307	275	6.826	7	0
534	308	131	1.744	14	0
535	309	308	2.907	14	0
536	310	309	2.894	14	0
537	311	115	1.066	14	0
538	310	63	3.394	7	0
539	309	303	3.464	7	0
540	308	304	1.299	7	0
541	311	278	1.547	7	0
543	69	362	1.715	7	0
544	314	358	2.002	8	0
545	314	361	5.741	7	0
581	346	360	3.355	7	0
582	345	359	3.354	7	0
583	344	347	2.604	7	0
584	353	358	6.935	7	0
585	352	357	4.772	7	0
586	351	356	2.610	7	0
599	341	69	2.879	6	0
600	342	341	2.879	6	0
601	343	342	2.879	6	0
602	344	68	3.464	6	0
603	345	344	2.879	6	0
604	346	345	2.879	6	0
605	347	132	0.693	8	0
606	348	134	1.819	11	0
607	349	348	3.014	11	0
608	350	349	3.014	11	0
609	351	121	2.442	11	0
610	352	351	3.014	11	0
611	353	352	3.014	11	0
612	354	314	2.002	8	0
613	355	354	2.002	8	0
614	356	137	0.825	8	0
615	357	356	2.002	8	0
616	358	357	2.002	8	0
617	354	348	6.935	7	0
618	355	349	4.772	7	0
619	347	366	0.748	7	0
620	358	363	5.218	7	0
621	357	364	3.054	7	0
622	356	365	0.891	7	0
623	359	132	1.881	14	0
624	360	359	2.878	14	0
625	361	360	2.879	14	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
626	361	57	3.355	7	0
627	360	354	3.578	7	0
628	359	355	1.414	7	0
629	362	134	1.141	11	0
630	363	362	2.879	11	0
631	364	363	2.879	11	0
632	365	364	2.878	11	0
633	362	314	7.382	7	0
634	363	341	1.715	7	0
635	364	342	1.714	7	0
636	365	343	1.713	7	0
637	60	69	1.150	10	0
769	366	118	1.237	14	0
770	366	350	1.862	7	0
825	111	58	8.800	10	0
826	367	113	2.200	5	0
827	368	367	2.200	5	0
828	369	368	2.200	5	0
829	370	369	2.200	5	0
830	371	370	2.200	5	0
832	112	60	8.800	10	0
838	109	63	2.250	10	0
839	111	57	2.250	10	0
840	90	383	5.150	5	0
841	82	32	5.800	5	0
842	91	380	5.150	5	0
843	83	30	5.800	5	0
844	182	389	5.800	7	0
845	184	382	5.150	7	0
866	384	28	2.000	10	0
867	385	29	2.000	2	0
868	386	84	2.000	9	0
869	387	88	2.000	10	0
870	384	386	5.800	7	0
871	387	385	2.400	7	0
872	386	387	5.800	7	0

Section Properties

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{zz} (cm ⁴)	J (cm ⁴)	Material
2	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONC28
3	Rect 0.50x0.80	4E+3	2.13E+6	833E+3	2.04E+6	CONC28
4	Cir 0.50	1.96E+3	307E+3	307E+3	614E+3	CONC28
5	Rect 0.60x0.40	2.4E+3	320E+3	720E+3	751E+3	CONC28
6	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONC28
7	Rect 0.50x0.15	750.000	14.1E+3	156E+3	45.6E+3	CONC28
8	Rect 0.60x0.30	1.8E+3	135E+3	540E+3	371E+3	CONC28
9	Rect 0.60x0.50	3E+3	625E+3	900E+3	1.24E+6	CONC28
10	Rect 0.70x0.50	3.5E+3	729E+3	1.43E+6	1.63E+6	CONC28
11	Rect 0.70x0.30	2.1E+3	158E+3	857E+3	460E+3	CONCRETE
12	Rect 0.50x0.50	2.5E+3	521E+3	521E+3	879E+3	CONC28
13	Rect 1.00x0.60	6E+3	1.8E+6	5E+6	4.51E+6	CONC28
14	Rect 0.70x0.60	4.2E+3	1.26E+6	1.71E+6	2.44E+6	CONCRETE
15	Rect 0.60x0.85	5.1E+3	3.07E+6	1.53E+6	3.45E+6	CONCRETE
16	Rect 0.60x0.65	3.9E+3	1.37E+6	1.17E+6	2.12E+6	CONCRETE

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	12.000	12.000	12.000	12.000	DIAFRAGMA

Materials

Mat	Name	E (kN/mm ²)	ν	Density (kg/m ³)	α (/°C)
1	DIAFRAGMA	24.389	0.170	0.200	10E -6
2	CONC28	24.389	0.170	2.4E+3	10E -6
3	STEEL	205.000	0.300	7.83E+3	12E -6
4	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
5	ALUMINUM	68.948	0.330	2.71E+3	23E -6
6	CONCRETE	24.389	0.170	2.4E+3	10E -6

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN`m/deg)	rY (kN`m/deg)	rZ (kN`m/deg)
11	Fixed	Fixed	Fixed	-	-	-
13	Fixed	Fixed	Fixed	-	-	-
15	Fixed	Fixed	Fixed	-	-	-
17	Fixed	Fixed	Fixed	-	-	-
73	Fixed	Fixed	Fixed	-	-	-
74	Fixed	Fixed	Fixed	-	-	-
75	Fixed	Fixed	Fixed	-	-	-
76	Fixed	Fixed	Fixed	-	-	-
77	Fixed	Fixed	Fixed	-	-	-
78	Fixed	Fixed	Fixed	-	-	-
79	Fixed	Fixed	Fixed	-	-	-
80	Fixed	Fixed	Fixed	-	-	-

Releases

Beam ends not shown in this table are fixed in all directions.

Beam	Node	x	y	z	rx	ry	rz
283	138	Fixed	Fixed	Fixed	Pin	Pin	Pin
283	144	Fixed	Fixed	Fixed	Pin	Pin	Pin
284	140	Fixed	Fixed	Fixed	Pin	Pin	Pin
284	146	Fixed	Fixed	Fixed	Pin	Pin	Pin
285	142	Fixed	Fixed	Fixed	Pin	Pin	Pin
285	148	Fixed	Fixed	Fixed	Pin	Pin	Pin
287	144	Fixed	Fixed	Fixed	Pin	Pin	Pin
289	146	Fixed	Fixed	Fixed	Pin	Pin	Pin
291	148	Fixed	Fixed	Fixed	Pin	Pin	Pin
304	150	Fixed	Fixed	Fixed	Pin	Pin	Pin
304	156	Fixed	Fixed	Fixed	Pin	Pin	Pin
305	152	Fixed	Fixed	Fixed	Pin	Pin	Pin
305	158	Fixed	Fixed	Fixed	Pin	Pin	Pin
306	154	Fixed	Fixed	Fixed	Pin	Pin	Pin
306	160	Fixed	Fixed	Fixed	Pin	Pin	Pin
308	156	Fixed	Fixed	Fixed	Pin	Pin	Pin
310	158	Fixed	Fixed	Fixed	Pin	Pin	Pin
312	160	Fixed	Fixed	Fixed	Pin	Pin	Pin
325	162	Fixed	Fixed	Fixed	Pin	Pin	Pin
325	168	Fixed	Fixed	Fixed	Pin	Pin	Pin
326	164	Fixed	Fixed	Fixed	Pin	Pin	Pin
326	170	Fixed	Fixed	Fixed	Pin	Pin	Pin
327	166	Fixed	Fixed	Fixed	Pin	Pin	Pin
327	172	Fixed	Fixed	Fixed	Pin	Pin	Pin
329	168	Fixed	Fixed	Fixed	Pin	Pin	Pin
331	170	Fixed	Fixed	Fixed	Pin	Pin	Pin
333	172	Fixed	Fixed	Fixed	Pin	Pin	Pin
345	174	Fixed	Fixed	Fixed	Pin	Pin	Pin
345	180	Fixed	Fixed	Fixed	Pin	Pin	Pin
349	180	Fixed	Fixed	Fixed	Pin	Pin	Pin
351	182	Fixed	Fixed	Fixed	Pin	Pin	Pin
352	184	Fixed	Fixed	Fixed	Pin	Pin	Pin
352	179	Fixed	Fixed	Fixed	Pin	Pin	Pin
364	185	Fixed	Fixed	Fixed	Pin	Pin	Pin
364	191	Fixed	Fixed	Fixed	Pin	Pin	Pin
365	187	Fixed	Fixed	Fixed	Pin	Pin	Pin
365	193	Fixed	Fixed	Fixed	Pin	Pin	Pin
366	189	Fixed	Fixed	Fixed	Pin	Pin	Pin
366	195	Fixed	Fixed	Fixed	Pin	Pin	Pin
368	191	Fixed	Fixed	Fixed	Pin	Pin	Pin
370	193	Fixed	Fixed	Fixed	Pin	Pin	Pin
371	195	Fixed	Fixed	Fixed	Pin	Pin	Pin
371	190	Fixed	Fixed	Fixed	Pin	Pin	Pin
383	196	Fixed	Fixed	Fixed	Pin	Pin	Pin
383	202	Fixed	Fixed	Fixed	Pin	Pin	Pin
384	198	Fixed	Fixed	Fixed	Pin	Pin	Pin
384	204	Fixed	Fixed	Fixed	Pin	Pin	Pin
385	200	Fixed	Fixed	Fixed	Pin	Pin	Pin
385	206	Fixed	Fixed	Fixed	Pin	Pin	Pin
387	202	Fixed	Fixed	Fixed	Pin	Pin	Pin
389	204	Fixed	Fixed	Fixed	Pin	Pin	Pin
390	206	Fixed	Fixed	Fixed	Pin	Pin	Pin
390	201	Fixed	Fixed	Fixed	Pin	Pin	Pin

Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
402	207	Fixed	Fixed	Fixed	Pin	Pin	Pin
402	213	Fixed	Fixed	Fixed	Pin	Pin	Pin
403	209	Fixed	Fixed	Fixed	Pin	Pin	Pin
403	215	Fixed	Fixed	Fixed	Pin	Pin	Pin
404	211	Fixed	Fixed	Fixed	Pin	Pin	Pin
404	217	Fixed	Fixed	Fixed	Pin	Pin	Pin
406	213	Fixed	Fixed	Fixed	Pin	Pin	Pin
408	215	Fixed	Fixed	Fixed	Pin	Pin	Pin
409	217	Fixed	Fixed	Fixed	Pin	Pin	Pin
409	212	Fixed	Fixed	Fixed	Pin	Pin	Pin
421	218	Fixed	Fixed	Fixed	Pin	Pin	Pin
421	224	Fixed	Fixed	Fixed	Pin	Pin	Pin
422	220	Fixed	Fixed	Fixed	Pin	Pin	Pin
422	226	Fixed	Fixed	Fixed	Pin	Pin	Pin
423	222	Fixed	Fixed	Fixed	Pin	Pin	Pin
423	228	Fixed	Fixed	Fixed	Pin	Pin	Pin
425	224	Fixed	Fixed	Fixed	Pin	Pin	Pin
427	226	Fixed	Fixed	Fixed	Pin	Pin	Pin
428	228	Fixed	Fixed	Fixed	Pin	Pin	Pin
428	223	Fixed	Fixed	Fixed	Pin	Pin	Pin
433	229	Fixed	Fixed	Fixed	Pin	Pin	Pin
433	231	Fixed	Fixed	Fixed	Pin	Pin	Pin
435	231	Fixed	Fixed	Fixed	Pin	Pin	Pin
438	233	Fixed	Fixed	Fixed	Pin	Pin	Pin
440	235	Fixed	Fixed	Fixed	Pin	Pin	Pin
442	237	Fixed	Fixed	Fixed	Pin	Pin	Pin
444	239	Fixed	Fixed	Fixed	Pin	Pin	Pin
844	182	Fixed	Fixed	Fixed	Pin	Pin	Pin
844	389	Fixed	Fixed	Fixed	Pin	Pin	Pin
845	184	Fixed	Fixed	Fixed	Pin	Pin	Pin
845	382	Fixed	Fixed	Fixed	Pin	Pin	Pin
870	384	Fixed	Fixed	Fixed	Pin	Pin	Pin
870	386	Fixed	Fixed	Fixed	Pin	Pin	Pin
872	386	Fixed	Fixed	Fixed	Pin	Pin	Pin

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
5	DERX1	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.80
6	DERX2	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.80
7	DERZ1	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	0.80
8	DERZ2	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	-0.80
9	DERX3	1	DEAD	0.90
		3	EQX	0.80

Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
10	DERX4	1	DEAD	0.90
		3	EQX	-0.80
11	DERZ3	1	DEAD	0.90
		4	EQZ	0.80
12	DERZ4	1	DEAD	0.90
		4	EQZ	-0.80
13	COM1	1	DEAD	1.40
14	COM2	1	DEAD	1.20
		2	LIVE	1.60
15	COM3	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.20
		4	EQZ	0.06
16	COM4	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.20
		4	EQZ	-0.06
17	COM5	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.20
		4	EQZ	-0.06
18	COM6	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.20
		4	EQZ	0.06
19	COM7	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.06
		4	EQZ	0.20
20	COM8	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.06
		4	EQZ	-0.20
21	COM9	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.06
		4	EQZ	-0.20
22	COM10	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.06
		4	EQZ	0.20
23	COM11	1	DEAD	0.90
		3	EQX	0.20
		4	EQZ	0.06
24	COM12	1	DEAD	0.90
		3	EQX	0.20
		4	EQZ	-0.06
25	COM13	1	DEAD	0.90
		3	EQX	-0.20
		4	EQZ	-0.06
26	COM14	1	DEAD	0.90
		3	EQX	-0.20
		4	EQZ	0.06
27	COM15	1	DEAD	0.90

Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		3	EQX	0.06
		4	EQZ	0.20
28	COM16	1	DEAD	0.90
		3	EQX	0.06
		4	EQZ	-0.20
29	COM17	1	DEAD	0.90
		3	EQX	-0.06
		4	EQZ	-0.20
30	COM18	1	DEAD	0.90
		3	EQX	-0.06
		4	EQZ	0.20
31	CIM	1	DEAD	1.00
		2	LIVE	1.00
32	CIMX1	1	DEAD	0.90
		3	EQX	0.14
		4	EQZ	0.04
33	CIMX2	1	DEAD	0.90
		3	EQX	-0.14
		4	EQZ	0.04
34	CIMX3	1	DEAD	0.90
		3	EQX	0.14
		4	EQZ	-0.04
35	CIMX4	1	DEAD	0.90
		3	EQX	-0.14
		4	EQZ	-0.04
36	CIMX5	1	DEAD	0.90
		3	EQX	0.04
		4	EQZ	0.14
37	CIMX6	1	DEAD	0.90
		3	EQX	-0.04
		4	EQZ	0.14
38	CIMX7	1	DEAD	0.90
		3	EQX	0.04
		4	EQZ	-0.14
39	CIMX8	1	DEAD	0.90
		3	EQX	-0.05
		4	EQZ	-0.14
40	CIMX9	3	EQX	0.14
		4	EQZ	0.04
		1	DEAD	1.00
		2	LIVE	1.00
41	CIMX10	3	EQX	0.14
		4	EQZ	-0.04
		1	DEAD	1.00
		2	LIVE	1.00
42	CIMX11	3	EQX	-0.14
		4	EQZ	0.04
		1	DEAD	1.00
		2	LIVE	1.00
43	CIMX12	3	EQX	-0.14
		4	EQZ	-0.04
		1	DEAD	1.00
		2	LIVE	1.00
44	CIMX13	3	EQX	0.04

Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		4	EQZ	0.14
		1	DEAD	1.00
		2	LIVE	1.00
45	CIMX14	3	EQX	0.04
		4	EQZ	-0.14
		1	DEAD	1.00
		2	LIVE	1.00
46	CIMX15	3	EQX	-0.04
		4	EQZ	0.14
		1	DEAD	1.00
		2	LIVE	1.00
47	CIMX16	3	EQX	-0.04
		4	EQZ	-0.14
		1	DEAD	1.00
		2	LIVE	1.00

Load Generators

There is no data of this type.

ESPECTRO DE DISEÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: **181_JARDIN CAMPO VERDE**

Ciudad: **Bogotá**

CALCULÓ: **JDH**

Sistema Estructural: **Porticos en concreto**

Zona Microzonificación: **ALUVIAL 200**

PARÁMETROS SÍSMICOS

$A_a = 0.15$

$F_a = 1.05$

$A_v = 0.20$

$F_v = 2.10$

$A_0 = 0.16$

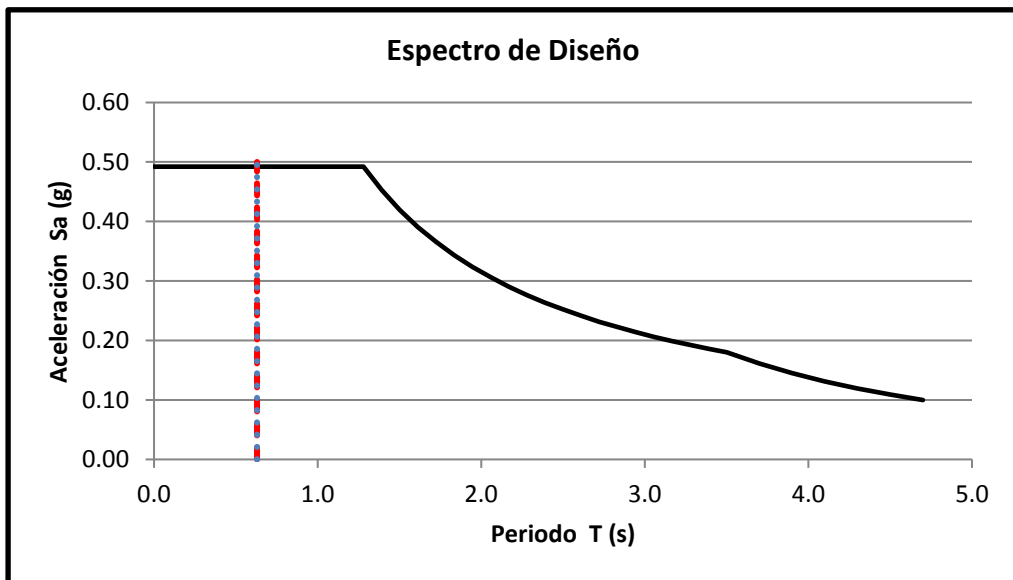
Grupo de Uso **III**

$T_c (s) = 1.28$

$I = 1.25$

$T_L (s) = 3.50$

$R_0 = 5.0$



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: **Pórticos de concreto**

$h (m) = 14.0$

$T_a = 0.505$ s

$C_t = 0.047$

$C_u = 1.246$

$a = 0.9$

$C_u * T_a = 0.630$ s

PARA ANÁLISIS DINÁMICO

Periodo calculado, $T_x = 0.726$ s

$T_z = 0.726$ s

Chequeo A.5.4.5 $T < C_u * T_a$: Usar $C_u * T_a$

Usar $C_u * T_a$

$T_x(s) = 0.630$ s

$T_x(s) = 0.630$ s

$S_{ax} = 0.492$

$S_{ax} = 0.492$

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
5	5:DERX1	0.004	-12.813	0.001	12.813	-0.004	0.000	0.001
	6:DERX2	-0.003	-15.465	-0.001	15.465	-0.005	-0.000	-0.003
	7:DERZ1	0.003	9.700	0.001	9.700	0.001	0.000	-0.001
	8:DERZ2	-0.003	-37.978	-0.001	37.978	-0.010	-0.000	-0.002
	9:DERX3	0.004	-7.289	0.001	7.289	-0.002	0.000	0.002
	10:DERX4	-0.003	-9.941	-0.001	9.941	-0.003	-0.000	-0.003
	11:DERZ3	0.003	15.224	0.001	15.224	0.003	0.000	-0.000
	12:DERZ4	-0.003	-32.454	-0.001	32.454	-0.009	-0.000	-0.001
6	5:DERX1	0.003	2.465	0.000	2.465	0.001	0.000	0.002
	6:DERX2	-0.003	-1.085	-0.000	1.085	-0.001	-0.000	-0.003
	7:DERZ1	0.002	13.378	0.000	13.378	0.006	0.000	-0.000
	8:DERZ2	-0.003	-11.998	-0.000	11.998	-0.006	-0.000	-0.001
	9:DERX3	0.003	2.128	0.000	2.128	0.001	0.000	0.002
	10:DERX4	-0.003	-1.423	-0.000	1.423	-0.001	-0.000	-0.003
	11:DERZ3	0.003	13.041	0.000	13.041	0.006	0.000	0.000
	12:DERZ4	-0.003	-12.336	-0.000	12.336	-0.006	-0.000	-0.001
7	5:DERX1	0.003	-13.957	0.000	13.957	-0.005	0.000	0.001
	6:DERX2	-0.002	-15.733	-0.000	15.733	-0.006	-0.000	-0.001
	7:DERZ1	0.002	2.310	0.000	2.310	-0.000	0.000	0.000
	8:DERZ2	-0.002	-32.000	-0.000	32.000	-0.011	-0.000	-0.000
	9:DERX3	0.003	-7.800	0.000	7.800	-0.003	0.000	0.001
	10:DERX4	-0.002	-9.576	-0.000	9.576	-0.003	-0.000	-0.001
	11:DERZ3	0.002	8.467	0.000	8.467	0.002	0.000	0.000
	12:DERZ4	-0.002	-25.842	-0.000	25.842	-0.008	-0.000	-0.000
8	5:DERX1	0.001	-0.354	0.000	0.354	0.001	0.000	0.000
	6:DERX2	-0.002	-1.253	-0.000	1.253	0.001	-0.000	-0.000
	7:DERZ1	0.001	12.035	0.000	12.035	0.006	0.000	0.000
	8:DERZ2	-0.002	-13.642	-0.000	13.642	-0.005	-0.000	-0.000
	9:DERX3	0.001	-0.083	0.000	0.083	0.001	0.000	0.000
	10:DERX4	-0.002	-0.982	-0.000	0.982	0.000	-0.000	-0.000
	11:DERZ3	0.001	12.306	0.000	12.306	0.006	0.000	0.000
	12:DERZ4	-0.001	-13.371	-0.000	13.371	-0.005	-0.000	-0.000
9	5:DERX1	0.004	-7.877	0.001	7.877	-0.003	0.000	0.003
	6:DERX2	-0.004	-11.265	-0.001	11.265	-0.005	-0.000	-0.002
	7:DERZ1	0.004	6.457	0.001	6.457	0.001	0.000	0.001
	8:DERZ2	-0.003	-25.598	-0.001	25.598	-0.009	-0.000	0.000
	9:DERX3	0.004	-3.654	0.001	3.654	-0.002	0.000	0.003
	10:DERX4	-0.004	-7.042	-0.001	7.042	-0.003	-0.000	-0.002
	11:DERZ3	0.004	10.679	0.001	10.679	0.003	0.000	0.001
	12:DERZ4	-0.003	-21.376	-0.001	21.376	-0.007	-0.000	0.000
10	5:DERX1	0.003	2.438	0.000	2.438	0.000	0.000	0.003
	6:DERX2	-0.003	-0.323	-0.000	0.323	-0.001	-0.000	-0.001
	7:DERZ1	0.003	12.626	0.000	12.626	0.005	0.000	0.001
	8:DERZ2	-0.003	-10.511	-0.000	10.511	-0.005	-0.000	0.000
	9:DERX3	0.003	1.877	0.000	1.877	0.001	0.000	0.003
	10:DERX4	-0.003	-0.884	-0.000	0.884	-0.001	-0.000	-0.002
	11:DERZ3	0.003	12.065	0.000	12.065	0.005	0.000	0.001
	12:DERZ4	-0.003	-11.072	-0.000	11.072	-0.005	-0.000	-0.000
11	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.006
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.006
	7:DERZ1	0.000	0.000	0.000	0.000	0.006	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.007	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.006
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.006

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	0.000	0.000	0.000	0.000	0.006	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.007	-0.000	-0.001
12	5:DERX1	0.000	8.555	0.003	8.555	0.000	0.000	0.003
	6:DERX2	-0.000	-14.554	-0.002	14.554	-0.001	-0.000	-0.006
	7:DERZ1	0.000	-0.680	0.002	0.680	0.004	0.000	-0.001
	8:DERZ2	-0.000	-5.319	-0.002	5.319	-0.004	-0.000	-0.003
	9:DERX3	0.000	9.888	0.002	9.888	0.000	0.000	0.004
	10:DERX4	-0.000	-13.220	-0.002	13.220	-0.001	-0.000	-0.005
	11:DERZ3	0.000	0.654	0.002	0.654	0.004	0.000	0.000
	12:DERZ4	-0.000	-3.986	-0.002	3.986	-0.004	-0.000	-0.002
13	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.005
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.006
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.005
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.006
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
14	5:DERX1	0.000	7.068	0.001	7.068	-0.001	0.000	0.003
	6:DERX2	-0.000	-11.260	-0.001	11.260	-0.001	-0.000	-0.005
	7:DERZ1	0.000	-1.780	0.001	1.780	-0.000	0.000	-0.001
	8:DERZ2	-0.000	-2.411	-0.001	2.411	-0.002	-0.000	-0.001
	9:DERX3	0.000	7.935	0.001	7.935	-0.000	0.000	0.003
	10:DERX4	-0.000	-10.393	-0.001	10.393	-0.001	-0.000	-0.004
	11:DERZ3	0.000	-0.914	0.001	0.914	0.000	0.000	-0.001
	12:DERZ4	-0.000	-1.545	-0.001	1.545	-0.001	-0.000	-0.001
15	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.005
	6:DERX2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.005
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.005
	10:DERX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.005
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.001
16	5:DERX1	0.000	7.688	0.001	7.688	0.000	0.000	0.003
	6:DERX2	-0.000	-7.913	-0.001	7.913	-0.000	-0.000	-0.003
	7:DERZ1	0.000	0.983	0.001	0.983	0.000	0.000	0.000
	8:DERZ2	-0.000	-1.208	-0.000	1.208	0.000	-0.000	-0.001
	9:DERX3	0.000	7.552	0.001	7.552	0.000	0.000	0.003
	10:DERX4	-0.000	-8.049	-0.001	8.049	-0.000	-0.000	-0.003
	11:DERZ3	0.000	0.847	0.001	0.847	0.000	0.000	0.000
	12:DERZ4	-0.000	-1.344	-0.001	1.344	-0.000	-0.000	-0.001
17	5:DERX1	0.000	0.000	0.000	0.000	-0.000	0.000	0.003
	6:DERX2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.004
	7:DERZ1	0.000	0.000	0.000	0.000	0.005	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.007	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.004
	11:DERZ3	0.000	0.000	0.000	0.000	0.005	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.006	-0.000	-0.001
19	5:DERX1	0.004	0.865	0.004	0.865	-0.002	0.000	0.004
	6:DERX2	-0.004	-15.963	-0.003	15.963	-0.004	-0.000	-0.003
	7:DERZ1	0.004	7.079	0.004	7.079	0.003	0.000	0.001
	8:DERZ2	-0.003	-22.177	-0.003	22.177	-0.008	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	0.004	4.183	0.004	4.183	-0.000	0.000	0.003
	10:DERX4	-0.004	-12.645	-0.003	12.645	-0.002	-0.000	-0.003
	11:DERZ3	0.004	10.397	0.004	10.397	0.004	0.000	0.001
	12:DERZ4	-0.003	-18.859	-0.003	18.859	-0.007	-0.000	-0.000
22	5:DERX1	28.973	-6.154	0.873	29.632	-0.002	0.000	0.001
	6:DERX2	-27.138	-9.319	-4.623	29.063	-0.003	-0.000	-0.004
	7:DERZ1	6.424	18.394	23.395	30.445	0.004	0.000	-0.001
	8:DERZ2	-4.589	-33.866	-27.145	43.644	-0.009	-0.000	-0.002
	9:DERX3	28.712	-3.288	1.652	28.947	-0.001	0.000	0.002
	10:DERX4	-27.399	-6.453	-3.844	28.410	-0.002	-0.000	-0.003
	11:DERZ3	6.163	21.260	24.174	32.777	0.005	0.000	-0.000
	12:DERZ4	-4.850	-31.000	-26.366	40.984	-0.008	-0.000	-0.001
23	5:DERX1	17.993	1.691	0.887	18.094	0.001	0.000	0.001
	6:DERX2	-17.884	-2.497	-4.602	18.634	-0.001	-0.000	-0.002
	7:DERZ1	5.959	13.925	23.362	27.842	0.006	0.000	-0.000
	8:DERZ2	-5.850	-14.730	-27.077	31.374	-0.006	-0.000	-0.001
	9:DERX3	18.012	1.801	1.655	18.177	0.001	0.000	0.001
	10:DERX4	-17.865	-2.387	-3.834	18.427	-0.001	-0.000	-0.002
	11:DERZ3	5.978	14.035	24.130	28.547	0.006	0.000	-0.000
	12:DERZ4	-5.831	-14.620	-26.309	30.658	-0.006	-0.000	-0.001
24	5:DERX1	28.770	-10.835	-0.845	30.754	-0.004	0.000	0.001
	6:DERX2	-26.958	-12.225	-2.593	29.713	-0.004	-0.000	-0.001
	7:DERZ1	6.218	7.942	22.771	24.905	0.002	0.000	0.000
	8:DERZ2	-4.406	-31.002	-26.208	40.834	-0.010	-0.000	-0.000
	9:DERX3	28.512	-6.433	-0.116	29.229	-0.002	0.000	0.001
	10:DERX4	-27.216	-7.823	-1.864	28.379	-0.003	-0.000	-0.001
	11:DERZ3	5.960	12.344	23.499	27.205	0.003	0.000	0.000
	12:DERZ4	-4.664	-26.600	-25.479	37.128	-0.008	-0.000	-0.000
25	5:DERX1	17.996	-1.290	-0.809	18.061	0.001	0.000	0.000
	6:DERX2	-17.886	-2.321	-2.558	18.217	0.001	-0.000	-0.000
	7:DERZ1	5.963	12.507	22.743	26.632	0.007	0.000	0.000
	8:DERZ2	-5.853	-16.118	-26.111	31.238	-0.005	-0.000	-0.000
	9:DERX3	18.015	-0.661	-0.096	18.028	0.001	0.000	0.000
	10:DERX4	-17.867	-1.692	-1.845	18.042	0.000	-0.000	-0.000
	11:DERZ3	5.982	13.136	23.457	27.542	0.007	0.000	0.000
	12:DERZ4	-5.834	-15.489	-25.397	30.315	-0.006	-0.000	-0.000
26	5:DERX1	28.576	-4.914	0.745	29.005	-0.002	0.000	0.004
	6:DERX2	-26.795	-7.112	-3.838	27.987	-0.003	-0.000	-0.003
	7:DERZ1	6.012	11.647	22.328	25.891	0.003	0.000	0.001
	8:DERZ2	-4.231	-23.672	-25.421	34.993	-0.008	-0.000	0.000
	9:DERX3	28.323	-2.651	1.416	28.482	-0.001	0.000	0.004
	10:DERX4	-27.048	-4.849	-3.167	27.661	-0.002	-0.000	-0.003
	11:DERZ3	5.759	13.910	22.998	27.488	0.004	0.000	0.001
	12:DERZ4	-4.485	-21.409	-24.750	33.031	-0.007	-0.000	-0.000
27	5:DERX1	18.000	1.045	0.721	18.044	0.001	0.000	0.002
	6:DERX2	-17.888	-2.468	-3.814	18.456	-0.001	-0.000	-0.001
	7:DERZ1	5.970	13.117	22.199	26.467	0.006	0.000	0.001
	8:DERZ2	-5.857	-14.540	-25.293	29.756	-0.006	-0.000	0.000
	9:DERX3	18.018	1.273	1.394	18.117	0.001	0.000	0.002
	10:DERX4	-17.869	-2.239	-3.141	18.281	-0.001	-0.000	-0.001
	11:DERZ3	5.988	13.345	22.873	27.150	0.006	0.000	0.001
	12:DERZ4	-5.839	-14.311	-24.619	29.069	-0.006	-0.000	0.000
28	5:DERX1	27.391	-0.213	0.869	27.406	0.000	0.000	0.006
	6:DERX2	-25.751	-0.649	-4.619	26.170	-0.001	-0.000	-0.006

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	4.836	-0.283	23.389	23.885	0.006	0.000	0.001
	8:DERZ2	-3.196	-0.580	-27.139	27.332	-0.007	-0.000	-0.001
	9:DERX3	27.161	-0.051	1.648	27.211	0.000	0.000	0.006
	10:DERX4	-25.982	-0.486	-3.840	26.268	-0.001	-0.000	-0.006
	11:DERZ3	4.606	-0.120	24.168	24.603	0.006	0.000	0.001
	12:DERZ4	-3.427	-0.417	-26.360	26.585	-0.007	-0.000	-0.001
29	5:DERX1	27.392	10.717	1.769	29.467	0.000	0.000	0.004
	6:DERX2	-25.794	-15.725	-4.712	30.575	-0.001	-0.000	-0.006
	7:DERZ1	4.821	-0.188	22.195	22.713	0.005	0.000	-0.000
	8:DERZ2	-3.223	-4.819	-25.137	25.797	-0.005	-0.000	-0.002
	9:DERX3	27.170	11.411	2.415	29.568	0.000	0.000	0.005
	10:DERX4	-26.017	-15.031	-4.066	30.320	-0.001	-0.000	-0.006
	11:DERZ3	4.598	0.506	22.841	23.304	0.005	0.000	0.000
	12:DERZ4	-3.445	-4.125	-24.491	25.074	-0.005	-0.000	-0.002
30	5:DERX1	23.516	-0.259	0.894	23.534	0.000	0.000	0.006
	6:DERX2	-22.508	-0.829	-4.610	22.991	-0.001	-0.000	-0.006
	7:DERZ1	1.331	-0.517	23.321	23.365	0.003	0.000	0.000
	8:DERZ2	-0.323	-0.571	-27.037	27.045	-0.004	-0.000	-0.000
	9:DERX3	23.391	-0.053	1.664	23.450	0.000	0.000	0.006
	10:DERX4	-22.633	-0.622	-3.840	22.965	-0.001	-0.000	-0.006
	11:DERZ3	1.206	-0.311	24.091	24.123	0.003	0.000	0.000
	12:DERZ4	-0.448	-0.365	-26.267	26.273	-0.004	-0.000	-0.000
31	5:DERX1	23.549	8.146	1.776	24.981	-0.001	0.000	0.003
	6:DERX2	-22.554	-14.610	-4.707	27.281	-0.001	-0.000	-0.006
	7:DERZ1	1.328	-2.853	22.154	22.376	0.000	0.000	-0.001
	8:DERZ2	-0.332	-3.612	-25.085	25.346	-0.002	-0.000	-0.002
	9:DERX3	23.427	9.063	2.421	25.235	-0.000	0.000	0.004
	10:DERX4	-22.676	-13.693	-4.062	26.799	-0.001	-0.000	-0.005
	11:DERZ3	1.206	-1.935	22.799	22.913	0.001	0.000	-0.001
	12:DERZ4	-0.454	-2.695	-24.440	24.592	-0.001	-0.000	-0.001
32	5:DERX1	21.632	-0.266	0.899	21.652	0.000	0.000	0.005
	6:DERX2	-20.919	-0.804	-4.582	21.430	-0.000	-0.000	-0.005
	7:DERZ1	2.175	-0.480	23.331	23.437	0.003	0.000	0.000
	8:DERZ2	-1.462	-0.589	-27.015	27.061	-0.003	-0.000	-0.001
	9:DERX3	21.555	-0.066	1.662	21.619	0.000	0.000	0.005
	10:DERX4	-20.996	-0.604	-3.819	21.349	-0.000	-0.000	-0.005
	11:DERZ3	2.098	-0.281	24.095	24.188	0.003	0.000	0.000
	12:DERZ4	-1.539	-0.390	-26.251	26.299	-0.003	-0.000	-0.001
33	5:DERX1	21.648	8.037	1.769	23.159	0.000	0.000	0.003
	6:DERX2	-20.946	-11.962	-4.699	24.574	-0.000	-0.000	-0.005
	7:DERZ1	2.176	-0.472	22.143	22.255	0.000	0.000	-0.000
	8:DERZ2	-1.473	-3.453	-25.073	25.353	-0.000	-0.000	-0.001
	9:DERX3	21.574	8.635	2.414	23.363	0.000	0.000	0.004
	10:DERX4	-21.019	-11.364	-4.053	24.236	-0.000	-0.000	-0.004
	11:DERZ3	2.102	0.126	22.789	22.886	0.000	0.000	0.000
	12:DERZ4	-1.547	-2.855	-24.428	24.643	-0.000	-0.000	-0.001
34	5:DERX1	18.721	-0.223	0.888	18.743	0.000	0.000	0.003
	6:DERX2	-18.462	-0.811	-4.602	19.045	-0.001	-0.000	-0.003
	7:DERZ1	5.190	-0.276	23.358	23.930	0.006	0.000	0.001
	8:DERZ2	-4.931	-0.759	-27.073	27.529	-0.007	-0.000	-0.001
	9:DERX3	18.716	-0.030	1.656	18.789	0.001	0.000	0.003
	10:DERX4	-18.468	-0.618	-3.835	18.872	-0.001	-0.000	-0.003
	11:DERZ3	5.185	-0.082	24.126	24.677	0.006	0.000	0.001
	12:DERZ4	-4.937	-0.566	-26.305	26.770	-0.006	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
36	5:DERX1	28.492	5.233	1.768	29.022	0.000	0.000	0.004
	6:DERX2	-26.725	-14.890	-4.712	30.954	-0.003	-0.000	-0.004
	7:DERZ1	5.926	11.061	22.199	25.500	0.004	0.000	0.001
	8:DERZ2	-4.159	-20.718	-25.143	32.844	-0.007	-0.000	-0.000
	9:DERX3	28.241	6.830	2.415	29.156	0.001	0.000	0.004
	10:DERX4	-26.975	-13.293	-4.066	30.347	-0.002	-0.000	-0.004
	11:DERZ3	5.676	12.658	22.845	26.727	0.005	0.000	0.001
	12:DERZ4	-4.410	-19.121	-24.497	31.387	-0.006	-0.000	-0.001
38	5:DERX1	18.140	0.810	0.721	18.172	0.001	0.000	0.003
	6:DERX2	-18.009	-2.063	-3.814	18.524	-0.001	-0.000	-0.002
	7:DERZ1	5.810	10.484	22.198	25.228	0.006	0.000	0.001
	8:DERZ2	-5.679	-11.738	-25.292	28.455	-0.006	-0.000	0.000
	9:DERX3	18.156	1.016	1.394	18.238	0.001	0.000	0.002
	10:DERX4	-17.993	-1.858	-3.141	18.359	-0.001	-0.000	-0.002
	11:DERZ3	5.826	10.690	22.872	25.910	0.006	0.000	0.001
	12:DERZ4	-5.663	-11.532	-24.618	27.769	-0.006	-0.000	-0.000
39	5:DERX1	53.895	-0.491	2.457	53.954	0.000	0.001	0.003
	6:DERX2	-51.568	-2.367	-7.838	52.214	-0.001	-0.001	-0.004
	7:DERZ1	10.697	11.567	46.705	49.291	0.005	0.001	0.000
	8:DERZ2	-8.369	-14.425	-52.086	54.690	-0.006	-0.001	-0.001
	9:DERX3	53.623	0.011	3.558	53.741	0.000	0.001	0.003
	10:DERX4	-51.841	-1.865	-6.737	52.310	-0.001	-0.001	-0.003
	11:DERZ3	10.424	12.069	47.806	50.395	0.005	0.001	0.000
	12:DERZ4	-8.642	-13.923	-50.985	53.553	-0.006	-0.001	-0.001
40	5:DERX1	34.272	0.850	2.708	34.389	0.001	0.001	0.002
	6:DERX2	-34.264	-2.945	-8.610	35.451	-0.001	-0.001	-0.002
	7:DERZ1	11.661	11.424	46.413	49.200	0.006	0.001	0.000
	8:DERZ2	-11.653	-13.519	-52.314	55.275	-0.005	-0.001	-0.001
	9:DERX3	34.349	1.213	3.916	34.593	0.001	0.001	0.002
	10:DERX4	-34.186	-2.582	-7.402	35.074	-0.001	-0.001	-0.002
	11:DERZ3	11.738	11.787	47.621	50.442	0.005	0.001	0.000
	12:DERZ4	-11.576	-13.156	-51.107	54.027	-0.005	-0.001	-0.001
41	5:DERX1	53.892	-0.341	-0.830	53.900	0.000	0.001	0.001
	6:DERX2	-51.516	-1.257	-4.237	51.705	-0.000	-0.001	-0.001
	7:DERZ1	10.707	8.822	45.011	47.100	0.004	0.001	0.000
	8:DERZ2	-8.331	-10.420	-50.077	51.824	-0.004	-0.001	-0.000
	9:DERX3	53.611	-0.435	0.230	53.613	-0.000	0.001	0.001
	10:DERX4	-51.797	-1.352	-3.177	51.912	-0.000	-0.001	-0.001
	11:DERZ3	10.426	8.728	46.071	48.035	0.004	0.001	0.000
	12:DERZ4	-8.612	-10.514	-49.017	50.867	-0.005	-0.001	-0.000
42	5:DERX1	34.281	-1.615	-0.893	34.331	0.001	0.001	0.000
	6:DERX2	-34.239	-2.489	-4.348	34.604	0.001	-0.001	-0.000
	7:DERZ1	11.658	10.135	44.880	47.464	0.006	0.001	0.000
	8:DERZ2	-11.616	-14.238	-50.121	53.383	-0.004	-0.001	-0.000
	9:DERX3	34.353	-0.801	0.208	34.363	0.001	0.001	0.000
	10:DERX4	-34.167	-1.675	-3.246	34.362	0.000	-0.001	-0.000
	11:DERZ3	11.729	10.948	45.981	48.700	0.006	0.001	0.000
	12:DERZ4	-11.544	-13.425	-49.019	52.119	-0.005	-0.001	-0.000
43	5:DERX1	53.893	-0.931	1.853	53.933	-0.000	0.001	0.003
	6:DERX2	-51.471	-2.312	-6.618	51.947	-0.001	-0.001	-0.003
	7:DERZ1	10.725	10.307	43.655	46.119	0.005	0.001	0.001
	8:DERZ2	-8.303	-13.549	-48.420	50.961	-0.006	-0.001	-0.000
	9:DERX3	53.604	-0.363	2.877	53.682	0.000	0.001	0.003
	10:DERX4	-51.760	-1.744	-5.594	52.091	-0.001	-0.001	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	10.436	10.875	44.679	47.152	0.005	0.001	0.001
	12:DERZ4	-8.592	-12.982	-47.396	49.887	-0.005	-0.001	-0.000
44	5:DERX1	34.287	0.380	2.255	34.363	0.001	0.001	0.002
	6:DERX2	-34.215	-2.567	-6.819	34.982	-0.000	-0.001	-0.001
	7:DERZ1	11.659	10.814	43.805	46.602	0.005	0.001	0.001
	8:DERZ2	-11.587	-13.000	-48.369	51.409	-0.005	-0.001	0.000
	9:DERX3	34.354	0.727	3.242	34.514	0.001	0.001	0.002
	10:DERX4	-34.148	-2.220	-5.832	34.713	-0.000	-0.001	-0.001
	11:DERZ3	11.726	11.160	44.793	47.628	0.005	0.001	0.001
	12:DERZ4	-11.520	-12.654	-47.382	50.377	-0.005	-0.001	-0.000
45	5:DERX1	52.326	-0.416	2.463	52.386	0.001	0.001	0.006
	6:DERX2	-50.184	-1.075	-7.838	50.804	-0.001	-0.001	-0.005
	7:DERZ1	8.929	-0.495	46.705	47.554	0.006	0.001	0.001
	8:DERZ2	-6.786	-0.996	-52.080	52.530	-0.006	-0.001	-0.001
	9:DERX3	52.081	-0.132	3.563	52.203	0.001	0.001	0.006
	10:DERX4	-50.430	-0.792	-6.738	50.884	-0.001	-0.001	-0.005
	11:DERZ3	8.683	-0.211	47.805	48.587	0.006	0.001	0.001
	12:DERZ4	-7.032	-0.713	-50.980	51.468	-0.006	-0.001	-0.001
46	5:DERX1	52.335	-0.580	1.850	52.371	0.000	0.001	0.005
	6:DERX2	-49.989	-1.210	-6.610	50.438	-0.000	-0.001	-0.005
	7:DERZ1	9.014	-0.501	43.653	44.577	0.005	0.001	0.001
	8:DERZ2	-6.668	-1.290	-48.414	48.888	-0.005	-0.001	-0.001
	9:DERX3	52.053	-0.252	2.873	52.133	0.000	0.001	0.005
	10:DERX4	-50.270	-0.882	-5.587	50.588	-0.000	-0.001	-0.005
	11:DERZ3	8.732	-0.173	44.677	45.522	0.005	0.001	0.001
	12:DERZ4	-6.950	-0.961	-47.391	47.907	-0.005	-0.001	-0.001
47	5:DERX1	46.298	-0.469	2.458	46.366	-0.000	0.001	0.006
	6:DERX2	-44.393	-1.440	-7.908	45.115	-0.001	-0.001	-0.006
	7:DERZ1	2.533	-0.862	46.645	46.721	0.004	0.001	-0.000
	8:DERZ2	-0.627	-1.047	-52.095	52.109	-0.005	-0.001	-0.000
	9:DERX3	46.066	-0.104	3.575	46.204	0.000	0.001	0.006
	10:DERX4	-44.625	-1.075	-6.792	45.152	-0.001	-0.001	-0.006
	11:DERZ3	2.300	-0.498	47.761	47.819	0.004	0.001	0.000
	12:DERZ4	-0.860	-0.682	-50.978	50.990	-0.005	-0.001	-0.000
48	5:DERX1	46.235	-0.620	1.981	46.282	0.000	0.001	0.005
	6:DERX2	-44.211	-1.549	-6.678	44.739	-0.001	-0.001	-0.006
	7:DERZ1	2.592	-1.033	43.633	43.722	0.004	0.001	-0.000
	8:DERZ2	-0.567	-1.137	-48.329	48.346	-0.004	-0.001	-0.001
	9:DERX3	45.982	-0.210	2.992	46.080	0.000	0.001	0.005
	10:DERX4	-44.464	-1.138	-5.667	44.838	-0.000	-0.001	-0.006
	11:DERZ3	2.339	-0.622	44.643	44.709	0.004	0.001	-0.000
	12:DERZ4	-0.820	-0.726	-47.319	47.331	-0.004	-0.001	-0.000
49	5:DERX1	42.668	-0.520	2.697	42.757	0.001	0.001	0.006
	6:DERX2	-41.185	-1.403	-8.529	42.082	-0.000	-0.001	-0.006
	7:DERZ1	4.488	-0.777	46.399	46.622	0.005	0.001	0.000
	8:DERZ2	-3.005	-1.146	-52.231	52.330	-0.004	-0.001	-0.001
	9:DERX3	42.500	-0.159	3.890	42.678	0.001	0.001	0.006
	10:DERX4	-41.354	-1.043	-7.337	42.012	-0.000	-0.001	-0.006
	11:DERZ3	4.319	-0.416	47.592	47.789	0.004	0.001	0.001
	12:DERZ4	-3.173	-0.785	-51.038	51.143	-0.004	-0.001	-0.001
50	5:DERX1	42.546	-0.948	2.133	42.610	0.001	0.001	0.004
	6:DERX2	-41.040	-2.279	-6.750	41.654	0.000	-0.001	-0.004
	7:DERZ1	4.477	-1.199	43.699	43.944	0.001	0.001	0.001
	8:DERZ2	-2.971	-2.028	-48.315	48.449	-0.000	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	42.374	-0.331	3.130	42.491	0.000	0.001	0.004
	10:DERX4	-41.212	-1.662	-5.753	41.645	0.000	-0.001	-0.004
	11:DERZ3	4.305	-0.582	44.696	44.907	0.001	0.001	0.000
	12:DERZ4	-3.143	-1.411	-47.319	47.444	-0.000	-0.001	-0.000
51	5:DERX1	35.817	-0.482	2.704	35.922	0.000	0.001	0.004
	6:DERX2	-35.600	-1.365	-8.611	36.652	-0.001	-0.001	-0.003
	7:DERZ1	10.107	-0.517	46.407	47.497	0.005	0.001	0.001
	8:DERZ2	-9.890	-1.330	-52.313	53.257	-0.006	-0.001	-0.001
	9:DERX3	35.861	-0.134	3.913	36.074	0.000	0.001	0.004
	10:DERX4	-35.555	-1.017	-7.402	36.332	-0.001	-0.001	-0.003
	11:DERZ3	10.151	-0.169	47.615	48.686	0.005	0.001	0.001
	12:DERZ4	-9.846	-0.982	-51.104	52.053	-0.006	-0.001	-0.001
55	5:DERX1	34.593	0.222	2.255	34.667	0.001	0.001	0.002
	6:DERX2	-34.465	-2.255	-6.819	35.205	-0.000	-0.001	-0.001
	7:DERZ1	11.359	8.594	43.804	46.062	0.005	0.001	0.001
	8:DERZ2	-11.231	-10.627	-48.369	50.780	-0.005	-0.001	0.000
	9:DERX3	34.651	0.547	3.242	34.806	0.001	0.001	0.002
	10:DERX4	-34.407	-1.930	-5.832	34.951	-0.000	-0.001	-0.002
	11:DERZ3	11.417	8.919	44.792	47.077	0.005	0.001	0.001
	12:DERZ4	-11.173	-10.302	-47.382	49.759	-0.005	-0.001	-0.000
56	5:DERX1	42.317	-1.108	2.141	42.386	0.001	0.001	0.004
	6:DERX2	-40.851	-2.491	-6.754	41.480	0.001	-0.001	-0.003
	7:DERZ1	4.662	-1.294	43.705	43.972	0.001	0.001	0.001
	8:DERZ2	-3.196	-2.305	-48.317	48.477	0.000	-0.001	-0.000
	9:DERX3	42.152	-0.394	3.138	42.270	0.000	0.001	0.004
	10:DERX4	-41.016	-1.777	-5.757	41.457	0.000	-0.001	-0.004
	11:DERZ3	4.496	-0.579	44.701	44.930	0.000	0.001	0.000
	12:DERZ4	-3.361	-1.591	-47.321	47.467	0.000	-0.001	-0.000
57	5:DERX1	54.118	-1.586	4.341	54.315	0.001	0.001	0.001
	6:DERX2	-61.233	-3.319	-10.499	62.215	0.000	-0.001	-0.006
	7:DERZ1	18.661	6.026	65.740	68.602	0.004	0.003	-0.001
	8:DERZ2	-25.777	-10.930	-71.898	77.157	-0.003	-0.002	-0.003
	9:DERX3	55.530	-0.639	5.605	55.816	0.001	0.001	0.002
	10:DERX4	-59.821	-2.372	-9.234	60.576	-0.000	-0.001	-0.005
	11:DERZ3	20.073	6.972	67.004	70.293	0.004	0.003	-0.001
	12:DERZ4	-24.365	-9.983	-70.633	75.382	-0.003	-0.002	-0.002
58	5:DERX1	64.493	-0.721	4.411	64.647	0.000	0.001	0.003
	6:DERX2	-61.402	-1.825	-10.625	62.342	-0.000	-0.001	-0.004
	7:DERZ1	7.804	-0.998	65.442	65.913	0.002	0.001	0.000
	8:DERZ2	-4.713	-1.547	-71.657	71.828	-0.002	-0.001	-0.001
	9:DERX3	64.060	-0.251	5.680	64.311	0.000	0.001	0.003
	10:DERX4	-61.835	-1.355	-9.355	62.554	-0.000	-0.001	-0.004
	11:DERZ3	7.371	-0.528	66.712	67.120	0.002	0.001	0.000
	12:DERZ4	-5.146	-1.078	-70.387	70.583	-0.002	-0.001	-0.001
59	5:DERX1	51.557	-0.541	2.783	51.635	0.000	0.001	0.004
	6:DERX2	-46.441	-1.673	-8.722	47.283	-0.000	-0.001	-0.005
	7:DERZ1	20.403	3.722	58.682	62.239	0.002	0.001	0.001
	8:DERZ2	-15.287	-5.935	-64.621	66.669	-0.002	-0.001	-0.002
	9:DERX3	50.773	-0.124	4.042	50.934	0.000	0.001	0.004
	10:DERX4	-47.226	-1.256	-7.464	47.828	-0.000	-0.001	-0.005
	11:DERZ3	19.619	4.138	59.941	63.205	0.002	0.001	0.001
	12:DERZ4	-16.071	-5.519	-63.362	65.601	-0.002	-0.001	-0.002
60	5:DERX1	65.567	-1.262	2.960	65.646	0.000	0.001	0.005
	6:DERX2	-61.609	-3.000	-8.671	62.289	0.000	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	8.391	-1.726	59.368	59.983	0.001	0.001	0.002
	8:DERZ2	-4.434	-2.536	-65.079	65.279	-0.000	-0.001	0.002
	9:DERX3	64.978	-0.463	4.170	65.113	0.000	0.001	0.004
	10:DERX4	-62.199	-2.201	-7.462	62.683	0.000	-0.001	-0.002
	11:DERZ3	7.802	-0.927	60.578	61.085	0.001	0.001	0.002
	12:DERZ4	-5.023	-1.737	-63.869	64.090	-0.000	-0.001	0.001
61	5:DERX1	69.096	-0.616	4.385	69.238	0.000	0.001	0.003
	6:DERX2	-65.548	-1.847	-10.674	66.437	-0.000	-0.001	-0.004
	7:DERZ1	4.128	-1.064	65.443	65.582	0.002	0.001	-0.000
	8:DERZ2	-0.580	-1.398	-71.732	71.748	-0.002	-0.001	-0.000
	9:DERX3	68.593	-0.155	5.669	68.827	0.000	0.001	0.003
	10:DERX4	-66.051	-1.386	-9.389	66.730	-0.000	-0.001	-0.004
	11:DERZ3	3.625	-0.604	66.727	66.828	0.002	0.001	-0.000
	12:DERZ4	-1.084	-0.938	-70.447	70.462	-0.002	-0.001	-0.000
63	5:DERX1	80.150	-0.958	4.414	80.277	0.000	0.002	0.003
	6:DERX2	-83.791	-3.495	-10.927	84.573	-0.001	-0.003	-0.006
	7:DERZ1	15.624	7.531	65.600	67.854	0.004	0.002	-0.001
	8:DERZ2	-19.265	-11.985	-72.114	75.599	-0.005	-0.003	-0.002
	9:DERX3	81.023	-0.084	5.733	81.226	0.000	0.002	0.003
	10:DERX4	-82.918	-2.621	-9.609	83.514	-0.001	-0.003	-0.005
	11:DERZ3	16.497	8.405	66.919	69.433	0.004	0.002	-0.000
	12:DERZ4	-18.392	-11.111	-70.795	73.984	-0.005	-0.003	-0.002
64	5:DERX1	74.737	-1.000	3.109	74.808	0.000	0.001	0.004
	6:DERX2	-68.909	-1.673	-8.376	69.437	-0.000	-0.001	-0.005
	7:DERZ1	16.798	3.880	58.526	61.013	0.002	0.001	0.001
	8:DERZ2	-10.971	-6.552	-63.793	65.060	-0.002	-0.001	-0.001
	9:DERX3	73.864	-0.506	4.227	73.987	0.000	0.001	0.005
	10:DERX4	-69.782	-1.179	-7.259	70.169	-0.000	-0.001	-0.005
	11:DERZ3	15.925	4.374	59.643	61.888	0.002	0.001	0.001
	12:DERZ4	-11.843	-6.058	-62.676	64.072	-0.002	-0.001	-0.001
65	5:DERX1	64.598	-0.622	3.891	64.718	-0.000	0.001	0.001
	6:DERX2	-61.444	-3.001	-10.016	62.327	-0.000	-0.001	-0.004
	7:DERZ1	7.843	-1.723	65.272	65.764	0.000	0.001	-0.001
	8:DERZ2	-4.689	-1.899	-71.398	71.577	-0.001	-0.001	-0.002
	9:DERX3	64.154	0.028	5.146	64.360	-0.000	0.001	0.002
	10:DERX4	-61.889	-2.351	-8.760	62.550	-0.000	-0.001	-0.003
	11:DERZ3	7.398	-1.074	66.528	66.947	0.000	0.001	-0.000
	12:DERZ4	-5.133	-1.250	-70.142	70.340	-0.001	-0.001	-0.001
67	5:DERX1	68.109	-0.323	3.971	68.225	0.000	0.001	-0.001
	6:DERX2	-65.161	-3.206	-10.511	66.081	-0.001	-0.001	-0.003
	7:DERZ1	6.954	-1.342	68.349	68.715	-0.000	0.001	-0.002
	8:DERZ2	-4.006	-2.188	-74.889	75.028	-0.001	-0.002	-0.002
	9:DERX3	67.707	0.326	5.303	67.915	0.000	0.001	-0.000
	10:DERX4	-65.563	-2.557	-9.179	66.251	-0.001	-0.001	-0.002
	11:DERZ3	6.552	-0.692	69.681	69.991	-0.000	0.001	-0.001
	12:DERZ4	-4.408	-1.538	-73.557	73.705	-0.000	-0.001	-0.001
68	5:DERX1	56.056	-5.793	4.695	56.550	0.003	0.001	0.004
	6:DERX2	-59.903	-7.212	-6.907	60.729	0.003	-0.001	0.004
	7:DERZ1	18.995	-5.012	62.259	65.285	0.003	0.001	0.004
	8:DERZ2	-22.841	-7.993	-64.471	68.863	0.002	-0.001	0.003
	9:DERX3	56.881	-3.414	5.268	57.227	0.002	0.001	0.002
	10:DERX4	-59.077	-4.833	-6.334	59.612	0.002	-0.001	0.002
	11:DERZ3	19.820	-2.633	62.832	65.936	0.002	0.001	0.003
	12:DERZ4	-22.016	-5.614	-63.898	67.817	0.001	-0.001	0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
69	5:DERX1	66.937	-0.662	2.988	67.007	0.000	0.002	0.005
	6:DERX2	-63.502	-2.952	-8.652	64.157	0.000	-0.001	-0.000
	7:DERZ1	6.821	-1.570	59.457	59.868	0.000	0.002	0.003
	8:DERZ2	-3.387	-2.044	-65.121	65.241	0.000	-0.001	0.002
	9:DERX3	66.446	0.031	4.189	66.577	0.000	0.002	0.005
	10:DERX4	-63.994	-2.259	-7.451	64.466	0.000	-0.001	-0.001
	11:DERZ3	6.330	-0.877	60.659	60.994	0.000	0.001	0.002
	12:DERZ4	-3.878	-1.351	-63.920	64.052	0.000	-0.001	0.001
70	5:DERX1	71.279	-0.671	5.390	71.486	-0.001	0.001	0.000
	6:DERX2	-67.670	-2.102	-11.537	68.678	-0.001	-0.001	-0.001
	7:DERZ1	4.154	-1.175	68.938	69.073	-0.000	0.001	-0.000
	8:DERZ2	-0.544	-1.598	-75.085	75.104	-0.001	-0.001	-0.001
	9:DERX3	70.775	-0.152	6.644	71.086	-0.000	0.001	0.000
	10:DERX4	-68.174	-1.584	-10.283	68.963	-0.000	-0.001	-0.001
	11:DERZ3	3.649	-0.656	70.192	70.289	-0.000	0.001	-0.000
	12:DERZ4	-1.048	-1.080	-73.831	73.847	-0.001	-0.001	-0.001
72	5:DERX1	81.285	-4.572	1.657	81.431	-0.002	0.001	0.003
	6:DERX2	-82.447	-5.622	-10.079	83.251	-0.003	-0.001	0.003
	7:DERZ1	15.393	-3.575	59.427	61.492	-0.002	0.001	0.004
	8:DERZ2	-16.555	-6.619	-67.848	70.152	-0.003	-0.001	0.003
	9:DERX3	81.716	-2.699	3.367	81.830	-0.001	0.001	0.002
	10:DERX4	-82.016	-3.750	-8.369	82.527	-0.002	-0.001	0.002
	11:DERZ3	15.824	-1.702	61.136	63.174	-0.001	0.001	0.002
	12:DERZ4	-16.124	-4.747	-66.139	68.241	-0.002	-0.001	0.002
73	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.005	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.006	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.005	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.006	-0.000	-0.001
74	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.001	-0.000	-0.001
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	-0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
75	5:DERX1	0.000	0.000	0.000	0.000	-0.002	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
	7:DERZ1	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
76	5:DERX1	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.005	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	0.000	0.000	0.000	0.000	0.004	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.005	-0.000	-0.000
77	5:DERX1	0.000	0.000	0.000	0.000	-0.000	0.000	0.004
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.004	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.006	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.005	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.006	-0.000	-0.000
78	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.004
	6:DERX2	0.000	0.000	0.000	0.000	0.001	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	-0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
79	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.004
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.004
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.005	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.004
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.004
	11:DERZ3	0.000	0.000	0.000	0.000	0.004	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.005	-0.000	-0.000
80	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.005
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.006
	7:DERZ1	0.000	0.000	0.000	0.000	0.006	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.006	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.006
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.006
	11:DERZ3	0.000	0.000	0.000	0.000	0.006	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.006	-0.000	-0.001
81	5:DERX1	18.724	-0.441	-0.809	18.747	-0.000	0.000	0.002
	6:DERX2	-18.494	-0.463	-2.558	18.676	-0.001	-0.000	-0.002
	7:DERZ1	5.182	-0.353	22.740	23.326	0.006	0.000	0.001
	8:DERZ2	-4.953	-0.552	-26.107	26.578	-0.007	-0.000	-0.001
	9:DERX3	18.725	-0.252	-0.096	18.727	0.000	0.000	0.002
	10:DERX4	-18.494	-0.274	-1.845	18.588	-0.000	-0.000	-0.002
	11:DERZ3	5.183	-0.164	23.453	24.020	0.006	0.000	0.001
	12:DERZ4	-4.952	-0.362	-25.394	25.875	-0.007	-0.000	-0.001
82	5:DERX1	21.677	-0.636	-0.817	21.701	0.001	0.000	0.002
	6:DERX2	-20.966	-0.799	-2.565	21.138	0.000	-0.000	-0.002
	7:DERZ1	2.183	-0.633	22.748	22.861	0.003	0.000	0.000
	8:DERZ2	-1.473	-0.801	-26.130	26.184	-0.002	-0.000	-0.000
	9:DERX3	21.601	-0.320	-0.100	21.603	0.000	0.000	0.002
	10:DERX4	-21.042	-0.482	-1.849	21.128	0.000	-0.000	-0.002
	11:DERZ3	2.107	-0.317	23.465	23.561	0.003	0.000	0.000
	12:DERZ4	-1.548	-0.485	-25.414	25.465	-0.002	-0.000	-0.000
83	5:DERX1	23.563	-0.830	-0.821	23.592	-0.001	0.000	0.002
	6:DERX2	-22.558	-0.915	-2.569	22.722	-0.001	-0.000	-0.002
	7:DERZ1	1.331	-0.743	22.759	22.810	0.002	0.000	0.000
	8:DERZ2	-0.326	-1.002	-26.149	26.170	-0.003	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	23.439	-0.435	-0.103	23.444	-0.000	0.000	0.002
	10:DERX4	-22.682	-0.520	-1.851	22.763	-0.001	-0.000	-0.002
	11:DERZ3	1.207	-0.348	23.477	23.511	0.002	0.000	0.000
	12:DERZ4	-0.450	-0.607	-25.430	25.442	-0.003	-0.000	-0.000
84	5:DERX1	27.397	-1.005	-0.844	27.428	-0.000	0.000	0.000
	6:DERX2	-25.788	-1.032	-2.593	25.939	-0.001	-0.000	-0.000
	7:DERZ1	4.825	-0.854	22.765	23.287	0.005	0.000	0.000
	8:DERZ2	-3.217	-1.183	-26.203	26.426	-0.006	-0.000	0.000
	9:DERX3	27.172	-0.565	-0.115	27.178	-0.000	0.000	0.000
	10:DERX4	-26.013	-0.592	-1.864	26.086	-0.000	-0.000	-0.000
	11:DERZ3	4.601	-0.414	23.494	23.944	0.005	0.000	0.000
	12:DERZ4	-3.442	-0.743	-25.474	25.716	-0.005	-0.000	0.000
85	5:DERX1	18.703	-0.318	0.721	18.720	0.000	0.000	0.003
	6:DERX2	-18.498	-0.876	-3.814	18.907	-0.001	-0.000	-0.003
	7:DERZ1	5.167	-0.322	22.194	22.790	0.006	0.000	0.001
	8:DERZ2	-4.962	-0.872	-25.288	25.785	-0.006	-0.000	-0.001
	9:DERX3	18.709	-0.100	1.395	18.762	0.000	0.000	0.003
	10:DERX4	-18.492	-0.658	-3.141	18.768	-0.001	-0.000	-0.003
	11:DERZ3	5.173	-0.104	22.868	23.446	0.006	0.000	0.001
	12:DERZ4	-4.955	-0.654	-24.614	25.117	-0.006	-0.000	-0.001
86	5:DERX1	21.647	-0.491	0.748	21.665	0.000	0.000	0.004
	6:DERX2	-20.946	-1.217	-3.798	21.322	0.000	-0.000	-0.004
	7:DERZ1	2.176	-0.577	22.238	22.351	0.002	0.000	0.000
	8:DERZ2	-1.475	-1.131	-25.288	25.356	-0.001	-0.000	-0.000
	9:DERX3	21.573	-0.170	1.412	21.620	0.000	0.000	0.004
	10:DERX4	-21.019	-0.896	-3.134	21.271	0.000	-0.000	-0.004
	11:DERZ3	2.103	-0.256	22.902	22.999	0.002	0.000	0.000
	12:DERZ4	-1.549	-0.810	-24.624	24.686	-0.001	-0.000	-0.000
87	5:DERX1	23.541	-0.399	0.744	23.556	-0.000	0.000	0.005
	6:DERX2	-22.546	-0.943	-3.828	22.888	-0.001	-0.000	-0.005
	7:DERZ1	1.326	-0.610	22.262	22.310	0.004	0.000	-0.000
	8:DERZ2	-0.331	-0.732	-25.346	25.359	-0.005	-0.000	-0.000
	9:DERX3	23.419	-0.150	1.416	23.462	0.000	0.000	0.005
	10:DERX4	-22.668	-0.694	-3.156	22.897	-0.001	-0.000	-0.005
	11:DERZ3	1.204	-0.360	22.934	22.968	0.004	0.000	-0.000
	12:DERZ4	-0.453	-0.483	-24.674	24.683	-0.005	-0.000	-0.000
88	5:DERX1	27.390	-0.353	0.741	27.402	0.000	0.000	0.006
	6:DERX2	-25.792	-0.783	-3.835	26.087	-0.001	-0.000	-0.006
	7:DERZ1	4.821	-0.336	22.321	22.838	0.006	0.000	0.001
	8:DERZ2	-3.223	-0.799	-25.415	25.631	-0.006	-0.000	-0.001
	9:DERX3	27.168	-0.148	1.412	27.205	0.000	0.000	0.006
	10:DERX4	-26.015	-0.578	-3.164	26.213	-0.001	-0.000	-0.006
	11:DERZ3	4.598	-0.131	22.992	23.448	0.006	0.000	0.001
	12:DERZ4	-3.445	-0.594	-24.744	24.990	-0.006	-0.000	-0.001
89	5:DERX1	35.800	-0.655	-0.895	35.817	-0.000	0.001	0.001
	6:DERX2	-35.485	-0.710	-4.347	35.758	-0.001	-0.001	-0.001
	7:DERZ1	10.131	-0.538	44.868	46.001	0.005	0.001	0.000
	8:DERZ2	-9.816	-0.827	-50.110	51.069	-0.006	-0.001	-0.000
	9:DERX3	35.826	-0.354	0.207	35.829	-0.000	0.001	0.001
	10:DERX4	-35.459	-0.409	-3.245	35.609	-0.000	-0.001	-0.001
	11:DERZ3	10.157	-0.237	45.970	47.080	0.005	0.001	0.000
	12:DERZ4	-9.790	-0.526	-49.008	49.979	-0.006	-0.001	-0.000
90	5:DERX1	42.516	-0.969	-0.866	42.536	0.001	0.001	0.000
	6:DERX2	-41.042	-1.214	-4.307	41.285	0.001	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	4.460	-0.998	44.881	45.114	0.002	0.001	-0.000
	8:DERZ2	-2.985	-1.185	-50.055	50.158	0.000	-0.001	-0.000
	9:DERX3	42.349	-0.464	0.219	42.352	0.001	0.001	0.000
	10:DERX4	-41.208	-0.710	-3.223	41.340	0.000	-0.001	-0.000
	11:DERZ3	4.293	-0.494	45.966	46.169	0.001	0.001	0.000
	12:DERZ4	-3.152	-0.681	-48.970	49.076	-0.000	-0.001	-0.000
91	5:DERX1	46.148	-1.286	-0.865	46.174	-0.002	0.001	0.000
	6:DERX2	-44.221	-1.420	-4.278	44.451	-0.002	-0.001	-0.000
	7:DERZ1	2.541	-1.197	44.911	44.998	-0.001	0.001	0.000
	8:DERZ2	-0.614	-1.509	-50.054	50.080	-0.003	-0.001	0.000
	9:DERX3	45.912	-0.643	0.214	45.917	-0.001	0.001	0.000
	10:DERX4	-44.457	-0.778	-3.200	44.579	-0.001	-0.001	-0.000
	11:DERZ3	2.304	-0.554	45.989	46.050	0.000	0.001	0.000
	12:DERZ4	-0.850	-0.867	-48.975	48.990	-0.002	-0.001	0.000
92	5:DERX1	52.333	-1.465	-0.829	52.360	0.002	0.001	0.001
	6:DERX2	-50.063	-1.566	-4.239	50.266	0.001	-0.001	-0.001
	7:DERZ1	8.978	-1.278	45.007	45.912	0.006	0.001	0.000
	8:DERZ2	-6.709	-1.752	-50.075	50.552	-0.002	-0.001	-0.000
	9:DERX3	52.064	-0.778	0.231	52.070	0.001	0.001	0.001
	10:DERX4	-50.332	-0.879	-3.179	50.440	0.000	-0.001	-0.001
	11:DERZ3	8.709	-0.592	46.067	46.887	0.005	0.001	0.000
	12:DERZ4	-6.977	-1.065	-49.015	49.520	-0.003	-0.001	-0.000
93	5:DERX1	35.833	-0.636	2.255	35.909	0.000	0.001	0.003
	6:DERX2	-35.474	-1.453	-6.822	36.153	-0.001	-0.001	-0.003
	7:DERZ1	10.157	-0.587	43.800	44.966	0.005	0.001	0.001
	8:DERZ2	-9.799	-1.502	-48.367	49.372	-0.005	-0.001	-0.001
	9:DERX3	35.851	-0.249	3.243	35.999	0.000	0.001	0.003
	10:DERX4	-35.455	-1.067	-5.834	35.948	-0.001	-0.001	-0.003
	11:DERZ3	10.176	-0.200	44.788	45.930	0.005	0.001	0.001
	12:DERZ4	-9.780	-1.116	-47.379	48.391	-0.005	-0.001	-0.001
109	5:DERX1	74.204	-0.583	4.349	74.333	0.000	0.002	0.006
	6:DERX2	-77.910	-1.299	-10.967	78.689	-0.001	-0.002	-0.006
	7:DERZ1	10.506	-0.632	65.506	66.346	0.004	0.002	0.001
	8:DERZ2	-14.212	-1.250	-72.124	73.521	-0.005	-0.002	-0.001
	9:DERX3	75.087	-0.231	5.688	75.303	0.000	0.002	0.006
	10:DERX4	-77.027	-0.947	-9.628	77.632	-0.001	-0.002	-0.006
	11:DERZ3	11.389	-0.280	66.844	67.808	0.004	0.002	0.001
	12:DERZ4	-13.329	-0.898	-70.785	72.035	-0.004	-0.002	-0.001
110	5:DERX1	73.003	-0.767	3.109	73.073	0.000	0.001	0.004
	6:DERX2	-67.579	-1.452	-8.376	68.111	-0.000	-0.001	-0.005
	7:DERZ1	14.227	-0.605	58.524	60.231	0.002	0.001	0.001
	8:DERZ2	-8.802	-1.615	-63.791	64.415	-0.002	-0.001	-0.001
	9:DERX3	72.197	-0.365	4.226	72.321	0.000	0.001	0.005
	10:DERX4	-68.385	-1.050	-7.259	68.777	-0.000	-0.001	-0.005
	11:DERZ3	13.420	-0.202	59.641	61.133	0.002	0.001	0.001
	12:DERZ4	-9.608	-1.212	-62.673	63.417	-0.002	-0.001	-0.001
111	5:DERX1	53.071	-0.718	4.394	53.257	0.001	0.001	0.004
	6:DERX2	-60.526	-1.657	-10.452	61.444	-0.000	-0.001	-0.005
	7:DERZ1	13.329	-0.688	65.746	67.087	0.004	0.002	0.001
	8:DERZ2	-20.784	-1.687	-71.803	74.770	-0.003	-0.002	-0.002
	9:DERX3	54.559	-0.277	5.640	54.851	0.001	0.001	0.004
	10:DERX4	-59.038	-1.217	-9.206	59.764	-0.000	-0.001	-0.005
	11:DERZ3	14.817	-0.247	66.991	68.611	0.004	0.002	0.001
	12:DERZ4	-19.296	-1.247	-70.558	73.160	-0.003	-0.002	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
112	5:DERX1	53.654	-0.910	2.783	53.733	-0.000	0.001	0.004
	6:DERX2	-48.821	-1.788	-8.722	49.626	-0.000	-0.001	-0.005
	7:DERZ1	17.899	-0.778	58.680	61.354	0.002	0.001	0.001
	8:DERZ2	-13.066	-1.920	-64.619	65.954	-0.002	-0.001	-0.002
	9:DERX3	52.922	-0.417	4.042	53.077	0.000	0.001	0.004
	10:DERX4	-49.553	-1.296	-7.463	50.128	-0.000	-0.001	-0.005
	11:DERZ3	17.167	-0.285	59.938	62.349	0.002	0.001	0.001
	12:DERZ4	-13.798	-1.427	-63.360	64.861	-0.002	-0.001	-0.002
113	5:DERX1	70.018	-0.755	3.079	70.090	0.000	0.001	0.006
	6:DERX2	-66.049	-1.959	-8.613	66.637	-0.001	-0.001	-0.002
	7:DERZ1	4.369	-1.305	59.444	59.618	0.002	0.001	0.002
	8:DERZ2	-0.399	-1.409	-64.977	64.994	-0.002	-0.001	0.002
	9:DERX3	69.438	-0.248	4.256	69.569	0.000	0.001	0.005
	10:DERX4	-66.628	-1.452	-7.437	67.058	-0.001	-0.001	-0.002
	11:DERZ3	3.789	-0.797	60.620	60.743	0.002	0.001	0.001
	12:DERZ4	-0.979	-0.902	-63.801	63.815	-0.002	-0.001	0.001
115	5:DERX1	80.445	-0.878	2.836	80.500	-0.000	0.001	0.003
	6:DERX2	-78.150	-1.609	-8.961	78.679	-0.000	-0.001	0.000
	7:DERZ1	14.382	-0.670	60.304	61.998	-0.000	0.001	0.002
	8:DERZ2	-12.087	-1.816	-66.429	67.544	-0.001	-0.001	0.001
	9:DERX3	80.225	-0.426	4.121	80.332	-0.000	0.001	0.003
	10:DERX4	-78.371	-1.158	-7.675	78.754	-0.000	-0.001	-0.001
	11:DERZ3	14.161	-0.219	61.589	63.197	0.000	0.001	0.001
	12:DERZ4	-12.307	-1.365	-65.143	66.310	-0.001	-0.001	0.001
118	5:DERX1	59.679	-1.081	3.208	59.775	0.001	0.001	0.003
	6:DERX2	-59.030	-2.008	-8.310	59.646	0.001	-0.001	0.001
	7:DERZ1	18.492	-0.904	60.570	63.336	0.001	0.001	0.003
	8:DERZ2	-17.844	-2.186	-65.672	68.088	0.001	-0.001	0.002
	9:DERX3	59.681	-0.517	4.310	59.838	0.001	0.001	0.002
	10:DERX4	-59.029	-1.444	-7.208	59.484	0.000	-0.001	0.001
	11:DERZ3	18.494	-0.339	61.672	64.386	0.001	0.001	0.002
	12:DERZ4	-17.842	-1.621	-64.570	67.009	0.000	-0.001	0.001
121	5:DERX1	66.865	-0.815	4.235	67.004	0.000	0.001	0.000
	6:DERX2	-65.320	-2.073	-10.567	66.202	-0.001	-0.001	-0.001
	7:DERZ1	7.669	-1.116	68.424	68.861	0.000	0.001	-0.000
	8:DERZ2	-6.124	-1.772	-74.756	75.027	-0.000	-0.002	-0.000
	9:DERX3	66.723	-0.282	5.529	66.952	0.000	0.001	0.000
	10:DERX4	-65.461	-1.540	-9.273	66.133	-0.001	-0.001	-0.001
	11:DERZ3	7.527	-0.583	69.718	70.125	0.000	0.001	-0.000
	12:DERZ4	-6.266	-1.239	-73.462	73.740	-0.000	-0.002	-0.000
122	5:DERX1	56.171	-0.748	4.752	56.377	0.001	0.001	0.002
	6:DERX2	-62.400	-1.697	-10.334	63.272	-0.000	-0.001	-0.005
	7:DERZ1	14.772	-0.712	68.273	69.856	0.004	0.002	-0.000
	8:DERZ2	-21.000	-1.732	-73.854	76.801	-0.003	-0.002	-0.003
	9:DERX3	57.441	-0.294	5.900	57.744	0.000	0.001	0.002
	10:DERX4	-61.130	-1.243	-9.186	61.829	-0.000	-0.001	-0.004
	11:DERZ3	16.041	-0.259	69.420	71.250	0.004	0.002	0.000
	12:DERZ4	-19.730	-1.278	-72.707	75.347	-0.003	-0.002	-0.002
124	5:DERX1	77.735	-0.605	4.531	77.869	0.000	0.002	0.004
	6:DERX2	-81.032	-1.332	-11.653	81.877	-0.001	-0.002	-0.005
	7:DERZ1	11.334	-0.654	67.999	68.940	0.004	0.002	0.000
	8:DERZ2	-14.632	-1.282	-75.121	76.544	-0.004	-0.002	-0.002
	9:DERX3	78.553	-0.243	5.975	78.781	0.000	0.002	0.004
	10:DERX4	-80.214	-0.970	-10.209	80.867	-0.001	-0.002	-0.005

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	12.152	-0.292	69.444	70.500	0.004	0.002	0.000
	12:DERZ4	-13.813	-0.921	-73.677	74.966	-0.004	-0.002	-0.001
131	5:DERX1	79.279	-5.594	-0.346	79.477	-0.001	0.001	0.002
	6:DERX2	-79.709	-6.267	-7.591	80.314	-0.002	-0.001	0.001
	7:DERZ1	12.922	-4.419	60.992	62.503	-0.001	0.001	0.002
	8:DERZ2	-13.351	-7.442	-68.929	70.604	-0.002	-0.001	0.001
	9:DERX3	79.566	-3.397	1.266	79.649	-0.000	0.001	0.002
	10:DERX4	-79.422	-4.070	-5.979	79.750	-0.002	-0.001	0.001
	11:DERZ3	13.209	-2.222	62.604	64.021	-0.000	0.001	0.002
	12:DERZ4	-13.064	-5.245	-67.317	68.774	-0.001	-0.001	0.001
132	5:DERX1	58.136	-7.076	2.339	58.612	0.002	0.001	0.003
	6:DERX2	-60.843	-7.470	-5.379	61.536	0.001	-0.001	0.002
	7:DERZ1	16.707	-5.818	63.157	65.588	0.002	0.001	0.003
	8:DERZ2	-19.414	-8.729	-66.197	69.535	0.001	-0.001	0.002
	9:DERX3	58.757	-4.397	3.058	59.001	0.002	0.001	0.002
	10:DERX4	-60.222	-4.792	-4.660	60.592	0.001	-0.001	0.001
	11:DERZ3	17.328	-3.139	63.876	66.260	0.002	0.001	0.002
	12:DERZ4	-18.793	-6.050	-65.478	68.390	0.001	-0.001	0.001
134	5:DERX1	65.999	-1.285	3.033	66.081	0.001	0.002	0.005
	6:DERX2	-63.260	-3.041	-8.510	63.902	0.000	-0.001	-0.000
	7:DERZ1	7.931	-1.761	59.692	60.242	0.001	0.002	0.003
	8:DERZ2	-5.192	-2.565	-65.169	65.426	0.000	-0.001	0.002
	9:DERX3	65.630	-0.474	4.204	65.766	0.001	0.002	0.004
	10:DERX4	-63.629	-2.230	-7.340	64.090	0.000	-0.001	-0.001
	11:DERZ3	7.562	-0.950	60.862	61.338	0.001	0.002	0.002
	12:DERZ4	-5.561	-1.754	-63.998	64.263	-0.000	-0.001	0.001
137	5:DERX1	66.971	-1.352	3.105	67.056	0.000	0.001	-0.001
	6:DERX2	-64.553	-4.709	-9.209	65.377	-0.001	-0.001	-0.003
	7:DERZ1	8.073	-2.638	67.697	68.228	-0.001	0.001	-0.002
	8:DERZ2	-5.655	-3.423	-73.802	74.097	-0.001	-0.002	-0.002
	9:DERX3	66.664	-0.220	4.360	66.807	0.000	0.001	-0.000
	10:DERX4	-64.860	-3.577	-7.954	65.444	-0.001	-0.001	-0.002
	11:DERZ3	7.766	-1.507	68.952	69.405	-0.000	0.001	-0.001
	12:DERZ4	-5.962	-2.291	-72.547	72.827	-0.000	-0.001	-0.001
138	5:DERX1	0.002	-3.009	0.000	3.009	-0.002	0.000	0.003
	6:DERX2	-0.002	-4.424	-0.000	4.424	-0.002	-0.000	-0.004
	7:DERZ1	0.002	2.297	0.000	2.297	-0.001	0.000	0.000
	8:DERZ2	-0.001	-9.729	-0.000	9.729	-0.002	-0.000	-0.001
	9:DERX3	0.002	-1.502	0.000	1.502	-0.001	0.000	0.004
	10:DERX4	-0.002	-2.917	-0.000	2.917	-0.001	-0.000	-0.004
	11:DERZ3	0.002	3.804	0.000	3.804	-0.001	0.000	0.001
	12:DERZ4	-0.001	-8.222	-0.000	8.222	-0.001	-0.000	-0.001
140	5:DERX1	19.446	-1.359	0.889	19.513	-0.001	0.000	0.003
	6:DERX2	-19.084	-2.439	-4.593	19.779	-0.001	-0.000	-0.004
	7:DERZ1	4.421	4.269	23.365	24.159	-0.000	0.000	0.001
	8:DERZ2	-4.059	-8.067	-27.068	28.535	-0.001	-0.000	-0.001
	9:DERX3	19.425	-0.640	1.655	19.506	-0.000	0.000	0.003
	10:DERX4	-19.104	-1.720	-3.826	19.560	-0.000	-0.000	-0.004
	11:DERZ3	4.400	4.988	24.131	25.031	-0.000	0.000	0.001
	12:DERZ4	-4.079	-7.348	-26.302	27.612	-0.001	-0.000	-0.001
142	5:DERX1	37.470	-2.293	2.709	37.637	-0.001	0.001	0.004
	6:DERX2	-36.895	-3.003	-8.612	38.006	-0.001	-0.001	-0.004
	7:DERZ1	8.678	1.859	46.401	47.242	-0.001	0.001	0.001
	8:DERZ2	-8.104	-7.155	-52.303	53.409	-0.001	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	37.453	-1.091	3.917	37.673	-0.000	0.001	0.004
	10:DERX4	-36.912	-1.801	-7.404	37.690	-0.000	-0.001	-0.004
	11:DERZ3	8.662	3.061	47.608	48.487	-0.000	0.001	0.001
	12:DERZ4	-8.120	-5.953	-51.096	52.078	-0.001	-0.001	-0.001
144	5:DERX1	0.001	-4.128	0.001	4.128	-0.002	0.000	0.002
	6:DERX2	-0.001	-4.711	-0.000	4.711	-0.002	-0.000	-0.002
	7:DERZ1	0.001	2.275	0.000	2.275	-0.001	0.000	0.000
	8:DERZ2	-0.001	-11.114	-0.000	11.114	-0.003	-0.000	-0.000
	9:DERX3	0.001	-1.800	0.001	1.800	-0.001	0.000	0.002
	10:DERX4	-0.001	-2.383	-0.000	2.383	-0.001	-0.000	-0.002
	11:DERZ3	0.001	4.604	0.000	4.604	-0.000	0.000	0.000
	12:DERZ4	-0.001	-8.786	-0.000	8.786	-0.002	-0.000	-0.000
145	5:DERX1	0.002	-3.572	0.000	3.572	-0.002	0.000	0.004
	6:DERX2	-0.002	-4.603	-0.000	4.603	-0.002	-0.000	-0.001
	7:DERZ1	0.002	1.817	0.000	1.817	-0.001	0.000	0.002
	8:DERZ2	-0.002	-9.992	-0.000	9.992	-0.003	-0.000	0.001
	9:DERX3	0.002	-1.711	0.000	1.711	-0.001	0.000	0.003
	10:DERX4	-0.002	-2.742	-0.000	2.742	-0.001	-0.000	-0.002
	11:DERZ3	0.002	3.678	0.000	3.678	-0.000	0.000	0.001
	12:DERZ4	-0.002	-8.131	-0.000	8.131	-0.002	-0.000	-0.000
146	5:DERX1	19.441	-3.526	-0.812	19.774	-0.002	0.000	0.002
	6:DERX2	-19.091	-4.050	-2.561	19.684	-0.002	-0.000	-0.002
	7:DERZ1	4.415	2.991	22.741	23.358	-0.001	0.000	0.000
	8:DERZ2	-4.066	-10.567	-26.115	28.464	-0.002	-0.000	-0.000
	9:DERX3	19.423	-2.070	-0.098	19.533	-0.001	0.000	0.002
	10:DERX4	-19.109	-2.595	-1.846	19.373	-0.001	-0.000	-0.002
	11:DERZ3	4.397	4.447	23.456	24.275	-0.001	0.000	0.000
	12:DERZ4	-4.084	-9.111	-25.400	27.292	-0.002	-0.000	-0.000
147	5:DERX1	19.438	-2.105	0.726	19.565	-0.001	0.000	0.004
	6:DERX2	-19.101	-2.978	-3.806	19.703	-0.001	-0.000	-0.001
	7:DERZ1	4.410	3.954	22.217	22.993	-0.000	0.000	0.002
	8:DERZ2	-4.073	-9.037	-25.297	27.170	-0.002	-0.000	0.001
	9:DERX3	19.422	-1.204	1.397	19.510	-0.001	0.000	0.003
	10:DERX4	-19.116	-2.077	-3.135	19.483	-0.001	-0.000	-0.002
	11:DERZ3	4.394	4.855	22.888	23.806	0.000	0.000	0.001
	12:DERZ4	-4.088	-8.136	-24.627	26.256	-0.001	-0.000	0.000
148	5:DERX1	37.482	-4.604	-0.885	37.774	-0.002	0.001	0.000
	6:DERX2	-36.877	-5.103	-4.338	37.480	-0.002	-0.001	-0.001
	7:DERZ1	8.694	1.250	44.889	45.740	-0.001	0.001	0.000
	8:DERZ2	-8.089	-10.957	-50.111	51.929	-0.003	-0.001	-0.000
	9:DERX3	37.460	-2.071	0.213	37.518	-0.001	0.001	0.000
	10:DERX4	-36.899	-2.571	-3.241	37.130	-0.001	-0.001	-0.001
	11:DERZ3	8.672	3.783	45.986	46.949	-0.000	0.001	0.000
	12:DERZ4	-8.111	-8.425	-49.014	50.390	-0.002	-0.001	-0.000
149	5:DERX1	37.485	-2.697	2.253	37.649	-0.001	0.001	0.004
	6:DERX2	-36.859	-3.552	-6.818	37.652	-0.001	-0.001	-0.000
	7:DERZ1	8.703	2.432	43.785	44.707	-0.000	0.001	0.002
	8:DERZ2	-8.077	-8.681	-48.349	49.782	-0.002	-0.001	0.001
	9:DERX3	37.459	-1.268	3.241	37.620	-0.000	0.001	0.003
	10:DERX4	-36.885	-2.123	-5.830	37.403	-0.001	-0.001	-0.001
	11:DERZ3	8.677	3.861	44.772	45.768	0.000	0.001	0.001
	12:DERZ4	-8.103	-7.252	-47.362	48.594	-0.001	-0.001	0.000
150	5:DERX1	0.000	-5.355	0.001	5.355	0.000	0.000	0.004
	6:DERX2	-0.000	-6.265	-0.001	6.265	-0.000	-0.000	-0.004

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.000	-2.097	0.001	2.097	0.002	0.000	0.000
	8:DERZ2	-0.000	-9.523	-0.000	9.523	-0.002	-0.000	-0.001
	9:DERX3	0.000	-3.009	0.001	3.009	0.000	0.000	0.004
	10:DERX4	-0.000	-3.919	-0.001	3.919	-0.000	-0.000	-0.004
	11:DERZ3	0.000	0.249	0.001	0.249	0.002	0.000	0.000
	12:DERZ4	-0.000	-7.176	-0.000	7.176	-0.002	-0.000	-0.001
152	5:DERX1	20.175	-2.265	0.889	20.321	0.000	0.000	0.004
	6:DERX2	-19.699	-2.745	-4.586	20.411	-0.000	-0.000	-0.004
	7:DERZ1	3.656	0.739	23.362	23.657	0.002	0.000	0.000
	8:DERZ2	-3.180	-5.749	-27.059	27.845	-0.002	-0.000	-0.001
	9:DERX3	20.136	-1.329	1.654	20.248	0.000	0.000	0.004
	10:DERX4	-19.737	-1.808	-3.821	20.185	-0.000	-0.000	-0.004
	11:DERZ3	3.618	1.675	24.127	24.454	0.002	0.000	0.001
	12:DERZ4	-3.219	-4.813	-26.294	26.924	-0.002	-0.000	-0.001
154	5:DERX1	39.162	-3.394	2.711	39.402	0.000	0.001	0.005
	6:DERX2	-38.272	-4.033	-8.597	39.432	-0.000	-0.001	-0.005
	7:DERZ1	7.253	-2.646	46.401	47.039	0.002	0.001	0.001
	8:DERZ2	-6.363	-4.781	-52.287	52.889	-0.002	-0.001	-0.001
	9:DERX3	39.093	-1.655	3.915	39.323	0.000	0.001	0.005
	10:DERX4	-38.341	-2.294	-7.393	39.114	-0.000	-0.001	-0.005
	11:DERZ3	7.184	-0.907	47.605	48.152	0.002	0.001	0.001
	12:DERZ4	-6.432	-3.041	-51.083	51.576	-0.002	-0.001	-0.001
156	5:DERX1	0.001	-6.987	0.001	6.987	-0.000	0.000	0.001
	6:DERX2	-0.000	-7.788	-0.001	7.788	-0.000	-0.000	-0.001
	7:DERZ1	0.000	-2.108	0.001	2.108	0.002	0.000	0.000
	8:DERZ2	-0.000	-12.666	-0.001	12.666	-0.002	-0.000	-0.000
	9:DERX3	0.001	-3.078	0.001	3.078	0.000	0.000	0.001
	10:DERX4	-0.000	-3.879	-0.001	3.879	-0.000	-0.000	-0.001
	11:DERZ3	0.000	1.800	0.001	1.800	0.002	0.000	0.000
	12:DERZ4	-0.000	-8.758	-0.001	8.758	-0.002	-0.000	-0.000
157	5:DERX1	0.001	-6.183	0.000	6.183	0.000	0.000	0.004
	6:DERX2	-0.000	-6.866	-0.000	6.866	-0.000	-0.000	-0.001
	7:DERZ1	0.001	-1.930	0.000	1.930	0.001	0.000	0.002
	8:DERZ2	-0.000	-11.119	-0.000	11.119	-0.001	-0.000	0.001
	9:DERX3	0.001	-3.222	0.000	3.222	0.000	0.000	0.003
	10:DERX4	-0.000	-3.905	-0.000	3.905	-0.000	-0.000	-0.002
	11:DERZ3	0.000	1.031	0.000	1.031	0.001	0.000	0.001
	12:DERZ4	-0.000	-8.158	-0.000	8.158	-0.001	-0.000	0.000
158	5:DERX1	20.171	-5.787	-0.815	21.001	0.000	0.000	0.002
	6:DERX2	-19.703	-6.472	-2.564	20.896	-0.000	-0.000	-0.002
	7:DERZ1	3.654	-1.708	22.742	23.097	0.002	0.000	0.000
	8:DERZ2	-3.185	-10.552	-26.121	28.351	-0.002	-0.000	-0.000
	9:DERX3	20.134	-3.448	-0.099	20.428	0.000	0.000	0.002
	10:DERX4	-19.740	-4.133	-1.848	20.252	-0.000	-0.000	-0.002
	11:DERZ3	3.617	0.632	23.458	23.744	0.002	0.000	0.000
	12:DERZ4	-3.222	-8.212	-25.405	26.893	-0.002	-0.000	-0.000
159	5:DERX1	20.172	-3.471	0.730	20.482	0.000	0.000	0.004
	6:DERX2	-19.711	-4.100	-3.800	20.488	-0.000	-0.000	-0.000
	7:DERZ1	3.653	0.927	22.231	22.548	0.002	0.000	0.002
	8:DERZ2	-3.191	-8.498	-25.301	26.880	-0.002	-0.000	0.001
	9:DERX3	20.137	-2.146	1.399	20.299	0.000	0.000	0.003
	10:DERX4	-19.746	-2.775	-3.132	20.185	-0.000	-0.000	-0.001
	11:DERZ3	3.617	2.252	22.899	23.292	0.002	0.000	0.001
	12:DERZ4	-3.226	-7.173	-24.632	25.858	-0.002	-0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
160	5:DERX1	39.173	-7.662	-0.878	39.925	-0.000	0.001	0.000
	6:DERX2	-38.269	-8.333	-4.330	39.404	-0.000	-0.001	-0.000
	7:DERZ1	7.263	-3.172	44.898	45.592	0.001	0.001	0.000
	8:DERZ2	-6.358	-12.823	-50.106	52.110	-0.002	-0.001	-0.000
	9:DERX3	39.101	-3.456	0.215	39.254	-0.000	0.001	0.000
	10:DERX4	-38.341	-4.127	-3.236	38.698	-0.000	-0.001	-0.000
	11:DERZ3	7.191	1.034	45.991	46.562	0.001	0.001	0.000
	12:DERZ4	-6.431	-8.618	-49.013	50.178	-0.002	-0.001	-0.000
161	5:DERX1	39.172	-4.064	2.232	39.445	0.000	0.001	0.004
	6:DERX2	-38.258	-5.162	-6.802	39.199	-0.000	-0.001	0.000
	7:DERZ1	7.268	-0.084	43.765	44.365	0.001	0.001	0.003
	8:DERZ2	-6.353	-9.142	-48.336	49.601	-0.001	-0.001	0.002
	9:DERX3	39.098	-1.899	3.220	39.276	0.000	0.001	0.003
	10:DERX4	-38.332	-2.996	-5.814	38.886	-0.000	-0.001	-0.001
	11:DERZ3	7.193	2.081	44.754	45.376	0.001	0.001	0.001
	12:DERZ4	-6.428	-6.976	-47.347	48.288	-0.001	-0.001	0.001
162	5:DERX1	0.001	-3.478	0.001	3.478	0.002	0.000	0.004
	6:DERX2	-0.001	-3.557	-0.000	3.557	0.002	-0.000	-0.005
	7:DERZ1	0.001	-3.072	0.000	3.072	0.003	0.000	0.000
	8:DERZ2	-0.001	-3.963	-0.000	3.963	0.000	-0.000	-0.001
	9:DERX3	0.001	-2.055	0.001	2.055	0.001	0.000	0.004
	10:DERX4	-0.001	-2.134	-0.000	2.134	0.001	-0.000	-0.005
	11:DERZ3	0.001	-1.648	0.000	1.648	0.002	0.000	0.000
	12:DERZ4	-0.001	-2.540	-0.000	2.540	-0.000	-0.000	-0.001
164	5:DERX1	20.909	-1.163	0.891	20.960	0.001	0.000	0.005
	6:DERX2	-20.314	-1.867	-4.582	20.908	0.000	-0.000	-0.005
	7:DERZ1	2.903	-0.164	23.351	23.531	0.002	0.000	0.000
	8:DERZ2	-2.308	-2.867	-27.043	27.292	-0.001	-0.000	-0.001
	9:DERX3	20.851	-0.611	1.655	20.926	0.001	0.000	0.005
	10:DERX4	-20.372	-1.315	-3.817	20.768	0.000	-0.000	-0.005
	11:DERZ3	2.845	0.389	24.116	24.286	0.002	0.000	0.000
	12:DERZ4	-2.366	-2.314	-26.278	26.485	-0.001	-0.000	-0.001
166	5:DERX1	40.877	-1.956	2.707	41.013	0.001	0.001	0.005
	6:DERX2	-39.688	-3.353	-8.570	40.741	0.001	-0.001	-0.005
	7:DERZ1	5.841	0.309	46.402	46.769	0.002	0.001	0.001
	8:DERZ2	-4.653	-5.618	-52.265	52.771	0.000	-0.001	-0.001
	9:DERX3	40.758	-0.736	3.906	40.951	0.000	0.001	0.005
	10:DERX4	-39.808	-2.133	-7.371	40.540	0.000	-0.001	-0.005
	11:DERZ3	5.722	1.529	47.601	47.968	0.001	0.001	0.001
	12:DERZ4	-4.772	-4.398	-51.066	51.476	-0.000	-0.001	-0.001
168	5:DERX1	0.000	-4.532	0.001	4.532	0.002	0.000	0.001
	6:DERX2	-0.000	-5.045	-0.001	5.045	0.002	-0.000	-0.001
	7:DERZ1	0.000	-3.569	0.001	3.569	0.004	0.000	0.000
	8:DERZ2	-0.000	-6.007	-0.001	6.007	0.001	-0.000	-0.000
	9:DERX3	0.000	-1.979	0.001	1.979	0.001	0.000	0.001
	10:DERX4	-0.000	-2.492	-0.001	2.492	0.001	-0.000	-0.001
	11:DERZ3	0.000	-1.016	0.001	1.016	0.003	0.000	0.000
	12:DERZ4	-0.000	-3.455	-0.001	3.455	-0.001	-0.000	-0.000
169	5:DERX1	0.001	-4.116	0.000	4.116	0.002	0.000	0.004
	6:DERX2	-0.001	-4.258	-0.000	4.258	0.002	-0.000	-0.001
	7:DERZ1	0.001	-3.196	0.000	3.196	0.003	0.000	0.002
	8:DERZ2	-0.001	-5.178	-0.000	5.178	0.001	-0.000	0.001
	9:DERX3	0.001	-2.213	0.000	2.213	0.001	0.000	0.003
	10:DERX4	-0.001	-2.356	-0.000	2.356	0.001	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	0.001	-1.294	0.000	1.294	0.002	0.000	0.001
	12:DERZ4	-0.001	-3.276	-0.000	3.276	-0.000	-0.000	0.000
170	5:DERX1	20.911	-3.807	-0.817	21.271	0.002	0.000	0.002
	6:DERX2	-20.323	-4.270	-2.565	20.924	0.002	-0.000	-0.002
	7:DERZ1	2.903	-3.837	22.745	23.248	0.003	0.000	0.000
	8:DERZ2	-2.315	-4.241	-26.127	26.569	0.000	-0.000	-0.000
	9:DERX3	20.855	-2.275	-0.100	20.979	0.001	0.000	0.002
	10:DERX4	-20.379	-2.737	-1.849	20.645	0.001	-0.000	-0.002
	11:DERZ3	2.847	-2.304	23.461	23.746	0.003	0.000	0.000
	12:DERZ4	-2.371	-2.708	-25.410	25.664	-0.000	-0.000	-0.000
171	5:DERX1	20.911	-2.235	0.737	21.043	0.001	0.000	0.004
	6:DERX2	-20.329	-3.003	-3.798	20.898	0.001	-0.000	-0.001
	7:DERZ1	2.903	-2.172	22.237	22.531	0.002	0.000	0.002
	8:DERZ2	-2.321	-3.066	-25.298	25.589	-0.001	-0.000	0.001
	9:DERX3	20.856	-1.327	1.403	20.945	0.001	0.000	0.003
	10:DERX4	-20.384	-2.096	-3.131	20.729	0.000	-0.000	-0.002
	11:DERZ3	2.849	-1.265	22.904	23.115	0.002	0.000	0.001
	12:DERZ4	-2.376	-2.158	-24.632	24.840	-0.001	-0.000	0.000
172	5:DERX1	40.869	-5.511	-0.873	41.248	0.002	0.001	0.000
	6:DERX2	-39.669	-5.887	-4.320	40.336	0.002	-0.001	-0.000
	7:DERZ1	5.847	-4.632	44.898	45.514	0.003	0.001	-0.000
	8:DERZ2	-4.648	-6.766	-50.091	50.759	0.001	-0.001	-0.000
	9:DERX3	40.747	-2.527	0.217	40.826	0.001	0.001	0.000
	10:DERX4	-39.790	-2.903	-3.230	40.027	0.001	-0.001	-0.000
	11:DERZ3	5.726	-1.648	45.988	46.372	0.002	0.001	0.000
	12:DERZ4	-4.769	-3.782	-49.002	49.378	-0.001	-0.001	-0.000
173	5:DERX1	40.859	-2.913	2.192	41.021	0.001	0.001	0.004
	6:DERX2	-39.651	-4.330	-6.779	40.459	0.001	-0.001	-0.001
	7:DERZ1	5.850	-2.586	43.739	44.204	0.002	0.001	0.002
	8:DERZ2	-4.642	-4.657	-48.325	48.771	-0.001	-0.001	0.001
	9:DERX3	40.736	-1.262	3.184	40.879	0.001	0.001	0.003
	10:DERX4	-39.774	-2.679	-5.787	40.282	0.000	-0.001	-0.002
	11:DERZ3	5.727	-0.934	44.730	45.105	0.002	0.001	0.001
	12:DERZ4	-4.765	-3.006	-47.334	47.668	-0.001	-0.001	0.000
174	5:DERX1	0.000	0.651	0.001	0.651	0.000	0.000	0.005
	6:DERX2	-0.000	0.644	-0.001	0.644	0.000	-0.000	-0.005
	7:DERZ1	-0.000	0.676	0.001	0.676	0.001	0.000	0.000
	8:DERZ2	-0.000	0.618	-0.001	0.618	-0.001	-0.000	-0.000
	9:DERX3	0.000	0.361	0.001	0.361	0.000	0.000	0.005
	10:DERX4	-0.000	0.353	-0.001	0.353	-0.000	-0.000	-0.005
	11:DERZ3	0.000	0.386	0.001	0.386	0.001	0.000	0.000
	12:DERZ4	-0.000	0.328	-0.001	0.328	-0.001	-0.000	-0.000
175	5:DERX1	0.000	8.059	0.001	8.059	-0.000	0.000	0.003
	6:DERX2	-0.000	-8.935	-0.001	8.935	-0.001	-0.000	-0.004
	7:DERZ1	0.000	0.738	0.001	0.738	-0.000	0.000	-0.000
	8:DERZ2	-0.000	-1.613	-0.001	1.613	-0.001	-0.000	-0.001
	9:DERX3	0.000	8.078	0.001	8.078	0.000	0.000	0.003
	10:DERX4	-0.000	-8.917	-0.001	8.917	-0.001	-0.000	-0.004
	11:DERZ3	0.000	0.756	0.001	0.756	-0.000	0.000	0.000
	12:DERZ4	-0.000	-1.595	-0.001	1.595	-0.000	-0.000	-0.001
177	5:DERX1	22.576	8.361	1.768	24.139	0.000	0.000	0.004
	6:DERX2	-21.734	-13.181	-4.699	25.849	-0.001	-0.000	-0.005
	7:DERZ1	1.477	-1.132	22.142	22.220	-0.000	0.000	-0.000
	8:DERZ2	-0.635	-3.688	-25.072	25.350	-0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	22.479	9.068	2.414	24.359	0.000	0.000	0.004
	10:DERX4	-21.830	-12.474	-4.053	25.467	-0.001	-0.000	-0.005
	11:DERZ3	1.380	-0.425	22.788	22.833	0.000	0.000	-0.000
	12:DERZ4	-0.731	-2.981	-24.427	24.619	-0.000	-0.000	-0.001
179	5:DERX1	44.349	-0.453	2.063	44.399	0.000	0.001	0.005
	6:DERX2	-42.608	-1.813	-6.715	43.172	0.000	-0.001	-0.005
	7:DERZ1	3.037	1.298	43.672	43.797	0.001	0.001	0.000
	8:DERZ2	-1.296	-3.563	-48.325	48.473	-0.001	-0.001	-0.000
	9:DERX3	44.140	-0.073	3.066	44.247	0.000	0.001	0.005
	10:DERX4	-42.817	-1.433	-5.712	43.220	0.000	-0.001	-0.005
	11:DERZ3	2.828	1.677	44.675	44.796	0.001	0.001	0.000
	12:DERZ4	-1.505	-3.183	-47.322	47.452	-0.001	-0.001	-0.000
180	5:DERX1	0.000	1.302	0.001	1.302	0.000	0.000	0.000
	6:DERX2	-0.000	1.165	-0.001	1.165	0.000	-0.000	-0.001
	7:DERZ1	0.000	1.523	0.001	1.523	0.001	0.000	-0.000
	8:DERZ2	-0.000	0.945	-0.001	0.945	-0.000	-0.000	-0.000
	9:DERX3	0.000	0.598	0.001	0.598	0.000	0.000	0.000
	10:DERX4	-0.000	0.462	-0.001	0.462	0.000	-0.000	-0.001
	11:DERZ3	0.000	0.819	0.001	0.819	0.001	0.000	0.000
	12:DERZ4	-0.000	0.241	-0.001	0.241	-0.000	-0.000	-0.000
181	5:DERX1	0.000	0.852	0.001	0.852	0.000	0.000	0.004
	6:DERX2	-0.000	0.427	-0.000	0.427	-0.000	-0.000	-0.003
	7:DERZ1	0.000	2.692	0.000	2.692	0.001	0.000	0.001
	8:DERZ2	-0.000	-1.412	-0.000	1.412	-0.001	-0.000	0.000
	9:DERX3	0.000	0.542	0.000	0.542	0.000	0.000	0.003
	10:DERX4	-0.000	0.116	-0.000	0.116	-0.000	-0.000	-0.003
	11:DERZ3	0.000	2.381	0.000	2.381	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.723	-0.000	1.723	-0.001	-0.000	0.000
182	5:DERX1	22.577	-0.079	-0.820	22.592	0.000	0.000	0.001
	6:DERX2	-21.724	-0.684	-2.568	21.886	0.000	-0.000	-0.001
	7:DERZ1	1.477	-0.254	22.753	22.802	0.001	0.000	0.000
	8:DERZ2	-0.625	-0.509	-26.140	26.153	-0.001	-0.000	-0.000
	9:DERX3	22.478	0.190	-0.102	22.479	0.000	0.000	0.001
	10:DERX4	-21.823	-0.416	-1.850	21.906	0.000	-0.000	-0.001
	11:DERZ3	1.378	0.014	23.471	23.511	0.001	0.000	0.000
	12:DERZ4	-0.724	-0.240	-25.422	25.434	-0.001	-0.000	-0.000
183	5:DERX1	22.580	-0.188	0.748	22.593	0.000	0.000	0.004
	6:DERX2	-21.733	-1.209	-3.815	22.098	0.000	-0.000	-0.004
	7:DERZ1	1.477	1.408	22.257	22.350	0.001	0.000	0.000
	8:DERZ2	-0.630	-2.805	-25.324	25.486	-0.001	-0.000	-0.000
	9:DERX3	22.482	0.112	1.416	22.527	0.000	0.000	0.004
	10:DERX4	-21.830	-0.910	-3.147	22.075	-0.000	-0.000	-0.004
	11:DERZ3	1.380	1.707	22.925	23.029	0.001	0.000	0.000
	12:DERZ4	-0.728	-2.505	-24.656	24.793	-0.001	-0.000	-0.000
184	5:DERX1	44.365	0.440	-0.866	44.375	0.000	0.001	0.001
	6:DERX2	-42.640	-0.136	-4.295	42.856	0.000	-0.001	-0.000
	7:DERZ1	3.030	0.384	44.908	45.012	0.001	0.001	0.000
	8:DERZ2	-1.306	-0.080	-50.069	50.086	-0.000	-0.001	0.000
	9:DERX3	44.159	0.235	0.216	44.160	0.000	0.001	0.001
	10:DERX4	-42.846	-0.341	-3.212	42.968	0.000	-0.001	-0.000
	11:DERZ3	2.824	0.179	45.991	46.078	0.000	0.001	0.000
	12:DERZ4	-1.512	-0.285	-48.987	49.011	-0.000	-0.001	0.000
185	5:DERX1	0.001	-3.839	0.001	3.839	-0.002	0.000	0.005
	6:DERX2	-0.001	-4.074	-0.001	4.074	-0.002	-0.000	-0.006

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.001	-3.096	0.001	3.096	-0.001	0.000	0.000
	8:DERZ2	-0.001	-4.818	-0.000	4.818	-0.003	-0.000	-0.001
	9:DERX3	0.001	-2.201	0.001	2.201	-0.001	0.000	0.005
	10:DERX4	-0.001	-2.436	-0.001	2.436	-0.001	-0.000	-0.006
	11:DERZ3	0.001	-1.458	0.001	1.458	-0.000	0.000	0.000
	12:DERZ4	-0.001	-3.179	-0.001	3.179	-0.002	-0.000	-0.000
186	5:DERX1	0.000	4.533	0.001	4.533	-0.001	0.000	0.004
	6:DERX2	-0.000	-13.659	-0.001	13.659	-0.001	-0.000	-0.004
	7:DERZ1	0.000	-3.939	0.001	3.939	-0.001	0.000	0.001
	8:DERZ2	-0.000	-5.187	-0.001	5.187	-0.002	-0.000	-0.001
	9:DERX3	0.000	6.654	0.001	6.654	-0.000	0.000	0.004
	10:DERX4	-0.000	-11.538	-0.001	11.538	-0.001	-0.000	-0.004
	11:DERZ3	0.000	-1.818	0.001	1.818	-0.000	0.000	0.001
	12:DERZ4	-0.000	-3.066	-0.001	3.066	-0.001	-0.000	-0.002
187	5:DERX1	24.313	-1.818	0.896	24.397	-0.001	0.000	0.006
	6:DERX2	-23.185	-2.085	-4.624	23.733	-0.001	-0.000	-0.006
	7:DERZ1	1.844	0.040	23.343	23.416	-0.000	0.000	0.000
	8:DERZ2	-0.716	-3.942	-27.070	27.365	-0.002	-0.000	-0.000
	9:DERX3	24.169	-1.086	1.669	24.250	-0.000	0.000	0.006
	10:DERX4	-23.329	-1.353	-3.851	23.684	-0.001	-0.000	-0.006
	11:DERZ3	1.700	0.771	24.116	24.188	0.000	0.000	0.000
	12:DERZ4	-0.861	-3.211	-26.298	26.507	-0.001	-0.000	-0.000
188	5:DERX1	24.322	5.979	1.781	25.109	-0.001	0.000	0.004
	6:DERX2	-23.203	-16.069	-4.714	28.615	-0.001	-0.000	-0.005
	7:DERZ1	1.841	-4.292	22.163	22.649	-0.000	0.000	0.001
	8:DERZ2	-0.723	-5.797	-25.096	25.767	-0.001	-0.000	-0.002
	9:DERX3	24.179	7.403	2.426	25.403	-0.000	0.000	0.004
	10:DERX4	-23.346	-14.645	-4.069	27.857	-0.001	-0.000	-0.005
	11:DERZ3	1.699	-2.869	22.808	23.051	-0.000	0.000	0.001
	12:DERZ4	-0.865	-4.373	-24.450	24.853	-0.001	-0.000	-0.002
189	5:DERX1	47.461	-2.944	2.453	47.615	-0.001	0.001	0.006
	6:DERX2	-45.466	-3.539	-7.878	46.279	-0.001	-0.001	-0.006
	7:DERZ1	3.409	0.329	46.677	46.803	-0.001	0.001	0.000
	8:DERZ2	-1.414	-6.812	-52.102	52.564	-0.001	-0.001	-0.000
	9:DERX3	47.218	-1.429	3.564	47.374	-0.001	0.001	0.006
	10:DERX4	-45.708	-2.024	-6.767	46.251	-0.001	-0.001	-0.006
	11:DERZ3	3.167	1.844	47.788	47.929	-0.000	0.001	0.000
	12:DERZ4	-1.657	-5.297	-50.991	51.292	-0.001	-0.001	-0.000
190	5:DERX1	47.463	-2.530	1.925	47.569	-0.001	0.001	0.005
	6:DERX2	-45.412	-3.170	-6.659	46.007	-0.001	-0.001	-0.006
	7:DERZ1	3.438	0.720	43.629	43.770	-0.001	0.001	-0.000
	8:DERZ2	-1.387	-6.419	-48.363	48.807	-0.001	-0.001	-0.001
	9:DERX3	47.210	-1.208	2.943	47.317	-0.001	0.001	0.005
	10:DERX4	-45.665	-1.848	-5.641	46.049	-0.001	-0.001	-0.006
	11:DERZ3	3.185	2.041	44.647	44.807	-0.001	0.001	0.000
	12:DERZ4	-1.640	-5.098	-47.345	47.647	-0.001	-0.001	-0.000
191	5:DERX1	0.000	-5.033	0.000	5.033	-0.003	0.000	0.000
	6:DERX2	-0.000	-5.865	-0.000	5.865	-0.003	-0.000	-0.000
	7:DERZ1	0.000	-4.955	0.000	4.955	-0.002	0.000	0.000
	8:DERZ2	-0.000	-5.943	-0.000	5.943	-0.004	-0.000	-0.000
	9:DERX3	0.000	-2.009	0.000	2.009	-0.001	0.000	0.000
	10:DERX4	-0.000	-2.842	-0.000	2.842	-0.002	-0.000	-0.000
	11:DERZ3	0.000	-1.931	0.000	1.931	-0.001	0.000	0.000
	12:DERZ4	-0.000	-2.920	-0.000	2.920	-0.002	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
192	5:DERX1	0.000	-4.423	0.001	4.423	-0.002	0.000	0.004
	6:DERX2	-0.000	-5.053	-0.000	5.053	-0.003	-0.000	-0.002
	7:DERZ1	0.000	-1.508	0.000	1.508	-0.002	0.000	0.001
	8:DERZ2	-0.000	-7.968	-0.000	7.968	-0.003	-0.000	0.001
	9:DERX3	0.000	-1.912	0.001	1.912	-0.001	0.000	0.004
	10:DERX4	-0.000	-2.542	-0.000	2.542	-0.002	-0.000	-0.003
	11:DERZ3	0.000	1.003	0.000	1.003	-0.001	0.000	0.001
	12:DERZ4	-0.000	-5.457	-0.000	5.457	-0.002	-0.000	-0.000
193	5:DERX1	24.321	-4.506	-0.826	24.749	-0.002	0.000	0.002
	6:DERX2	-23.197	-5.431	-2.574	23.963	-0.003	-0.000	-0.002
	7:DERZ1	1.843	-3.275	22.762	23.070	-0.002	0.000	0.000
	8:DERZ2	-0.719	-6.662	-26.162	27.006	-0.003	-0.000	-0.000
	9:DERX3	24.178	-2.576	-0.105	24.315	-0.001	0.000	0.002
	10:DERX4	-23.340	-3.501	-1.853	23.674	-0.002	-0.000	-0.002
	11:DERZ3	1.700	-1.345	23.483	23.582	-0.001	0.000	0.000
	12:DERZ4	-0.862	-4.732	-25.441	25.892	-0.002	-0.000	-0.000
194	5:DERX1	24.322	-3.347	0.749	24.563	-0.002	0.000	0.004
	6:DERX2	-23.203	-4.142	-3.832	23.880	-0.002	-0.000	-0.004
	7:DERZ1	1.841	0.064	22.284	22.360	-0.002	0.000	0.001
	8:DERZ2	-0.722	-7.553	-25.367	26.477	-0.002	-0.000	-0.000
	9:DERX3	24.180	-2.036	1.420	24.307	-0.001	0.000	0.004
	10:DERX4	-23.346	-2.830	-3.161	23.728	-0.001	-0.000	-0.004
	11:DERZ3	1.698	1.375	22.955	23.059	-0.001	0.000	0.001
	12:DERZ4	-0.865	-6.241	-24.696	25.487	-0.001	-0.000	-0.000
195	5:DERX1	47.456	-8.177	-0.855	48.163	-0.004	0.001	0.000
	6:DERX2	-45.437	-8.271	-4.268	46.381	-0.004	-0.001	-0.000
	7:DERZ1	3.421	-7.678	44.951	45.730	-0.003	0.001	0.000
	8:DERZ2	-1.402	-8.770	-50.074	50.855	-0.005	-0.001	-0.000
	9:DERX3	47.209	-3.809	0.219	47.363	-0.002	0.001	0.000
	10:DERX4	-45.684	-3.904	-3.194	45.962	-0.002	-0.001	-0.000
	11:DERZ3	3.174	-3.310	46.025	46.253	-0.001	0.001	0.000
	12:DERZ4	-1.649	-4.402	-49.000	49.225	-0.002	-0.001	-0.000
196	5:DERX1	0.000	-6.783	0.001	6.783	-0.000	0.000	0.005
	6:DERX2	-0.000	-7.253	-0.001	7.253	-0.001	-0.000	-0.006
	7:DERZ1	0.000	-4.294	0.001	4.294	0.002	0.000	0.000
	8:DERZ2	-0.000	-9.742	-0.001	9.742	-0.003	-0.000	-0.001
	9:DERX3	0.000	-3.890	0.001	3.890	-0.000	0.000	0.005
	10:DERX4	-0.000	-4.360	-0.001	4.360	-0.001	-0.000	-0.006
	11:DERZ3	0.000	-1.401	0.001	1.401	0.002	0.000	0.000
	12:DERZ4	-0.000	-6.849	-0.001	6.849	-0.003	-0.000	-0.001
197	5:DERX1	0.001	3.161	0.001	3.161	0.000	0.000	0.005
	6:DERX2	-0.001	-15.667	-0.001	15.667	-0.001	-0.000	-0.003
	7:DERZ1	0.001	-4.665	0.001	4.665	0.001	0.000	0.002
	8:DERZ2	-0.001	-7.841	-0.001	7.841	-0.002	-0.000	0.000
	9:DERX3	0.001	6.155	0.001	6.155	0.000	0.000	0.004
	10:DERX4	-0.001	-12.673	-0.001	12.673	-0.001	-0.000	-0.003
	11:DERZ3	0.001	-1.671	0.001	1.671	0.001	0.000	0.001
	12:DERZ4	-0.001	-4.847	-0.001	4.847	-0.001	-0.000	-0.001
198	5:DERX1	25.096	-2.764	0.892	25.264	0.000	0.000	0.006
	6:DERX2	-23.846	-3.426	-4.629	24.531	-0.000	-0.000	-0.006
	7:DERZ1	2.544	-1.492	23.359	23.544	0.002	0.000	0.000
	8:DERZ2	-1.294	-4.697	-27.095	27.530	-0.003	-0.000	-0.001
	9:DERX3	24.932	-1.600	1.667	25.039	0.000	0.000	0.006
	10:DERX4	-24.010	-2.262	-3.854	24.423	-0.000	-0.000	-0.006

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	2.380	-0.329	24.134	24.253	0.002	0.000	0.000
	12:DERZ4	-1.458	-3.534	-26.320	26.596	-0.003	-0.000	-0.001
199	5:DERX1	25.098	4.710	1.780	25.598	0.000	0.000	0.004
	6:DERX2	-23.858	-17.311	-4.716	29.851	-0.000	-0.000	-0.005
	7:DERZ1	2.540	-4.479	22.172	22.762	0.001	0.000	0.001
	8:DERZ2	-1.300	-8.122	-25.108	26.421	-0.002	-0.000	-0.001
	9:DERX3	24.935	6.474	2.426	25.876	0.000	0.000	0.004
	10:DERX4	-24.020	-15.547	-4.070	28.901	-0.000	-0.000	-0.005
	11:DERZ3	2.377	-2.715	22.818	23.102	0.001	0.000	0.001
	12:DERZ4	-1.462	-6.358	-24.462	25.317	-0.002	-0.000	-0.001
200	5:DERX1	48.685	-4.672	2.451	48.970	-0.000	0.001	0.006
	6:DERX2	-46.615	-5.350	-7.854	47.574	-0.001	-0.001	-0.006
	7:DERZ1	4.702	-4.245	46.697	47.125	0.002	0.001	0.000
	8:DERZ2	-2.632	-5.776	-52.099	52.485	-0.003	-0.001	-0.000
	9:DERX3	48.435	-2.253	3.558	48.617	0.000	0.001	0.006
	10:DERX4	-46.865	-2.931	-6.747	47.439	-0.000	-0.001	-0.006
	11:DERZ3	4.452	-1.826	47.803	48.045	0.002	0.001	0.000
	12:DERZ4	-2.882	-3.357	-50.993	51.185	-0.002	-0.001	-0.000
201	5:DERX1	48.703	-4.185	1.886	48.919	-0.000	0.001	0.005
	6:DERX2	-46.602	-4.904	-6.640	47.328	-0.001	-0.001	-0.006
	7:DERZ1	4.717	-3.457	43.629	44.019	0.002	0.001	0.000
	8:DERZ2	-2.617	-5.632	-48.383	48.780	-0.002	-0.001	-0.001
	9:DERX3	48.446	-1.996	2.908	48.575	-0.000	0.001	0.005
	10:DERX4	-46.859	-2.715	-5.618	47.272	-0.000	-0.001	-0.006
	11:DERZ3	4.461	-1.268	44.651	44.891	0.002	0.001	0.000
	12:DERZ4	-2.873	-3.443	-47.361	47.573	-0.002	-0.001	-0.001
202	5:DERX1	0.000	-8.734	0.000	8.734	-0.001	0.000	0.000
	6:DERX2	-0.000	-10.411	-0.000	10.411	-0.001	-0.000	-0.000
	7:DERZ1	0.000	-7.663	0.000	7.663	0.001	0.000	0.000
	8:DERZ2	-0.000	-11.483	-0.000	11.483	-0.002	-0.000	-0.000
	9:DERX3	0.000	-3.354	0.000	3.354	-0.000	0.000	0.000
	10:DERX4	-0.000	-5.031	-0.000	5.031	-0.000	-0.000	-0.000
	11:DERZ3	0.000	-2.283	0.000	2.283	0.001	0.000	0.000
	12:DERZ4	-0.000	-6.102	-0.000	6.102	-0.002	-0.000	-0.000
203	5:DERX1	0.001	-7.929	0.001	7.929	-0.001	0.000	0.005
	6:DERX2	-0.001	-9.906	-0.000	9.906	-0.001	-0.000	-0.001
	7:DERZ1	0.001	-8.794	0.000	8.794	0.001	0.000	0.002
	8:DERZ2	-0.001	-9.041	-0.000	9.041	-0.003	-0.000	0.001
	9:DERX3	0.001	-3.174	0.001	3.174	-0.000	0.000	0.004
	10:DERX4	-0.001	-5.151	-0.000	5.151	-0.001	-0.000	-0.002
	11:DERZ3	0.001	-4.039	0.000	4.039	0.002	0.000	0.001
	12:DERZ4	-0.001	-4.286	-0.000	4.286	-0.003	-0.000	0.000
204	5:DERX1	25.095	-7.680	-0.830	26.257	-0.001	0.000	0.001
	6:DERX2	-23.850	-9.436	-2.578	25.778	-0.001	-0.000	-0.001
	7:DERZ1	2.542	-7.438	22.764	24.083	0.001	0.000	0.000
	8:DERZ2	-1.297	-9.678	-26.172	27.934	-0.003	-0.000	-0.000
	9:DERX3	24.932	-4.362	-0.107	25.311	-0.000	0.000	0.001
	10:DERX4	-24.013	-6.118	-1.856	24.850	-0.001	-0.000	-0.001
	11:DERZ3	2.379	-4.120	23.487	23.964	0.001	0.000	0.000
	12:DERZ4	-1.460	-6.360	-25.450	26.273	-0.002	-0.000	-0.000
205	5:DERX1	25.098	-5.639	0.751	25.734	-0.000	0.000	0.004
	6:DERX2	-23.857	-7.495	-3.834	25.299	-0.001	-0.000	-0.003
	7:DERZ1	2.540	-5.900	22.300	23.207	0.002	0.000	0.001
	8:DERZ2	-1.300	-7.234	-25.383	26.426	-0.003	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	24.935	-3.349	1.422	25.199	-0.000	0.000	0.004
	10:DERX4	-24.020	-5.205	-3.164	24.780	-0.001	-0.000	-0.003
	11:DERZ3	2.378	-3.610	22.970	23.374	0.002	0.000	0.001
	12:DERZ4	-1.462	-4.945	-24.713	25.245	-0.003	-0.000	-0.000
206	5:DERX1	48.700	-14.101	-0.849	50.708	-0.002	0.001	0.000
	6:DERX2	-46.613	-14.352	-4.259	48.958	-0.002	-0.001	-0.000
	7:DERZ1	4.710	-12.503	44.973	46.916	-0.000	0.001	0.000
	8:DERZ2	-2.623	-15.950	-50.081	52.625	-0.003	-0.001	-0.000
	9:DERX3	48.447	-6.481	0.221	48.879	-0.001	0.001	0.000
	10:DERX4	-46.867	-6.731	-3.189	47.455	-0.001	-0.001	-0.000
	11:DERZ3	4.457	-4.882	46.043	46.515	0.001	0.001	0.000
	12:DERZ4	-2.877	-8.329	-49.010	49.796	-0.002	-0.001	-0.000
207	5:DERX1	0.002	-5.525	0.001	5.525	0.002	0.000	0.005
	6:DERX2	-0.002	-6.803	-0.001	6.803	0.001	-0.000	-0.006
	7:DERZ1	0.002	0.542	0.001	0.542	0.003	0.000	0.000
	8:DERZ2	-0.002	-12.871	-0.001	12.871	0.000	-0.000	-0.001
	9:DERX3	0.002	-2.985	0.001	2.985	0.001	0.000	0.006
	10:DERX4	-0.002	-4.263	-0.001	4.263	0.001	-0.000	-0.006
	11:DERZ3	0.002	3.082	0.001	3.082	0.002	0.000	0.000
	12:DERZ4	-0.002	-10.331	-0.001	10.331	-0.001	-0.000	-0.001
208	5:DERX1	0.001	4.583	0.001	4.583	0.001	0.000	0.005
	6:DERX2	-0.001	-16.183	-0.001	16.183	0.000	-0.000	-0.003
	7:DERZ1	0.001	-2.098	0.001	2.098	0.001	0.000	0.002
	8:DERZ2	-0.001	-9.502	-0.001	9.502	0.000	-0.000	0.000
	9:DERX3	0.001	7.376	0.001	7.376	0.001	0.000	0.004
	10:DERX4	-0.001	-13.390	-0.001	13.390	-0.000	-0.000	-0.004
	11:DERZ3	0.001	0.695	0.001	0.695	0.001	0.000	0.001
	12:DERZ4	-0.001	-6.709	-0.001	6.709	-0.000	-0.000	-0.000
209	5:DERX1	25.874	-1.927	0.885	25.961	0.001	0.000	0.006
	6:DERX2	-24.498	-3.486	-4.629	25.174	0.000	-0.000	-0.006
	7:DERZ1	3.298	3.430	23.370	23.850	0.002	0.000	0.000
	8:DERZ2	-1.922	-8.844	-27.115	28.585	-0.001	-0.000	-0.001
	9:DERX3	25.688	-0.914	1.662	25.758	0.001	0.000	0.006
	10:DERX4	-24.684	-2.473	-3.852	25.105	0.000	-0.000	-0.006
	11:DERZ3	3.112	4.443	24.147	24.749	0.002	0.000	0.000
	12:DERZ4	-2.108	-7.830	-26.338	27.558	-0.001	-0.000	-0.001
210	5:DERX1	25.872	6.074	1.776	26.634	0.001	0.000	0.005
	6:DERX2	-24.510	-17.506	-4.715	30.486	0.000	-0.000	-0.005
	7:DERZ1	3.291	-1.260	22.181	22.459	0.002	0.000	0.001
	8:DERZ2	-1.930	-10.172	-25.119	27.169	-0.000	-0.000	-0.000
	9:DERX3	25.689	7.641	2.422	26.910	0.001	0.000	0.005
	10:DERX4	-24.693	-15.939	-4.069	29.671	-0.000	-0.000	-0.005
	11:DERZ3	3.109	0.307	22.827	23.039	0.001	0.000	0.000
	12:DERZ4	-2.113	-8.605	-24.473	26.028	-0.000	-0.000	-0.001
211	5:DERX1	49.911	-3.891	2.451	50.122	0.001	0.001	0.006
	6:DERX2	-47.785	-5.334	-7.835	48.716	0.001	-0.001	-0.006
	7:DERZ1	6.102	-0.805	46.709	47.112	0.003	0.001	0.001
	8:DERZ2	-3.975	-8.420	-52.093	52.918	-0.001	-0.001	-0.000
	9:DERX3	49.657	-1.652	3.554	49.811	0.001	0.001	0.006
	10:DERX4	-48.039	-3.095	-6.733	48.607	0.000	-0.001	-0.006
	11:DERZ3	5.847	1.435	47.811	48.189	0.002	0.001	0.001
	12:DERZ4	-4.230	-6.181	-50.990	51.537	-0.002	-0.001	-0.001
212	5:DERX1	49.931	-3.723	1.860	50.104	0.001	0.001	0.005
	6:DERX2	-47.769	-4.947	-6.623	48.479	0.000	-0.001	-0.005

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	6.118	-1.237	43.633	44.078	0.002	0.001	0.000
	8:DERZ2	-3.957	-7.433	-48.397	49.124	-0.001	-0.001	-0.001
	9:DERX3	49.669	-1.631	2.884	49.780	0.000	0.001	0.005
	10:DERX4	-48.031	-2.855	-5.599	48.440	0.000	-0.001	-0.005
	11:DERZ3	5.857	0.855	44.657	45.048	0.002	0.001	0.000
	12:DERZ4	-4.218	-5.341	-47.373	47.859	-0.001	-0.001	-0.001
213	5:DERX1	0.001	-7.496	0.000	7.496	0.002	0.000	0.000
	6:DERX2	-0.001	-9.298	-0.000	9.298	0.002	-0.000	-0.000
	7:DERZ1	0.001	-3.846	0.000	3.846	0.003	0.000	0.000
	8:DERZ2	-0.001	-12.948	-0.000	12.948	0.001	-0.000	-0.000
	9:DERX3	0.001	-2.637	0.000	2.637	0.001	0.000	0.000
	10:DERX4	-0.001	-4.440	-0.000	4.440	0.001	-0.000	-0.000
	11:DERZ3	0.001	1.012	0.000	1.012	0.002	0.000	0.000
	12:DERZ4	-0.001	-8.089	-0.000	8.089	0.000	-0.000	-0.000
214	5:DERX1	0.001	-6.876	0.001	6.876	0.002	0.000	0.005
	6:DERX2	-0.001	-9.508	-0.001	9.508	0.002	-0.000	-0.002
	7:DERZ1	0.001	-3.697	0.001	3.697	0.004	0.000	0.002
	8:DERZ2	-0.001	-12.687	-0.001	12.687	-0.000	-0.000	0.001
	9:DERX3	0.001	-2.463	0.001	2.463	0.001	0.000	0.004
	10:DERX4	-0.001	-5.095	-0.001	5.095	0.001	-0.000	-0.003
	11:DERZ3	0.001	0.716	0.001	0.716	0.003	0.000	0.001
	12:DERZ4	-0.001	-8.274	-0.001	8.274	-0.001	-0.000	0.000
215	5:DERX1	25.871	-7.045	-0.834	26.826	0.002	0.000	0.001
	6:DERX2	-24.502	-8.784	-2.582	26.157	0.001	-0.000	-0.001
	7:DERZ1	3.295	-3.207	22.766	23.226	0.003	0.000	0.000
	8:DERZ2	-1.926	-12.623	-26.182	29.130	0.000	-0.000	-0.000
	9:DERX3	25.687	-3.971	-0.110	25.992	0.001	0.000	0.001
	10:DERX4	-24.686	-5.710	-1.858	25.406	0.001	-0.000	-0.001
	11:DERZ3	3.111	-0.132	23.490	23.696	0.002	0.000	0.000
	12:DERZ4	-2.110	-9.548	-25.458	27.272	-0.000	-0.000	-0.000
216	5:DERX1	25.872	-4.831	0.751	26.330	0.001	0.000	0.005
	6:DERX2	-24.510	-7.385	-3.836	25.884	0.001	-0.000	-0.003
	7:DERZ1	3.292	-1.931	22.311	22.635	0.003	0.000	0.001
	8:DERZ2	-1.930	-10.285	-25.396	27.468	-0.001	-0.000	0.000
	9:DERX3	25.689	-2.717	1.421	25.871	0.001	0.000	0.004
	10:DERX4	-24.693	-5.270	-3.166	25.446	0.001	-0.000	-0.003
	11:DERZ3	3.109	0.184	22.981	23.191	0.003	0.000	0.001
	12:DERZ4	-2.113	-8.171	-24.726	26.126	-0.001	-0.000	-0.000
217	5:DERX1	49.927	-13.799	-0.844	51.805	0.002	0.001	0.001
	6:DERX2	-47.780	-14.179	-4.252	50.021	0.002	-0.001	-0.001
	7:DERZ1	6.111	-9.844	44.987	46.455	0.003	0.001	0.000
	8:DERZ2	-3.965	-18.135	-50.082	53.412	0.001	-0.001	-0.000
	9:DERX3	49.668	-6.285	0.223	50.065	0.001	0.001	0.001
	10:DERX4	-48.038	-6.665	-3.185	48.603	0.001	-0.001	-0.001
	11:DERZ3	5.853	-2.329	46.054	46.482	0.002	0.001	0.000
	12:DERZ4	-4.223	-10.620	-49.015	50.330	0.000	-0.001	-0.000
218	5:DERX1	0.004	-1.568	0.001	1.568	0.002	0.000	0.006
	6:DERX2	-0.004	-2.942	-0.001	2.942	0.002	-0.000	-0.006
	7:DERZ1	0.003	4.786	0.001	4.786	0.004	0.000	0.000
	8:DERZ2	-0.004	-9.296	-0.001	9.296	0.001	-0.000	-0.001
	9:DERX3	0.004	-0.633	0.001	0.633	0.001	0.000	0.006
	10:DERX4	-0.004	-2.007	-0.001	2.007	0.001	-0.000	-0.006
	11:DERZ3	0.003	5.721	0.001	5.721	0.003	0.000	0.001
	12:DERZ4	-0.004	-8.361	-0.001	8.361	-0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
219	5:DERX1	0.002	7.653	0.003	7.653	0.001	0.000	0.004
	6:DERX2	-0.002	-15.370	-0.002	15.370	0.001	-0.000	-0.005
	7:DERZ1	0.001	-0.294	0.002	0.294	0.002	0.000	0.001
	8:DERZ2	-0.002	-7.424	-0.002	7.424	-0.000	-0.000	-0.002
	9:DERX3	0.002	9.476	0.003	9.476	0.001	0.000	0.004
	10:DERX4	-0.002	-13.548	-0.002	13.548	0.000	-0.000	-0.005
	11:DERZ3	0.001	1.529	0.002	1.529	0.002	0.000	0.001
	12:DERZ4	-0.002	-5.601	-0.002	5.601	-0.001	-0.000	-0.002
220	5:DERX1	26.647	-0.276	0.876	26.663	0.001	0.000	0.006
	6:DERX2	-25.142	-2.038	-4.625	25.645	0.001	-0.000	-0.006
	7:DERZ1	4.072	5.828	23.380	24.437	0.002	0.000	0.000
	8:DERZ2	-2.567	-8.143	-27.129	28.441	-0.001	-0.000	-0.001
	9:DERX3	26.439	0.149	1.655	26.492	0.001	0.000	0.006
	10:DERX4	-25.349	-1.614	-3.847	25.690	0.000	-0.000	-0.006
	11:DERZ3	3.864	6.253	24.158	25.252	0.002	0.000	0.001
	12:DERZ4	-2.774	-7.718	-26.351	27.597	-0.001	-0.000	-0.001
221	5:DERX1	26.642	9.238	1.772	28.254	0.002	0.000	0.005
	6:DERX2	-25.161	-16.671	-4.713	30.548	0.001	-0.000	-0.006
	7:DERZ1	4.062	0.888	22.188	22.574	0.002	0.000	0.001
	8:DERZ2	-2.580	-8.321	-25.129	26.596	-0.000	-0.000	-0.002
	9:DERX3	26.439	10.220	2.418	28.448	0.001	0.000	0.005
	10:DERX4	-25.364	-15.688	-4.067	30.099	0.000	-0.000	-0.006
	11:DERZ3	3.859	1.870	22.834	23.233	0.002	0.000	0.001
	12:DERZ4	-2.783	-7.339	-24.483	25.710	-0.001	-0.000	-0.001
222	5:DERX1	51.129	-1.526	2.455	51.211	0.001	0.001	0.006
	6:DERX2	-48.972	-3.279	-7.828	49.702	0.001	-0.001	-0.006
	7:DERZ1	7.531	3.047	46.712	47.413	0.002	0.001	0.001
	8:DERZ2	-5.373	-7.852	-52.085	52.947	0.000	-0.001	-0.001
	9:DERX3	50.875	-0.387	3.555	51.001	0.001	0.001	0.006
	10:DERX4	-49.226	-2.140	-6.728	49.729	0.001	-0.001	-0.006
	11:DERZ3	7.277	4.186	47.812	48.543	0.001	0.001	0.001
	12:DERZ4	-5.627	-6.714	-50.985	51.732	-0.000	-0.001	-0.001
223	5:DERX1	51.148	-1.678	1.848	51.209	0.001	0.001	0.005
	6:DERX2	-48.909	-3.107	-6.612	49.452	0.001	-0.001	-0.005
	7:DERZ1	7.568	2.288	43.642	44.352	0.002	0.001	0.001
	8:DERZ2	-5.329	-7.072	-48.406	49.209	0.000	-0.001	-0.001
	9:DERX3	50.879	-0.567	2.872	50.963	0.001	0.001	0.005
	10:DERX4	-49.178	-1.996	-5.588	49.535	0.000	-0.001	-0.005
	11:DERZ3	7.299	3.399	44.666	45.385	0.001	0.001	0.001
	12:DERZ4	-5.598	-5.961	-47.382	48.082	-0.000	-0.001	-0.001
224	5:DERX1	0.001	-2.567	0.000	2.567	0.003	0.000	0.001
	6:DERX2	-0.001	-3.642	-0.000	3.642	0.003	-0.000	-0.000
	7:DERZ1	0.001	1.632	0.000	1.632	0.004	0.000	0.000
	8:DERZ2	-0.001	-7.841	-0.000	7.841	0.002	-0.000	-0.000
	9:DERX3	0.001	-0.585	0.000	0.585	0.001	0.000	0.001
	10:DERX4	-0.001	-1.660	-0.000	1.660	0.001	-0.000	-0.000
	11:DERZ3	0.001	3.614	0.000	3.614	0.002	0.000	0.000
	12:DERZ4	-0.001	-5.859	-0.000	5.859	0.000	-0.000	-0.000
225	5:DERX1	0.002	-2.374	0.001	2.374	0.003	0.000	0.005
	6:DERX2	-0.002	-4.193	-0.001	4.193	0.002	-0.000	-0.003
	7:DERZ1	0.001	2.713	0.001	2.713	0.004	0.000	0.002
	8:DERZ2	-0.002	-9.280	-0.001	9.280	0.002	-0.000	0.000
	9:DERX3	0.002	-0.550	0.001	0.550	0.002	0.000	0.004
	10:DERX4	-0.002	-2.370	-0.001	2.370	0.001	-0.000	-0.004

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	0.001	4.537	0.001	4.537	0.002	0.000	0.001
	12:DERZ4	-0.002	-7.457	-0.001	7.457	0.000	-0.000	-0.000
226	5:DERX1	26.644	-3.259	-0.839	26.856	0.003	0.000	0.001
	6:DERX2	-25.152	-4.171	-2.587	25.627	0.002	-0.000	-0.001
	7:DERZ1	4.067	1.702	22.766	23.189	0.003	0.000	0.000
	8:DERZ2	-2.574	-9.132	-26.193	27.858	0.001	-0.000	0.000
	9:DERX3	26.439	-1.805	-0.112	26.501	0.002	0.000	0.001
	10:DERX4	-25.357	-2.717	-1.861	25.570	0.001	-0.000	-0.001
	11:DERZ3	3.862	3.156	23.493	24.017	0.002	0.000	0.000
	12:DERZ4	-2.779	-7.678	-25.466	26.743	0.000	-0.000	-0.000
227	5:DERX1	26.644	-1.790	0.747	26.714	0.002	0.000	0.005
	6:DERX2	-25.161	-3.834	-3.836	25.739	0.002	-0.000	-0.004
	7:DERZ1	4.063	3.031	22.318	22.886	0.003	0.000	0.001
	8:DERZ2	-2.580	-8.655	-25.407	26.964	0.001	-0.000	-0.000
	9:DERX3	26.440	-0.835	1.418	26.492	0.001	0.000	0.005
	10:DERX4	-25.364	-2.880	-3.166	25.723	0.001	-0.000	-0.004
	11:DERZ3	3.860	3.986	22.988	23.648	0.002	0.000	0.001
	12:DERZ4	-2.783	-7.701	-24.736	26.056	0.000	-0.000	-0.001
228	5:DERX1	51.146	-7.601	-0.838	51.715	0.004	0.001	0.001
	6:DERX2	-48.942	-7.932	-4.245	49.762	0.004	-0.001	-0.001
	7:DERZ1	7.553	-3.514	44.997	45.762	0.005	0.001	0.000
	8:DERZ2	-5.349	-12.019	-50.080	51.779	0.003	-0.001	-0.000
	9:DERX3	50.883	-3.445	0.226	51.000	0.002	0.001	0.001
	10:DERX4	-49.205	-3.777	-3.181	49.452	0.002	-0.001	-0.001
	11:DERZ3	7.290	0.641	46.061	46.638	0.003	0.001	0.000
	12:DERZ4	-5.612	-7.863	-49.016	49.959	0.001	-0.001	-0.000
229	5:DERX1	0.005	-4.554	0.001	4.554	-0.004	0.000	0.003
	6:DERX2	-0.004	-5.995	-0.001	5.995	-0.004	-0.000	-0.005
	7:DERZ1	0.004	6.934	0.001	6.934	0.002	0.000	-0.000
	8:DERZ2	-0.004	-17.484	-0.000	17.484	-0.010	-0.000	-0.001
	9:DERX3	0.005	-2.494	0.001	2.494	-0.002	0.000	0.004
	10:DERX4	-0.004	-3.935	-0.001	3.935	-0.003	-0.000	-0.005
	11:DERZ3	0.004	8.995	0.001	8.995	0.004	0.000	0.000
	12:DERZ4	-0.004	-15.423	-0.001	15.423	-0.008	-0.000	-0.001
230	5:DERX1	0.003	3.475	0.004	3.475	-0.001	0.000	0.003
	6:DERX2	-0.003	-15.041	-0.004	15.041	-0.003	-0.000	-0.004
	7:DERZ1	0.003	5.121	0.004	5.121	0.003	0.000	0.000
	8:DERZ2	-0.003	-16.688	-0.003	16.688	-0.007	-0.000	-0.001
	9:DERX3	0.003	6.014	0.004	6.014	0.000	0.000	0.004
	10:DERX4	-0.003	-12.502	-0.004	12.502	-0.002	-0.000	-0.004
	11:DERZ3	0.003	7.661	0.004	7.661	0.004	0.000	0.000
	12:DERZ4	-0.003	-14.149	-0.003	14.149	-0.006	-0.000	-0.001
231	5:DERX1	0.002	-6.378	0.001	6.378	-0.005	0.000	0.000
	6:DERX2	-0.002	-7.324	-0.000	7.324	-0.005	-0.000	-0.000
	7:DERZ1	0.002	2.600	0.001	2.600	0.000	0.000	0.000
	8:DERZ2	-0.002	-16.303	-0.000	16.303	-0.010	-0.000	-0.000
	9:DERX3	0.002	-3.601	0.000	3.601	-0.003	0.000	0.000
	10:DERX4	-0.002	-4.547	-0.000	4.547	-0.003	-0.000	-0.000
	11:DERZ3	0.002	5.378	0.000	5.378	0.002	0.000	0.000
	12:DERZ4	-0.002	-13.526	-0.000	13.526	-0.008	-0.000	-0.000
232	5:DERX1	0.003	-4.656	0.001	4.656	-0.003	0.000	0.004
	6:DERX2	-0.003	-6.526	-0.001	6.526	-0.005	-0.000	-0.003
	7:DERZ1	0.003	5.495	0.001	5.495	0.001	0.000	0.001
	8:DERZ2	-0.002	-16.677	-0.001	16.677	-0.009	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	0.003	-2.186	0.001	2.186	-0.001	0.000	0.004
	10:DERX4	-0.003	-4.056	-0.001	4.056	-0.003	-0.000	-0.003
	11:DERZ3	0.003	7.965	0.001	7.965	0.003	0.000	0.001
	12:DERZ4	-0.002	-14.207	-0.001	14.207	-0.007	-0.000	-0.000
233	5:DERX1	64.853	-3.715	1.772	64.983	-0.000	0.001	-0.003
	6:DERX2	-61.543	-10.667	-7.752	62.940	-0.000	-0.001	-0.003
	7:DERZ1	7.946	-6.657	64.055	64.888	0.000	0.001	-0.003
	8:DERZ2	-4.637	-7.724	-70.036	70.613	-0.001	-0.001	-0.003
	9:DERX3	64.380	-1.191	3.007	64.461	-0.000	0.001	-0.002
	10:DERX4	-62.016	-8.143	-6.517	62.887	-0.000	-0.001	-0.002
	11:DERZ3	7.474	-4.133	65.291	65.847	0.000	0.001	-0.002
	12:DERZ4	-5.109	-5.201	-68.800	69.185	-0.000	-0.001	-0.002
235	5:DERX1	65.033	-10.667	-0.038	65.902	0.000	0.001	-0.000
	6:DERX2	-61.600	-13.884	-5.812	63.412	-0.000	-0.001	-0.003
	7:DERZ1	8.037	-11.706	62.852	64.436	0.000	0.001	-0.001
	8:DERZ2	-4.604	-12.845	-68.702	70.044	-0.000	-0.001	-0.002
	9:DERX3	64.538	-6.348	1.180	64.861	0.000	0.001	0.000
	10:DERX4	-62.095	-9.565	-4.594	62.995	-0.000	-0.001	-0.002
	11:DERZ3	7.543	-7.387	64.070	64.934	0.000	0.001	-0.001
	12:DERZ4	-5.099	-8.526	-67.484	68.211	-0.000	-0.001	-0.001
237	5:DERX1	65.201	-11.301	-0.569	66.176	0.000	0.001	0.002
	6:DERX2	-61.644	-14.180	-5.171	63.465	-0.000	-0.001	-0.000
	7:DERZ1	8.131	-12.218	61.674	63.396	0.001	0.001	0.001
	8:DERZ2	-4.573	-13.264	-67.413	68.857	-0.000	-0.001	0.001
	9:DERX3	64.684	-6.795	0.635	65.044	0.000	0.001	0.002
	10:DERX4	-62.161	-9.675	-3.967	63.034	-0.000	-0.001	-0.000
	11:DERZ3	7.614	-7.712	62.877	63.804	0.001	0.001	0.001
	12:DERZ4	-5.090	-8.758	-66.210	66.980	-0.000	-0.001	0.001
239	5:DERX1	65.373	-5.516	0.887	65.612	0.000	0.001	0.003
	6:DERX2	-61.668	-10.867	-6.527	62.958	0.000	-0.001	0.002
	7:DERZ1	8.235	-7.724	60.536	61.580	0.001	0.001	0.003
	8:DERZ2	-4.530	-8.658	-66.176	66.893	-0.000	-0.001	0.003
	9:DERX3	64.830	-2.587	2.078	64.915	0.000	0.001	0.002
	10:DERX4	-62.212	-7.938	-5.337	62.943	-0.000	-0.001	0.001
	11:DERZ3	7.692	-4.795	61.726	62.388	0.001	0.001	0.002
	12:DERZ4	-5.074	-5.729	-64.985	65.434	-0.000	-0.001	0.002
249	5:DERX1	85.238	-11.922	2.331	86.100	-0.003	0.001	0.004
	6:DERX2	-80.397	-19.330	-4.544	82.813	-0.005	-0.001	0.001
	7:DERZ1	18.823	-12.298	64.103	67.932	-0.003	0.001	0.003
	8:DERZ2	-13.982	-18.954	-66.317	70.375	-0.004	-0.002	0.002
	9:DERX3	84.531	-6.060	2.861	84.796	-0.001	0.001	0.003
	10:DERX4	-81.104	-13.468	-4.014	82.313	-0.004	-0.001	-0.000
	11:DERZ3	18.116	-6.436	64.633	67.432	-0.002	0.001	0.002
	12:DERZ4	-14.689	-13.092	-65.787	68.666	-0.003	-0.001	0.001
250	5:DERX1	86.882	-9.835	2.416	87.470	-0.003	-0.000	0.000
	6:DERX2	-81.143	-25.459	-2.668	85.085	-0.006	-0.003	-0.002
	7:DERZ1	19.817	-11.941	66.253	70.176	-0.004	-0.000	0.000
	8:DERZ2	-14.078	-23.353	-66.505	71.878	-0.006	-0.003	-0.002
	9:DERX3	85.997	-3.182	2.567	86.094	-0.001	0.000	0.001
	10:DERX4	-82.028	-18.806	-2.517	84.194	-0.005	-0.002	-0.002
	11:DERZ3	18.931	-5.288	66.404	69.252	-0.002	0.000	0.000
	12:DERZ4	-14.963	-16.699	-66.354	70.040	-0.004	-0.002	-0.002
251	5:DERX1	84.945	-2.717	2.115	85.014	-0.002	0.000	-0.002
	6:DERX2	-83.315	-19.355	-4.940	85.676	-0.005	-0.004	-0.004

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	18.258	-2.566	66.013	68.540	-0.001	-0.000	-0.002
	8:DERZ2	-16.628	-19.506	-68.839	73.455	-0.006	-0.003	-0.004
	9:DERX3	84.829	1.460	2.745	84.886	-0.000	0.001	-0.001
	10:DERX4	-83.430	-15.177	-4.310	84.909	-0.004	-0.003	-0.003
	11:DERZ3	18.142	1.611	66.643	69.088	0.000	0.001	-0.001
	12:DERZ4	-16.743	-15.328	-68.208	71.886	-0.005	-0.003	-0.003
275	5:DERX1	77.213	-0.398	4.681	77.356	0.001	0.002	0.003
	6:DERX2	-80.224	-1.764	-11.768	81.102	-0.000	-0.002	-0.005
	7:DERZ1	10.330	0.904	68.723	69.501	0.003	0.002	0.000
	8:DERZ2	-13.340	-3.066	-75.810	77.036	-0.003	-0.002	-0.002
	9:DERX3	77.980	-0.001	6.121	78.220	0.001	0.002	0.003
	10:DERX4	-79.458	-1.367	-10.329	80.138	-0.000	-0.002	-0.004
	11:DERZ3	11.096	1.301	70.163	71.047	0.003	0.002	0.000
	12:DERZ4	-12.574	-2.669	-74.370	75.473	-0.003	-0.002	-0.002
276	5:DERX1	75.642	-2.312	5.650	75.888	0.001	0.002	0.001
	6:DERX2	-76.027	-4.690	-11.261	76.999	0.001	-0.001	-0.002
	7:DERZ1	7.641	2.285	70.648	71.097	0.001	0.002	0.001
	8:DERZ2	-8.026	-9.287	-76.259	77.240	0.001	-0.001	-0.002
	9:DERX3	75.914	-1.010	6.812	76.226	0.000	0.002	0.001
	10:DERX4	-75.755	-3.388	-10.099	76.500	0.000	-0.001	-0.002
	11:DERZ3	7.913	3.587	71.810	72.334	0.001	0.002	0.001
	12:DERZ4	-7.754	-7.985	-75.097	75.917	0.000	-0.001	-0.002
277	5:DERX1	73.801	-2.989	5.917	74.098	-0.000	0.001	-0.000
	6:DERX2	-72.252	-4.791	-11.001	73.241	-0.001	-0.001	-0.000
	7:DERZ1	5.567	-0.578	70.282	70.504	0.001	0.001	0.001
	8:DERZ2	-4.017	-7.202	-75.366	75.816	-0.002	-0.001	-0.001
	9:DERX3	73.700	-1.529	6.974	74.045	-0.000	0.001	-0.000
	10:DERX4	-72.352	-3.330	-9.944	73.108	-0.000	-0.001	-0.000
	11:DERZ3	5.466	0.882	71.339	71.553	0.001	0.001	0.001
	12:DERZ4	-4.118	-5.742	-74.309	74.644	-0.002	-0.001	-0.001
278	5:DERX1	79.588	-1.209	2.880	79.649	0.001	0.000	0.003
	6:DERX2	-76.906	-1.550	-8.987	77.445	0.000	-0.001	0.000
	7:DERZ1	13.309	-0.816	60.219	61.677	0.001	0.001	0.002
	8:DERZ2	-10.627	-1.943	-66.326	67.200	0.000	-0.002	0.002
	9:DERX3	79.291	-0.703	4.163	79.403	0.001	0.001	0.003
	10:DERX4	-77.203	-1.044	-7.704	77.593	0.000	-0.001	-0.000
	11:DERZ3	13.012	-0.310	61.502	62.864	0.000	0.001	0.001
	12:DERZ4	-10.924	-1.437	-65.043	65.969	0.000	-0.002	0.001
279	5:DERX1	76.233	-3.376	2.477	76.348	0.001	0.000	0.004
	6:DERX2	-74.142	-4.562	-9.760	74.920	0.001	-0.002	0.001
	7:DERZ1	9.148	-1.799	59.823	60.545	0.001	0.001	0.002
	8:DERZ2	-7.056	-6.140	-67.106	67.755	0.000	-0.002	0.002
	9:DERX3	76.033	-1.890	3.982	76.160	0.001	0.000	0.003
	10:DERX4	-74.342	-3.076	-8.254	74.862	0.000	-0.001	-0.000
	11:DERZ3	8.948	-0.312	61.328	61.978	0.001	0.001	0.001
	12:DERZ4	-7.257	-4.653	-65.600	66.164	-0.000	-0.002	0.001
280	5:DERX1	73.036	-3.481	2.576	73.165	-0.001	0.001	0.005
	6:DERX2	-70.595	-4.452	-9.649	71.390	-0.001	-0.001	0.000
	7:DERZ1	5.751	-0.889	59.898	60.180	-0.001	0.001	0.003
	8:DERZ2	-3.309	-7.044	-66.971	67.422	-0.001	-0.002	0.002
	9:DERX3	72.753	-2.005	4.038	72.893	-0.000	0.001	0.004
	10:DERX4	-70.878	-2.976	-8.186	71.411	-0.001	-0.001	-0.001
	11:DERZ3	5.468	0.587	61.361	61.607	-0.000	0.001	0.002
	12:DERZ4	-3.592	-5.568	-65.509	65.843	-0.001	-0.002	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
281	5:DERX1	70.349	-1.910	-0.302	70.376	-0.000	0.001	0.003
	6:DERX2	-70.136	-13.940	-8.608	72.024	-0.001	-0.001	0.001
	7:DERZ1	2.661	-6.946	60.516	60.971	0.000	0.001	0.002
	8:DERZ2	-2.447	-8.904	-69.426	70.038	-0.002	-0.002	0.002
	9:DERX3	70.475	1.064	1.494	70.499	0.000	0.001	0.003
	10:DERX4	-70.010	-10.966	-6.811	71.190	-0.001	-0.001	0.000
	11:DERZ3	2.787	-3.972	62.313	62.501	0.001	0.001	0.002
	12:DERZ4	-2.321	-5.930	-67.629	67.929	-0.001	-0.002	0.001
282	5:DERX1	70.060	-3.614	-2.593	70.201	0.001	0.001	0.000
	6:DERX2	-71.463	-17.517	-7.432	73.953	-0.001	-0.001	-0.001
	7:DERZ1	1.913	-9.025	62.453	63.131	0.000	0.002	-0.000
	8:DERZ2	-3.316	-12.106	-72.478	73.557	-0.000	-0.001	-0.000
	9:DERX3	70.494	0.363	-0.596	70.498	0.001	0.001	0.000
	10:DERX4	-71.028	-13.539	-5.435	72.511	-0.001	-0.001	-0.001
	11:DERZ3	2.347	-5.047	64.450	64.690	0.000	0.001	-0.000
	12:DERZ4	-2.881	-8.129	-70.482	71.007	-0.000	-0.001	-0.000
283	5:DERX1	70.539	-2.522	0.475	70.585	0.001	0.002	-0.001
	6:DERX2	-70.013	-11.458	-8.453	71.446	-0.001	-0.001	-0.003
	7:DERZ1	2.769	-5.987	65.653	65.984	0.000	0.002	-0.002
	8:DERZ2	-2.243	-7.993	-73.630	74.097	-0.000	-0.001	-0.002
	9:DERX3	70.613	0.109	2.077	70.643	0.001	0.002	-0.000
	10:DERX4	-69.939	-8.826	-6.851	70.826	-0.001	-0.001	-0.002
	11:DERZ3	2.843	-3.356	67.255	67.398	0.000	0.002	-0.001
	12:DERZ4	-2.169	-5.361	-72.029	72.261	-0.000	-0.001	-0.002
286	5:DERX1	76.096	-4.666	-0.878	76.244	0.002	0.002	-0.000
	6:DERX2	-75.034	-7.421	-6.371	75.669	-0.001	-0.001	-0.002
	7:DERZ1	8.985	-5.123	63.879	64.711	0.001	0.002	-0.000
	8:DERZ2	-7.923	-6.965	-71.129	71.907	0.000	-0.001	-0.002
	9:DERX3	76.091	-2.390	0.594	76.131	0.002	0.002	0.000
	10:DERX4	-75.039	-5.145	-4.899	75.374	-0.001	-0.001	-0.001
	11:DERZ3	8.980	-2.846	65.352	66.027	0.001	0.001	0.000
	12:DERZ4	-7.928	-4.688	-69.656	70.262	0.000	-0.001	-0.001
302	5:DERX1	79.790	-5.619	0.107	79.987	-0.001	0.001	0.003
	6:DERX2	-80.432	-5.991	-8.208	81.071	-0.003	-0.001	0.002
	7:DERZ1	13.549	-4.269	60.556	62.200	-0.002	0.001	0.003
	8:DERZ2	-14.192	-7.341	-68.656	70.491	-0.003	-0.001	0.002
	9:DERX3	80.118	-3.471	1.752	80.213	-0.001	0.001	0.002
	10:DERX4	-80.103	-3.842	-6.563	80.464	-0.002	-0.001	0.001
	11:DERZ3	13.878	-2.121	62.200	63.765	-0.001	0.001	0.002
	12:DERZ4	-13.863	-5.192	-67.012	68.627	-0.002	-0.001	0.001
303	5:DERX1	77.314	-5.311	-1.453	77.510	0.001	0.001	0.001
	6:DERX2	-76.830	-7.217	-6.076	77.407	-0.001	-0.001	-0.001
	7:DERZ1	10.502	-4.933	62.711	63.775	0.000	0.001	0.000
	8:DERZ2	-10.018	-7.596	-70.239	71.356	-0.000	-0.001	-0.001
	9:DERX3	77.423	-2.965	0.076	77.479	0.001	0.001	0.001
	10:DERX4	-76.721	-4.871	-4.548	77.010	-0.001	-0.001	-0.001
	11:DERZ3	10.611	-2.586	64.239	65.161	0.000	0.001	0.000
	12:DERZ4	-9.910	-5.250	-68.711	69.620	-0.000	-0.001	-0.000
304	5:DERX1	78.544	-5.710	-0.972	78.758	0.000	0.001	0.002
	6:DERX2	-78.649	-6.784	-6.822	79.236	-0.002	-0.001	0.000
	7:DERZ1	12.014	-4.715	61.598	62.935	-0.000	0.001	0.001
	8:DERZ2	-12.119	-7.778	-69.392	70.870	-0.001	-0.001	0.001
	9:DERX3	78.768	-3.387	0.610	78.843	0.001	0.001	0.001
	10:DERX4	-78.426	-4.460	-5.240	78.727	-0.002	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	12.238	-2.392	63.180	64.399	-0.000	0.001	0.001
	12:DERZ4	-11.896	-5.455	-67.809	69.061	-0.001	-0.001	0.000
305	5:DERX1	72.500	-1.943	3.474	72.609	0.000	0.001	-0.000
	6:DERX2	-69.649	-5.542	-10.031	70.586	-0.001	-0.001	-0.002
	7:DERZ1	4.816	-3.418	67.434	67.692	0.000	0.001	-0.000
	8:DERZ2	-1.965	-4.067	-73.992	74.129	-0.001	-0.001	-0.002
	9:DERX3	72.144	-0.521	4.808	72.306	0.000	0.001	0.000
	10:DERX4	-70.005	-4.121	-8.697	70.663	-0.001	-0.001	-0.001
	11:DERZ3	4.460	-1.997	68.769	68.942	0.001	0.001	0.000
	12:DERZ4	-2.321	-2.645	-72.657	72.742	-0.001	-0.001	-0.001
306	5:DERX1	73.660	-2.907	1.914	73.742	0.001	0.001	-0.000
	6:DERX2	-71.460	-6.817	-8.671	72.306	-0.000	-0.001	-0.002
	7:DERZ1	6.049	-4.601	66.243	66.678	0.001	0.001	-0.000
	8:DERZ2	-3.849	-5.122	-73.000	73.281	-0.000	-0.001	-0.002
	9:DERX3	73.432	-1.062	3.288	73.513	0.001	0.001	0.000
	10:DERX4	-71.689	-4.972	-7.296	72.230	-0.001	-0.001	-0.001
	11:DERZ3	5.821	-2.756	67.618	67.924	0.001	0.001	0.000
	12:DERZ4	-4.077	-3.277	-71.626	71.817	-0.000	-0.001	-0.001
307	5:DERX1	74.857	-3.804	0.404	74.955	0.002	0.001	-0.000
	6:DERX2	-73.249	-7.359	-7.402	73.989	-0.000	-0.001	-0.002
	7:DERZ1	7.478	-5.018	65.047	65.667	0.001	0.001	-0.000
	8:DERZ2	-5.870	-6.145	-72.045	72.544	0.000	-0.001	-0.002
	9:DERX3	74.745	-1.692	1.826	74.787	0.001	0.001	0.000
	10:DERX4	-73.362	-5.247	-5.979	73.792	-0.001	-0.001	-0.001
	11:DERZ3	7.366	-2.906	66.469	66.939	0.001	0.001	0.000
	12:DERZ4	-5.982	-4.034	-70.622	70.990	-0.000	-0.001	-0.001
308	5:DERX1	80.503	-6.958	-0.515	80.805	-0.001	0.001	0.002
	6:DERX2	-79.483	-9.851	-5.839	80.304	-0.003	-0.001	-0.000
	7:DERZ1	13.808	-6.266	62.702	64.509	-0.001	0.001	0.001
	8:DERZ2	-12.787	-10.543	-69.056	71.017	-0.003	-0.001	0.001
	9:DERX3	80.525	-3.854	0.805	80.621	-0.000	0.001	0.002
	10:DERX4	-79.461	-6.746	-4.519	79.875	-0.002	-0.001	-0.001
	11:DERZ3	13.830	-3.162	64.022	65.575	0.000	0.001	0.001
	12:DERZ4	-12.766	-7.439	-67.736	69.329	-0.002	-0.001	0.000
309	5:DERX1	81.678	-3.214	-0.104	81.741	-0.000	0.001	0.000
	6:DERX2	-80.565	-13.911	-5.202	81.922	-0.002	-0.002	-0.002
	7:DERZ1	14.032	-6.145	65.021	66.801	0.001	0.001	-0.001
	8:DERZ2	-12.919	-10.980	-70.327	72.342	-0.003	-0.002	-0.001
	9:DERX3	81.690	-0.074	1.026	81.696	0.000	0.001	0.001
	10:DERX4	-80.553	-10.772	-4.073	81.372	-0.002	-0.001	-0.002
	11:DERZ3	14.044	-3.005	66.150	67.691	0.001	0.001	-0.000
	12:DERZ4	-12.907	-7.841	-69.197	70.826	-0.003	-0.002	-0.001
310	5:DERX1	80.483	1.341	1.369	80.506	0.000	0.001	-0.001
	6:DERX2	-81.871	-9.960	-7.783	82.841	-0.002	-0.002	-0.003
	7:DERZ1	12.680	-2.591	66.554	67.801	0.002	0.002	-0.001
	8:DERZ2	-14.068	-6.028	-72.968	74.556	-0.004	-0.003	-0.002
	9:DERX3	80.956	2.913	2.696	81.053	0.000	0.001	0.000
	10:DERX4	-81.397	-8.388	-6.457	82.083	-0.001	-0.002	-0.002
	11:DERZ3	13.153	-1.019	67.881	69.151	0.003	0.002	-0.001
	12:DERZ4	-13.594	-4.456	-71.642	73.056	-0.004	-0.002	-0.002
311	5:DERX1	80.089	-2.857	1.436	80.153	-0.000	0.001	0.003
	6:DERX2	-79.036	-3.929	-8.363	79.575	-0.001	-0.001	0.002
	7:DERZ1	13.753	-2.471	60.580	62.171	-0.000	0.001	0.003
	8:DERZ2	-12.700	-4.315	-67.508	68.827	-0.001	-0.001	0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	80.100	-1.605	2.866	80.167	-0.000	0.001	0.002
	10:DERX4	-79.025	-2.677	-6.934	79.374	-0.001	-0.001	0.001
	11:DERZ3	13.764	-1.218	62.010	63.531	-0.000	0.001	0.002
	12:DERZ4	-12.689	-3.063	-66.078	67.355	-0.001	-0.001	0.001
314	5:DERX1	61.911	-5.678	0.264	62.172	0.001	0.001	0.000
	6:DERX2	-62.403	-8.036	-4.584	63.085	-0.001	-0.001	-0.001
	7:DERZ1	12.920	-6.090	65.039	66.589	-0.000	0.001	-0.000
	8:DERZ2	-13.412	-7.625	-69.359	71.054	-0.000	-0.002	-0.001
	9:DERX3	62.132	-3.118	1.208	62.222	0.001	0.001	0.000
	10:DERX4	-62.182	-5.476	-3.640	62.529	-0.001	-0.001	-0.001
	11:DERZ3	13.141	-3.530	65.983	67.371	0.000	0.001	-0.000
	12:DERZ4	-13.191	-5.064	-68.415	69.859	-0.000	-0.001	-0.001
341	5:DERX1	66.396	-5.256	1.986	66.634	-0.001	0.002	0.004
	6:DERX2	-68.049	-15.283	-3.594	69.837	-0.002	-0.000	0.001
	7:DERZ1	4.430	-9.480	63.925	64.775	-0.001	0.002	0.003
	8:DERZ2	-6.082	-11.059	-65.533	66.738	-0.001	-0.000	0.002
	9:DERX3	66.848	-1.426	2.431	66.908	0.000	0.002	0.003
	10:DERX4	-67.597	-11.453	-3.150	68.633	-0.002	-0.001	0.000
	11:DERZ3	4.882	-5.650	64.370	64.801	-0.001	0.002	0.002
	12:DERZ4	-5.630	-7.229	-65.088	65.730	-0.001	-0.001	0.001
342	5:DERX1	65.891	-7.333	2.897	66.361	-0.001	0.002	-0.000
	6:DERX2	-69.909	-20.933	-2.899	73.034	-0.004	-0.001	-0.000
	7:DERZ1	3.310	-12.958	67.033	68.355	-0.002	0.002	-0.000
	8:DERZ2	-7.328	-15.308	-67.036	69.151	-0.003	-0.001	-0.000
	9:DERX3	66.789	-2.051	3.033	66.889	-0.000	0.002	-0.000
	10:DERX4	-69.011	-15.651	-2.764	70.818	-0.003	-0.001	-0.000
	11:DERZ3	4.208	-7.676	67.169	67.737	-0.001	0.002	-0.000
	12:DERZ4	-6.430	-10.026	-66.900	67.952	-0.002	-0.001	-0.000
343	5:DERX1	66.633	-5.062	3.493	66.916	-0.001	0.001	-0.001
	6:DERX2	-68.538	-15.422	-5.868	70.496	-0.003	-0.001	-0.003
	7:DERZ1	4.449	-9.494	67.957	68.762	-0.002	0.001	-0.002
	8:DERZ2	-6.355	-10.990	-70.332	71.468	-0.002	-0.001	-0.003
	9:DERX3	67.140	-1.228	4.061	67.274	-0.000	0.001	-0.001
	10:DERX4	-68.031	-11.589	-5.300	69.214	-0.002	-0.001	-0.002
	11:DERZ3	4.957	-5.661	68.525	68.937	-0.001	0.001	-0.001
	12:DERZ4	-5.847	-7.156	-69.764	70.374	-0.001	-0.001	-0.002
344	5:DERX1	60.045	-15.315	-2.170	62.005	0.005	0.001	0.003
	6:DERX2	-57.217	-21.186	-7.488	61.472	0.003	-0.001	0.001
	7:DERZ1	22.797	-14.945	60.124	66.015	0.005	0.002	0.003
	8:DERZ2	-19.970	-21.556	-69.783	75.717	0.004	-0.001	0.002
	9:DERX3	59.612	-8.510	-0.215	60.217	0.004	0.001	0.003
	10:DERX4	-57.650	-14.381	-5.534	59.674	0.002	-0.001	0.000
	11:DERZ3	22.364	-8.140	62.079	66.485	0.003	0.001	0.002
	12:DERZ4	-20.403	-14.751	-67.828	72.350	0.002	-0.001	0.001
345	5:DERX1	61.261	-14.641	-2.786	63.048	0.006	0.002	-0.000
	6:DERX2	-57.552	-25.932	-9.484	63.833	0.004	0.000	-0.002
	7:DERZ1	23.795	-14.738	59.991	66.199	0.006	0.003	-0.000
	8:DERZ2	-20.085	-25.835	-72.261	79.325	0.004	0.000	-0.002
	9:DERX3	60.653	-7.037	-0.349	61.060	0.004	0.002	0.000
	10:DERX4	-58.161	-18.328	-7.047	61.386	0.002	-0.000	-0.001
	11:DERZ3	23.186	-7.134	62.428	66.975	0.004	0.002	0.000
	12:DERZ4	-20.694	-18.231	-69.824	75.073	0.002	-0.000	-0.002
346	5:DERX1	58.920	-7.167	0.780	59.359	0.005	0.003	-0.003
	6:DERX2	-59.840	-18.470	-10.761	63.543	0.002	0.001	-0.005

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	21.924	-4.926	62.251	66.183	0.006	0.003	-0.003
	8:DERZ2	-22.844	-20.711	-72.232	78.538	0.002	0.000	-0.005
	9:DERX3	59.174	-2.345	2.775	59.285	0.003	0.002	-0.002
	10:DERX4	-59.585	-13.649	-8.766	61.754	0.001	0.000	-0.003
	11:DERZ3	22.178	-0.104	64.246	67.967	0.004	0.003	-0.002
	12:DERZ4	-22.590	-15.889	-70.237	75.472	0.000	-0.001	-0.003
347	5:DERX1	57.661	-6.940	2.858	58.148	0.003	0.001	0.003
	6:DERX2	-60.637	-7.433	-5.685	61.354	0.002	-0.001	0.003
	7:DERZ1	17.209	-5.696	62.963	65.520	0.003	0.001	0.003
	8:DERZ2	-20.184	-8.677	-65.790	69.361	0.002	-0.001	0.002
	9:DERX3	58.330	-4.295	3.539	58.595	0.002	0.001	0.002
	10:DERX4	-59.967	-4.788	-5.004	60.366	0.001	-0.001	0.001
	11:DERZ3	17.878	-3.051	63.644	66.178	0.002	0.001	0.002
	12:DERZ4	-19.515	-6.032	-65.109	68.238	0.001	-0.001	0.001
348	5:DERX1	64.661	-2.998	3.317	64.815	0.001	0.002	0.005
	6:DERX2	-62.806	-3.818	-8.099	63.441	0.000	-0.001	0.001
	7:DERZ1	9.760	-2.523	60.338	61.175	0.001	0.002	0.003
	8:DERZ2	-7.905	-4.292	-65.121	65.739	0.000	-0.001	0.003
	9:DERX3	64.454	-1.719	4.356	64.624	0.001	0.002	0.004
	10:DERX4	-63.013	-2.539	-7.060	63.458	0.000	-0.001	-0.000
	11:DERZ3	9.553	-1.245	61.378	62.129	0.001	0.002	0.002
	12:DERZ4	-8.112	-3.014	-64.081	64.663	0.000	-0.001	0.002
349	5:DERX1	62.683	-3.395	3.420	62.868	-0.001	0.002	0.004
	6:DERX2	-61.370	-3.661	-7.914	61.986	-0.001	-0.000	0.001
	7:DERZ1	13.354	-2.536	60.714	62.217	-0.000	0.002	0.003
	8:DERZ2	-12.041	-4.520	-65.208	66.464	-0.001	-0.000	0.002
	9:DERX3	62.575	-2.059	4.401	62.763	-0.000	0.002	0.003
	10:DERX4	-61.479	-2.326	-6.933	61.912	-0.000	-0.001	0.000
	11:DERZ3	13.245	-1.201	61.695	63.112	-0.000	0.002	0.002
	12:DERZ4	-12.149	-3.185	-64.227	65.443	-0.000	-0.001	0.001
350	5:DERX1	60.899	-1.123	3.075	60.987	-0.000	0.002	0.003
	6:DERX2	-59.443	-1.746	-8.385	60.057	-0.000	-0.001	0.002
	7:DERZ1	17.289	-0.805	60.388	62.820	-0.000	0.002	0.003
	8:DERZ2	-15.833	-2.064	-65.698	67.611	-0.000	-0.001	0.002
	9:DERX3	60.756	-0.588	4.213	60.904	-0.000	0.002	0.003
	10:DERX4	-59.586	-1.210	-7.247	60.038	-0.000	-0.001	0.001
	11:DERZ3	17.145	-0.269	61.526	63.871	-0.000	0.002	0.002
	12:DERZ4	-15.976	-1.529	-64.561	66.526	-0.000	-0.001	0.001
351	5:DERX1	64.188	-2.110	4.296	64.366	0.001	0.001	-0.001
	6:DERX2	-64.882	-2.535	-10.920	65.843	0.000	-0.001	-0.001
	7:DERZ1	9.197	-0.547	68.631	69.247	0.001	0.001	-0.001
	8:DERZ2	-9.891	-4.098	-75.255	76.013	-0.000	-0.001	-0.001
	9:DERX3	64.456	-1.241	5.644	64.715	0.000	0.001	-0.000
	10:DERX4	-64.614	-1.666	-9.572	65.340	0.000	-0.001	-0.001
	11:DERZ3	9.465	0.321	69.979	70.617	0.001	0.001	-0.000
	12:DERZ4	-9.623	-3.229	-73.907	74.601	-0.001	-0.001	-0.001
352	5:DERX1	60.753	-2.311	4.396	60.956	-0.000	0.001	-0.001
	6:DERX2	-63.712	-3.147	-10.955	64.723	-0.000	-0.001	-0.002
	7:DERZ1	11.219	1.321	69.207	70.122	-0.000	0.001	-0.000
	8:DERZ2	-14.178	-6.779	-75.765	77.378	-0.001	-0.001	-0.002
	9:DERX3	61.432	-1.293	5.728	61.712	-0.000	0.001	-0.000
	10:DERX4	-63.033	-2.130	-9.623	63.799	-0.000	-0.001	-0.002
	11:DERZ3	11.898	2.338	70.539	71.573	0.000	0.001	0.000
	12:DERZ4	-13.499	-5.761	-74.433	75.866	-0.000	-0.001	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
353	5:DERX1	56.915	-0.786	4.760	57.119	-0.000	0.001	0.001
	6:DERX2	-62.705	-1.785	-10.385	63.584	-0.001	-0.001	-0.004
	7:DERZ1	13.854	0.083	68.804	70.184	0.002	0.002	-0.001
	8:DERZ2	-19.643	-2.654	-74.429	77.023	-0.003	-0.002	-0.003
	9:DERX3	58.108	-0.313	5.914	58.409	0.000	0.001	0.001
	10:DERX4	-61.512	-1.312	-9.230	62.214	-0.000	-0.001	-0.004
	11:DERZ3	15.046	0.556	69.958	71.560	0.002	0.002	-0.000
	12:DERZ4	-18.450	-2.181	-73.274	75.593	-0.003	-0.002	-0.002
354	5:DERX1	60.476	-6.557	0.515	60.832	0.001	0.001	0.001
	6:DERX2	-61.807	-8.071	-4.337	62.483	-0.001	-0.001	-0.001
	7:DERZ1	14.355	-6.172	64.306	66.177	0.001	0.001	0.000
	8:DERZ2	-15.687	-8.457	-68.128	70.420	0.000	-0.002	-0.000
	9:DERX3	60.848	-3.838	1.372	60.985	0.001	0.001	0.001
	10:DERX4	-61.434	-5.352	-3.480	61.765	-0.001	-0.001	-0.001
	11:DERZ3	14.728	-3.453	65.163	66.895	0.000	0.001	0.000
	12:DERZ4	-15.314	-5.737	-67.271	69.230	-0.000	-0.001	-0.000
355	5:DERX1	59.058	-7.181	1.491	59.512	0.002	0.001	0.002
	6:DERX2	-61.228	-7.835	-4.830	61.916	0.000	-0.001	0.001
	7:DERZ1	15.777	-6.097	63.594	65.804	0.002	0.001	0.001
	8:DERZ2	-17.947	-8.918	-66.933	69.869	0.001	-0.001	0.001
	9:DERX3	59.583	-4.405	2.264	59.788	0.002	0.001	0.001
	10:DERX4	-60.704	-5.059	-4.058	61.050	-0.000	-0.001	0.000
	11:DERZ3	16.302	-3.322	64.366	66.481	0.001	0.001	0.001
	12:DERZ4	-17.423	-6.142	-66.160	68.691	0.000	-0.001	0.001
356	5:DERX1	66.336	-1.994	2.675	66.419	0.000	0.001	-0.001
	6:DERX2	-64.277	-5.593	-8.520	65.080	-0.001	-0.001	-0.003
	7:DERZ1	8.637	-3.377	67.381	68.016	-0.000	0.001	-0.001
	8:DERZ2	-6.579	-4.210	-73.226	73.641	-0.001	-0.001	-0.002
	9:DERX3	66.094	-0.574	3.884	66.211	0.000	0.001	-0.000
	10:DERX4	-64.519	-4.172	-7.310	65.065	-0.001	-0.001	-0.002
	11:DERZ3	8.396	-1.956	68.590	69.130	-0.000	0.001	-0.001
	12:DERZ4	-6.820	-2.789	-72.017	72.393	-0.001	-0.001	-0.001
357	5:DERX1	64.814	-3.377	1.644	64.923	0.000	0.001	-0.000
	6:DERX2	-63.642	-6.997	-6.956	64.402	-0.001	-0.001	-0.002
	7:DERZ1	10.036	-4.820	66.588	67.513	-0.000	0.001	-0.001
	8:DERZ2	-8.864	-5.554	-71.900	72.657	-0.001	-0.002	-0.002
	9:DERX3	64.734	-1.432	2.760	64.808	0.001	0.001	0.000
	10:DERX4	-63.723	-5.052	-5.840	64.189	-0.001	-0.001	-0.002
	11:DERZ3	9.955	-2.875	67.704	68.493	-0.000	0.001	-0.000
	12:DERZ4	-8.945	-3.609	-70.784	71.438	-0.000	-0.001	-0.001
358	5:DERX1	63.335	-4.590	0.764	63.506	0.001	0.001	-0.000
	6:DERX2	-63.024	-7.714	-5.574	63.739	-0.001	-0.001	-0.002
	7:DERZ1	11.459	-5.679	65.807	67.038	-0.000	0.001	-0.000
	8:DERZ2	-11.148	-6.625	-70.617	71.798	-0.000	-0.002	-0.001
	9:DERX3	63.411	-2.286	1.793	63.477	0.001	0.001	0.000
	10:DERX4	-62.949	-5.410	-4.545	63.344	-0.001	-0.001	-0.001
	11:DERZ3	11.535	-3.375	66.836	67.908	0.000	0.001	-0.000
	12:DERZ4	-11.073	-4.321	-69.588	70.596	-0.000	-0.001	-0.001
359	5:DERX1	59.432	-9.196	-0.263	60.139	0.003	0.001	0.002
	6:DERX2	-60.257	-11.702	-5.173	61.601	0.001	-0.001	0.000
	7:DERZ1	17.844	-8.333	62.926	65.936	0.003	0.001	0.002
	8:DERZ2	-18.669	-12.565	-68.362	71.971	0.001	-0.001	0.001
	9:DERX3	59.709	-5.354	0.886	59.955	0.002	0.001	0.002
	10:DERX4	-59.980	-7.861	-4.024	60.627	0.001	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	18.121	-4.491	64.075	66.739	0.002	0.001	0.001
	12:DERZ4	-18.392	-8.724	-67.214	70.228	0.000	-0.001	0.000
360	5:DERX1	60.254	-6.995	-0.102	60.659	0.002	0.002	-0.000
	6:DERX2	-60.888	-14.541	-7.156	63.008	0.001	-0.001	-0.002
	7:DERZ1	18.159	-8.150	63.679	66.717	0.003	0.002	-0.001
	8:DERZ2	-18.793	-13.386	-70.937	74.595	-0.000	-0.001	-0.001
	9:DERX3	60.500	-3.050	1.365	60.592	0.002	0.001	0.000
	10:DERX4	-60.641	-10.596	-5.689	61.822	0.000	-0.001	-0.001
	11:DERZ3	18.406	-4.205	65.146	67.827	0.003	0.002	-0.000
	12:DERZ4	-18.547	-9.441	-69.470	72.520	-0.001	-0.001	-0.001
361	5:DERX1	58.774	-2.127	2.850	58.882	0.001	0.001	-0.001
	6:DERX2	-62.303	-9.596	-9.370	63.731	0.000	-0.000	-0.003
	7:DERZ1	16.599	-3.809	66.024	68.185	0.003	0.002	-0.002
	8:DERZ2	-20.128	-7.913	-72.545	75.700	-0.002	-0.001	-0.003
	9:DERX3	59.552	0.019	4.173	59.698	0.001	0.001	-0.001
	10:DERX4	-61.526	-7.451	-8.047	62.496	-0.000	-0.001	-0.002
	11:DERZ3	17.376	-1.664	67.347	69.573	0.003	0.002	-0.001
	12:DERZ4	-19.350	-5.768	-71.222	74.028	-0.002	-0.002	-0.002
362	5:DERX1	65.970	-3.387	2.342	66.098	0.001	0.002	0.005
	6:DERX2	-64.912	-6.893	-6.443	65.594	0.001	-0.001	0.001
	7:DERZ1	7.188	-4.686	61.267	61.865	0.001	0.002	0.003
	8:DERZ2	-6.130	-5.594	-65.368	65.893	0.000	-0.001	0.002
	9:DERX3	65.912	-1.472	3.256	66.009	0.000	0.002	0.004
	10:DERX4	-64.969	-4.979	-5.530	65.394	0.000	-0.001	-0.000
	11:DERZ3	7.130	-2.771	62.181	62.649	0.001	0.002	0.002
	12:DERZ4	-6.187	-3.680	-64.454	64.855	0.000	-0.001	0.001
363	5:DERX1	65.380	-5.889	1.708	65.667	-0.000	0.002	0.002
	6:DERX2	-67.784	-16.471	-3.072	69.824	-0.001	-0.001	0.001
	7:DERZ1	5.536	-10.191	64.974	66.001	-0.001	0.002	0.001
	8:DERZ2	-7.940	-12.168	-66.337	67.909	-0.001	-0.001	0.001
	9:DERX3	65.969	-1.722	2.106	66.025	0.000	0.001	0.001
	10:DERX4	-67.195	-12.304	-2.674	68.365	-0.001	-0.001	0.000
	11:DERZ3	6.125	-6.025	65.371	65.933	-0.000	0.002	0.001
	12:DERZ4	-7.351	-8.001	-65.939	66.829	-0.001	-0.001	0.001
364	5:DERX1	65.518	-5.778	2.332	65.814	-0.001	0.001	-0.001
	6:DERX2	-67.803	-16.197	-4.282	69.842	-0.002	-0.001	-0.002
	7:DERZ1	5.636	-10.073	66.874	67.863	-0.001	0.001	-0.001
	8:DERZ2	-7.921	-11.902	-68.825	70.294	-0.002	-0.001	-0.001
	9:DERX3	66.087	-1.681	2.831	66.168	0.000	0.001	-0.000
	10:DERX4	-67.235	-12.100	-3.783	68.420	-0.002	-0.001	-0.001
	11:DERZ3	6.204	-5.976	67.373	67.922	-0.001	0.001	-0.001
	12:DERZ4	-7.352	-7.805	-68.325	69.162	-0.001	-0.001	-0.001
365	5:DERX1	66.552	-2.619	2.760	66.660	-0.000	0.001	-0.001
	6:DERX2	-65.601	-8.397	-7.744	66.588	-0.002	-0.001	-0.003
	7:DERZ1	7.326	-5.097	67.409	67.998	-0.001	0.001	-0.002
	8:DERZ2	-6.375	-5.919	-72.393	72.914	-0.001	-0.002	-0.003
	9:DERX3	66.519	-0.561	3.813	66.630	0.000	0.001	-0.000
	10:DERX4	-65.634	-6.339	-6.692	66.278	-0.002	-0.001	-0.002
	11:DERZ3	7.293	-3.039	68.462	68.916	-0.001	0.001	-0.001
	12:DERZ4	-6.408	-3.861	-71.341	71.732	-0.001	-0.001	-0.002
366	5:DERX1	58.900	-4.593	2.655	59.139	0.002	0.001	0.003
	6:DERX2	-60.156	-5.015	-6.589	60.723	0.001	-0.001	0.003
	7:DERZ1	17.513	-3.768	61.971	64.508	0.002	0.001	0.003
	8:DERZ2	-18.769	-5.839	-65.905	68.774	0.001	-0.001	0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	59.253	-2.826	3.541	59.426	0.001	0.001	0.002
	10:DERX4	-59.803	-3.248	-5.703	60.162	0.001	-0.001	0.002
	11:DERZ3	17.866	-2.001	62.857	65.377	0.001	0.001	0.002
	12:DERZ4	-18.416	-4.073	-65.019	67.700	0.001	-0.001	0.001
367	5:DERX1	69.864	-4.046	0.895	69.987	0.001	0.001	0.004
	6:DERX2	-66.055	-11.315	-6.583	67.340	0.001	-0.001	0.003
	7:DERZ1	4.273	-7.299	60.504	61.092	0.002	0.001	0.003
	8:DERZ2	-0.463	-8.061	-66.191	66.682	0.000	-0.001	0.003
	9:DERX3	69.314	-1.265	2.095	69.357	0.001	0.001	0.002
	10:DERX4	-66.605	-8.534	-5.383	67.365	0.000	-0.001	0.001
	11:DERZ3	3.722	-4.519	61.703	61.980	0.002	0.001	0.002
	12:DERZ4	-1.013	-5.281	-64.991	65.214	-0.000	-0.001	0.002
368	5:DERX1	69.727	-10.418	-0.556	70.504	0.002	0.001	0.003
	6:DERX2	-65.980	-15.370	-5.173	67.943	0.002	-0.001	0.000
	7:DERZ1	4.238	-12.394	61.679	63.054	0.002	0.001	0.001
	8:DERZ2	-0.490	-13.394	-67.409	68.728	0.001	-0.001	0.001
	9:DERX3	69.188	-5.795	0.645	69.434	0.001	0.001	0.002
	10:DERX4	-66.519	-10.747	-3.972	67.498	0.001	-0.001	-0.000
	11:DERZ3	3.699	-7.771	62.881	63.467	0.002	0.001	0.001
	12:DERZ4	-1.029	-8.771	-66.207	66.793	0.000	-0.001	0.001
369	5:DERX1	69.588	-11.983	-0.042	70.613	0.002	0.001	0.000
	6:DERX2	-65.882	-13.684	-5.787	67.536	0.002	-0.001	-0.003
	7:DERZ1	4.217	-12.465	62.864	64.226	0.002	0.001	-0.001
	8:DERZ2	-0.511	-13.202	-68.693	69.952	0.001	-0.001	-0.001
	9:DERX3	69.057	-7.405	1.172	69.463	0.001	0.001	0.001
	10:DERX4	-66.413	-9.106	-4.573	67.191	0.001	-0.001	-0.002
	11:DERZ3	3.686	-7.887	64.078	64.666	0.001	0.001	-0.001
	12:DERZ4	-1.042	-8.624	-67.479	68.036	0.001	-0.001	-0.001
370	5:DERX1	69.431	-4.555	1.774	69.603	0.001	0.001	-0.003
	6:DERX2	-65.769	-10.786	-7.753	67.097	0.001	-0.001	-0.003
	7:DERZ1	4.195	-7.525	64.055	64.632	0.002	0.001	-0.003
	8:DERZ2	-0.532	-7.817	-70.033	70.470	0.001	-0.001	-0.003
	9:DERX3	68.908	-1.825	3.010	68.998	0.001	0.001	-0.002
	10:DERX4	-66.293	-8.057	-6.517	67.098	0.001	-0.001	-0.002
	11:DERZ3	3.671	-4.795	65.290	65.569	0.001	0.001	-0.002
	12:DERZ4	-1.056	-5.087	-68.798	68.994	0.001	-0.001	-0.002
371	5:DERX1	69.195	-0.776	3.857	69.307	0.000	0.001	0.001
	6:DERX2	-65.612	-2.978	-10.041	66.442	0.000	-0.001	-0.004
	7:DERZ1	4.149	-1.749	65.253	65.408	0.001	0.001	-0.001
	8:DERZ2	-0.566	-2.005	-71.437	71.467	-0.000	-0.001	-0.002
	9:DERX3	68.686	-0.095	5.124	68.877	0.000	0.001	0.001
	10:DERX4	-66.121	-2.297	-8.774	66.741	0.000	-0.001	-0.003
	11:DERZ3	3.640	-1.068	66.520	66.628	0.001	0.001	-0.001
	12:DERZ4	-1.075	-1.324	-70.170	70.190	-0.000	-0.001	-0.001
380	5:DERX1	46.269	1.378	2.106	46.338	0.000	0.001	0.003
	6:DERX2	-44.362	-3.835	-7.652	45.180	-0.000	-0.001	-0.004
	7:DERZ1	2.534	-1.142	46.396	46.479	0.001	0.001	-0.000
	8:DERZ2	-0.627	-1.315	-51.942	51.962	-0.001	-0.001	-0.001
	9:DERX3	46.037	1.870	3.244	46.189	0.000	0.001	0.003
	10:DERX4	-44.595	-3.343	-6.514	45.192	-0.000	-0.001	-0.004
	11:DERZ3	2.301	-0.650	47.534	47.594	0.001	0.001	-0.000
	12:DERZ4	-0.859	-0.823	-50.804	50.817	-0.001	-0.001	-0.000
382	5:DERX1	44.375	0.993	2.124	44.437	0.000	0.001	0.003
	6:DERX2	-42.660	-3.723	-7.715	43.512	-0.000	-0.001	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	3.026	-1.224	46.372	46.486	0.000	0.001	-0.000
	8:DERZ2	-1.312	-1.506	-51.963	52.002	-0.000	-0.001	-0.000
	9:DERX3	44.170	1.521	3.271	44.317	0.000	0.001	0.003
	10:DERX4	-42.865	-3.194	-6.568	43.483	-0.000	-0.001	-0.003
	11:DERZ3	2.822	-0.695	47.519	47.608	0.000	0.001	0.000
	12:DERZ4	-1.516	-0.978	-50.816	50.848	-0.000	-0.001	-0.000
383	5:DERX1	42.643	1.205	2.141	42.714	0.000	0.001	0.003
	6:DERX2	-41.161	-3.632	-7.773	42.046	-0.000	-0.001	-0.004
	7:DERZ1	4.484	-0.974	46.342	46.569	0.001	0.001	0.000
	8:DERZ2	-3.002	-1.452	-51.975	52.082	-0.001	-0.001	-0.001
	9:DERX3	42.475	1.681	3.297	42.636	0.000	0.001	0.003
	10:DERX4	-41.330	-3.156	-6.618	41.975	-0.000	-0.001	-0.004
	11:DERZ3	4.316	-0.498	47.498	47.696	0.001	0.001	0.000
	12:DERZ4	-3.170	-0.976	-50.819	50.927	-0.001	-0.001	-0.001
384	5:DERX1	28.196	-2.370	0.871	28.309	-0.002	0.000	0.003
	6:DERX2	-26.462	-4.095	-4.621	27.173	-0.002	-0.000	-0.005
	7:DERZ1	5.632	10.038	23.394	26.072	0.004	0.000	-0.000
	8:DERZ2	-3.898	-16.503	-27.143	32.005	-0.008	-0.000	-0.001
	9:DERX3	27.951	-1.155	1.650	28.023	-0.001	0.000	0.004
	10:DERX4	-26.707	-2.880	-3.842	27.136	-0.002	-0.000	-0.005
	11:DERZ3	5.387	11.253	24.173	27.202	0.005	0.000	-0.000
	12:DERZ4	-4.143	-15.288	-26.365	30.757	-0.008	-0.000	-0.001
385	5:DERX1	28.200	7.056	1.769	29.123	0.000	0.000	0.005
	6:DERX2	-26.477	-15.091	-4.712	30.838	-0.002	-0.000	-0.005
	7:DERZ1	5.629	7.830	22.199	24.203	0.004	0.000	0.001
	8:DERZ2	-3.906	-15.865	-25.143	29.985	-0.007	-0.000	-0.001
	9:DERX3	27.957	8.345	2.415	29.275	0.001	0.000	0.004
	10:DERX4	-26.721	-13.803	-4.066	30.349	-0.002	-0.000	-0.005
	11:DERZ3	5.385	9.118	22.845	25.180	0.005	0.000	0.000
	12:DERZ4	-4.149	-14.576	-24.496	28.806	-0.006	-0.000	-0.001
386	5:DERX1	28.199	-5.460	-0.845	28.735	-0.003	0.000	0.001
	6:DERX2	-26.472	-6.234	-2.593	27.320	-0.004	-0.000	-0.001
	7:DERZ1	5.630	5.224	22.771	24.031	0.002	0.000	0.000
	8:DERZ2	-3.903	-16.918	-26.209	31.438	-0.009	-0.000	-0.000
	9:DERX3	27.955	-3.171	-0.116	28.135	-0.002	0.000	0.001
	10:DERX4	-26.716	-3.946	-1.864	27.070	-0.002	-0.000	-0.001
	11:DERZ3	5.386	7.512	23.500	25.253	0.003	0.000	0.000
	12:DERZ4	-4.147	-14.630	-25.480	29.672	-0.008	-0.000	-0.000
387	5:DERX1	28.199	-3.060	0.744	28.375	-0.002	0.000	0.004
	6:DERX2	-26.477	-4.443	-3.837	27.120	-0.003	-0.000	-0.003
	7:DERZ1	5.629	8.357	22.327	24.496	0.004	0.000	0.001
	8:DERZ2	-3.906	-15.860	-25.421	30.216	-0.008	-0.000	-0.000
	9:DERX3	27.956	-1.638	1.415	28.040	-0.001	0.000	0.004
	10:DERX4	-26.720	-3.021	-3.166	27.076	-0.002	-0.000	-0.004
	11:DERZ3	5.385	9.779	22.998	25.564	0.004	0.000	0.001
	12:DERZ4	-4.149	-14.438	-24.750	28.952	-0.007	-0.000	-0.000
389	5:DERX1	22.572	-0.265	0.897	22.592	0.000	0.000	0.005
	6:DERX2	-21.718	-0.998	-4.598	22.222	-0.000	-0.000	-0.005
	7:DERZ1	1.477	-0.568	23.332	23.386	0.001	0.000	0.000
	8:DERZ2	-0.623	-0.695	-27.034	27.050	-0.001	-0.000	-0.000
	9:DERX3	22.473	-0.009	1.664	22.534	0.000	0.000	0.005
	10:DERX4	-21.818	-0.742	-3.831	22.164	-0.000	-0.000	-0.005
	11:DERZ3	1.378	-0.312	24.099	24.141	0.001	0.000	0.000
	12:DERZ4	-0.723	-0.440	-26.267	26.280	-0.001	-0.000	-0.000

JARDIN CAMPO VERDE

VERIFICACION DE DERIVAS MAXIMAS NSR-10

EJE: A-10

COMBO DERX_1

COMBO DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	78.032	25.446	0.569%	68.123	21.321	0.477%
N+10.88	109	10.88	74.498	21.912	0.609%	65.627	18.825	0.523%
N+7.28	45	7.28	52.586	25.047	0.696%	46.802	23.369	0.649%
N+3.68	28	3.68	27.539	27.539	0.765%	23.433	23.433	0.651%
N+0.08	11	0.08	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	-81.387	-30.895	0.691%	-75.241	-23.065	0.516%
N+10.88	109	10.88	-78.262	-27.77	0.771%	-72.242	-20.066	0.557%
N+7.28	45	7.28	-50.492	-24.572	0.683%	-52.176	-24.987	0.694%
N+3.68	28	3.68	-25.92	-25.92	0.720%	-27.189	-27.189	0.755%
N+0.08	11	0.08	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	78.603	26.476	0.592%	69.622	21.676	0.485%
N+10.88	109	10.88	75.137	23.01	0.639%	67.02	19.074	0.530%
N+7.28	45	7.28	52.127	24.931	0.693%	47.946	23.709	0.659%
N+3.68	28	3.68	27.196	27.196	0.755%	24.237	24.237	0.673%
N+0.08	11	0.08	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	-80.816	-29.865	0.668%	-73.742	-22.711	0.508%
N+10.88	109	10.88	-77.623	-26.672	0.741%	-70.849	-19.818	0.551%
N+7.28	45	7.28	-50.951	-24.688	0.686%	-51.031	-24.646	0.685%
N+3.68	28	3.68	-26.263	-26.263	0.730%	-26.385	-26.385	0.733%
N+0.08	11	0.08	0			0		

EJE: C-10
COMBO DERX_1

		COMBO DERZ_1						
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	80.744	28.15	0.440%	60.326	16.647	0.260%
N+10.88	110	10.88	73.299	20.705	0.575%	58.547	14.868	0.413%
N+7.28	46	7.28	52.594	25.055	0.696%	43.679	21.336	0.593%
N+3.68	88	3.68	27.539	27.539	0.765%	22.343	22.343	0.621%
N+0.08	80	0.08	0			0		

COMBO DERX_2

		COMBO DERZ_2						
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	-78.507	-28.21	0.441%	-66.474	-18.014	0.281%
N+10.88	110	10.88	-67.929	-17.632	0.490%	-63.836	-15.376	0.427%
N+7.28	46	7.28	-50.297	-24.337	0.676%	-48.46	-23.008	0.639%
N+3.68	88	3.68	-25.96	-25.96	0.721%	-25.452	-25.452	0.707%
N+0.08	80	0.08	0			0		

COMBO DERX_3

		COMBO DERZ_3						
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	80.275	28.178	0.440%	61.579	16.906	0.264%
N+10.88	110	10.88	72.258	20.161	0.560%	59.633	14.96	0.416%
N+7.28	46	7.28	52.097	24.893	0.691%	44.673	21.672	0.602%
N+3.68	88	3.68	27.204	27.204	0.756%	23.001	23.001	0.639%
N+0.08	80	0.08	0			0		

COMBO DERX_4

		COMBO DERZ_4						
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	-78.976	-28.182	0.440%	-65.221	-17.756	0.277%
N+10.88	110	10.88	-68.97	-18.176	0.505%	-62.749	-15.284	0.425%
N+7.28	46	7.28	-50.794	-24.498	0.681%	-47.465	-22.671	0.630%
N+3.68	88	3.68	-26.296	-26.296	0.730%	-24.794	-24.794	0.689%
N+0.08	80	0.08	0			0		

EJE: A-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	56.571	20.417	0.482%	68.395	21.892	0.516%
N+10.88	111	10.88	53.466	17.312	0.481%	65.866	19.363	0.538%
N+7.28	51	7.28	36.154	17.251	0.479%	46.503	23.106	0.642%
N+3.68	34	3.68	18.903	18.903	0.525%	23.397	23.397	0.650%
N+0.08	17	0.08	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	-62.808	-26.865	0.634%	-73.975	-21.57	0.509%
N+10.88	111	10.88	-60.93	-24.987	0.694%	-71.922	-19.517	0.542%
N+7.28	51	7.28	-35.943	-17.296	0.480%	-52.405	-25.313	0.703%
N+3.68	34	3.68	-18.647	-18.647	0.518%	-27.092	-27.092	0.753%
N+0.08	17	0.08	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	57.767	21.631	0.510%	69.597	21.84	0.515%
N+10.88	111	10.88	54.882	18.746	0.521%	67.166	19.409	0.539%
N+7.28	51	7.28	36.136	17.273	0.480%	47.757	23.573	0.655%
N+3.68	34	3.68	18.863	18.863	0.524%	24.184	24.184	0.672%
N+0.08	17	0.08	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	-61.612	-25.65	0.605%	-72.773	-21.622	0.510%
N+10.88	111	10.88	-59.515	-23.553	0.654%	-70.623	-19.472	0.541%
N+7.28	51	7.28	-35.962	-17.275	0.480%	-51.151	-24.846	0.690%
N+3.68	34	3.68	-18.687	-18.687	0.519%	-26.305	-26.305	0.731%
N+0.08	17	0.08	0			0		

EJE: C-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	60.081	23.91	0.373%	60.593	16.767	0.262%
N+10.88	112	10.88	54.043	17.872	0.496%	58.703	14.877	0.413%
N+7.28	93	7.28	36.171	17.287	0.480%	43.826	21.604	0.600%
N+3.68	85	3.68	18.884	18.884	0.525%	22.222	22.222	0.617%
N+0.08	77	0.08	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	-59.441	-23.623	0.369%	-65.716	-17.303	0.270%
N+10.88	112	10.88	-49.217	-13.399	0.372%	-64.663	-16.25	0.451%
N+7.28	93	7.28	-35.818	-17.136	0.476%	-48.413	-23.081	0.641%
N+3.68	85	3.68	-18.682	-18.682	0.519%	-25.332	-25.332	0.704%
N+0.08	77	0.08	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	60.009	23.883	0.373%	61.667	16.88	0.263%
N+10.88	112	10.88	53.24	17.114	0.475%	59.93	15.143	0.421%
N+7.28	93	7.28	36.126	17.271	0.480%	44.787	21.904	0.608%
N+3.68	85	3.68	18.855	18.855	0.524%	22.883	22.883	0.636%
N+0.08	77	0.08	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	-59.513	-23.651	0.369%	-64.642	-17.189	0.268%
N+10.88	112	10.88	-50.02	-14.158	0.393%	-63.436	-15.983	0.444%
N+7.28	93	7.28	-35.862	-17.152	0.476%	-47.453	-22.782	0.633%
N+3.68	85	3.68	-18.71	-18.71	0.520%	-24.671	-24.671	0.685%
N+0.08	77	0.08	0			0		



JARDÍN INFANTIL CAMPO VERDE.
MODULO A, UMBRAL DE DAÑO.

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 18 abril de 2018

ESPECTRO PARA UMBRAL DE DAÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: **181_JARDIN CAMPO VERDE**

Ciudad: **Bogotá**

CALCULÓ: **JDH**

Sistema Estructural: **PÓRTICOS EN CONCRETO**

Zona Microzonificación: **ALUVIAL 200**

PARÁMETROS SÍSMICOS

$A_d = 0.06$

$F_a = 1.2$

$A_v = 0.20$

$F_v = 2.9$

$A_{0d} = 0.07$

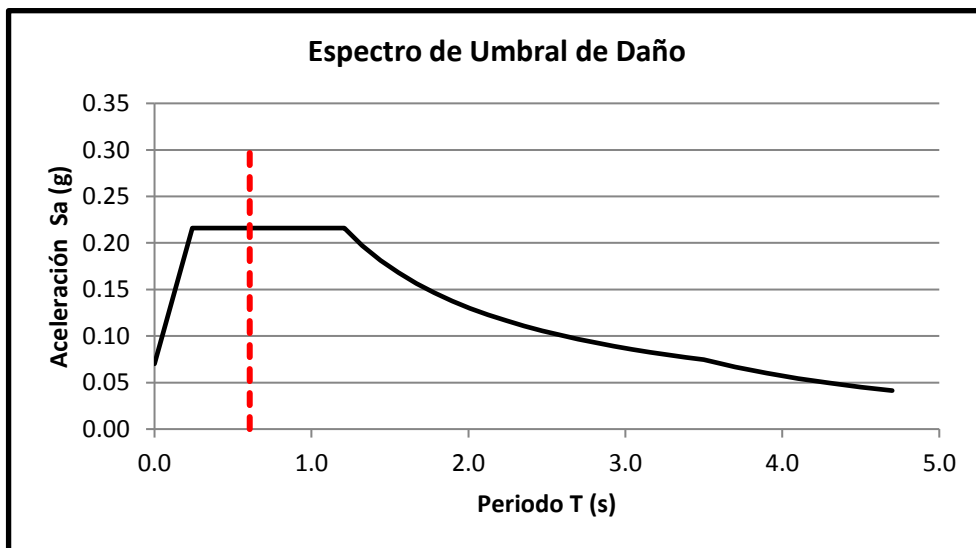
Grupo de Uso **III**

$T_{0d} (s) = 0.242$

$I = 1.25$

$T_{cd} (s) = 1.21$

$T_{ld} (s) = 3.5$



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: **Porticos de concreto**

$h (m) = 14$

$T_a (s) = 0.505$

$C_t = 0.047$

$C_u = 1.2$

$\alpha = 0.9$

$C_u * T_a = 0.606 s$

PARA ANÁLISIS DINÁMICO

Periodo calculado, $T_x = 0.710 s$

$T_z = 0.624 s$

Chequeo A.5.4.5 $T < C_u * T_a$: Usar $C_u * T_a$

Usar $C_u * T_a$

$T_x (s) = 0.606$

$T_z (s) = 0.606$

$S_{adx} = 0.216$

$S_{adz} = 0.216$

```
*****
*
*          STAAD.Pro V8i SELECTseries6          *
*          Version  20.07.11.90                  *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    JUL 11, 2018                 *
*          Time=    18:27:41                    *
*
*          USER ID:                             *
*****
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1. STAAD SPACE DXF IMPORT OF DRAWING1.DXF
INPUT FILE: X:\PROYECTOS 2018\181_JARDIN CAMPO VERDE\2. MODELOS\1.CURADURIA\MODULO A UMBRAL .STD
2. START JOB INFORMATION
3. ENGINEER DATE 19-APR-18
4. END JOB INFORMATION
5. INPUT WIDTH 79
6. UNIT METER MTON
7. JOINT COORDINATES
8. 5 0.263133 0.25 -27.6081; 6 0.263133 0.25 2.2345; 7 6.06313 0.25 -27.0895
9. 8 6.06313 0.25 2.23453; 9 11.8631 0.25 -26.5709; 10 11.8631 0.25 2.23456
10. 11 0.263133 0.25 -23.6155; 12 14.2631 0.25 -23.6155; 13 0.263133 0.25 -13.9155
11. 14 14.2631 0.25 -13.9155; 15 0.263133 0.25 -8.8155; 16 14.2631 0.25 -8.8155
12. 17 0.263133 0.25 -0.0154974; 19 14.2631 0.25 -26.3563; 21 11.8631 0.25 1.7845
13. 22 0.263133 3.85 -25.8655; 23 0.263133 3.85 2.2345; 24 6.06313 3.85 -25.8655
14. 25 6.06313 3.85 2.23453; 26 11.8631 3.85 -25.8655; 27 11.8631 3.85 2.23456
15. 28 0.263133 3.85 -23.6155; 29 14.2631 3.85 -23.6155; 30 0.263133 3.85 -13.9155
16. 31 14.2631 3.85 -13.9155; 32 0.263133 3.85 -8.8155; 33 14.2631 3.85 -8.8155
17. 34 0.263133 3.85 -0.0154974; 36 14.2631 3.85 -25.8655; 38 11.8631 3.85 1.7845
18. 39 0.263133 7.45 -25.8655; 40 0.263133 7.45 2.2345; 41 6.06313 7.45 -25.8655
19. 42 6.06313 7.45 2.23453; 43 11.8631 7.45 -25.8655; 44 11.8631 7.45 2.23456
20. 45 0.263133 7.45 -23.6155; 46 11.8631 7.45 -23.6155; 47 0.263133 7.45 -13.9155
21. 48 11.8631 7.45 -13.9155; 49 0.263133 7.45 -8.8155; 50 11.8631 7.45 -8.8155
22. 51 0.263133 7.45 -0.0154974; 55 11.8631 7.45 1.7845; 56 11.8631 7.45 -8.5155
23. 57 0.263133 11.1 2.23452; 58 0.263133 11.1 -8.8155; 59 11.8631 11.1 2.23452
24. 60 11.8631 11.1 -8.8155; 61 0.263133 11.1 -13.9146; 63 0.263133 11.1 -25.8655
25. 64 11.8631 11.1 -25.8655; 65 0.863133 11.1 -8.8155; 67 0.263133 14.55 -9.9655
26. 68 11.8631 14.55 2.23452; 69 11.8631 11.1 -9.9655; 70 0.263133 14.55 -13.915
27. 72 11.863 14.55 -25.8655; 73 6.06313 0.25 -0.0154974; 74 6.06313 0.25 -8.8155
28. 75 6.06313 0.25 -13.9155; 76 6.06313 0.25 -23.6155; 77 11.8631 0.25 -0.0154974
29. 78 11.8631 0.25 -8.8155; 79 11.8631 0.25 -13.9155; 80 11.8631 0.25 -23.6155
30. 81 6.06313 3.85 -0.0154974; 82 6.06313 3.85 -8.8155; 83 6.06313 3.85 -13.9155
31. 84 6.06313 3.85 -23.6155; 85 11.8631 3.85 -0.0154974; 86 11.8631 3.85 -8.8155
32. 87 11.8631 3.85 -13.9155; 88 11.8631 3.85 -23.6155; 89 6.06313 7.45 -0.0154974
33. 90 6.06313 7.45 -8.8155; 91 6.06313 7.45 -13.9155; 92 6.06313 7.45 -23.6155
34. 93 11.8631 7.45 -0.0154974; 109 0.263133 11.1 -23.6155
35. 110 11.8631 11.1 -23.6155; 111 0.263133 11.1 -0.0154808
36. 112 11.8631 11.1 -0.0154808; 113 11.8631 11.1 -13.9155
37. 115 11.8631 13.9004 -23.6155; 118 11.8631 13.9137 -0.0154808
38. 121 0.263133 14.2248 -8.8155; 122 0.263133 11.7363 -0.0154808
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39. 124 0.263133 11.7496 -23.6154; 131 9.67902 14.55 -23.6155
40. 132 9.72377 14.55 -0.0154974; 134 11.8631 11.4252 -8.8155
41. 137 1.35657 14.55 -8.8155; 138 0.263133 0.25 -2.2155
42. 140 0.263133 3.85 -2.2155; 142 0.263133 7.45 -2.2155; 144 6.06313 0.25 -2.2155
43. 145 11.8631 0.25 -2.2155; 146 6.06313 3.85 -2.2155; 147 11.8631 3.85 -2.2155
44. 148 6.06313 7.45 -2.2155; 149 11.8631 7.45 -2.2155; 150 0.263133 0.25 -4.4155
45. 152 0.263133 3.85 -4.4155; 154 0.263133 7.45 -4.4155; 156 6.06313 0.25 -4.4155
46. 157 11.8631 0.25 -4.4155; 158 6.06313 3.85 -4.4155; 159 11.8631 3.85 -4.4155
47. 160 6.06313 7.45 -4.4155; 161 11.8631 7.45 -4.4155; 162 0.263133 0.25 -6.6155
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52. 179 11.8631 7.45 -11.3155; 180 6.06313 0.25 -11.3155
53. 181 11.8631 0.25 -11.3155; 182 6.06313 3.85 -11.3155
54. 183 11.8631 3.85 -11.3155; 184 6.06313 7.45 -11.3155
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57. 189 0.263133 7.45 -15.8655; 190 11.8631 7.45 -15.8655
58. 191 6.06313 0.25 -15.8655; 192 11.8631 0.25 -15.8655
59. 193 6.06313 3.85 -15.8655; 194 11.8631 3.85 -15.8655
60. 195 6.06313 7.45 -15.8655; 196 0.263133 0.25 -17.8155
61. 197 14.2631 0.25 -17.8155; 198 0.263133 3.85 -17.8155
62. 199 14.2631 3.85 -17.8155; 200 0.263133 7.45 -17.8155
63. 201 11.8631 7.45 -17.8155; 202 6.06313 0.25 -17.8155
64. 203 11.8631 0.25 -17.8155; 204 6.06313 3.85 -17.8155
65. 205 11.8631 3.85 -17.8155; 206 6.06313 7.45 -17.8155
66. 207 0.263133 0.25 -19.7655; 208 14.2631 0.25 -19.7655
67. 209 0.263133 3.85 -19.7655; 210 14.2631 3.85 -19.7655
68. 211 0.263133 7.45 -19.7655; 212 11.8631 7.45 -19.7655
69. 213 6.06313 0.25 -19.7655; 214 11.8631 0.25 -19.7655
70. 215 6.06313 3.85 -19.7655; 216 11.8631 3.85 -19.7655
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79. 235 5.26313 11.1 -8.8155; 237 7.46313 11.1 -8.8155; 239 9.66313 11.1 -8.8155
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81. 251 3.02313 11.9209 -25.8655; 275 0.263133 11.9372 -22.9655
82. 276 0.263133 12.7744 -20.0655; 277 0.263133 13.6116 -17.1655
83. 278 11.8631 13.6117 -22.6155; 279 11.8631 12.7745 -19.7155
84. 280 11.8631 11.9372 -16.8155; 281 9.1031 11.9209 -13.9154
85. 282 6.3431 12.7417 -13.9153; 283 3.5831 13.5626 -13.9151
86. 286 6.06321 14.55 -19.8904; 302 10.2455 14.55 -24.1991
87. 303 7.45699 14.55 -21.3263; 304 8.85092 14.55 -22.7624
88. 305 1.88098 14.55 -15.5817; 306 3.27551 14.55 -17.0184
89. 307 4.66944 14.55 -18.4545; 308 8.00753 14.0529 -23.6155
90. 309 5.22096 13.2241 -23.6155; 310 2.4473 12.3992 -23.6154
91. 311 10.8416 14.2042 -23.6155; 314 6.06312 14.55 -3.8655
92. 341 9.1031 11.9209 -9.9655; 342 6.3431 12.7417 -9.9655
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99. 355 8.82181 14.55 -0.964113; 356 1.92509 14.55 -8.21758
100. 357 3.30443 14.55 -6.76688; 358 4.68378 14.55 -5.31619
101. 359 7.92063 14.0137 -0.0154942; 360 5.16184 13.1932 -0.0154894
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104. 365 2.49225 14.2122 -8.8155; 366 10.6774 14.2664 -0.01549
105. 367 9.66313 11.1 -13.9153; 368 7.46313 11.1 -13.9152; 369 5.26313 11.1 -13.915
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110. MEMBER INCIDENCES
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113. 21 34 81; 22 36 29; 23 23 25; 25 22 24; 26 39 45; 27 41 92; 28 43 46; 29 45 92
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124. 113 49 166; 114 380 382; 115 45 222; 116 89 42; 117 90 172; 118 91 184
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138. 291 148 149; 292 150 138; 294 152 140; 296 154 142; 298 156 144; 299 157 145
139. 300 158 146; 301 159 147; 302 160 148; 303 161 149; 304 150 156; 305 152 158
140. 306 154 160; 308 156 157; 310 158 159; 312 160 161; 313 162 150; 315 164 152
141. 317 166 154; 319 168 156; 320 169 157; 321 170 158; 322 171 159; 323 172 160
142. 324 173 161; 325 162 168; 326 164 170; 327 166 172; 329 168 169; 331 170 171
143. 333 172 173; 334 174 15; 335 175 16; 336 381 378; 337 177 33; 338 382 383
144. 339 179 50; 340 180 74; 341 181 78; 342 182 82; 343 183 86; 344 184 90
145. 345 174 180; 348 181 175; 349 180 181; 350 183 177; 351 182 183; 352 184 179
146. 353 185 13; 354 186 14; 355 187 30; 356 188 31; 357 189 47; 358 190 48
147. 359 191 75; 360 192 79; 361 193 83; 362 194 87; 363 195 91; 364 185 191
148. 365 187 193; 366 189 195; 367 192 186; 368 191 192; 369 194 188; 370 193 194
149. 371 195 190; 372 196 185; 373 197 186; 374 198 187; 375 199 188; 376 200 189
150. 377 201 190; 378 202 191; 379 203 192; 380 204 193; 381 205 194; 382 206 195

151. 383 196 202; 384 198 204; 385 200 206; 386 203 197; 387 202 203; 388 205 199
152. 389 204 205; 390 206 201; 391 207 196; 392 208 197; 393 209 198; 394 210 199
153. 395 211 200; 396 212 201; 397 213 202; 398 214 203; 399 215 204; 400 216 205
154. 401 217 206; 402 207 213; 403 209 215; 404 211 217; 405 214 208; 406 213 214
155. 407 216 210; 408 215 216; 409 217 212; 410 218 207; 411 219 208; 412 220 209
156. 413 221 210; 414 222 211; 415 223 212; 416 224 213; 417 225 214; 418 226 215
157. 419 227 216; 420 228 217; 421 218 224; 422 220 226; 423 222 228; 424 225 219
158. 425 224 225; 426 227 221; 427 226 227; 428 228 223; 429 229 11; 430 230 12
159. 431 231 76; 432 232 80; 433 229 231; 434 232 230; 435 231 232; 438 233 370
160. 440 235 369; 442 237 368; 444 239 367; 455 249 72; 456 250 249; 457 251 250
161. 488 275 124; 489 276 275; 490 277 276; 491 278 115; 492 279 278; 493 280 279
162. 494 281 113; 495 282 281; 496 283 282; 498 113 286; 499 286 307; 500 286 310
163. 504 251 309; 505 250 308; 506 249 302; 508 282 306; 509 283 305; 510 281 307
164. 513 65 233; 515 110 64; 518 233 235; 519 235 237; 520 237 239; 521 239 60
165. 522 302 131; 523 303 286; 524 304 303; 525 305 70; 526 306 305; 527 307 306
166. 528 303 280; 529 304 279; 530 302 311; 531 306 276; 532 305 277; 533 307 275
167. 534 308 131; 535 309 308; 536 310 309; 537 311 115; 538 310 63; 539 309 303
168. 540 308 304; 541 311 278; 543 69 362; 544 314 358; 545 314 361; 581 346 360
169. 582 345 359; 583 344 347; 584 353 358; 585 352 357; 586 351 356; 599 341 69
170. 600 342 341; 601 343 342; 602 344 68; 603 345 344; 604 346 345; 605 347 132
171. 606 348 134; 607 349 348; 608 350 349; 609 351 121; 610 352 351; 611 353 352
172. 612 354 314; 613 355 354; 614 356 137; 615 357 356; 616 358 357; 617 354 348
173. 618 355 349; 619 347 366; 620 358 363; 621 357 364; 622 356 365; 623 359 132
174. 624 360 359; 625 361 360; 626 361 57; 627 360 354; 628 359 355; 629 362 134
175. 630 363 362; 631 364 363; 632 365 364; 633 362 314; 634 363 341; 635 364 342
176. 636 365 343; 637 60 69; 769 366 118; 770 366 350; 825 111 58; 826 367 113
177. 827 368 367; 828 369 368; 829 370 369; 830 371 370; 832 112 60; 838 109 63
178. 839 111 57; 840 90 383; 841 82 378; 842 91 380; 843 83 379; 844 182 381
179. 845 184 382
180. ELEMENT INCIDENCES SHELL
181. 638 6 8 73 17; 639 8 10 77 73; 641 17 73 144 138; 642 73 77 145 144
182. 644 138 144 156 150; 645 144 145 157 156; 647 150 156 168 162
183. 648 156 157 169 168; 650 162 168 74 15; 651 168 169 78 74; 653 15 74 180 174
184. 654 74 78 181 180; 655 78 16 175 181; 656 174 180 75 13; 657 180 181 79 75
185. 658 181 175 14 79; 659 13 75 191 185; 660 75 79 192 191; 661 79 14 186 192
186. 662 185 191 202 196; 663 191 192 203 202; 664 192 186 197 203
187. 665 196 202 213 207; 666 202 203 214 213; 667 203 197 208 214
188. 668 207 213 224 218; 669 213 214 225 224; 670 214 208 219 225
189. 671 218 224 76 11; 672 224 225 80 76; 673 225 219 12 80; 674 11 76 231 229
190. 675 76 80 232 231; 676 80 12 230 232; 677 229 231 7 5; 678 231 232 9 7
191. 679 232 230 19 9; 684 23 25 81 34; 685 25 27 85 81; 687 34 81 146 140
192. 688 81 85 147 146; 690 140 146 158 152; 691 146 147 159 158
193. 693 152 158 170 164; 694 158 159 171 170; 696 164 170 82 32; 697 170 171 86 82
194. 700 82 86 183 182; 701 86 33 177 183; 703 182 183 87 83; 704 183 177 31 87
195. 705 30 83 193 187; 706 83 87 194 193; 707 87 31 188 194; 708 187 193 204 198
196. 709 193 194 205 204; 710 194 188 199 205; 711 198 204 215 209
197. 712 204 205 216 215; 713 205 199 210 216; 714 209 215 226 220
198. 715 215 216 227 226; 716 216 210 221 227; 717 220 226 84 28; 718 226 227 88 84
199. 719 227 221 29 88; 720 28 84 24 22; 721 84 88 26 24; 722 88 29 36 26
200. 723 40 42 89 51; 724 42 44 93 89; 726 51 89 148 142; 727 89 93 149 148
201. 729 142 148 160 154; 730 148 149 161 160; 732 154 160 172 166
202. 733 160 161 173 172; 735 166 172 90 49; 736 172 173 50 90; 739 90 50 179 184
203. 742 184 179 48 91; 744 47 91 195 189; 745 91 48 190 195; 747 189 195 206 200
204. 748 195 190 201 206; 750 200 206 217 211; 751 206 201 212 217
205. 753 211 217 228 222; 754 217 212 223 228; 756 222 228 92 45; 757 228 223 46 92
206. 759 45 92 41 39; 760 92 46 43 41; 762 65 233 370 371; 763 233 235 369 370

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207. 764 235 237 368 369; 765 237 239 367 368; 766 57 346 360 361
 208. 767 346 345 359 360; 768 345 344 347 359; 771 347 68 118 366
 209. 772 122 361 314 358; 773 361 360 354 314; 774 360 359 355 354
 210. 775 132 366 350 349; 776 354 355 349 348; 777 314 354 348 134
 211. 778 358 314 362 363; 779 357 358 363 364; 780 353 358 357 352
 212. 781 352 357 356 351; 782 357 364 365 356; 783 351 356 137 121
 213. 784 137 365 343 67; 785 365 364 342 343; 786 364 363 341 342
 214. 787 363 362 69 341; 788 283 282 306 305; 789 282 281 307 306
 215. 790 281 113 286 307; 791 113 280 303 286; 792 280 279 304 303
 216. 793 279 278 311 131; 794 311 115 72 302; 795 305 306 276 277
 217. 796 306 307 275 276; 797 307 286 310 275; 798 286 303 309 310
 218. 799 303 304 308 309; 800 310 309 251 63; 801 309 308 250 251
 219. 802 308 131 302 249; 803 70 283 305; 804 70 305 277; 805 304 279 131
 220. 806 311 278 115; 807 304 131 308; 808 131 311 302; 809 302 72 249
 221. 810 308 249 250; 811 275 310 124; 812 124 310 63; 813 344 68 347
 222. 814 57 361 122; 815 122 358 353; 816 359 132 355; 817 359 347 132
 223. 818 347 366 132; 819 366 118 350; 820 132 349 355; 821 314 134 362
 224. 822 362 134 69; 823 356 365 137; 824 121 137 67; 837 239 367 113 60
 225. 855 378 82 182 381; 858 381 182 83 379; 862 383 90 184 382; 865 382 184 91 380
 226. START GROUP DEFINITION

WARNING PLATE NO. 815(JOINTS 122 - 358 - 353 - 0)

IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

227. MEMBER
 228. _COL 155 TO 176 178 TO 182 187 188 193 194 196 197 199 201 202 205 206 214
 229. END GROUP DEFINITION
 230. ELEMENT PROPERTY
 231. 638 639 641 642 644 645 647 648 650 651 653 TO 679 684 685 687 688 690 691 -
 232. 693 694 696 697 700 701 703 TO 724 726 727 729 730 732 733 735 736 739 742 -
 233. 744 745 747 748 750 751 753 754 756 757 759 760 762 TO 768 771 TO 824 837 -
 234. 855 858 862 865 THICKNESS 0.12
 235. DEFINE MATERIAL START
 236. ISOTROPIC CONCRETE
 237. E 2.487E+006
 238. POISSON 0.17
 239. DENSITY 2.40262
 240. ALPHA 1E-005
 241. DAMP 0.05
 242. TYPE CONCRETE
 243. STRENGTH FCU 2812.28
 244. ISOTROPIC DIAFRAGMA
 245. E 2.487E+006
 246. POISSON 0.17
 247. DENSITY 0.0002
 248. ALPHA 1E-005
 249. DAMP 0.05
 250. G 946439
 251. TYPE CONCRETE
 252. STRENGTH FCU 2812.28
 253. ISOTROPIC CONC28
 254. E 2.487E+006
 255. POISSON 0.17
 256. DENSITY 2.40262
 257. ALPHA 1E-005
 258. DAMP 0.05
 259. G 946439

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260. TYPE CONCRETE
261. STRENGTH FCU 2812.28
262. END DEFINE MATERIAL
263. MEMBER PROPERTY AMERICAN
264. 11 13 22 23 25 34 36 79 80 83 107 TO 111 132 133 335 337 354 356 373 375 392 -
265. 394 411 413 430 PRIS YD 0.6 ZD 0.2
266. 159 TO 170 175 176 193 194 196 199 201 202 205 PRIS YD 0.5 ZD 0.8
267. 157 158 173 174 178 180 TO 182 214 PRIS YD 0.5
268. 7 TO 10 12 19 20 30 31 40 41 69 TO 74 76 81 82 99 TO 102 127 128 513 -
269. 518 TO 521 826 TO 830 840 TO 843 PRIS YD 0.6 ZD 0.4
270. 50 52 53 455 TO 457 599 TO 604 PRIS YD 0.6 ZD 0.2
271. MEMBER PROPERTY AMERICAN
272. 283 TO 285 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 348 -
273. 349 TO 352 364 TO 371 383 TO 390 402 TO 409 421 TO 428 433 TO 435 438 440 -
274. 442 444 498 500 504 TO 506 508 TO 510 528 TO 533 538 TO 541 543 545 -
275. 581 TO 586 617 TO 622 626 TO 628 633 TO 636 770 844 -
276. 845 PRIS YD 0.5 ZD 0.15
277. 54 55 210 211 217 499 522 TO 527 544 605 612 TO 616 PRIS YD 0.6 ZD 0.3
278. MEMBER PROPERTY AMERICAN
279. 5 6 16 27 60 TO 63 67 68 88 TO 91 116 TO 119 277 279 281 298 300 302 319 321 -
280. 323 340 TO 342 344 359 TO 361 363 378 TO 380 382 397 TO 399 401 416 TO 418 -
281. 420 431 432 PRIS YD 0.6 ZD 0.5
282. 15 17 26 28 42 44 45 84 TO 87 92 TO 96 112 TO 115 120 TO 125 136 195 273 275 -
283. 280 282 294 296 301 303 315 317 322 324 336 338 339 343 355 357 358 362 374 -
284. 376 377 381 393 395 396 400 412 414 415 419 515 637 825 832 838 -
285. 839 PRIS YD 0.7 ZD 0.5
286. 46 TO 49 51 198 200 203 204 207 215 216 218 488 TO 496 537 606 TO 611 629 -
287. 630 TO 632 PRIS YD 0.7 ZD 0.4
288. 179 PRIS YD 0.5 ZD 0.5
289. 155 156 171 172 187 188 197 206 PRIS YD 1 ZD 0.6
290. MEMBER PROPERTY AMERICAN
291. 18 21 29 32 97 98 104 126 130 208 209 212 213 534 TO 536 623 TO 625 -
292. 769 PRIS YD 0.7 ZD 0.6
293. MEMBER PROPERTY AMERICAN
294. 64 TO 66 278 299 320 PRIS YD 0.6 ZD 0.85
295. MEMBER PROPERTY
296. 4 56 TO 59 271 292 313 334 353 372 391 410 429 PRIS YD 0.6 ZD 0.65
297. CONSTANTS
298. BETA 90 MEMB 155 156 165 TO 172 187 188 197 202 205 206
299. MATERIAL CONC28 MEMB 5 TO 13 15 TO 17 19 20 22 23 25 TO 28 30 31 34 36 40 -
300. 41 TO 42 44 TO 55 60 TO 63 67 TO 74 76 79 TO 96 99 TO 102 107 TO 125 127 128 -
301. 132 133 136 155 TO 176 178 TO 182 187 188 193 TO 207 210 211 214 TO 218 273 -
302. 275 277 279 TO 285 287 289 291 294 296 298 300 TO 306 308 310 312 315 317 -
303. 319 321 TO 327 329 331 333 335 TO 345 348 TO 352 354 TO 371 373 TO 390 392 -
304. 393 TO 409 411 TO 428 430 TO 435 438 440 442 444 455 TO 457 488 TO 496 498 -
305. 499 TO 500 504 TO 506 508 TO 510 513 515 518 TO 533 537 TO 541 543 TO 545 -
306. 581 TO 586 599 TO 622 626 TO 639 641 642 644 645 647 648 650 651 653 TO 679 -
307. 684 685 687 688 690 691 693 694 696 697 700 701 703 TO 724 726 727 729 730 -
308. 732 733 735 736 739 742 744 745 747 748 750 751 753 754 756 757 759 760 762 -
309. 763 TO 768 770 TO 830 832 837 TO 845 855 858
310. MATERIAL DIAFRAGMA MEMB 638 639 641 642 644 645 647 648 650 651 653 TO 679 -
311. 684 685 687 688 690 691 693 694 696 697 700 701 703 TO 724 726 727 729 730 -
312. 732 733 735 736 739 742 744 745 747 748 750 751 753 754 756 757 759 760 762 -
313. 763 TO 768 771 TO 824 837 855 858 862 865
314. MATERIAL CONCRETE MEMB 4 18 21 29 32 56 TO 59 64 TO 66 97 98 104 126 130 208 -
315. 209 212 213 271 278 292 299 313 320 334 353 372 391 410 429 534 TO 536 623 -

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316. 624 TO 625 769
317. SUPPORTS
318. 11 13 15 17 73 TO 80 FIXED
319. ELEMENT PLANE STRESS
320. 638 639 641 642 644 645 647 648 650 651 653 TO 679 684 685 687 688 690 691 -
321. 693 694 696 697 700 701 703 TO 724 726 727 729 730 732 733 735 736 739 742 -
322. 744 745 747 748 750 751 753 754 756 757 759 760 762 TO 768 771 TO 824 837 -
323. 855 858
324. MEMBER RELEASE
325. 283 TO 285 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 349 -
326. 351 352 364 TO 366 368 370 371 383 TO 385 387 389 390 402 TO 404 406 408 -
327. 409 421 TO 423 425 427 428 433 435 438 440 442 444 844 845 START MX MY MZ
328. 283 TO 285 304 TO 306 325 TO 327 345 352 364 TO 366 371 383 TO 385 390 402 -
329. 403 TO 404 409 421 TO 423 428 433 844 845 END MX MY MZ
330. CUT OFF MODE SHAPE 25
331. LOAD 1 LOADTYPE DEAD TITLE DEAD
332. MEMBER LOAD
333. 7 TO 10 18 TO 21 29 TO 32 69 TO 74 76 97 TO 102 104 126 TO 128 130 -
334. 283 TO 285 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 -
335. 348 TO 352 364 TO 371 383 TO 390 402 TO 409 421 TO 428 433 TO 435 -
336. 840 TO 845 UNI GY -1.1
337. 12 13 23 25 34 36 81 TO 83 109 TO 111 132 133 UNI GY -0.5
338. 92 TO 94 96 280 301 322 362 381 400 419 438 440 442 444 498 500 504 TO 506 -
339. 508 TO 510 528 TO 533 538 TO 541 543 545 581 TO 586 617 TO 622 626 TO 628 -
340. 633 TO 636 770 UNI GY -1.
341. 17 UNI GY -1 0.25 2.25
342. 17 UNI GY -1 0 0.25
343. 12 13 16 23 25 34 36 44 46 TO 53 64 TO 67 81 TO 83 88 89 91 109 TO 111 132 -
344. 133 195 198 200 203 204 207 215 278 279 299 300 320 321 341 361 380 399 418 -
345. 455 TO 457 488 TO 496 599 TO 604 606 TO 611 UNI GY -0.5
346. 4 56 TO 59 271 292 313 334 353 372 391 410 429 UNI GY -2.3
347. 40 TO 42 45 136 513 515 518 TO 521 825 TO 830 832 UNI GY -0.32
348. SELFWEIGHT Y -1
349. MEMBER LOAD
350. 65 66 278 299 320 UNI GY -0.62
351. LOAD 2 LOADTYPE LIVE REDUCIBLE TITLE LIVE
352. MEMBER LOAD
353. 7 TO 10 29 TO 32 69 TO 74 76 97 99 101 126 TO 128 130 283 285 287 291 304 -
354. 306 308 312 325 327 329 333 345 348 TO 350 352 364 366 TO 369 371 383 385 -
355. 386 TO 388 390 402 404 TO 407 409 421 423 TO 426 428 433 TO 435 840 842 -
356. 845 UNI GY -1.1
357. 12 13 34 36 81 TO 83 132 133 UNI GY -0.61
358. 18 TO 21 98 100 102 104 284 289 305 310 326 331 351 365 370 384 389 403 408 -
359. 422 427 841 843 844 UNI GY -0.49
360. 438 440 442 444 498 500 504 TO 506 508 TO 510 528 TO 533 538 TO 541 543 545 -
361. 581 TO 586 617 TO 622 626 TO 628 633 TO 636 770 UNI GY -0.37
362. 44 46 TO 53 195 198 200 203 204 207 215 455 TO 457 488 TO 496 599 TO 604 606 -
363. 607 TO 611 UNI GY -0.19
364. 23 25 109 TO 111 UNI GY -0.24
365. 65 66 278 299 320 UNI GY -0.585
366. LOAD 3 LOADTYPE SEISMIC TITLE EQX
367. SPECTRUM CQC X 1.49 ACC SCALE 9.81 DAMP 0.05 LIN
368. 0 0.07; 0.242 0.216; 1.21 0.216; 1.325 0.197; 1.439 0.181; 1.554 0.168
369. 1.668 0.156; 1.783 0.146; 1.897 0.138; 2.012 0.13; 2.126 0.123; 2.241 0.116
370. 2.355 0.111; 2.47 0.106; 2.584 0.101; 2.699 0.097; 2.813 0.093; 2.928 0.089
371. 3.042 0.086; 3.157 0.083; 3.271 0.08; 3.386 0.077; 3.5 0.075; 3.7 0.067

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372. 3.9 0.06; 4.1 0.054; 4.3 0.049; 4.5 0.045; 4.7 0.041
373. MEMBER LOAD
374. 7 TO 10 18 TO 21 29 TO 32 69 TO 74 76 97 TO 102 104 126 TO 128 130 -
375. 283 TO 285 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 -
376. 348 TO 352 364 TO 371 383 TO 390 402 TO 409 421 TO 428 433 TO 434 -
377. 435 UNI GX 1.31
378. 845 UNI GX 1.31 0 2.9
379. 842 UNI GX 1.31 0 2.9
380. 840 UNI GX 1.31 0 2.9
381. 844 UNI GX 1.31 0 2.9
382. 843 UNI GX 1.31 0 2.9
383. 841 UNI GX 1.31 0 2.9
384. 12 13 23 25 34 36 81 TO 83 109 TO 111 132 133 UNI GX 0.65
385. 92 TO 94 96 280 301 322 362 381 400 419 438 440 442 444 498 500 504 TO 506 -
386. 508 TO 510 528 TO 533 538 TO 541 543 545 581 TO 586 617 TO 622 626 TO 628 -
387. 633 TO 636 770 UNI GX 1
388. 17 UNI GX 1 0.25 2.25
389. 17 UNI GX 1 0 0.25
390. 12 13 23 25 34 36 44 46 TO 53 64 TO 67 81 TO 83 88 89 91 109 TO 111 132 133 -
391. 195 198 200 203 204 207 215 278 279 299 300 320 321 341 361 380 399 418 455 -
392. 456 TO 457 488 TO 496 599 TO 604 606 TO 611 UNI GX 0.5
393. 16 UNI GX 0.5 0.25 2.25
394. 16 UNI GX 0.5 0 0.25
395. 4 56 TO 59 271 292 313 334 353 372 391 410 429 UNI GX 2.3
396. 40 TO 42 45 136 513 515 518 TO 521 825 TO 830 832 UNI GX 0.32
397. SELFWEIGHT X 1
398. MEMBER LOAD
399. 7 TO 10 18 TO 21 29 TO 32 69 TO 74 76 97 TO 102 104 126 TO 128 130 -
400. 283 TO 285 287 289 291 304 TO 306 308 310 312 325 TO 327 329 331 333 345 -
401. 348 TO 352 364 TO 371 383 TO 390 402 TO 409 421 TO 428 433 TO 434 -
402. 435 UNI GZ 1.31
403. 845 UNI GZ 1.31 0 2.9
404. 842 UNI GZ 1.31 0 2.9
405. 840 UNI GZ 1.31 0 2.9
406. 844 UNI GZ 1.31 0 2.9
407. 843 UNI GZ 1.31 0 2.9
408. 841 UNI GZ 1.31 0 2.9
409. 12 13 23 25 34 36 81 TO 83 109 TO 111 132 133 UNI GZ 0.65
410. 92 TO 94 96 280 301 322 362 381 400 419 438 440 442 444 498 500 504 TO 506 -
411. 508 TO 510 528 TO 533 538 TO 541 543 545 581 TO 586 617 TO 622 626 TO 628 -
412. 633 TO 636 770 UNI GZ 1
413. 17 UNI GZ 1 0.25 2.25
414. 17 UNI GZ 1 0 0.25
415. 12 13 23 25 34 36 44 46 TO 53 64 TO 67 81 TO 83 88 89 91 109 TO 111 132 133 -
416. 195 198 200 203 204 207 215 278 279 299 300 320 321 341 361 380 399 418 455 -
417. 456 TO 457 488 TO 496 599 TO 604 606 TO 611 UNI GZ 0.5
418. 16 UNI GZ 0.5 0.25 2.25
419. 16 UNI GZ 0.5 0 0.25
420. 4 56 TO 59 271 292 313 334 353 372 391 410 429 UNI GZ 2.3
421. 40 TO 42 45 136 513 515 518 TO 521 825 TO 830 832 UNI GZ 0.32
422. SELFWEIGHT Z 1
423. LOAD 4 LOADTYPE SEISMIC TITLE EQZ
424. SPECTRUM CQC Z 1.524 ACC SCALE 9.81 DAMP 0.05 LIN
425. *COMBINACIONES DERIVA
426. 0 0.07; 0.242 0.216; 1.21 0.216; 1.325 0.197; 1.439 0.181; 1.554 0.168
427. 1.668 0.156; 1.783 0.146; 1.897 0.138; 2.012 0.13; 2.126 0.123; 2.241 0.116

428. 2.355 0.111; 2.47 0.106; 2.584 0.101; 2.699 0.097; 2.813 0.093; 2.928 0.089
429. 3.042 0.086; 3.157 0.083; 3.271 0.08; 3.386 0.077; 3.5 0.075; 3.7 0.067
430. 3.9 0.06; 4.1 0.054; 4.3 0.049; 4.5 0.045; 4.7 0.041
431. LOAD COMB 5 DERX1
432. 1 1.2 2 1.0 3 0.8
433. LOAD COMB 6 DERX2
434. 1 1.2 2 1.0 3 -0.8
435. LOAD COMB 7 DERZ1
436. 1 1.2 2 1.0 4 0.8
437. LOAD COMB 8 DERZ2
438. 1 1.2 2 1.0 4 -0.8
439. LOAD COMB 9 DERX3
440. 1 0.9 3 0.8
441. LOAD COMB 10 DERX4
442. 1 0.9 3 -0.8
443. LOAD COMB 11 DERZ3
444. 1 0.9 4 0.8
445. LOAD COMB 12 DERZ4
446. 1 0.9 4 -0.8
447. *COMBINACIONES DISENO
448. LOAD COMB 13 COM1
449. 1 1.4
450. LOAD COMB 14 COM2
451. 1 1.2 2 1.6
452. LOAD COMB 15 COM3
453. 1 1.2 2 1.0 3 0.2 4 0.06
454. LOAD COMB 16 COM4
455. 1 1.2 2 1.0 3 0.2 4 -0.06
456. LOAD COMB 17 COM5
457. 1 1.2 2 1.0 3 -0.2 4 -0.06
458. LOAD COMB 18 COM6
459. 1 1.2 2 1.0 3 -0.2 4 0.06
460. LOAD COMB 19 COM7
461. 1 1.2 2 1.0 3 0.06 4 0.2
462. LOAD COMB 20 COM8
463. 1 1.2 2 1.0 3 0.06 4 -0.2
464. LOAD COMB 21 COM9
465. 1 1.2 2 1.0 3 -0.06 4 -0.2
466. LOAD COMB 22 COM10
467. 1 1.2 2 1.0 3 -0.06 4 0.2
468. LOAD COMB 23 COM11
469. 1 0.9 3 0.2 4 0.06
470. LOAD COMB 24 COM12
471. 1 0.9 3 0.2 4 -0.06
472. LOAD COMB 25 COM13
473. 1 0.9 3 -0.2 4 -0.06
474. LOAD COMB 26 COM14
475. 1 0.9 3 -0.2 4 0.06
476. LOAD COMB 27 COM15
477. 1 0.9 3 0.06 4 0.2
478. LOAD COMB 28 COM16
479. 1 0.9 3 0.06 4 -0.2
480. LOAD COMB 29 COM17
481. 1 0.9 3 -0.06 4 -0.2
482. LOAD COMB 30 COM18
483. 1 0.9 3 -0.06 4 0.2

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484. *COMBINACIONES CIMENTACION
485. LOAD COMB 31 CIM
486. 1 1.0 2 1.0
487. LOAD COMB 32 CIMX1
488. 1 0.9 3 0.14 4 0.042
489. LOAD COMB 33 CIMX2
490. 1 0.9 3 -0.14 4 0.042
491. LOAD COMB 34 CIMX3
492. 1 0.9 3 0.14 4 -0.042
493. LOAD COMB 35 CIMX4
494. 1 0.9 3 -0.14 4 -0.042
495. LOAD COMB 36 CIMX5
496. 1 0.9 3 0.042 4 0.14
497. LOAD COMB 37 CIMX6
498. 1 0.9 3 -0.042 4 0.14
499. LOAD COMB 38 CIMX7
500. 1 0.9 3 0.042 4 -0.14
501. LOAD COMB 39 CIMX8
502. 1 0.9 3 -0.05 4 -0.14
503. LOAD COMB 40 CIMX9
504. 3 0.14 4 0.042 1 1.0 2 1.0
505. LOAD COMB 41 CIMX10
506. 3 0.14 4 -0.042 1 1.0 2 1.0
507. LOAD COMB 42 CIMX11
508. 3 -0.14 4 0.042 1 1.0 2 1.0
509. LOAD COMB 43 CIMX12
510. 3 -0.14 4 -0.042 1 1.0 2 1.0
511. LOAD COMB 44 CIMX13
512. 3 0.042 4 0.14 1 1.0 2 1.0
513. LOAD COMB 45 CIMX14
514. 3 0.042 4 -0.14 1 1.0 2 1.0
515. LOAD COMB 46 CIMX15
516. 3 -0.042 4 0.14 1 1.0 2 1.0
517. LOAD COMB 47 CIMX16
518. 3 -0.042 4 -0.14 1 1.0 2 1.0
519. PERFORM ANALYSIS

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P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	242	NUMBER OF MEMBERS	431
NUMBER OF PLATES	159	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	12

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

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ORIGINAL/FINAL BAND-WIDTH= 214/ 39/ 240 DOF
TOTAL PRIMARY LOAD CASES = 4, TOTAL DEGREES OF FREEDOM = 1380
TOTAL LOAD COMBINATION CASES = 43 SO FAR.
SIZE OF STIFFNESS MATRIX = 332 DOUBLE KILO-WORDS

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Node	L/C	X	Y	Z	Resultant	rX	rY	rZ
		(mm)	(mm)	(mm)	(mm)	(rad)	(rad)	(rad)
5	5:DERX1	0.000	-12.949	0.000	12.949	-0.004	0.000	-0.001
	6:DERX2	-0.000	-12.949	-0.000	12.949	-0.004	-0.000	-0.001
	7:DERZ1	0.000	-12.949	0.000	12.949	-0.004	0.000	-0.001
	8:DERZ2	-0.000	-12.949	-0.000	12.949	-0.004	-0.000	-0.001
	9:DERX3	0.000	-7.650	0.000	7.650	-0.003	0.000	-0.000
	10:DERX4	-0.000	-7.650	-0.000	7.650	-0.003	-0.000	-0.000
	11:DERZ3	0.000	-7.650	0.000	7.650	-0.003	0.000	-0.000
	12:DERZ4	-0.000	-7.650	-0.000	7.650	-0.003	-0.000	-0.000
6	5:DERX1	0.000	-1.458	0.000	1.458	0.001	0.000	-0.001
	6:DERX2	-0.000	-1.458	-0.000	1.458	0.001	-0.000	-0.001
	7:DERZ1	0.000	-1.458	0.000	1.458	0.001	0.000	-0.001
	8:DERZ2	-0.000	-1.458	-0.000	1.458	0.001	-0.000	-0.001
	9:DERX3	0.000	-0.868	0.000	0.868	0.001	0.000	-0.000
	10:DERX4	-0.000	-0.868	-0.000	0.868	0.001	-0.000	-0.000
	11:DERZ3	0.000	-0.868	0.000	0.868	0.001	0.000	-0.000
	12:DERZ4	-0.000	-0.868	-0.000	0.868	0.001	-0.000	-0.000
7	5:DERX1	0.000	-12.805	0.000	12.805	-0.005	0.000	0.000
	6:DERX2	-0.000	-12.805	-0.000	12.805	-0.005	-0.000	0.000
	7:DERZ1	0.000	-12.805	0.000	12.805	-0.005	0.000	0.000
	8:DERZ2	-0.000	-12.805	-0.000	12.805	-0.005	-0.000	0.000
	9:DERX3	0.000	-7.101	0.000	7.101	-0.003	0.000	0.000
	10:DERX4	-0.000	-7.101	-0.000	7.101	-0.003	-0.000	0.000
	11:DERZ3	0.000	-7.101	0.000	7.101	-0.003	0.000	0.000
	12:DERZ4	-0.000	-7.101	-0.000	7.101	-0.003	-0.000	0.000
8	5:DERX1	0.000	-2.504	0.000	2.504	0.002	0.000	0.000
	6:DERX2	-0.000	-2.504	-0.000	2.504	0.002	-0.000	0.000
	7:DERZ1	0.000	-2.504	0.000	2.504	0.002	0.000	0.000
	8:DERZ2	-0.000	-2.504	-0.000	2.504	0.002	-0.000	0.000
	9:DERX3	0.000	-1.380	0.000	1.380	0.001	0.000	0.000
	10:DERX4	-0.000	-1.380	-0.000	1.380	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.380	0.000	1.380	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.380	-0.000	1.380	0.001	-0.000	0.000
9	5:DERX1	0.000	-7.988	0.000	7.988	-0.004	0.000	0.001
	6:DERX2	-0.000	-7.988	-0.000	7.988	-0.004	-0.000	0.001
	7:DERZ1	0.000	-7.988	0.000	7.988	-0.004	0.000	0.001
	8:DERZ2	-0.000	-7.988	-0.000	7.988	-0.004	-0.000	0.001
	9:DERX3	0.000	-4.320	0.000	4.320	-0.002	0.000	0.000
	10:DERX4	-0.000	-4.320	-0.000	4.320	-0.002	-0.000	0.000
	11:DERZ3	0.000	-4.320	0.000	4.320	-0.002	0.000	0.000
	12:DERZ4	-0.000	-4.320	-0.000	4.320	-0.002	-0.000	0.000
10	5:DERX1	0.000	-1.281	0.000	1.281	0.001	0.000	0.001
	6:DERX2	-0.000	-1.281	-0.000	1.281	0.001	-0.000	0.001
	7:DERZ1	0.000	-1.281	0.000	1.281	0.001	0.000	0.001
	8:DERZ2	-0.000	-1.281	-0.000	1.281	0.001	-0.000	0.001
	9:DERX3	0.000	-0.735	0.000	0.735	0.000	0.000	0.000
	10:DERX4	-0.000	-0.735	-0.000	0.735	0.000	-0.000	0.000
	11:DERZ3	0.000	-0.735					

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
12	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	-2.346	0.000	2.346	-0.000	0.000	-0.001
	6:DERX2	-0.000	-2.346	-0.000	2.346	-0.000	-0.000	-0.001
	7:DERZ1	0.000	-2.346	0.000	2.346	-0.000	0.000	-0.001
	8:DERZ2	-0.000	-2.346	-0.000	2.346	-0.000	-0.000	-0.001
	9:DERX3	0.000	-1.279	0.000	1.279	-0.000	0.000	-0.001
	10:DERX4	-0.000	-1.279	-0.000	1.279	-0.000	-0.000	-0.001
	11:DERZ3	0.000	-1.279	0.000	1.279	-0.000	0.000	-0.001
	12:DERZ4	-0.000	-1.279	-0.000	1.279	-0.000	-0.000	-0.001
13	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	5:DERX1	0.000	-1.999	0.000	1.999	-0.001	0.000	-0.001
	6:DERX2	-0.000	-1.999	-0.000	1.999	-0.001	-0.000	-0.001
	7:DERZ1	0.000	-1.999	0.000	1.999	-0.001	0.000	-0.001
	8:DERZ2	-0.000	-1.999	-0.000	1.999	-0.001	-0.000	-0.001
	9:DERX3	0.000	-1.103	0.000	1.103	-0.000	0.000	-0.001
	10:DERX4	-0.000	-1.103	-0.000	1.103	-0.000	-0.000	-0.001
	11:DERZ3	0.000	-1.103	0.000	1.103	-0.000	0.000	-0.001
	12:DERZ4	-0.000	-1.103	-0.000	1.103	-0.000	-0.000	-0.001
15	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	5:DERX1	0.000	-0.953	0.000	0.953	-0.000	0.000	-0.001
	6:DERX2	-0.000	-0.953	-0.000	0.953	-0.000	-0.000	-0.001
	7:DERZ1	0.000	-0.953	0.000	0.953	-0.000	0.000	-0.001
	8:DERZ2	-0.000	-0.953	-0.000	0.953	-0.000	-0.000	-0.001
	9:DERX3	0.000	-0.520	0.000	0.520	-0.000	0.000	-0.000
	10:DERX4	-0.000	-0.520	-0.000	0.520	-0.000	-0.000	-0.000
	11:DERZ3	0.000	-0.520	0.000	0.520	-0.000	0.000	-0.000
	12:DERZ4	-0.000	-0.520	-0.000	0.520	-0.000	-0.000	-0.000
17	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	5:DERX1	0.000	-6.073	0.000	6.073	-0.002	0.000	0.000
	6:DERX2	-0.000	-6.073	-0.000	6.073	-0.002	-0.000	0.000
	7:DERZ1	0.000	-6.073	0.000	6.073	-0.002	0.000	0.000
	8:DERZ2	-0.000	-6.073	-0.000	6.073	-0.002	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
21	9:DERX3	0.000	-3.320	0.000	3.320	-0.001	0.000	0.000
	10:DERX4	-0.000	-3.320	-0.000	3.320	-0.001	-0.000	0.000
	11:DERZ3	0.000	-3.320	0.000	3.320	-0.001	0.000	0.000
	12:DERZ4	-0.000	-3.320	-0.000	3.320	-0.001	-0.000	0.000
	5:DERX1	0.000	-0.916	0.000	0.916	0.001	0.000	0.001
	6:DERX2	-0.000	-0.916	-0.000	0.916	0.001	-0.000	0.001
	7:DERZ1	0.000	-0.916	0.000	0.916	0.001	0.000	0.001
	8:DERZ2	-0.000	-0.916	-0.000	0.916	0.001	-0.000	0.001
	9:DERX3	0.000	-0.527	0.000	0.527	0.000	0.000	0.000
	10:DERX4	-0.000	-0.527	-0.000	0.527	0.000	-0.000	0.000
	11:DERZ3	0.000	-0.527	0.000	0.527	0.000	0.000	0.000
	12:DERZ4	-0.000	-0.527	-0.000	0.527	0.000	-0.000	0.000
22	5:DERX1	8.194	-0.689	0.302	8.228	-0.000	0.000	0.001
	6:DERX2	-7.706	-1.143	-0.458	7.804	-0.000	-0.000	-0.002
	7:DERZ1	3.126	4.675	6.191	8.364	0.002	0.000	-0.000
	8:DERZ2	-2.639	-6.508	-6.347	9.465	-0.003	-0.000	-0.001
	9:DERX3	8.074	-0.372	0.337	8.090	-0.000	0.000	0.001
	10:DERX4	-7.826	-0.826	-0.423	7.880	-0.000	-0.000	-0.002
	11:DERZ3	3.007	4.993	6.226	8.528	0.002	0.000	-0.000
	12:DERZ4	-2.758	-6.190	-6.312	9.261	-0.003	-0.000	-0.001
23	5:DERX1	7.160	-0.241	0.274	7.169	0.001	0.000	0.000
	6:DERX2	-7.105	-1.615	-0.415	7.298	0.000	-0.000	-0.002
	7:DERZ1	3.267	4.356	6.307	8.333	0.003	0.000	-0.000
	8:DERZ2	-3.212	-6.212	-6.448	9.512	-0.002	-0.000	-0.001
	9:DERX3	7.158	0.072	0.299	7.164	0.000	0.000	0.000
	10:DERX4	-7.107	-1.302	-0.390	7.235	-0.000	-0.000	-0.001
	11:DERZ3	3.265	4.670	6.332	8.518	0.003	0.000	-0.000
	12:DERZ4	-3.214	-5.899	-6.423	9.294	-0.002	-0.000	-0.001
24	5:DERX1	8.193	-1.453	0.105	8.321	-0.001	0.000	0.001
	6:DERX2	-7.712	-1.708	-0.187	7.902	-0.001	-0.000	-0.000
	7:DERZ1	3.130	2.838	5.964	7.309	0.001	0.000	0.000
	8:DERZ2	-2.650	-5.999	-6.046	8.919	-0.003	-0.000	-0.000
	9:DERX3	8.075	-0.941	0.118	8.130	-0.000	0.000	0.001
	10:DERX4	-7.830	-1.196	-0.175	7.923	-0.001	-0.000	-0.000
	11:DERZ3	3.012	3.350	5.976	7.484	0.001	0.000	0.000
	12:DERZ4	-2.768	-5.487	-6.033	8.612	-0.002	-0.000	-0.000
25	5:DERX1	7.160	-2.230	0.131	7.500	0.001	0.000	0.000
	6:DERX2	-7.106	-2.487	-0.161	7.531	0.001	-0.000	-0.000
	7:DERZ1	3.268	2.917	5.996	7.425	0.004	0.000	0.000
	8:DERZ2	-3.214	-7.634	-6.026	10.243	-0.001	-0.000	-0.000
	9:DERX3	7.158	-1.401	0.126	7.295	0.001	0.000	0.000
	10:DERX4	-7.109	-1.658	-0.166	7.301	0.001	-0.000	-0.000
	11:DERZ3	3.266	3.746	5.990	7.783	0.003	0.000	0.000
	12:DERZ4	-3.217	-6.805	-6.031	9.645	-0.002	-0.000	-0.000
26	5:DERX1	8.194	-0.950	0.239	8.253	-0.000	0.000	0.002
	6:DERX2	-7.719	-1.609	-0.239	7.888	-0.001	-0.000	-0.002
	7:DERZ1	3.136	3.812	5.878	7.676	0.002	0.000	0.001
	8:DERZ2	-2.660	-6.372	-5.878	9.068	-0.003	-0.000	-0.000
	9:DERX3	8.077	-0.566	0.228	8.100	-0.000	0.000	0.002
	10:DERX4	-7.836	-1.226	-0.250	7.935	-0.001	-0.000	-0.002
	11:DERZ3	3.019	4.196	5.867	7.819	0.002	0.000	0.001
	12:DERZ4	-2.778	-5.988	-5.889	8.846	-0.003	-0.000	-0.000
27	5:DERX1	7.158	-0.536	0.247	7.183	0.001	0.000	0.002
	6:DERX2	-7.108	-1.640	-0.180	7.297	0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
28	7:DERZ1	3.267	3.980	5.919	7.845	0.003	0.000	0.001
	8:DERZ2	-3.217	-6.155	-5.853	9.082	-0.002	-0.000	0.000
	9:DERX3	7.156	-0.160	0.216	7.161	0.000	0.000	0.001
	10:DERX4	-7.110	-1.264	-0.210	7.224	0.000	-0.000	-0.000
	11:DERZ3	3.265	4.355	5.889	8.019	0.002	0.000	0.001
	12:DERZ4	-3.219	-5.780	-5.883	8.853	-0.002	-0.000	0.000
	5:DERX1	8.081	-0.303	0.301	8.093	0.000	0.000	0.002
	6:DERX2	-7.614	-0.517	-0.458	7.645	-0.000	-0.000	-0.003
	7:DERZ1	2.642	-0.343	6.188	6.737	0.003	0.000	0.001
	8:DERZ2	-2.174	-0.477	-6.345	6.724	-0.002	-0.000	-0.001
	9:DERX3	7.970	-0.151	0.336	7.978	0.000	0.000	0.002
	10:DERX4	-7.725	-0.365	-0.423	7.745	-0.000	-0.000	-0.003
29	11:DERZ3	2.530	-0.191	6.223	6.720	0.003	0.000	0.001
	12:DERZ4	-2.285	-0.325	-6.310	6.719	-0.002	-0.000	-0.001
	5:DERX1	8.085	4.142	0.373	9.092	0.001	0.000	0.002
	6:DERX2	-7.648	-7.644	-0.327	10.818	0.000	-0.000	-0.003
	7:DERZ1	2.635	0.043	5.950	6.508	0.002	0.000	0.000
	8:DERZ2	-2.197	-3.545	-5.905	7.230	-0.001	-0.000	-0.001
	9:DERX3	7.978	4.907	0.349	9.373	0.000	0.000	0.002
	10:DERX4	-7.755	-6.879	-0.351	10.372	0.000	-0.000	-0.003
	11:DERZ3	2.528	0.808	5.927	6.494	0.002	0.000	0.000
	12:DERZ4	-2.305	-2.780	-5.928	6.942	-0.002	-0.000	-0.001
	5:DERX1	7.554	-0.342	0.331	7.569	-0.000	0.000	0.003
	6:DERX2	-7.266	-0.648	-0.445	7.309	-0.000	-0.000	-0.003
30	7:DERZ1	0.490	-0.429	6.282	6.316	0.001	0.000	0.000
	8:DERZ2	-0.202	-0.561	-6.396	6.424	-0.002	-0.000	-0.000
	9:DERX3	7.487	-0.162	0.352	7.497	-0.000	0.000	0.003
	10:DERX4	-7.333	-0.469	-0.423	7.360	-0.000	-0.000	-0.003
	11:DERZ3	0.423	-0.250	6.304	6.323	0.001	0.000	0.000
	12:DERZ4	-0.269	-0.381	-6.374	6.391	-0.002	-0.000	-0.000
	5:DERX1	7.620	2.346	0.369	7.982	-0.001	0.000	0.001
	6:DERX2	-7.339	-8.083	-0.309	10.922	-0.001	-0.000	-0.003
	7:DERZ1	0.486	-2.623	5.973	6.542	-0.000	0.000	-0.001
	8:DERZ2	-0.205	-3.114	-5.914	6.687	-0.001	-0.000	-0.001
	9:DERX3	7.554	3.716	0.341	8.425	-0.000	0.000	0.001
	10:DERX4	-7.405	-6.713	-0.336	10.001	-0.000	-0.000	-0.003
31	11:DERZ3	0.420	-1.254	5.946	6.091	-0.000	0.000	-0.001
	12:DERZ4	-0.271	-1.744	-5.941	6.198	-0.001	-0.000	-0.001
	5:DERX1	7.364	-0.355	0.261	7.377	0.000	0.000	0.003
	6:DERX2	-7.151	-0.644	-0.424	7.192	0.000	-0.000	-0.003
	7:DERZ1	0.886	-0.412	6.315	6.390	0.002	0.000	0.000
	8:DERZ2	-0.673	-0.587	-6.479	6.540	-0.001	-0.000	-0.000
	9:DERX3	7.317	-0.177	0.292	7.325	0.000	0.000	0.003
	10:DERX4	-7.198	-0.466	-0.393	7.224	0.000	-0.000	-0.003
	11:DERZ3	0.839	-0.234	6.346	6.406	0.002	0.000	0.000
	12:DERZ4	-0.720	-0.408	-6.447	6.500	-0.001	-0.000	-0.000
	5:DERX1	7.427	2.986	0.363	8.013	0.000	0.000	0.001
	6:DERX2	-7.206	-6.217	-0.302	9.522	-0.000	-0.000	-0.002
32	7:DERZ1	0.900	-1.070	5.975	6.137	0.000	0.000	-0.000
	8:DERZ2	-0.679	-2.161	-5.915	6.334	-0.000	-0.000	-0.001
	9:DERX3	7.377	3.744	0.335	8.280	0.000	0.000	0.002
	10:DERX4	-7.255	-5.459	-0.330	9.086	-0.000	-0.000	-0.002
	11:DERZ3	0.851	-0.312	5.947	6.016	0.000	0.000	-0.000
	12:DERZ4	-0.729	-1.403	-5.943	6.149	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
34	5:DERX1	7.224	-0.367	0.275	7.239	0.000	0.000	0.001
	6:DERX2	-7.121	-0.684	-0.414	7.166	-0.000	-0.000	-0.002
	7:DERZ1	2.796	-0.414	6.306	6.910	0.002	0.000	0.000
	8:DERZ2	-2.692	-0.637	-6.445	7.014	-0.002	-0.000	-0.001
	9:DERX3	7.210	-0.173	0.299	7.219	0.000	0.000	0.001
	10:DERX4	-7.135	-0.490	-0.390	7.162	-0.000	-0.000	-0.002
	11:DERZ3	2.782	-0.220	6.330	6.918	0.002	0.000	0.000
	12:DERZ4	-2.706	-0.443	-6.421	6.982	-0.002	-0.000	-0.001
36	5:DERX1	8.195	3.880	0.372	9.075	0.000	0.000	0.002
	6:DERX2	-7.718	-6.576	-0.328	10.145	-0.000	-0.000	-0.002
	7:DERZ1	3.138	3.614	5.947	7.634	0.002	0.000	0.001
	8:DERZ2	-2.661	-6.310	-5.903	9.041	-0.002	-0.000	-0.001
	9:DERX3	8.077	4.302	0.349	9.158	0.000	0.000	0.002
	10:DERX4	-7.836	-6.154	-0.351	9.970	-0.000	-0.000	-0.002
	11:DERZ3	3.020	4.035	5.924	7.778	0.002	0.000	0.001
	12:DERZ4	-2.779	-5.888	-5.926	8.804	-0.002	-0.000	-0.001
38	5:DERX1	7.172	-0.470	0.247	7.192	0.001	0.000	0.002
	6:DERX2	-7.114	-1.389	-0.180	7.250	0.000	-0.000	-0.000
	7:DERZ1	3.173	3.144	5.919	7.415	0.003	0.000	0.001
	8:DERZ2	-3.114	-5.003	-5.852	8.305	-0.002	-0.000	0.000
	9:DERX3	7.168	-0.147	0.216	7.173	0.000	0.000	0.001
	10:DERX4	-7.118	-1.065	-0.210	7.201	0.000	-0.000	-0.001
	11:DERZ3	3.168	3.468	5.889	7.533	0.002	0.000	0.001
	12:DERZ4	-3.119	-4.680	-5.882	8.138	-0.002	-0.000	0.000
39	5:DERX1	20.536	-1.029	0.844	20.579	-0.000	0.000	0.002
	6:DERX2	-19.942	-1.520	-1.011	20.025	-0.000	-0.000	-0.002
	7:DERZ1	7.627	4.602	16.437	18.695	0.002	0.001	0.000
	8:DERZ2	-7.033	-7.151	-16.604	19.398	-0.003	-0.001	-0.001
	9:DERX3	20.382	-0.575	0.880	20.409	-0.000	0.000	0.002
	10:DERX4	-20.096	-1.066	-0.975	20.148	-0.000	-0.000	-0.002
	11:DERZ3	7.473	5.056	16.473	18.782	0.002	0.001	0.000
	12:DERZ4	-7.187	-6.697	-16.568	19.261	-0.003	-0.001	-0.001
40	5:DERX1	16.687	-0.622	0.855	16.720	0.001	0.000	0.001
	6:DERX2	-16.851	-2.140	-1.598	17.061	0.000	-0.000	-0.002
	7:DERZ1	7.681	4.241	16.176	18.402	0.003	0.001	-0.000
	8:DERZ2	-7.845	-7.003	-16.919	19.921	-0.002	-0.001	-0.001
	9:DERX3	16.758	-0.119	1.009	16.788	0.000	0.000	0.001
	10:DERX4	-16.780	-1.638	-1.444	16.922	-0.000	-0.000	-0.001
	11:DERZ3	7.752	4.744	16.330	18.688	0.003	0.001	0.000
	12:DERZ4	-7.774	-6.501	-16.765	19.590	-0.002	-0.001	-0.001
41	5:DERX1	20.550	-0.786	0.285	20.567	-0.000	0.000	0.001
	6:DERX2	-19.899	-1.151	-0.468	19.937	-0.000	-0.000	-0.001
	7:DERZ1	7.646	3.286	15.499	17.592	0.002	0.001	0.000
	8:DERZ2	-6.995	-5.222	-15.683	17.948	-0.002	-0.001	-0.000
	9:DERX3	20.385	-0.711	0.308	20.400	-0.000	0.000	0.001
	10:DERX4	-20.064	-1.076	-0.445	20.097	-0.000	-0.000	-0.001
	11:DERZ3	7.481	3.361	15.522	17.556	0.002	0.001	0.000
	12:DERZ4	-7.159	-5.147	-15.660	17.972	-0.002	-0.001	-0.000
42	5:DERX1	16.699	-2.306	0.196	16.858	0.001	0.000	0.000
	6:DERX2	-16.827	-2.591	-0.593	17.035	0.001	-0.000	-0.000
	7:DERZ1	7.689	2.870	15.377	17.430	0.004	0.001	0.000
	8:DERZ2	-7.816	-7.767	-15.774	19.241	-0.001	-0.001	-0.000
	9:DERX3	16.764	-1.298	0.269	16.816	0.001	0.000	0.000
	10:DERX4	-16.762	-1.584	-0.520	16.845	0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
43	11:DERZ3	7.753	3.877	15.450	17.715	0.003	0.001	0.000
	12:DERZ4	-7.752	-6.759	-15.701	18.770	-0.002	-0.001	-0.000
	5:DERX1	20.564	-1.257	0.522	20.609	-0.000	0.000	0.002
	6:DERX2	-19.858	-1.625	-0.686	19.937	-0.000	-0.000	-0.001
	7:DERZ1	7.670	3.942	15.168	17.448	0.002	0.001	0.001
	8:DERZ2	-6.964	-6.824	-15.332	18.169	-0.003	-0.001	-0.000
	9:DERX3	20.389	-0.739	0.523	20.409	-0.000	0.000	0.002
	10:DERX4	-20.034	-1.106	-0.685	20.076	-0.000	-0.000	-0.001
	11:DERZ3	7.494	4.460	15.169	17.497	0.002	0.001	0.001
	12:DERZ4	-7.140	-6.305	-15.331	18.049	-0.003	-0.001	-0.000
	5:DERX1	16.709	-0.853	0.771	16.749	0.000	0.000	0.002
	6:DERX2	-16.804	-1.989	-0.829	16.941	0.000	-0.000	-0.000
44	7:DERZ1	7.700	3.931	15.234	17.516	0.003	0.001	0.001
	8:DERZ2	-7.795	-6.772	-15.291	18.451	-0.002	-0.001	0.000
	9:DERX3	16.769	-0.351	0.760	16.790	0.000	0.000	0.001
	10:DERX4	-16.745	-1.487	-0.840	16.831	0.000	-0.000	-0.001
	11:DERZ3	7.759	4.433	15.222	17.652	0.002	0.001	0.001
	12:DERZ4	-7.735	-6.270	-15.302	18.257	-0.002	-0.001	0.000
	5:DERX1	20.293	-0.557	0.849	20.318	0.000	0.000	0.003
	6:DERX2	-19.753	-0.892	-1.009	19.799	-0.000	-0.000	-0.003
	7:DERZ1	6.377	-0.611	16.439	17.643	0.003	0.001	0.001
	8:DERZ2	-5.837	-0.838	-16.599	17.616	-0.003	-0.001	-0.001
	9:DERX3	20.155	-0.286	0.884	20.177	0.000	0.000	0.003
	10:DERX4	-19.891	-0.622	-0.974	19.924	-0.000	-0.000	-0.003
45	11:DERZ3	6.239	-0.340	16.474	17.619	0.003	0.001	0.001
	12:DERZ4	-5.974	-0.568	-16.564	17.618	-0.003	-0.001	-0.001
	5:DERX1	20.338	-0.687	0.522	20.356	0.000	0.000	0.003
	6:DERX2	-19.602	-1.002	-0.681	19.639	-0.000	-0.000	-0.003
	7:DERZ1	6.457	-0.667	15.168	16.499	0.002	0.001	0.001
	8:DERZ2	-5.721	-1.023	-15.327	16.392	-0.002	-0.001	-0.001
	9:DERX3	20.163	-0.371	0.522	20.174	0.000	0.000	0.003
	10:DERX4	-19.776	-0.686	-0.680	19.799	-0.000	-0.000	-0.003
	11:DERZ3	6.283	-0.351	15.169	16.422	0.002	0.001	0.001
	12:DERZ4	-5.895	-0.707	-15.327	16.437	-0.002	-0.001	-0.001
	5:DERX1	19.654	-0.623	0.810	19.681	-0.000	0.000	0.003
	6:DERX2	-18.839	-1.156	-1.096	18.906	-0.001	-0.000	-0.004
46	7:DERZ1	1.314	-0.772	16.398	16.469	0.001	0.001	0.000
	8:DERZ2	-0.499	-1.008	-16.683	16.721	-0.002	-0.001	-0.000
	9:DERX3	19.493	-0.299	0.872	19.515	-0.000	0.000	0.003
	10:DERX4	-19.000	-0.832	-1.034	19.046	-0.000	-0.000	-0.004
	11:DERZ3	1.153	-0.448	16.460	16.506	0.002	0.001	0.000
	12:DERZ4	-0.660	-0.684	-16.621	16.649	-0.002	-0.001	-0.000
	5:DERX1	19.649	-0.818	0.587	19.675	-0.000	0.000	0.003
	6:DERX2	-18.709	-1.342	-0.751	18.772	-0.000	-0.000	-0.003
	7:DERZ1	1.378	-1.059	15.147	15.246	0.002	0.001	-0.000
	8:DERZ2	-0.438	-1.101	-15.311	15.357	-0.002	-0.001	-0.000
	9:DERX3	19.464	-0.398	0.594	19.477	0.000	0.000	0.003
	10:DERX4	-18.894	-0.922	-0.744	18.932	-0.000	-0.000	-0.003
47	11:DERZ3	1.193	-0.639	15.154	15.214	0.002	0.001	-0.000
	12:DERZ4	-0.623	-0.681	-15.304	15.332	-0.002	-0.001	-0.000
	5:DERX1	18.932	-0.659	0.875	18.964	0.000	0.000	0.003
	6:DERX2	-18.251	-1.164	-1.537	18.352	0.000	-0.000	-0.003
	7:DERZ1	2.233	-0.757	16.209	16.380	0.002	0.000	0.000
	8:DERZ2	-1.551	-1.066	-16.871	16.976	-0.001	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
50	9:DERX3	18.811	-0.333	1.012	18.841	0.000	0.000	0.003
	10:DERX4	-18.372	-0.837	-1.401	18.444	0.000	-0.000	-0.003
	11:DERZ3	2.112	-0.430	16.346	16.487	0.002	0.001	0.000
	12:DERZ4	-1.672	-0.740	-16.735	16.834	-0.002	-0.001	-0.000
	5:DERX1	18.867	-1.252	0.697	18.921	0.000	0.000	0.002
	6:DERX2	-18.160	-2.009	-0.788	18.288	0.000	-0.000	-0.002
	7:DERZ1	2.235	-1.475	15.188	15.422	0.001	0.000	0.000
	8:DERZ2	-1.528	-1.786	-15.280	15.460	0.000	-0.001	-0.000
	9:DERX3	18.741	-0.627	0.691	18.764	0.000	0.000	0.002
	10:DERX4	-18.286	-1.385	-0.794	18.355	0.000	-0.000	-0.002
	11:DERZ3	2.109	-0.850	15.182	15.352	0.000	0.001	0.000
	12:DERZ4	-1.654	-1.162	-15.286	15.419	-0.000	-0.001	-0.000
51	5:DERX1	17.071	-0.692	0.851	17.106	0.000	0.000	0.003
	6:DERX2	-17.146	-1.178	-1.599	17.261	-0.000	-0.000	-0.002
	7:DERZ1	6.515	-0.747	16.171	17.451	0.002	0.001	0.001
	8:DERZ2	-6.590	-1.124	-16.919	18.192	-0.003	-0.001	-0.000
	9:DERX3	17.118	-0.344	1.006	17.151	0.000	0.000	0.002
	10:DERX4	-17.099	-0.830	-1.444	17.180	-0.000	-0.000	-0.002
	11:DERZ3	6.562	-0.399	16.326	17.600	0.002	0.001	0.001
	12:DERZ4	-6.543	-0.776	-16.764	18.013	-0.003	-0.001	-0.001
	5:DERX1	16.788	-0.792	0.771	16.824	0.000	0.000	0.002
	6:DERX2	-16.853	-1.770	-0.829	16.966	0.000	-0.000	-0.001
	7:DERZ1	7.473	3.037	15.233	17.237	0.003	0.001	0.001
	8:DERZ2	-7.538	-5.599	-15.291	17.944	-0.002	-0.001	0.000
55	9:DERX3	16.840	-0.342	0.760	16.861	0.000	0.000	0.001
	10:DERX4	-16.801	-1.320	-0.840	16.873	0.000	-0.000	-0.001
	11:DERZ3	7.526	3.487	15.222	17.335	0.002	0.001	0.001
	12:DERZ4	-7.486	-5.150	-15.302	17.797	-0.002	-0.001	-0.000
	5:DERX1	18.810	-1.417	0.702	18.876	0.001	0.000	0.003
	6:DERX2	-18.126	-2.200	-0.790	18.276	0.001	-0.000	-0.002
	7:DERZ1	2.382	-1.617	15.191	15.461	0.001	0.000	0.001
	8:DERZ2	-1.698	-1.999	-15.279	15.503	0.001	-0.001	0.000
	9:DERX3	18.689	-0.703	0.696	18.716	0.000	0.000	0.002
	10:DERX4	-18.247	-1.486	-0.797	18.325	0.000	-0.000	-0.002
	11:DERZ3	2.261	-0.903	15.185	15.379	0.000	0.001	0.000
	12:DERZ4	-1.819	-1.286	-15.286	15.447	0.000	-0.001	-0.000
56	5:DERX1	27.936	-2.095	1.216	28.041	0.001	0.001	-0.000
	6:DERX2	-34.983	-2.661	-1.763	35.128	0.000	-0.000	-0.004
	7:DERZ1	11.431	1.475	25.291	27.793	0.002	0.002	-0.002
	8:DERZ2	-18.478	-6.231	-25.837	32.370	-0.001	-0.001	-0.003
	9:DERX3	29.302	-1.182	1.337	29.356	0.001	0.001	0.001
	10:DERX4	-33.617	-1.748	-1.642	33.702	0.000	-0.000	-0.003
	11:DERZ3	12.797	2.388	25.411	28.552	0.002	0.002	-0.001
	12:DERZ4	-17.112	-5.317	-25.716	31.344	-0.001	-0.001	-0.002
	5:DERX1	32.049	-0.910	1.252	32.086	0.000	-0.000	0.002
	6:DERX2	-30.038	-1.556	-1.857	30.136	-0.000	-0.000	-0.002
	7:DERZ1	4.364	-1.031	25.125	25.522	0.001	0.001	0.000
	8:DERZ2	-2.353	-1.435	-25.729	25.876	-0.001	-0.001	-0.000
57	9:DERX3	31.724	-0.471	1.380	31.757	0.000	0.000	0.002
	10:DERX4	-30.364	-1.118	-1.730	30.433	-0.000	-0.000	-0.002
	11:DERZ3	4.039	-0.592	25.252	25.580	0.001	0.001	0.000
	12:DERZ4	-2.679	-0.997	-25.602	25.761	-0.001	-0.001	-0.000
	5:DERX1	28.275	-0.959	0.472	28.295	-0.000	0.000	0.002
	6:DERX2	-23.565	-1.337	-1.411	23.645	-0.000	-0.000	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	14.488	1.129	22.130	26.475	0.001	0.001	0.001
	8:DERZ2	-9.778	-3.425	-23.069	25.289	-0.001	-0.001	-0.001
	9:DERX3	27.519	-0.535	0.622	27.532	-0.000	0.000	0.003
	10:DERX4	-24.320	-0.912	-1.261	24.370	-0.000	-0.000	-0.003
	11:DERZ3	13.732	1.553	22.281	26.219	0.001	0.001	0.001
	12:DERZ4	-10.533	-3.000	-22.919	25.401	-0.001	-0.001	-0.001
60	5:DERX1	32.905	-1.651	0.608	32.952	0.000	0.000	0.004
	6:DERX2	-29.995	-2.666	-1.309	30.142	0.000	-0.000	0.000
	7:DERZ1	4.910	-2.006	22.535	23.151	0.001	0.001	0.002
	8:DERZ2	-2.000	-2.311	-23.236	23.437	0.000	-0.001	0.002
	9:DERX3	32.417	-0.843	0.708	32.436	0.000	0.000	0.003
	10:DERX4	-30.482	-1.857	-1.209	30.563	0.000	-0.000	-0.001
	11:DERZ3	4.423	-1.197	22.636	23.095	0.000	0.001	0.002
	12:DERZ4	-2.488	-1.503	-23.136	23.318	-0.000	-0.001	0.001
61	5:DERX1	32.995	-0.834	1.232	33.029	0.000	0.000	0.002
	6:DERX2	-30.783	-1.517	-1.903	30.880	-0.000	-0.000	-0.002
	7:DERZ1	2.455	-1.016	25.095	25.235	0.001	0.001	-0.000
	8:DERZ2	-0.243	-1.335	-25.766	25.801	-0.001	-0.001	-0.000
	9:DERX3	32.612	-0.411	1.376	32.644	0.000	0.000	0.002
	10:DERX4	-31.167	-1.095	-1.760	31.236	-0.000	-0.000	-0.002
	11:DERZ3	2.072	-0.593	25.238	25.330	0.001	0.001	-0.000
	12:DERZ4	-0.627	-0.913	-25.622	25.646	-0.001	-0.001	-0.000
63	5:DERX1	33.156	-1.630	1.212	33.219	-0.000	0.001	0.001
	6:DERX2	-38.522	-2.414	-2.091	38.654	-0.001	-0.001	-0.004
	7:DERZ1	10.976	2.465	25.117	27.521	0.001	0.001	-0.001
	8:DERZ2	-16.342	-6.510	-25.996	31.388	-0.002	-0.002	-0.002
	9:DERX3	34.121	-0.841	1.388	34.160	-0.000	0.001	0.001
	10:DERX4	-37.558	-1.625	-1.914	37.641	-0.001	-0.001	-0.003
	11:DERZ3	11.940	3.255	25.293	28.159	0.002	0.001	-0.000
	12:DERZ4	-15.377	-5.721	-25.819	30.591	-0.002	-0.002	-0.002
64	5:DERX1	32.049	-1.114	0.825	32.079	-0.000	0.000	0.002
	6:DERX2	-28.381	-1.304	-1.096	28.432	-0.000	-0.000	-0.003
	7:DERZ1	12.875	1.249	22.211	25.704	0.001	0.001	0.001
	8:DERZ2	-9.208	-3.667	-22.483	24.571	-0.001	-0.001	-0.001
	9:DERX3	31.354	-0.668	0.837	31.372	0.000	0.000	0.002
	10:DERX4	-29.076	-0.859	-1.083	29.109	-0.000	-0.000	-0.003
	11:DERZ3	12.180	1.695	22.224	25.400	0.001	0.001	0.001
	12:DERZ4	-9.903	-3.221	-22.470	24.766	-0.001	-0.001	-0.001
65	5:DERX1	32.128	-1.053	1.180	32.166	-0.000	0.000	0.000
	6:DERX2	-30.050	-2.480	-1.735	30.202	-0.000	-0.000	-0.003
	7:DERZ1	4.402	-1.673	24.994	25.434	-0.000	0.001	-0.001
	8:DERZ2	-2.324	-1.860	-25.549	25.722	-0.000	-0.001	-0.002
	9:DERX3	31.790	-0.435	1.298	31.819	-0.000	0.000	0.001
	10:DERX4	-30.387	-1.862	-1.617	30.487	-0.000	-0.000	-0.002
	11:DERZ3	4.064	-1.055	25.112	25.461	0.000	0.001	-0.001
	12:DERZ4	-2.661	-1.243	-25.431	25.600	-0.000	-0.001	-0.001
67	5:DERX1	33.788	-0.870	0.927	33.811	0.000	-0.000	-0.001
	6:DERX2	-31.879	-2.461	-1.724	32.020	-0.001	-0.000	-0.002
	7:DERZ1	3.589	-1.424	26.449	26.729	-0.000	0.001	-0.001
	8:DERZ2	-1.681	-1.906	-27.246	27.364	-0.000	-0.001	-0.002
	9:DERX3	33.472	-0.276	1.085	33.491	0.000	0.000	-0.000
	10:DERX4	-32.194	-1.867	-1.566	32.286	-0.001	-0.000	-0.002
	11:DERZ3	3.274	-0.831	26.607	26.820	-0.000	0.001	-0.001
	12:DERZ4	-1.996	-1.313	-27.088	27.193	-0.000	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X	Y	Z	Resultant	rX	rY	rZ
		(mm)	(mm)	(mm)	(mm)	(rad)	(rad)	(rad)
68	5:DERX1	29.649	-5.738	2.155	30.276	0.003	0.000	0.004
	6:DERX2	-33.500	-6.500	0.335	34.126	0.002	-0.000	0.003
	7:DERZ1	12.514	-5.469	24.631	28.164	0.003	0.001	0.004
	8:DERZ2	-16.365	-6.768	-22.140	28.352	0.002	-0.001	0.003
	9:DERX3	30.440	-3.503	1.677	30.687	0.002	0.000	0.002
	10:DERX4	-32.708	-4.266	-0.143	32.986	0.002	-0.000	0.002
	11:DERZ3	13.305	-3.235	24.152	27.764	0.002	0.001	0.002
	12:DERZ4	-15.573	-4.534	-22.619	27.833	0.001	-0.001	0.000
69	5:DERX1	33.184	-1.166	0.632	33.211	0.000	0.001	0.004
	6:DERX2	-30.846	-2.499	-1.287	30.974	0.000	-0.000	0.001
	7:DERZ1	3.612	-1.738	22.591	22.944	0.000	0.001	0.003
	8:DERZ2	-1.274	-1.927	-23.246	23.361	0.000	-0.001	0.002
	9:DERX3	32.797	-0.463	0.724	32.808	0.000	0.001	0.003
	10:DERX4	-31.234	-1.797	-1.195	31.309	0.000	-0.000	-0.000
	11:DERZ3	3.224	-1.035	22.683	22.934	0.000	0.001	0.002
	12:DERZ4	-1.661	-1.225	-23.155	23.246	0.000	-0.001	0.001
70	5:DERX1	34.248	-0.938	1.705	34.303	-0.001	0.000	-0.000
	6:DERX2	-31.853	-1.739	-2.255	31.980	-0.001	0.000	-0.001
	7:DERZ1	2.720	-1.152	26.761	26.924	-0.000	0.001	-0.000
	8:DERZ2	-0.325	-1.526	-27.310	27.355	-0.001	-0.001	-0.001
	9:DERX3	33.832	-0.455	1.828	33.884	-0.000	0.000	0.000
	10:DERX4	-32.269	-1.257	-2.131	32.364	-0.000	-0.000	-0.001
	11:DERZ3	2.304	-0.669	26.884	26.991	-0.000	0.001	-0.000
	12:DERZ4	-0.741	-1.043	-27.187	27.217	-0.001	-0.001	-0.000
72	5:DERX1	34.463	-4.510	-0.623	34.762	-0.002	0.000	0.003
	6:DERX2	-37.264	-5.172	-2.550	37.707	-0.002	-0.000	0.003
	7:DERZ1	11.656	-4.130	21.909	25.157	-0.002	0.001	0.003
	8:DERZ2	-14.456	-5.553	-25.082	29.477	-0.002	-0.001	0.003
	9:DERX3	34.965	-2.726	-0.069	35.071	-0.001	0.000	0.002
	10:DERX4	-36.762	-3.389	-1.996	36.971	-0.001	-0.000	0.002
	11:DERZ3	12.158	-2.346	22.462	25.649	-0.001	0.001	0.002
	12:DERZ4	-13.954	-3.769	-24.528	28.470	-0.002	-0.001	0.002
73	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
76	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
78	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
81	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	7.235	-0.447	0.132	7.250	-0.000	0.000	0.001
	6:DERX2	-7.145	-0.464	-0.160	7.162	-0.000	-0.000	-0.001
	7:DERZ1	2.796	-0.416	5.994	6.627	0.002	0.000	0.000
	8:DERZ2	-2.706	-0.495	-6.022	6.620	-0.002	-0.000	-0.000
	9:DERX3	7.223	-0.259	0.126	7.228	-0.000	0.000	0.001
	10:DERX4	-7.157	-0.276	-0.166	7.164	-0.000	-0.000	-0.001
82	11:DERZ3	2.784	-0.228	5.988	6.607	0.002	0.000	0.000
	12:DERZ4	-2.718	-0.307	-6.028	6.619	-0.002	-0.000	-0.000
	5:DERX1	7.437	-0.631	0.118	7.465	0.001	0.000	0.001
	6:DERX2	-7.218	-0.703	-0.174	7.254	0.001	-0.000	-0.001
	7:DERZ1	0.901	-0.645	6.001	6.102	0.001	0.000	0.000
	8:DERZ2	-0.682	-0.689	-6.057	6.134	0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
83	9:DERX3	7.389	-0.344	0.121	7.398	0.001	0.000	0.001
	10:DERX4	-7.266	-0.416	-0.171	7.280	0.000	-0.000	-0.001
	11:DERZ3	0.853	-0.358	6.004	6.075	0.001	0.000	0.000
	12:DERZ4	-0.730	-0.402	-6.054	6.111	-0.000	-0.000	-0.000
	5:DERX1	7.626	-0.803	0.126	7.669	-0.001	0.000	0.001
	6:DERX2	-7.336	-0.830	-0.167	7.384	-0.001	-0.000	-0.001
	7:DERZ1	0.494	-0.776	6.000	6.070	-0.000	0.000	-0.000
	8:DERZ2	-0.204	-0.857	-6.041	6.105	-0.002	-0.000	-0.000
	9:DERX3	7.559	-0.442	0.126	7.573	-0.001	0.000	0.001
	10:DERX4	-7.403	-0.470	-0.167	7.420	-0.001	-0.000	-0.001
	11:DERZ3	0.427	-0.415	6.000	6.030	0.000	0.000	0.000
	12:DERZ4	-0.271	-0.497	-6.041	6.067	-0.002	-0.000	-0.000
84	5:DERX1	8.098	-0.922	0.105	8.151	0.001	0.000	0.000
	6:DERX2	-7.651	-0.947	-0.188	7.712	0.001	-0.000	0.000
	7:DERZ1	2.641	-0.869	5.964	6.580	0.003	0.000	0.000
	8:DERZ2	-2.194	-1.000	-6.047	6.510	-0.001	-0.000	0.000
	9:DERX3	7.990	-0.527	0.118	8.008	0.000	0.000	0.000
	10:DERX4	-7.760	-0.552	-0.175	7.781	0.000	-0.000	-0.000
	11:DERZ3	2.533	-0.474	5.977	6.509	0.002	0.000	0.000
	12:DERZ4	-2.303	-0.605	-6.035	6.487	-0.001	-0.000	0.000
	5:DERX1	7.227	-0.454	0.247	7.245	-0.000	0.000	0.002
	6:DERX2	-7.136	-0.756	-0.179	7.178	-0.000	-0.000	-0.001
	7:DERZ1	2.793	-0.486	5.918	6.562	0.002	0.000	0.001
	8:DERZ2	-2.702	-0.723	-5.850	6.484	-0.002	-0.000	-0.000
85	9:DERX3	7.214	-0.235	0.217	7.221	0.000	0.000	0.002
	10:DERX4	-7.149	-0.537	-0.210	7.173	-0.000	-0.000	-0.001
	11:DERZ3	2.780	-0.268	5.887	6.516	0.002	0.000	0.001
	12:DERZ4	-2.715	-0.505	-5.880	6.497	-0.002	-0.000	-0.000
	5:DERX1	7.428	-0.667	0.241	7.462	0.000	0.000	0.002
	6:DERX2	-7.207	-1.060	-0.204	7.287	0.000	-0.000	-0.002
	7:DERZ1	0.901	-0.765	5.924	6.041	0.001	0.000	0.000
	8:DERZ2	-0.680	-0.962	-5.888	6.004	0.000	-0.000	-0.000
	9:DERX3	7.378	-0.336	0.219	7.389	0.000	0.000	0.002
	10:DERX4	-7.256	-0.729	-0.226	7.296	0.000	-0.000	-0.002
	11:DERZ3	0.852	-0.434	5.903	5.980	0.001	0.000	0.000
	12:DERZ4	-0.729	-0.631	-5.909	5.988	-0.000	-0.000	-0.000
86	5:DERX1	7.616	-0.513	0.248	7.637	-0.000	0.000	0.002
	6:DERX2	-7.335	-0.813	-0.218	7.383	-0.000	-0.000	-0.002
	7:DERZ1	0.486	-0.646	5.923	5.978	0.001	0.000	0.000
	8:DERZ2	-0.206	-0.680	-5.893	5.935	-0.002	-0.000	-0.000
	9:DERX3	7.549	-0.253	0.228	7.557	-0.000	0.000	0.002
	10:DERX4	-7.401	-0.552	-0.238	7.425	-0.000	-0.000	-0.002
	11:DERZ3	0.420	-0.386	5.903	5.930	0.001	0.000	0.000
	12:DERZ4	-0.272	-0.419	-5.913	5.934	-0.002	-0.000	-0.000
	5:DERX1	8.085	-0.415	0.238	8.099	0.000	0.000	0.002
	6:DERX2	-7.647	-0.623	-0.240	7.676	0.000	-0.000	-0.003
	7:DERZ1	2.635	-0.417	5.873	6.451	0.002	0.000	0.001
	8:DERZ2	-2.197	-0.621	-5.875	6.303	-0.002	-0.000	-0.001
87	9:DERX3	7.977	-0.220	0.227	7.984	0.000	0.000	0.002
	10:DERX4	-7.754	-0.428	-0.250	7.770	0.000	-0.000	-0.003
	11:DERZ3	2.527	-0.222	5.863	6.388	0.002	0.000	0.001
	12:DERZ4	-2.304	-0.426	-5.886	6.335	-0.002	-0.000	-0.001
	5:DERX1	17.076	-0.663	0.195	17.090	-0.000	0.000	0.000
	6:DERX2	-17.058	-0.700	-0.592	17.082	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
90	7:DERZ1	6.544	-0.622	15.371	16.717	0.002	0.001	0.000
	8:DERZ2	-6.526	-0.740	-15.768	17.081	-0.003	-0.001	-0.000
	9:DERX3	17.106	-0.368	0.268	17.112	-0.000	0.000	0.000
	10:DERX4	-17.027	-0.405	-0.519	17.040	-0.000	-0.000	-0.000
	11:DERZ3	6.574	-0.328	15.444	16.788	0.002	0.001	0.000
	12:DERZ4	-6.495	-0.446	-15.695	16.992	-0.002	-0.001	-0.000
	5:DERX1	18.844	-0.956	0.228	18.870	0.001	0.000	0.000
	6:DERX2	-18.165	-1.076	-0.552	18.206	0.001	-0.000	-0.000
	7:DERZ1	2.219	-0.991	15.403	15.594	0.002	0.000	-0.000
	8:DERZ2	-1.541	-1.041	-15.728	15.837	0.001	-0.001	-0.000
	9:DERX3	18.723	-0.500	0.283	18.732	0.001	0.000	0.000
	10:DERX4	-18.286	-0.620	-0.497	18.304	0.000	-0.000	-0.000
91	11:DERZ3	2.098	-0.535	15.458	15.609	0.001	0.001	-0.000
	12:DERZ4	-1.662	-0.585	-15.673	15.771	0.000	-0.001	-0.000
	5:DERX1	19.578	-1.236	0.238	19.619	-0.002	0.000	0.000
	6:DERX2	-18.733	-1.290	-0.522	18.785	-0.002	-0.000	-0.000
	7:DERZ1	1.329	-1.212	15.426	15.530	-0.001	0.001	0.000
	8:DERZ2	-0.484	-1.314	-15.710	15.773	-0.002	-0.001	-0.000
	9:DERX3	19.411	-0.653	0.284	19.424	-0.001	0.000	0.000
	10:DERX4	-18.900	-0.708	-0.475	18.919	-0.001	-0.000	-0.000
	11:DERZ3	1.162	-0.629	15.472	15.529	-0.000	0.001	0.000
	12:DERZ4	-0.651	-0.731	-15.664	15.694	-0.001	-0.001	0.000
	5:DERX1	20.324	-1.385	0.286	20.373	0.001	0.000	0.000
	6:DERX2	-19.660	-1.453	-0.469	19.719	0.001	-0.000	-0.001
92	7:DERZ1	6.427	-1.321	15.498	16.830	0.003	0.001	0.000
	8:DERZ2	-5.763	-1.517	-15.681	16.775	-0.000	-0.001	-0.000
	9:DERX3	20.163	-0.755	0.309	20.180	0.001	0.000	0.000
	10:DERX4	-19.820	-0.824	-0.447	19.843	0.001	-0.000	-0.001
	11:DERZ3	6.266	-0.692	15.520	16.752	0.002	0.001	0.000
	12:DERZ4	-5.924	-0.888	-15.659	16.765	-0.001	-0.001	-0.000
	5:DERX1	17.102	-0.833	0.771	17.140	-0.000	0.000	0.002
	6:DERX2	-17.044	-1.285	-0.831	17.113	-0.000	-0.000	-0.002
	7:DERZ1	6.566	-0.857	15.230	16.608	0.002	0.001	0.001
	8:DERZ2	-6.509	-1.260	-15.290	16.666	-0.002	-0.001	-0.001
	9:DERX3	17.126	-0.445	0.760	17.148	0.000	0.000	0.002
	10:DERX4	-17.021	-0.897	-0.842	17.065	-0.000	-0.000	-0.002
93	11:DERZ3	6.590	-0.470	15.219	16.592	0.002	0.001	0.001
	12:DERZ4	-6.485	-0.873	-15.301	16.642	-0.002	-0.001	-0.001
	5:DERX1	30.826	-0.741	1.155	30.857	-0.000	0.001	0.003
	6:DERX2	-36.072	-1.108	-2.136	36.152	-0.000	-0.001	-0.003
	7:DERZ1	7.671	-0.783	25.045	26.205	0.002	0.001	0.001
	8:DERZ2	-12.917	-1.065	-26.025	29.074	-0.002	-0.001	-0.001
	9:DERX3	31.784	-0.400	1.351	31.815	0.000	0.001	0.003
	10:DERX4	-35.115	-0.767	-1.941	35.177	-0.000	-0.001	-0.003
	11:DERZ3	8.628	-0.442	25.240	26.678	0.002	0.001	0.001
	12:DERZ4	-11.959	-0.725	-25.830	28.473	-0.002	-0.001	-0.001
	5:DERX1	31.905	-0.888	0.824	31.928	0.000	0.000	0.002
	6:DERX2	-28.414	-1.234	-1.096	28.462	-0.000	-0.000	-0.003
109	7:DERZ1	11.048	-0.831	22.210	24.820	0.001	0.001	0.001
	8:DERZ2	-7.557	-1.292	-22.482	23.753	-0.001	-0.001	-0.001
	9:DERX3	31.252	-0.498	0.837	31.267	0.000	0.000	0.002
	10:DERX4	-29.067	-0.844	-1.083	29.100	-0.000	-0.000	-0.003
	11:DERZ3	10.395	-0.440	22.223	24.538	0.001	0.001	0.001
	12:DERZ4	-8.210	-0.901	-22.469	23.939	-0.001	-0.001	-0.001
110	5:DERX1	31.905	-0.888	0.824	31.928	0.000	0.000	0.002
	6:DERX2	-28.414	-1.234	-1.096	28.462	-0.000	-0.000	-0.003
	7:DERZ1	11.048	-0.831	22.210	24.820	0.001	0.001	0.001
	8:DERZ2	-7.557	-1.292	-22.482	23.753	-0.001	-0.001	-0.001
	9:DERX3	31.252	-0.498	0.837	31.267	0.000	0.000	0.002
	10:DERX4	-29.067	-0.844	-1.083	29.100	-0.000	-0.000	-0.003
	11:DERZ3	10.395	-0.440	22.223	24.538	0.001	0.001	0.001
	12:DERZ4	-8.210	-0.901	-22.469	23.939	-0.001	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
111	5:DERX1	26.432	-0.946	1.268	26.479	0.000	0.000	0.002
	6:DERX2	-33.934	-1.461	-1.717	34.009	0.000	-0.000	-0.003
	7:DERZ1	7.898	-0.971	25.316	26.537	0.002	0.001	0.001
	8:DERZ2	-15.400	-1.435	-25.765	30.051	-0.001	-0.001	-0.002
	9:DERX3	27.881	-0.504	1.371	27.919	0.000	0.000	0.003
	10:DERX4	-32.486	-1.019	-1.615	32.542	-0.000	-0.000	-0.003
	11:DERZ3	9.347	-0.529	25.419	27.088	0.002	0.001	0.001
	12:DERZ4	-13.952	-0.994	-25.663	29.227	-0.002	-0.001	-0.001
112	5:DERX1	28.836	-1.129	0.472	28.861	-0.000	0.000	0.002
	6:DERX2	-24.513	-1.615	-1.411	24.607	-0.000	-0.000	-0.003
	7:DERZ1	12.524	-1.118	22.129	25.452	0.001	0.001	0.001
	8:DERZ2	-8.202	-1.626	-23.068	24.537	-0.001	-0.001	-0.001
	9:DERX3	28.142	-0.633	0.622	28.156	-0.000	0.000	0.003
	10:DERX4	-25.207	-1.119	-1.261	25.263	-0.000	-0.000	-0.003
	11:DERZ3	11.830	-0.622	22.280	25.233	0.001	0.001	0.001
	12:DERZ4	-8.895	-1.129	-22.918	24.610	-0.001	-0.001	-0.001
113	5:DERX1	33.638	-1.017	0.721	33.661	-0.000	-0.000	0.004
	6:DERX2	-30.973	-1.703	-1.243	31.044	-0.000	-0.000	-0.000
	7:DERZ1	2.750	-1.315	22.614	22.819	0.001	0.001	0.002
	8:DERZ2	-0.085	-1.405	-23.136	23.179	-0.001	-0.001	0.002
	9:DERX3	33.173	-0.499	0.787	33.186	-0.000	-0.000	0.003
	10:DERX4	-31.438	-1.185	-1.176	31.482	-0.000	-0.000	-0.001
	11:DERZ3	2.285	-0.796	22.681	22.809	0.001	0.001	0.001
	12:DERZ4	-0.550	-0.887	-23.070	23.093	-0.001	-0.001	0.001
115	5:DERX1	35.582	-1.011	0.496	35.599	-0.000	-0.000	0.002
	6:DERX2	-34.919	-1.383	-1.492	34.978	-0.000	-0.000	0.001
	7:DERZ1	11.222	-0.934	22.872	25.493	-0.000	0.001	0.002
	8:DERZ2	-10.560	-1.460	-23.867	26.140	-0.000	-0.001	0.001
	9:DERX3	35.451	-0.571	0.648	35.461	-0.000	0.000	0.002
	10:DERX4	-35.050	-0.943	-1.340	35.088	-0.000	-0.000	-0.000
	11:DERZ3	11.091	-0.494	23.024	25.561	-0.000	0.001	0.001
	12:DERZ4	-10.691	-1.020	-23.715	26.034	-0.000	-0.001	0.001
118	5:DERX1	31.858	-1.318	0.804	31.895	0.001	0.000	0.003
	6:DERX2	-31.588	-1.831	-0.965	31.656	0.001	-0.000	0.002
	7:DERZ1	12.409	-1.288	23.207	26.348	0.001	0.001	0.003
	8:DERZ2	-12.139	-1.861	-23.368	26.399	0.001	-0.001	0.002
	9:DERX3	31.882	-0.748	0.811	31.901	0.001	0.000	0.002
	10:DERX4	-31.564	-1.261	-0.958	31.603	0.000	-0.000	0.001
	11:DERZ3	12.433	-0.718	23.214	26.344	0.001	0.001	0.002
	12:DERZ4	-12.115	-1.291	-23.361	26.347	0.000	-0.001	0.001
121	5:DERX1	33.224	-1.039	1.074	33.257	0.000	-0.000	-0.000
	6:DERX2	-32.544	-1.787	-1.712	32.638	-0.000	-0.000	-0.001
	7:DERZ1	4.094	-1.181	26.527	26.867	0.000	0.001	-0.001
	8:DERZ2	-3.414	-1.646	-27.164	27.427	-0.000	-0.001	-0.001
	9:DERX3	33.142	-0.535	1.204	33.168	0.000	-0.000	-0.000
	10:DERX4	-32.626	-1.283	-1.582	32.690	-0.000	-0.000	-0.001
	11:DERZ3	4.012	-0.677	26.656	26.965	0.000	0.001	-0.000
	12:DERZ4	-3.496	-1.141	-27.035	27.284	-0.000	-0.001	-0.000
122	5:DERX1	28.572	-0.979	1.474	28.627	0.000	0.001	0.000
	6:DERX2	-34.849	-1.499	-1.476	34.913	0.000	-0.000	-0.003
	7:DERZ1	9.089	-1.001	26.587	28.116	0.002	0.002	-0.001
	8:DERZ2	-15.366	-1.476	-26.589	30.745	-0.001	-0.001	-0.002
	9:DERX3	29.802	-0.524	1.484	29.843	0.000	0.001	0.001
	10:DERX4	-33.619	-1.044	-1.466	33.668	-0.000	-0.000	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
124	11:DERZ3	10.319	-0.547	26.597	28.534	0.002	0.002	-0.000
	12:DERZ4	-14.137	-1.022	-26.579	30.122	-0.001	-0.001	-0.002
	5:DERX1	32.862	-0.765	1.094	32.889	-0.000	0.001	0.002
	6:DERX2	-37.667	-1.138	-2.493	37.766	-0.000	-0.001	-0.003
	7:DERZ1	8.449	-0.807	26.106	27.451	0.002	0.001	0.000
	8:DERZ2	-13.253	-1.096	-27.505	30.551	-0.002	-0.001	-0.001
	9:DERX3	33.746	-0.415	1.379	33.777	0.000	0.001	0.002
	10:DERX4	-36.783	-0.788	-2.208	36.857	-0.000	-0.001	-0.003
	11:DERZ3	9.333	-0.457	26.391	27.997	0.002	0.001	0.000
	12:DERZ4	-12.369	-0.746	-27.220	29.908	-0.002	-0.001	-0.001
	5:DERX1	34.333	-5.681	-0.777	34.808	-0.001	0.000	0.002
	6:DERX2	-36.345	-5.945	-1.919	36.878	-0.002	-0.000	0.002
131	7:DERZ1	9.878	-5.124	22.435	25.043	-0.001	0.001	0.002
	8:DERZ2	-11.890	-6.502	-25.130	28.551	-0.002	-0.001	0.002
	9:DERX3	34.698	-3.529	-0.302	34.878	-0.000	0.000	0.002
	10:DERX4	-35.979	-3.792	-1.444	36.207	-0.001	-0.000	0.001
	11:DERZ3	10.244	-2.972	22.910	25.271	-0.001	0.001	0.001
	12:DERZ4	-11.525	-4.349	-24.655	27.561	-0.001	-0.001	0.001
	5:DERX1	30.351	-6.898	1.626	31.168	0.002	0.000	0.002
	6:DERX2	-33.273	-7.165	0.283	34.037	0.001	-0.000	0.002
	7:DERZ1	10.807	-6.401	24.618	27.637	0.002	0.001	0.002
	8:DERZ2	-13.729	-7.662	-22.709	27.621	0.001	-0.001	0.002
	9:DERX3	30.964	-4.316	1.261	31.289	0.001	0.000	0.002
	10:DERX4	-32.661	-4.583	-0.083	32.981	0.001	-0.000	0.001
132	11:DERZ3	11.420	-3.819	24.253	27.077	0.001	0.001	0.002
	12:DERZ4	-13.116	-5.080	-23.074	27.023	0.001	-0.001	0.001
	5:DERX1	32.918	-1.677	0.692	32.968	0.001	0.001	0.004
	6:DERX2	-31.185	-2.704	-1.157	31.324	0.000	0.000	0.001
	7:DERZ1	4.431	-2.039	22.750	23.267	0.001	0.001	0.003
	8:DERZ2	-2.699	-2.342	-23.215	23.488	0.000	-0.001	0.002
	9:DERX3	32.642	-0.857	0.753	32.662	0.000	0.001	0.003
	10:DERX4	-31.462	-1.884	-1.096	31.537	0.000	-0.000	-0.000
	11:DERZ3	4.155	-1.219	22.810	23.218	0.000	0.001	0.002
	12:DERZ4	-2.975	-1.522	-23.154	23.394	0.000	-0.001	0.001
	5:DERX1	33.451	-1.935	0.927	33.519	-0.000	-0.000	-0.001
	6:DERX2	-31.954	-3.841	-1.388	32.214	-0.001	-0.000	-0.002
137	7:DERZ1	4.479	-2.620	26.116	26.626	-0.000	0.001	-0.002
	8:DERZ2	-2.982	-3.156	-26.577	26.929	-0.001	-0.001	-0.002
	9:DERX3	33.215	-0.878	1.020	33.242	0.000	0.000	-0.000
	10:DERX4	-32.190	-2.784	-1.295	32.336	-0.001	-0.000	-0.002
	11:DERZ3	4.243	-1.562	26.209	26.596	-0.000	0.001	-0.001
	12:DERZ4	-3.218	-2.099	-26.484	26.761	-0.000	-0.001	-0.001
	5:DERX1	0.000	-2.539	0.000	2.539	-0.001	0.000	0.000
	6:DERX2	-0.000	-2.539	-0.000	2.539	-0.001	-0.000	0.000
	7:DERZ1	0.000	-2.539	0.000	2.539	-0.001	0.000	0.000
	8:DERZ2	-0.000	-2.539	-0.000	2.539	-0.001	-0.000	0.000
	9:DERX3	0.000	-1.486	0.000	1.486	-0.001	0.000	0.000
	10:DERX4	-0.000	-1.486	-0.000	1.486	-0.001	-0.000	0.000
138	11:DERZ3	0.000	-1.486	0.000	1.486	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.486	-0.000	1.486	-0.001	-0.000	0.000
	5:DERX1	7.283	-1.692	0.271	7.482	-0.001	0.000	0.002
	6:DERX2	-7.155	-1.863	-0.412	7.405	-0.001	-0.000	-0.002
	7:DERZ1	2.324	0.302	6.313	6.734	-0.001	0.000	0.000
	8:DERZ2	-2.196	-3.857	-6.455	7.833	-0.001	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
142	9:DERX3	7.261	-1.023	0.296	7.338	-0.000	0.000	0.002
	10:DERX4	-7.177	-1.193	-0.387	7.286	-0.000	-0.000	-0.002
	11:DERZ3	2.302	0.972	6.338	6.813	-0.000	0.000	0.000
	12:DERZ4	-2.218	-3.187	-6.429	7.511	-0.000	-0.000	-0.001
	5:DERX1	17.532	-2.338	0.860	17.708	-0.001	0.000	0.003
	6:DERX2	-17.378	-2.597	-1.599	17.644	-0.001	-0.000	-0.002
	7:DERZ1	5.454	-0.363	16.174	17.072	-0.001	0.000	0.001
	8:DERZ2	-5.300	-4.572	-16.913	18.304	-0.001	-0.001	-0.000
	9:DERX3	17.530	-1.244	1.013	17.604	-0.000	0.000	0.003
	10:DERX4	-17.380	-1.503	-1.447	17.505	-0.000	-0.000	-0.002
	11:DERZ3	5.452	0.731	16.326	17.228	-0.000	0.001	0.001
	12:DERZ4	-5.302	-3.478	-16.760	17.920	-0.000	-0.001	-0.001
144	5:DERX1	0.000	-2.971	0.000	2.971	-0.002	0.000	0.000
	6:DERX2	-0.000	-2.971	-0.000	2.971	-0.002	-0.000	0.000
	7:DERZ1	0.000	-2.971	0.000	2.971	-0.002	0.000	0.000
	8:DERZ2	-0.000	-2.971	-0.000	2.971	-0.002	-0.000	0.000
	9:DERX3	0.000	-1.458	0.000	1.458	-0.001	0.000	0.000
	10:DERX4	-0.000	-1.458	-0.000	1.458	-0.001	-0.000	0.000
	11:DERZ3	0.000	-1.458	0.000	1.458	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.458	-0.000	1.458	-0.001	-0.000	0.000
	5:DERX1	0.000	-2.252	0.000	2.252	-0.001	0.000	0.002
	6:DERX2	-0.000	-2.252	-0.000	2.252	-0.001	-0.000	0.002
	7:DERZ1	0.000	-2.252	0.000	2.252	-0.001	0.000	0.002
	8:DERZ2	-0.000	-2.252	-0.000	2.252	-0.001	-0.000	0.002
145	9:DERX3	0.000	-1.205	0.000	1.205	-0.001	0.000	0.001
	10:DERX4	-0.000	-1.205	-0.000	1.205	-0.001	-0.000	0.001
	11:DERZ3	0.000	-1.205	0.000	1.205	-0.001	0.000	0.001
	12:DERZ4	-0.000	-1.205	-0.000	1.205	-0.001	-0.000	0.001
	5:DERX1	7.282	-3.547	0.128	8.101	-0.002	0.000	0.001
	6:DERX2	-7.157	-3.703	-0.165	8.060	-0.002	-0.000	-0.001
	7:DERZ1	2.323	-1.081	5.996	6.521	-0.002	0.000	0.000
	8:DERZ2	-2.197	-6.168	-6.033	8.904	-0.002	-0.000	-0.000
	9:DERX3	7.260	-2.135	0.125	7.569	-0.001	0.000	0.001
	10:DERX4	-7.179	-2.291	-0.168	7.537	-0.001	-0.000	-0.001
	11:DERZ3	2.301	0.331	5.993	6.428	-0.001	0.000	0.000
	12:DERZ4	-2.219	-4.757	-6.036	7.999	-0.001	-0.000	-0.000
146	5:DERX1	7.284	-2.343	0.240	7.655	-0.001	0.000	0.003
	6:DERX2	-7.160	-2.548	-0.182	7.602	-0.001	-0.000	0.000
	7:DERZ1	2.322	-0.008	5.922	6.361	-0.001	0.000	0.002
	8:DERZ2	-2.199	-4.883	-5.864	7.941	-0.001	-0.000	0.001
	9:DERX3	7.262	-1.477	0.212	7.414	-0.001	0.000	0.002
	10:DERX4	-7.182	-1.682	-0.210	7.379	-0.001	-0.000	-0.000
	11:DERZ3	2.301	0.858	5.894	6.385	-0.000	0.000	0.001
	12:DERZ4	-2.220	-4.017	-5.892	7.469	-0.001	-0.000	0.000
	5:DERX1	17.544	-4.399	0.205	18.089	-0.002	0.000	0.000
	6:DERX2	-17.362	-4.617	-0.583	17.975	-0.002	-0.000	-0.000
	7:DERZ1	5.467	-1.836	15.388	16.433	-0.002	0.000	-0.000
	8:DERZ2	-5.285	-7.180	-15.766	18.112	-0.002	-0.001	-0.000
147	9:DERX3	17.537	-2.110	0.273	17.665	-0.001	0.000	0.000
	10:DERX4	-17.369	-2.328	-0.515	17.532	-0.001	-0.000	-0.000
	11:DERZ3	5.460	0.453	15.456	16.398	-0.001	0.001	0.000
	12:DERZ4	-5.292	-4.891	-15.698	17.273	-0.001	-0.001	-0.000
	5:DERX1	17.549	-2.704	0.775	17.773	-0.001	0.000	0.003
	6:DERX2	-17.347	-3.136	-0.828	17.648	-0.001	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
150	7:DERZ1	5.475	-0.374	15.227	16.186	-0.001	0.000	0.002
	8:DERZ2	-5.274	-5.466	-15.280	17.063	-0.001	-0.001	0.001
	9:DERX3	17.538	-1.407	0.762	17.611	-0.000	0.000	0.002
	10:DERX4	-17.359	-1.838	-0.840	17.476	-0.001	-0.000	-0.001
	11:DERZ3	5.464	0.923	15.215	16.192	-0.000	0.001	0.001
	12:DERZ4	-5.285	-4.169	-15.292	16.708	-0.001	-0.001	0.000
	5:DERX1	0.000	-4.433	0.000	4.433	0.000	0.000	0.000
	6:DERX2	-0.000	-4.433	-0.000	4.433	0.000	-0.000	0.000
	7:DERZ1	0.000	-4.433	0.000	4.433	0.000	0.000	0.000
	8:DERZ2	-0.000	-4.433	-0.000	4.433	0.000	-0.000	0.000
	9:DERX3	0.000	-2.595	0.000	2.595	0.000	0.000	0.000
	10:DERX4	-0.000	-2.595	-0.000	2.595	0.000	-0.000	0.000
152	11:DERZ3	0.000	-2.595	0.000	2.595	0.000	0.000	0.000
	12:DERZ4	-0.000	-2.595	-0.000	2.595	0.000	-0.000	0.000
	5:DERX1	7.329	-2.566	0.267	7.770	0.000	0.000	0.002
	6:DERX2	-7.172	-2.750	-0.413	7.693	-0.000	-0.000	-0.002
	7:DERZ1	1.848	-1.934	6.316	6.860	0.001	0.000	0.000
	8:DERZ2	-1.692	-3.381	-6.462	7.487	-0.001	-0.000	-0.001
	9:DERX3	7.298	-1.568	0.294	7.470	0.000	0.000	0.002
	10:DERX4	-7.203	-1.752	-0.387	7.423	-0.000	-0.000	-0.002
	11:DERZ3	1.818	-0.936	6.343	6.664	0.001	0.000	0.000
	12:DERZ4	-1.722	-2.383	-6.436	7.076	-0.001	-0.000	-0.001
	5:DERX1	17.992	-3.368	0.868	18.325	0.000	0.000	0.003
	6:DERX2	-17.649	-3.725	-1.588	18.108	-0.000	-0.000	-0.003
154	7:DERZ1	4.383	-2.896	16.182	17.014	0.001	0.000	0.001
	8:DERZ2	-4.040	-4.197	-16.902	17.878	-0.001	-0.001	-0.000
	9:DERX3	17.948	-1.754	1.016	18.062	0.000	0.000	0.003
	10:DERX4	-17.693	-2.111	-1.439	17.877	-0.000	-0.000	-0.003
	11:DERZ3	4.339	-1.282	16.331	16.946	0.001	0.001	0.001
	12:DERZ4	-4.084	-2.583	-16.753	17.436	-0.001	-0.001	-0.000
	5:DERX1	0.000	-5.191	0.000	5.191	0.000	0.000	0.000
	6:DERX2	-0.000	-5.191	-0.000	5.191	0.000	-0.000	0.000
	7:DERZ1	0.000	-5.191	0.000	5.191	0.000	0.000	0.000
	8:DERZ2	-0.000	-5.191	-0.000	5.191	0.000	-0.000	0.000
	9:DERX3	0.000	-2.548	0.000	2.548	0.000	0.000	0.000
	10:DERX4	-0.000	-2.548	-0.000	2.548	0.000	-0.000	0.000
156	11:DERZ3	0.000	-2.548	0.000	2.548	0.000	0.000	0.000
	12:DERZ4	-0.000	-2.548	-0.000	2.548	0.000	-0.000	0.000
	5:DERX1	0.000	-3.928	0.000	3.928	0.000	0.000	0.002
	6:DERX2	-0.000	-3.928	-0.000	3.928	0.000	-0.000	0.002
	7:DERZ1	0.000	-3.928	0.000	3.928	0.000	0.000	0.002
	8:DERZ2	-0.000	-3.928	-0.000	3.928	0.000	-0.000	0.002
	9:DERX3	0.000	-2.103	0.000	2.103	0.000	0.000	0.001
	10:DERX4	-0.000	-2.103	-0.000	2.103	0.000	-0.000	0.001
	11:DERZ3	0.000	-2.103	0.000	2.103	0.000	0.000	0.001
	12:DERZ4	-0.000	-2.103	-0.000	2.103	0.000	-0.000	0.001
	5:DERX1	7.328	-6.084	0.125	9.525	-0.000	0.000	0.001
	6:DERX2	-7.172	-6.323	-0.168	9.563	-0.000	-0.000	-0.001
158	7:DERZ1	1.848	-4.456	5.997	7.697	0.001	0.000	0.000
	8:DERZ2	-1.691	-7.951	-6.041	10.128	-0.001	-0.000	-0.000
	9:DERX3	7.298	-3.678	0.124	8.173	-0.000	0.000	0.001
	10:DERX4	-7.203	-3.917	-0.169	8.201	-0.000	-0.000	-0.001
	11:DERZ3	1.817	-2.050	5.996	6.592	0.001	0.000	0.000
	12:DERZ4	-1.722	-5.545	-6.042	8.380	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
159	5:DERX1	7.332	-3.713	0.237	8.222	-0.000	0.000	0.003
	6:DERX2	-7.177	-4.035	-0.187	8.235	-0.000	-0.000	0.001
	7:DERZ1	1.848	-1.988	5.924	6.516	0.000	0.000	0.002
	8:DERZ2	-1.693	-5.760	-5.873	8.399	-0.001	-0.000	0.002
	9:DERX3	7.302	-2.339	0.212	7.670	-0.000	0.000	0.002
	10:DERX4	-7.207	-2.661	-0.213	7.685	-0.000	-0.000	-0.000
	11:DERZ3	1.818	-0.614	5.898	6.202	0.001	0.000	0.001
	12:DERZ4	-1.723	-4.386	-5.899	7.551	-0.001	-0.000	0.001
160	5:DERX1	18.002	-7.367	0.212	19.452	-0.000	0.000	0.000
	6:DERX2	-17.645	-7.758	-0.574	19.284	-0.000	-0.000	-0.000
	7:DERZ1	4.390	-5.431	15.398	16.908	0.000	0.000	-0.000
	8:DERZ2	-4.034	-9.694	-15.760	18.937	-0.001	-0.001	-0.000
	9:DERX3	17.955	-3.506	0.276	18.296	-0.000	0.000	0.000
	10:DERX4	-17.692	-3.897	-0.510	18.123	-0.000	-0.000	-0.000
	11:DERZ3	4.343	-1.570	15.462	16.137	0.001	0.001	0.000
	12:DERZ4	-4.080	-5.833	-15.696	17.235	-0.001	-0.001	-0.000
161	5:DERX1	18.003	-4.039	0.764	18.466	-0.000	0.000	0.004
	6:DERX2	-17.637	-4.729	-0.818	18.278	-0.000	-0.000	0.001
	7:DERZ1	4.394	-2.282	15.220	16.005	0.000	0.000	0.003
	8:DERZ2	-4.028	-6.486	-15.274	17.076	-0.001	-0.001	0.002
	9:DERX3	17.954	-2.039	0.751	18.085	-0.000	0.000	0.002
	10:DERX4	-17.686	-2.729	-0.830	17.914	-0.000	-0.000	-0.000
	11:DERZ3	4.345	-0.282	15.208	15.819	0.001	0.001	0.001
	12:DERZ4	-4.077	-4.486	-15.287	16.445	-0.001	-0.001	0.001
162	5:DERX1	0.000	-2.539	0.000	2.539	0.001	0.000	0.000
	6:DERX2	-0.000	-2.539	-0.000	2.539	0.001	-0.000	0.000
	7:DERZ1	0.000	-2.539	0.000	2.539	0.001	0.000	0.000
	8:DERZ2	-0.000	-2.539	-0.000	2.539	0.001	-0.000	0.000
	9:DERX3	0.000	-1.486	0.000	1.486	0.001	0.000	0.000
	10:DERX4	-0.000	-1.486	-0.000	1.486	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.486	0.000	1.486	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.486	-0.000	1.486	0.001	-0.000	0.000
164	5:DERX1	7.364	-1.648	0.264	7.550	0.001	0.000	0.002
	6:DERX2	-7.179	-2.070	-0.416	7.483	0.001	-0.000	-0.002
	7:DERZ1	1.370	-0.860	6.317	6.521	0.001	0.000	0.000
	8:DERZ2	-1.186	-2.858	-6.469	7.171	0.000	-0.000	-0.000
	9:DERX3	7.325	-0.959	0.292	7.393	0.000	0.000	0.002
	10:DERX4	-7.218	-1.381	-0.388	7.359	0.000	-0.000	-0.002
	11:DERZ3	1.331	-0.171	6.345	6.486	0.001	0.000	0.000
	12:DERZ4	-1.224	-2.169	-6.441	6.906	0.000	-0.000	-0.000
166	5:DERX1	18.447	-2.300	0.873	18.611	0.001	0.000	0.003
	6:DERX2	-17.932	-2.894	-1.568	18.232	0.001	-0.000	-0.003
	7:DERZ1	3.306	-1.461	16.194	16.593	0.001	0.000	0.000
	8:DERZ2	-2.791	-3.733	-16.889	17.520	0.000	-0.001	-0.000
	9:DERX3	18.364	-1.147	1.016	18.428	0.000	0.000	0.003
	10:DERX4	-18.015	-1.741	-1.424	18.155	0.000	-0.000	-0.003
	11:DERZ3	3.222	-0.308	16.338	16.655	0.001	0.001	0.000
	12:DERZ4	-2.874	-2.579	-16.746	17.185	0.000	-0.001	-0.000
168	5:DERX1	0.000	-2.971	0.000	2.971	0.002	0.000	0.000
	6:DERX2	-0.000	-2.971	-0.000	2.971	0.002	-0.000	0.000
	7:DERZ1	0.000	-2.971	0.000	2.971	0.002	0.000	0.000
	8:DERZ2	-0.000	-2.971	-0.000	2.971	0.002	-0.000	0.000
	9:DERX3	0.000	-1.458	0.000	1.458	0.001	0.000	0.000
	10:DERX4	-0.000	-1.458	-0.000	1.458	0.001	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
169	11:DERZ3	0.000	-1.458	0.000	1.458	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.458	-0.000	1.458	0.001	-0.000	0.000
	5:DERX1	0.000	-2.252	0.000	2.252	0.001	0.000	0.002
	6:DERX2	-0.000	-2.252	-0.000	2.252	0.001	-0.000	0.002
	7:DERZ1	0.000	-2.252	0.000	2.252	0.001	0.000	0.002
	8:DERZ2	-0.000	-2.252	-0.000	2.252	0.001	-0.000	0.002
	9:DERX3	0.000	-1.205	0.000	1.205	0.001	0.000	0.001
	10:DERX4	-0.000	-1.205	-0.000	1.205	0.001	-0.000	0.001
	11:DERZ3	0.000	-1.205	0.000	1.205	0.001	0.000	0.001
	12:DERZ4	-0.000	-1.205	-0.000	1.205	0.001	-0.000	0.001
	5:DERX1	7.374	-4.233	0.122	8.503	0.002	0.000	0.001
	6:DERX2	-7.186	-4.362	-0.171	8.408	0.002	-0.000	-0.001
170	7:DERZ1	1.372	-4.236	5.999	7.470	0.002	0.000	0.000
	8:DERZ2	-1.185	-4.360	-6.047	7.549	0.001	-0.000	-0.000
	9:DERX3	7.334	-2.565	0.123	7.771	0.001	0.000	0.001
	10:DERX4	-7.226	-2.693	-0.170	7.713	0.001	-0.000	-0.001
	11:DERZ3	1.333	-2.567	5.999	6.660	0.002	0.000	0.000
	12:DERZ4	-1.224	-2.691	-6.047	6.731	0.000	-0.000	-0.000
	5:DERX1	7.381	-2.643	0.238	7.844	0.001	0.000	0.003
	6:DERX2	-7.193	-3.066	-0.194	7.821	0.001	-0.000	0.000
	7:DERZ1	1.374	-2.509	5.925	6.579	0.001	0.000	0.002
	8:DERZ2	-1.186	-3.199	-5.881	6.799	0.000	-0.000	0.001
	9:DERX3	7.341	-1.624	0.214	7.522	0.001	0.000	0.002
	10:DERX4	-7.233	-2.047	-0.218	7.520	0.001	-0.000	-0.000
171	11:DERZ3	1.334	-1.490	5.901	6.231	0.001	0.000	0.001
	12:DERZ4	-1.225	-2.180	-5.905	6.413	-0.000	-0.000	0.001
	5:DERX1	18.445	-5.309	0.219	19.195	0.002	0.000	0.000
	6:DERX2	-17.919	-5.560	-0.565	18.770	0.002	-0.000	-0.000
	7:DERZ1	3.310	-4.934	15.403	16.510	0.003	0.000	-0.000
	8:DERZ2	-2.784	-5.936	-15.749	17.059	0.001	-0.001	-0.000
	9:DERX3	18.359	-2.550	0.279	18.538	0.001	0.000	0.000
	10:DERX4	-18.004	-2.801	-0.505	18.228	0.001	-0.000	-0.000
	11:DERZ3	3.224	-2.174	15.464	15.945	0.002	0.001	-0.000
	12:DERZ4	-2.869	-3.176	-15.689	16.262	0.000	-0.001	-0.000
	5:DERX1	18.441	-3.092	0.738	18.713	0.001	0.000	0.003
	6:DERX2	-17.906	-3.941	-0.804	18.352	0.001	-0.000	0.000
173	7:DERZ1	3.313	-2.985	15.208	15.849	0.001	0.000	0.002
	8:DERZ2	-2.778	-4.047	-15.275	16.044	0.000	-0.001	0.002
	9:DERX3	18.354	-1.529	0.727	18.432	0.000	0.000	0.002
	10:DERX4	-17.994	-2.378	-0.814	18.168	0.000	-0.000	-0.001
	11:DERZ3	3.225	-1.422	15.198	15.601	0.001	0.001	0.001
	12:DERZ4	-2.865	-2.485	-15.285	15.748	-0.000	-0.001	0.000
	5:DERX1	0.000	-0.511	0.000	0.511	-0.000	0.000	0.000
	6:DERX2	-0.000	-0.511	-0.000	0.511	-0.000	-0.000	0.000
	7:DERZ1	0.000	-0.511	0.000	0.511	-0.000	0.000	0.000
	8:DERZ2	-0.000	-0.511	-0.000	0.511	-0.000	-0.000	0.000
	9:DERX3	0.000	-0.305	0.000	0.305	-0.000	0.000	0.000
	10:DERX4	-0.000	-0.305	-0.000	0.305	-0.000	-0.000	0.000
174	11:DERZ3	0.000	-0.305	0.000	0.305	-0.000	0.000	0.000
	12:DERZ4	-0.000	-0.305	-0.000	0.305	-0.000	-0.000	0.000
	5:DERX1	0.000	-1.400	0.000	1.400	-0.000	0.000	-0.001
	6:DERX2	-0.000	-1.400	-0.000	1.400	-0.000	-0.000	-0.001
	7:DERZ1	0.000	-1.400	0.000	1.400	-0.000	0.000	-0.001
	8:DERZ2	-0.000	-1.400	-0.000	1.400	-0.000	-0.000	-0.001
175	5:DERX1	0.000	-1.400	0.000	1.400	-0.000	0.000	-0.001
	6:DERX2	-0.000	-1.400	-0.000	1.400	-0.000	-0.000	-0.001
	7:DERZ1	0.000	-1.400	0.000	1.400	-0.000	0.000	-0.001
	8:DERZ2	-0.000	-1.400	-0.000	1.400	-0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
177	9:DERX3	0.000	-0.790	0.000	0.790	-0.000	0.000	-0.000
	10:DERX4	-0.000	-0.790	-0.000	0.790	-0.000	-0.000	-0.000
	11:DERZ3	0.000	-0.790	0.000	0.790	-0.000	0.000	-0.000
	12:DERZ4	-0.000	-0.790	-0.000	0.790	-0.000	-0.000	-0.000
	5:DERX1	7.523	2.964	0.363	8.094	-0.000	0.000	0.001
	6:DERX2	-7.273	-6.919	-0.303	10.043	-0.000	-0.000	-0.003
	7:DERZ1	0.383	-1.533	5.975	6.180	-0.000	0.000	-0.001
	8:DERZ2	-0.133	-2.423	-5.914	6.393	-0.000	-0.000	-0.001
	9:DERX3	7.466	3.929	0.335	8.443	0.000	0.000	0.002
	10:DERX4	-7.331	-5.954	-0.331	9.450	-0.000	-0.000	-0.002
	11:DERZ3	0.326	-0.568	5.947	5.983	0.000	0.000	-0.000
	12:DERZ4	-0.190	-1.457	-5.942	6.121	-0.000	-0.000	-0.001
179	5:DERX1	19.251	-0.888	0.646	19.282	0.000	0.000	0.003
	6:DERX2	-18.447	-1.554	-0.770	18.528	0.000	-0.000	-0.003
	7:DERZ1	0.990	-0.122	15.171	15.203	0.001	0.001	-0.000
	8:DERZ2	-0.186	-2.320	-15.294	15.471	-0.000	-0.001	-0.000
	9:DERX3	19.099	-0.453	0.646	19.115	0.000	0.000	0.003
	10:DERX4	-18.599	-1.119	-0.770	18.648	0.000	-0.000	-0.003
	11:DERZ3	0.838	0.313	15.170	15.197	0.000	0.001	-0.000
	12:DERZ4	-0.338	-1.885	-15.295	15.414	-0.000	-0.001	-0.000
180	5:DERX1	0.000	-0.551	0.000	0.551	-0.000	0.000	0.000
	6:DERX2	-0.000	-0.551	-0.000	0.551	-0.000	-0.000	0.000
	7:DERZ1	0.000	-0.551	0.000	0.551	-0.000	0.000	0.000
	8:DERZ2	-0.000	-0.551	-0.000	0.551	-0.000	-0.000	0.000
	9:DERX3	0.000	-0.274	0.000	0.274	-0.000	0.000	0.000
	10:DERX4	-0.000	-0.274	-0.000	0.274	-0.000	-0.000	0.000
	11:DERZ3	0.000	-0.274	0.000	0.274	-0.000	0.000	0.000
	12:DERZ4	-0.000	-0.274	-0.000	0.274	-0.000	-0.000	0.000
181	5:DERX1	0.000	-0.646	0.000	0.646	-0.000	0.000	0.000
	6:DERX2	-0.000	-0.646	-0.000	0.646	-0.000	-0.000	0.000
	7:DERZ1	0.000	-0.646	0.000	0.646	-0.000	0.000	0.000
	8:DERZ2	-0.000	-0.646	-0.000	0.646	-0.000	-0.000	0.000
	9:DERX3	0.000	-0.336	0.000	0.336	-0.000	0.000	0.000
	10:DERX4	-0.000	-0.336	-0.000	0.336	-0.000	-0.000	0.000
	11:DERZ3	0.000	-0.336	0.000	0.336	-0.000	0.000	0.000
	12:DERZ4	-0.000	-0.336	-0.000	0.336	-0.000	-0.000	0.000
182	5:DERX1	7.510	0.067	0.122	7.512	0.000	0.000	0.001
	6:DERX2	-7.257	-0.018	-0.171	7.259	0.000	-0.000	-0.001
	7:DERZ1	0.382	0.086	6.000	6.013	0.000	0.000	-0.000
	8:DERZ2	-0.129	-0.037	-6.048	6.050	-0.000	-0.000	-0.000
	9:DERX3	7.453	0.123	0.124	7.455	0.000	0.000	0.001
	10:DERX4	-7.315	0.038	-0.169	7.317	0.000	-0.000	-0.001
	11:DERZ3	0.324	0.142	6.002	6.012	0.000	0.000	-0.000
	12:DERZ4	-0.186	0.019	-6.047	6.050	-0.000	-0.000	-0.000
183	5:DERX1	7.524	-0.385	0.245	7.537	0.000	0.000	0.002
	6:DERX2	-7.272	-0.817	-0.212	7.321	0.000	-0.000	-0.002
	7:DERZ1	0.383	0.245	5.924	5.942	0.000	0.000	0.000
	8:DERZ2	-0.131	-1.447	-5.892	6.068	-0.000	-0.000	0.000
	9:DERX3	7.466	-0.120	0.224	7.470	0.000	0.000	0.002
	10:DERX4	-7.329	-0.553	-0.232	7.354	0.000	-0.000	-0.002
	11:DERZ3	0.325	0.509	5.904	5.935	0.000	0.000	0.000
	12:DERZ4	-0.189	-1.182	-5.912	6.032	-0.000	-0.000	0.000
184	5:DERX1	19.254	0.355	0.232	19.259	0.000	0.000	0.000
	6:DERX2	-18.469	0.037	-0.538	18.477	0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
185	7:DERZ1	0.981	0.295	15.419	15.453	0.000	0.001	-0.000
	8:DERZ2	-0.196	0.097	-15.726	15.727	-0.000	-0.001	-0.000
	9:DERX3	19.106	0.138	0.283	19.109	0.000	0.000	0.000
	10:DERX4	-18.617	-0.180	-0.487	18.624	0.000	-0.000	-0.000
	11:DERZ3	0.833	0.078	15.470	15.493	0.000	0.001	0.000
	12:DERZ4	-0.344	-0.120	-15.674	15.679	-0.000	-0.001	0.000
	5:DERX1	0.000	-2.939	0.000	2.939	-0.002	0.000	0.000
	6:DERX2	-0.000	-2.939	-0.000	2.939	-0.002	-0.000	0.000
	7:DERZ1	0.000	-2.939	0.000	2.939	-0.002	0.000	0.000
	8:DERZ2	-0.000	-2.939	-0.000	2.939	-0.002	-0.000	0.000
	9:DERX3	0.000	-1.695	0.000	1.695	-0.001	0.000	0.000
	10:DERX4	-0.000	-1.695	-0.000	1.695	-0.001	-0.000	0.000
186	11:DERZ3	0.000	-1.695	0.000	1.695	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.695	-0.000	1.695	-0.001	-0.000	0.000
	5:DERX1	0.000	-3.767	0.000	3.767	-0.001	0.000	-0.000
	6:DERX2	-0.000	-3.767	-0.000	3.767	-0.001	-0.000	-0.000
	7:DERZ1	0.000	-3.767	0.000	3.767	-0.001	0.000	-0.000
	8:DERZ2	-0.000	-3.767	-0.000	3.767	-0.001	-0.000	-0.000
	9:DERX3	0.000	-2.032	0.000	2.032	-0.001	0.000	-0.000
	10:DERX4	-0.000	-2.032	-0.000	2.032	-0.001	-0.000	-0.000
	11:DERZ3	0.000	-2.032	0.000	2.032	-0.001	0.000	-0.000
	12:DERZ4	-0.000	-2.032	-0.000	2.032	-0.001	-0.000	-0.000
	5:DERX1	7.696	-2.076	0.324	7.978	-0.001	0.000	0.003
	6:DERX2	-7.378	-2.274	-0.452	7.734	-0.001	-0.000	-0.003
187	7:DERZ1	0.920	-0.945	6.265	6.402	-0.001	0.000	0.000
	8:DERZ2	-0.603	-3.405	-6.393	7.268	-0.001	-0.000	-0.000
	9:DERX3	7.621	-1.260	0.350	7.733	-0.001	0.000	0.003
	10:DERX4	-7.453	-1.457	-0.427	7.606	-0.001	-0.000	-0.003
	11:DERZ3	0.846	-0.129	6.290	6.348	-0.000	0.000	0.000
	12:DERZ4	-0.677	-2.588	-6.367	6.906	-0.001	-0.000	-0.000
	5:DERX1	7.714	0.290	0.373	7.729	-0.001	0.000	0.001
	6:DERX2	-7.401	-9.760	-0.315	12.253	-0.001	-0.000	-0.003
	7:DERZ1	0.917	-4.233	5.972	7.377	-0.001	0.000	-0.000
	8:DERZ2	-0.604	-5.237	-5.913	7.922	-0.001	-0.000	-0.001
	9:DERX3	7.640	2.528	0.347	8.055	-0.000	0.000	0.002
	10:DERX4	-7.475	-7.522	-0.342	10.610	-0.001	-0.000	-0.002
188	11:DERZ3	0.843	-1.995	5.945	6.327	-0.000	0.000	0.000
	12:DERZ4	-0.678	-2.999	-5.940	6.689	-0.001	-0.000	-0.001
	5:DERX1	19.778	-2.796	0.818	19.992	-0.001	0.000	0.003
	6:DERX2	-18.972	-3.161	-1.067	19.263	-0.001	-0.000	-0.003
	7:DERZ1	2.340	-1.579	16.417	16.658	-0.001	0.001	0.000
	8:DERZ2	-1.534	-4.378	-16.665	17.299	-0.001	-0.001	-0.000
	9:DERX3	19.613	-1.437	0.872	19.685	-0.001	0.000	0.003
	10:DERX4	-19.137	-1.802	-1.013	19.249	-0.001	-0.000	-0.003
	11:DERZ3	2.175	-0.220	16.471	16.615	-0.001	0.001	0.000
	12:DERZ4	-1.699	-3.018	-16.611	16.968	-0.001	-0.001	-0.000
	5:DERX1	19.792	-2.459	0.551	19.951	-0.001	0.000	0.003
	6:DERX2	-18.931	-2.867	-0.738	19.161	-0.001	-0.000	-0.003
189	7:DERZ1	2.368	-1.064	15.141	15.362	-0.001	0.001	-0.000
	8:DERZ2	-1.507	-4.262	-15.329	15.981	-0.001	-0.001	-0.001
	9:DERX3	19.616	-1.249	0.561	19.664	-0.001	0.000	0.003
	10:DERX4	-19.107	-1.658	-0.728	19.192	-0.001	-0.000	-0.003
	11:DERZ3	2.192	0.145	15.151	15.310	-0.001	0.001	0.000
	12:DERZ4	-1.683	-3.052	-15.318	15.710	-0.001	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
191	5:DERX1	0.000	-3.520	0.000	3.520	-0.003	0.000	0.000
	6:DERX2	-0.000	-3.520	-0.000	3.520	-0.003	-0.000	0.000
	7:DERZ1	0.000	-3.520	0.000	3.520	-0.003	0.000	0.000
	8:DERZ2	-0.000	-3.520	-0.000	3.520	-0.003	-0.000	0.000
	9:DERX3	0.000	-1.714	0.000	1.714	-0.001	0.000	0.000
	10:DERX4	-0.000	-1.714	-0.000	1.714	-0.001	-0.000	0.000
	11:DERZ3	0.000	-1.714	0.000	1.714	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.714	-0.000	1.714	-0.001	-0.000	0.000
192	5:DERX1	0.000	-3.570	0.000	3.570	-0.003	0.000	0.001
	6:DERX2	-0.000	-3.570	-0.000	3.570	-0.003	-0.000	0.001
	7:DERZ1	0.000	-3.570	0.000	3.570	-0.003	0.000	0.001
	8:DERZ2	-0.000	-3.570	-0.000	3.570	-0.003	-0.000	0.001
	9:DERX3	0.000	-1.753	0.000	1.753	-0.001	0.000	0.000
	10:DERX4	-0.000	-1.753	-0.000	1.753	-0.001	-0.000	0.000
	11:DERZ3	0.000	-1.753	0.000	1.753	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.753	-0.000	1.753	-0.001	-0.000	0.000
193	5:DERX1	7.708	-5.300	0.120	9.355	-0.003	0.000	0.001
	6:DERX2	-7.390	-5.662	-0.172	9.311	-0.003	-0.000	-0.001
	7:DERZ1	0.921	-4.948	5.988	7.822	-0.003	0.000	-0.000
	8:DERZ2	-0.602	-6.014	-6.039	8.544	-0.003	-0.000	-0.000
	9:DERX3	7.633	-3.146	0.123	8.257	-0.002	0.000	0.001
	10:DERX4	-7.464	-3.508	-0.168	8.250	-0.002	-0.000	-0.001
	11:DERZ3	0.846	-2.794	5.991	6.664	-0.001	0.000	0.000
	12:DERZ4	-0.677	-3.860	-6.036	7.197	-0.002	-0.000	-0.000
194	5:DERX1	7.714	-3.453	0.248	8.456	-0.002	0.000	0.002
	6:DERX2	-7.400	-3.969	-0.224	8.400	-0.002	-0.000	-0.001
	7:DERZ1	0.918	-2.372	5.918	6.441	-0.002	0.000	0.001
	8:DERZ2	-0.604	-5.049	-5.894	7.784	-0.002	-0.000	0.000
	9:DERX3	7.640	-1.933	0.230	7.884	-0.001	0.000	0.002
	10:DERX4	-7.474	-2.449	-0.242	7.869	-0.001	-0.000	-0.001
	11:DERZ3	0.844	-0.853	5.900	6.020	-0.001	0.000	0.001
	12:DERZ4	-0.678	-3.530	-5.912	6.919	-0.001	-0.000	0.000
195	5:DERX1	19.780	-7.742	0.251	21.243	-0.004	0.000	0.000
	6:DERX2	-18.952	-7.816	-0.507	20.507	-0.004	-0.000	-0.000
	7:DERZ1	2.351	-7.592	15.451	17.375	-0.003	0.001	0.000
	8:DERZ2	-1.522	-7.967	-15.708	17.679	-0.004	-0.001	-0.000
	9:DERX3	19.611	-3.731	0.291	19.965	-0.002	0.000	0.000
	10:DERX4	-19.121	-3.805	-0.467	19.502	-0.002	-0.000	-0.000
	11:DERZ3	2.182	-3.580	15.492	16.049	-0.001	0.001	0.000
	12:DERZ4	-1.692	-3.956	-15.668	16.248	-0.002	-0.001	-0.000
196	5:DERX1	0.000	-6.435	0.000	6.435	-0.001	0.000	0.000
	6:DERX2	-0.000	-6.435	-0.000	6.435	-0.001	-0.000	0.000
	7:DERZ1	0.000	-6.435	0.000	6.435	-0.001	0.000	0.000
	8:DERZ2	-0.000	-6.435	-0.000	6.435	-0.001	-0.000	0.000
	9:DERX3	0.000	-3.711	0.000	3.711	-0.001	0.000	0.000
	10:DERX4	-0.000	-3.711	-0.000	3.711	-0.001	-0.000	0.000
	11:DERZ3	0.000	-3.711	0.000	3.711	-0.001	0.000	0.000
	12:DERZ4	-0.000	-3.711	-0.000	3.711	-0.001	-0.000	0.000
197	5:DERX1	0.000	-5.326	0.000	5.326	-0.000	0.000	0.001
	6:DERX2	-0.000	-5.326	-0.000	5.326	-0.000	-0.000	0.001
	7:DERZ1	0.000	-5.326	0.000	5.326	-0.000	0.000	0.001
	8:DERZ2	-0.000	-5.326	-0.000	5.326	-0.000	-0.000	0.001
	9:DERX3	0.000	-2.844	0.000	2.844	-0.000	0.000	0.000
	10:DERX4	-0.000	-2.844	-0.000	2.844	-0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
198	11:DERZ3	0.000	-2.844	0.000	2.844	-0.000	0.000	0.000
	12:DERZ4	-0.000	-2.844	-0.000	2.844	-0.000	-0.000	0.000
	5:DERX1	7.807	-3.524	0.318	8.571	-0.000	0.000	0.003
	6:DERX2	-7.455	-3.760	-0.455	8.362	-0.000	-0.000	-0.003
	7:DERZ1	1.355	-3.613	6.249	7.344	0.001	0.000	0.000
	8:DERZ2	-1.004	-3.671	-6.386	7.434	-0.001	-0.000	-0.001
	9:DERX3	7.723	-2.143	0.346	8.023	-0.000	0.000	0.003
	10:DERX4	-7.539	-2.379	-0.427	7.917	-0.000	-0.000	-0.003
	11:DERZ3	1.272	-2.232	6.277	6.782	0.001	0.000	0.000
	12:DERZ4	-1.087	-2.290	-6.358	6.845	-0.001	-0.000	-0.000
	5:DERX1	7.810	-1.235	0.375	7.916	-0.000	0.000	0.002
	6:DERX2	-7.465	-11.069	-0.320	13.355	-0.000	-0.000	-0.002
199	7:DERZ1	1.351	-5.088	5.967	7.957	0.000	0.000	0.001
	8:DERZ2	-1.006	-7.217	-5.912	9.383	-0.001	-0.000	-0.000
	9:DERX3	7.728	1.662	0.349	7.912	-0.000	0.000	0.002
	10:DERX4	-7.547	-8.173	-0.346	11.130	-0.000	-0.000	-0.002
	11:DERZ3	1.269	-2.191	5.941	6.458	0.000	0.000	0.001
	12:DERZ4	-1.088	-4.320	-5.938	7.423	-0.001	-0.000	-0.000
	5:DERX1	19.924	-4.522	0.826	20.447	-0.000	0.000	0.003
	6:DERX2	-19.148	-4.931	-1.043	19.800	-0.000	-0.000	-0.003
	7:DERZ1	3.370	-4.601	16.429	17.391	0.001	0.001	0.001
	8:DERZ2	-2.594	-4.851	-16.646	17.532	-0.001	-0.001	-0.000
	9:DERX3	19.759	-2.300	0.874	19.912	-0.000	0.000	0.003
	10:DERX4	-19.313	-2.709	-0.996	19.528	-0.000	-0.000	-0.003
200	11:DERZ3	3.205	-2.380	16.477	16.954	0.001	0.001	0.000
	12:DERZ4	-2.759	-2.630	-16.599	17.031	-0.001	-0.001	-0.000
	5:DERX1	19.940	-4.103	0.528	20.364	-0.000	0.000	0.003
	6:DERX2	-19.135	-4.528	-0.723	19.677	-0.000	-0.000	-0.003
	7:DERZ1	3.384	-3.836	15.141	15.982	0.000	0.001	0.000
	8:DERZ2	-2.579	-4.794	-15.336	16.274	-0.001	-0.001	-0.001
	9:DERX3	19.769	-2.080	0.539	19.885	-0.000	0.000	0.003
	10:DERX4	-19.306	-2.505	-0.712	19.481	-0.000	-0.000	-0.003
	11:DERZ3	3.213	-1.814	15.152	15.595	0.001	0.001	0.000
	12:DERZ4	-2.750	-2.771	-15.326	15.815	-0.001	-0.001	-0.001
	5:DERX1	0.000	-7.716	0.000	7.716	-0.001	0.000	0.000
	6:DERX2	-0.000	-7.716	-0.000	7.716	-0.001	-0.000	0.000
201	7:DERZ1	0.000	-7.716	0.000	7.716	-0.001	0.000	0.000
	8:DERZ2	-0.000	-7.716	-0.000	7.716	-0.001	-0.000	0.000
	9:DERX3	0.000	-3.756	0.000	3.756	-0.001	0.000	0.000
	10:DERX4	-0.000	-3.756	-0.000	3.756	-0.001	-0.000	0.000
	11:DERZ3	0.000	-3.756	0.000	3.756	-0.001	0.000	0.000
	12:DERZ4	-0.000	-3.756	-0.000	3.756	-0.001	-0.000	0.000
	5:DERX1	0.000	-7.742	0.000	7.742	-0.001	0.000	0.002
	6:DERX2	-0.000	-7.742	-0.000	7.742	-0.001	-0.000	0.002
	7:DERZ1	0.000	-7.742	0.000	7.742	-0.001	0.000	0.002
	8:DERZ2	-0.000	-7.742	-0.000	7.742	-0.001	-0.000	0.002
	9:DERX3	0.000	-3.801	0.000	3.801	-0.001	0.000	0.001
	10:DERX4	-0.000	-3.801	-0.000	3.801	-0.001	-0.000	0.001
202	11:DERZ3	0.000	-3.801	0.000	3.801	-0.001	0.000	0.001
	12:DERZ4	-0.000	-3.801	-0.000	3.801	-0.001	-0.000	0.001
	5:DERX1	7.806	-9.423	0.116	12.237	-0.001	0.000	0.001
	6:DERX2	-7.456	-10.169	-0.175	12.611	-0.001	-0.000	-0.001
	7:DERZ1	1.355	-9.304	5.980	11.142	-0.001	0.000	0.000
	8:DERZ2	-1.005	-10.289	-6.039	11.972	-0.002	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
205	9:DERX3	7.723	-5.583	0.122	9.530	-0.001	0.000	0.001
	10:DERX4	-7.539	-6.329	-0.170	9.845	-0.001	-0.000	-0.001
	11:DERZ3	1.271	-5.463	5.985	8.203	-0.000	0.000	0.000
	12:DERZ4	-1.088	-6.448	-6.033	8.897	-0.001	-0.000	-0.000
	5:DERX1	7.810	-6.305	0.247	10.040	-0.001	0.000	0.003
	6:DERX2	-7.464	-7.204	-0.228	10.376	-0.001	-0.000	-0.001
	7:DERZ1	1.352	-6.575	5.911	8.944	0.000	0.000	0.001
	8:DERZ2	-1.006	-6.934	-5.892	9.155	-0.002	-0.000	0.001
	9:DERX3	7.727	-3.513	0.231	8.492	-0.000	0.000	0.002
	10:DERX4	-7.546	-4.413	-0.244	8.745	-0.001	-0.000	-0.001
	11:DERZ3	1.270	-3.784	5.895	7.119	0.000	0.000	0.001
	12:DERZ4	-1.088	-4.143	-5.909	7.298	-0.001	-0.000	0.000
206	5:DERX1	19.935	-13.445	0.260	24.047	-0.002	0.000	0.000
	6:DERX2	-19.145	-13.577	-0.496	23.475	-0.002	-0.000	-0.000
	7:DERZ1	3.377	-12.693	15.467	20.291	-0.001	0.001	0.000
	8:DERZ2	-2.586	-14.328	-15.703	21.415	-0.002	-0.001	-0.000
	9:DERX3	19.768	-6.428	0.295	20.789	-0.001	0.000	0.000
	10:DERX4	-19.312	-6.560	-0.461	20.401	-0.001	-0.000	-0.000
	11:DERZ3	3.209	-5.676	15.502	16.818	-0.000	0.001	0.000
	12:DERZ4	-2.753	-7.312	-15.668	17.508	-0.001	-0.001	-0.000
	5:DERX1	0.000	-6.383	0.000	6.383	0.001	0.000	0.000
	6:DERX2	-0.000	-6.383	-0.000	6.383	0.001	-0.000	0.000
	7:DERZ1	0.000	-6.383	0.000	6.383	0.001	0.000	0.000
	8:DERZ2	-0.000	-6.383	-0.000	6.383	0.001	-0.000	0.000
207	9:DERX3	0.000	-3.680	0.000	3.680	0.001	0.000	0.000
	10:DERX4	-0.000	-3.680	-0.000	3.680	0.001	-0.000	0.000
	11:DERZ3	0.000	-3.680	0.000	3.680	0.001	0.000	0.000
	12:DERZ4	-0.000	-3.680	-0.000	3.680	0.001	-0.000	0.000
	5:DERX1	0.000	-5.099	0.000	5.099	0.001	0.000	0.001
	6:DERX2	-0.000	-5.099	-0.000	5.099	0.001	-0.000	0.001
	7:DERZ1	0.000	-5.099	0.000	5.099	0.001	0.000	0.001
	8:DERZ2	-0.000	-5.099	-0.000	5.099	0.001	-0.000	0.001
	9:DERX3	0.000	-2.719	0.000	2.719	0.000	0.000	0.000
	10:DERX4	-0.000	-2.719	-0.000	2.719	0.000	-0.000	0.000
	11:DERZ3	0.000	-2.719	0.000	2.719	0.000	0.000	0.000
	12:DERZ4	-0.000	-2.719	-0.000	2.719	0.000	-0.000	0.000
208	5:DERX1	7.907	-3.249	0.312	8.554	0.001	0.000	0.002
	6:DERX2	-7.520	-3.635	-0.457	8.365	0.001	-0.000	-0.003
	7:DERZ1	1.790	-1.537	6.231	6.663	0.001	0.000	0.000
	8:DERZ2	-1.403	-5.346	-6.377	8.439	-0.000	-0.000	-0.001
	9:DERX3	7.814	-1.940	0.342	8.059	0.000	0.000	0.003
	10:DERX4	-7.612	-2.326	-0.427	7.971	0.000	-0.000	-0.003
	11:DERZ3	1.698	-0.229	6.262	6.492	0.001	0.000	0.000
	12:DERZ4	-1.496	-4.037	-6.346	7.669	-0.000	-0.000	-0.001
	5:DERX1	7.905	-0.596	0.375	7.936	0.001	0.000	0.002
	6:DERX2	-7.528	-10.895	-0.324	13.247	0.001	-0.000	-0.002
	7:DERZ1	1.784	-3.664	5.961	7.221	0.001	0.000	0.001
	8:DERZ2	-1.407	-7.826	-5.910	9.907	0.000	-0.000	-0.000
209	9:DERX3	7.815	2.108	0.350	8.101	0.001	0.000	0.002
	10:DERX4	-7.619	-8.191	-0.349	11.192	0.000	-0.000	-0.002
	11:DERZ3	1.693	-0.960	5.936	6.247	0.001	0.000	0.001
	12:DERZ4	-1.498	-5.122	-5.935	7.981	-0.000	-0.000	-0.000
	5:DERX1	20.061	-4.157	0.834	20.504	0.001	0.000	0.003
	6:DERX2	-19.333	-4.723	-1.024	19.928	0.001	-0.000	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
212	7:DERZ1	4.393	-2.567	16.438	17.207	0.002	0.001	0.001
	8:DERZ2	-3.665	-6.313	-16.629	18.160	-0.000	-0.001	-0.000
	9:DERX3	19.900	-2.067	0.876	20.026	0.000	0.000	0.003
	10:DERX4	-19.495	-2.633	-0.982	19.696	0.000	-0.000	-0.003
	11:DERZ3	4.231	-0.477	16.480	17.021	0.001	0.001	0.001
	12:DERZ4	-3.826	-4.223	-16.586	17.538	-0.000	-0.001	-0.000
	5:DERX1	20.078	-3.932	0.516	20.466	0.001	0.000	0.003
	6:DERX2	-19.318	-4.428	-0.707	19.832	0.001	-0.000	-0.003
	7:DERZ1	4.407	-2.768	15.146	16.015	0.001	0.001	0.000
	8:DERZ2	-3.648	-5.592	-15.338	16.728	-0.000	-0.001	-0.001
	9:DERX3	19.910	-1.972	0.525	20.014	0.000	0.000	0.003
	10:DERX4	-19.486	-2.467	-0.698	19.654	0.000	-0.000	-0.003
213	11:DERZ3	4.240	-0.807	15.155	15.758	0.001	0.001	0.000
	12:DERZ4	-3.816	-3.632	-15.329	16.209	-0.001	-0.001	-0.001
	5:DERX1	0.000	-7.654	0.000	7.654	0.001	0.000	0.000
	6:DERX2	-0.000	-7.654	-0.000	7.654	0.001	-0.000	0.000
	7:DERZ1	0.000	-7.654	0.000	7.654	0.001	0.000	0.000
	8:DERZ2	-0.000	-7.654	-0.000	7.654	0.001	-0.000	0.000
	9:DERX3	0.000	-3.726	0.000	3.726	0.001	0.000	0.000
	10:DERX4	-0.000	-3.726	-0.000	3.726	0.001	-0.000	0.000
	11:DERZ3	0.000	-3.726	0.000	3.726	0.001	0.000	0.000
	12:DERZ4	-0.000	-3.726	-0.000	3.726	0.001	-0.000	0.000
	5:DERX1	0.000	-7.667	0.000	7.667	0.001	0.000	0.002
	6:DERX2	-0.000	-7.667	-0.000	7.667	0.001	-0.000	0.002
214	7:DERZ1	0.000	-7.667	0.000	7.667	0.001	0.000	0.002
	8:DERZ2	-0.000	-7.667	-0.000	7.667	0.001	-0.000	0.002
	9:DERX3	0.000	-3.763	0.000	3.763	0.001	0.000	0.001
	10:DERX4	-0.000	-3.763	-0.000	3.763	0.001	-0.000	0.001
	11:DERZ3	0.000	-3.763	0.000	3.763	0.001	0.000	0.001
	12:DERZ4	-0.000	-3.763	-0.000	3.763	0.001	-0.000	0.001
	5:DERX1	7.904	-9.205	0.113	12.133	0.001	0.000	0.000
	6:DERX2	-7.521	-9.971	-0.179	12.491	0.001	-0.000	-0.000
	7:DERZ1	1.788	-7.841	5.974	10.018	0.002	0.000	0.000
	8:DERZ2	-1.405	-11.335	-6.040	12.920	0.001	-0.000	-0.000
	9:DERX3	7.813	-5.431	0.121	9.516	0.001	0.000	0.000
	10:DERX4	-7.613	-6.197	-0.171	9.818	0.001	-0.000	-0.000
215	11:DERZ3	1.697	-4.067	5.981	7.430	0.001	0.000	0.000
	12:DERZ4	-1.497	-7.561	-6.032	9.788	0.000	-0.000	-0.000
	5:DERX1	7.905	-6.061	0.245	9.964	0.001	0.000	0.003
	6:DERX2	-7.527	-7.037	-0.232	10.307	0.001	-0.000	-0.001
	7:DERZ1	1.785	-4.934	5.902	7.898	0.002	0.000	0.001
	8:DERZ2	-1.407	-8.163	-5.889	10.164	0.000	-0.000	0.001
	9:DERX3	7.814	-3.347	0.231	8.504	0.001	0.000	0.002
	10:DERX4	-7.618	-4.324	-0.247	8.763	0.001	-0.000	-0.001
	11:DERZ3	1.694	-2.221	5.888	6.517	0.001	0.000	0.001
	12:DERZ4	-1.498	-5.450	-5.904	8.173	-0.000	-0.000	0.000
	5:DERX1	20.073	-13.205	0.267	24.028	0.002	0.000	0.000
	6:DERX2	-19.327	-13.348	-0.487	23.494	0.002	-0.000	-0.000
216	7:DERZ1	4.401	-11.405	15.478	19.723	0.002	0.001	0.000
	8:DERZ2	-3.655	-15.147	-15.698	22.119	0.001	-0.001	-0.000
	9:DERX3	19.908	-6.296	0.298	20.882	0.001	0.000	0.000
	10:DERX4	-19.492	-6.439	-0.456	20.533	0.001	-0.000	-0.000
	11:DERZ3	4.236	-4.496	15.509	16.694	0.001	0.001	0.000
	12:DERZ4	-3.820	-8.238	-15.667	18.108	0.001	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
218	5:DERX1	0.000	-2.833	0.000	2.833	0.002	0.000	0.000
	6:DERX2	-0.000	-2.833	-0.000	2.833	0.002	-0.000	0.000
	7:DERZ1	0.000	-2.833	0.000	2.833	0.002	0.000	0.000
	8:DERZ2	-0.000	-2.833	-0.000	2.833	0.002	-0.000	0.000
	9:DERX3	0.000	-1.633	0.000	1.633	0.001	0.000	0.000
	10:DERX4	-0.000	-1.633	-0.000	1.633	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.633	0.000	1.633	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.633	-0.000	1.633	0.001	-0.000	0.000
219	5:DERX1	0.000	-3.364	0.000	3.364	0.001	0.000	-0.000
	6:DERX2	-0.000	-3.364	-0.000	3.364	0.001	-0.000	-0.000
	7:DERZ1	0.000	-3.364	0.000	3.364	0.001	0.000	-0.000
	8:DERZ2	-0.000	-3.364	-0.000	3.364	0.001	-0.000	-0.000
	9:DERX3	0.000	-1.807	0.000	1.807	0.000	0.000	-0.000
	10:DERX4	-0.000	-1.807	-0.000	1.807	0.000	-0.000	-0.000
	11:DERZ3	0.000	-1.807	0.000	1.807	0.000	0.000	-0.000
	12:DERZ4	-0.000	-1.807	-0.000	1.807	0.000	-0.000	-0.000
220	5:DERX1	8.000	-1.537	0.306	8.152	0.001	0.000	0.002
	6:DERX2	-7.576	-1.976	-0.458	7.843	0.001	-0.000	-0.003
	7:DERZ1	2.223	0.720	6.211	6.636	0.001	0.000	0.000
	8:DERZ2	-1.798	-4.233	-6.364	7.851	0.001	-0.000	-0.001
	9:DERX3	7.899	-0.872	0.339	7.954	0.001	0.000	0.002
	10:DERX4	-7.677	-1.310	-0.425	7.800	0.001	-0.000	-0.003
	11:DERZ3	2.121	1.385	6.244	6.739	0.001	0.000	0.001
	12:DERZ4	-1.900	-3.567	-6.331	7.511	0.000	-0.000	-0.001
221	5:DERX1	7.997	1.960	0.373	8.242	0.001	0.000	0.002
	6:DERX2	-7.590	-9.306	-0.326	12.013	0.001	-0.000	-0.003
	7:DERZ1	2.215	-1.345	5.954	6.493	0.002	0.000	0.000
	8:DERZ2	-1.808	-6.001	-5.907	8.612	0.001	-0.000	-0.001
	9:DERX3	7.899	3.677	0.350	8.720	0.001	0.000	0.002
	10:DERX4	-7.689	-7.589	-0.350	10.809	0.000	-0.000	-0.002
	11:DERZ3	2.116	0.372	5.930	6.307	0.001	0.000	0.001
	12:DERZ4	-1.906	-4.283	-5.931	7.560	0.000	-0.000	-0.001
222	5:DERX1	20.183	-2.065	0.842	20.306	0.001	0.000	0.003
	6:DERX2	-19.527	-2.678	-1.012	19.736	0.001	-0.000	-0.003
	7:DERZ1	5.406	0.154	16.442	17.308	0.002	0.001	0.001
	8:DERZ2	-4.749	-4.897	-16.612	17.958	0.001	-0.001	-0.001
	9:DERX3	20.030	-0.980	0.879	20.073	0.001	0.000	0.003
	10:DERX4	-19.681	-1.592	-0.974	19.769	0.001	-0.000	-0.003
	11:DERZ3	5.252	1.239	16.480	17.340	0.001	0.001	0.001
	12:DERZ4	-4.903	-3.812	-16.574	17.700	0.000	-0.001	-0.001
223	5:DERX1	20.208	-2.093	0.514	20.322	0.001	0.000	0.003
	6:DERX2	-19.478	-2.594	-0.692	19.662	0.001	-0.000	-0.003
	7:DERZ1	5.438	-0.219	15.156	16.103	0.001	0.001	0.001
	8:DERZ2	-4.708	-4.469	-15.334	16.652	0.001	-0.001	-0.001
	9:DERX3	20.040	-1.030	0.519	20.073	0.001	0.000	0.003
	10:DERX4	-19.645	-1.531	-0.687	19.717	0.001	-0.000	-0.003
	11:DERZ3	5.270	0.845	15.161	16.073	0.001	0.001	0.001
	12:DERZ4	-4.875	-3.406	-15.329	16.442	0.000	-0.001	-0.001
224	5:DERX1	0.000	-3.396	0.000	3.396	0.003	0.000	0.000
	6:DERX2	-0.000	-3.396	-0.000	3.396	0.003	-0.000	0.000
	7:DERZ1	0.000	-3.396	0.000	3.396	0.003	0.000	0.000
	8:DERZ2	-0.000	-3.396	-0.000	3.396	0.003	-0.000	0.000
	9:DERX3	0.000	-1.653	0.000	1.653	0.001	0.000	0.000
	10:DERX4	-0.000	-1.653	-0.000	1.653	0.001	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
225	11:DERZ3	0.000	-1.653	0.000	1.653	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.653	-0.000	1.653	0.001	-0.000	0.000
	5:DERX1	0.000	-3.427	0.000	3.427	0.003	0.000	0.001
	6:DERX2	-0.000	-3.427	-0.000	3.427	0.003	-0.000	0.001
	7:DERZ1	0.000	-3.427	0.000	3.427	0.003	0.000	0.001
	8:DERZ2	-0.000	-3.427	-0.000	3.427	0.003	-0.000	0.001
	9:DERX3	0.000	-1.682	0.000	1.682	0.001	0.000	0.000
	10:DERX4	-0.000	-1.682	-0.000	1.682	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.682	0.000	1.682	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.682	-0.000	1.682	0.001	-0.000	0.000
	5:DERX1	8.001	-4.879	0.109	9.372	0.003	0.000	0.000
	6:DERX2	-7.585	-5.281	-0.183	9.244	0.003	-0.000	-0.000
226	7:DERZ1	2.221	-3.120	5.969	7.092	0.003	0.000	0.000
	8:DERZ2	-1.804	-7.040	-6.043	9.451	0.002	-0.000	0.000
	9:DERX3	7.901	-2.856	0.119	8.402	0.002	0.000	0.000
	10:DERX4	-7.685	-3.258	-0.173	8.349	0.002	-0.000	-0.000
	11:DERZ3	2.120	-1.097	5.979	6.438	0.002	0.000	0.000
	12:DERZ4	-1.905	-5.017	-6.033	8.074	0.001	-0.000	0.000
	5:DERX1	7.998	-2.952	0.242	8.529	0.002	0.000	0.003
	6:DERX2	-7.590	-3.595	-0.236	8.401	0.002	-0.000	-0.001
	7:DERZ1	2.216	-1.081	5.890	6.386	0.002	0.000	0.001
	8:DERZ2	-1.808	-5.465	-5.884	8.231	0.002	-0.000	0.000
	9:DERX3	7.900	-1.600	0.230	8.063	0.001	0.000	0.002
	10:DERX4	-7.689	-2.243	-0.249	8.013	0.001	-0.000	-0.002
227	11:DERZ3	2.117	0.271	5.878	6.253	0.001	0.000	0.001
	12:DERZ4	-1.907	-4.113	-5.897	7.438	0.001	-0.000	-0.000
	5:DERX1	20.201	-7.277	0.275	21.474	0.004	0.000	0.000
	6:DERX2	-19.502	-7.377	-0.478	20.856	0.004	-0.000	-0.001
	7:DERZ1	5.425	-5.430	15.487	17.285	0.004	0.001	0.000
	8:DERZ2	-4.726	-9.224	-15.691	18.805	0.003	-0.001	-0.000
	9:DERX3	20.040	-3.481	0.302	20.342	0.002	0.000	0.000
	10:DERX4	-19.664	-3.580	-0.451	19.992	0.002	-0.000	-0.000
	11:DERZ3	5.264	-1.633	15.515	16.465	0.002	0.001	0.000
	12:DERZ4	-4.888	-5.428	-15.663	17.283	0.001	-0.001	-0.000
	5:DERX1	0.000	-4.504	0.000	4.504	-0.004	0.000	-0.000
	6:DERX2	-0.000	-4.504	-0.000	4.504	-0.004	-0.000	-0.000
228	7:DERZ1	0.000	-4.504	0.000	4.504	-0.004	0.000	-0.000
	8:DERZ2	-0.000	-4.504	-0.000	4.504	-0.004	-0.000	-0.000
	9:DERX3	0.000	-2.663	0.000	2.663	-0.002	0.000	-0.000
	10:DERX4	-0.000	-2.663	-0.000	2.663	-0.002	-0.000	-0.000
	11:DERZ3	0.000	-2.663	0.000	2.663	-0.002	0.000	-0.000
	12:DERZ4	-0.000	-2.663	-0.000	2.663	-0.002	-0.000	-0.000
	5:DERX1	0.000	-4.571	0.000	4.571	-0.002	0.000	-0.000
	6:DERX2	-0.000	-4.571	-0.000	4.571	-0.002	-0.000	-0.000
	7:DERZ1	0.000	-4.571	0.000	4.571	-0.002	0.000	-0.000
	8:DERZ2	-0.000	-4.571	-0.000	4.571	-0.002	-0.000	-0.000
	9:DERX3	0.000	-2.500	0.000	2.500	-0.001	0.000	-0.000
	10:DERX4	-0.000	-2.500	-0.000	2.500	-0.001	-0.000	-0.000
229	11:DERZ3	0.000	-2.500	0.000	2.500	-0.001	0.000	-0.000
	12:DERZ4	-0.000	-2.500	-0.000	2.500	-0.001	-0.000	-0.000
	5:DERX1	0.000	-5.570	0.000	5.570	-0.004	0.000	0.000
	6:DERX2	-0.000	-5.570	-0.000	5.570	-0.004	-0.000	0.000
	7:DERZ1	0.000	-5.570	0.000	5.570	-0.004	0.000	0.000
	8:DERZ2	-0.000	-5.570	-0.000	5.570	-0.004	-0.000	0.000
230	5:DERX1	0.000	-5.570	0.000	5.570	-0.004	0.000	0.000
	6:DERX2	-0.000	-5.570	-0.000	5.570	-0.004	-0.000	0.000
	7:DERZ1	0.000	-5.570	0.000	5.570	-0.004	0.000	0.000
	8:DERZ2	-0.000	-5.570	-0.000	5.570	-0.004	-0.000	0.000
231	5:DERX1	0.000	-5.570	0.000	5.570	-0.004	0.000	0.000
	6:DERX2	-0.000	-5.570	-0.000	5.570	-0.004	-0.000	0.000
	7:DERZ1	0.000	-5.570	0.000	5.570	-0.004	0.000	0.000
	8:DERZ2	-0.000	-5.570	-0.000	5.570	-0.004	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
232	9:DERX3	0.000	-3.064	0.000	3.064	-0.002	0.000	0.000
	10:DERX4	-0.000	-3.064	-0.000	3.064	-0.002	-0.000	0.000
	11:DERZ3	0.000	-3.064	0.000	3.064	-0.002	0.000	0.000
	12:DERZ4	-0.000	-3.064	-0.000	3.064	-0.002	-0.000	0.000
	5:DERX1	0.000	-4.531	0.000	4.531	-0.003	0.000	0.001
	6:DERX2	-0.000	-4.531	-0.000	4.531	-0.003	-0.000	0.001
	7:DERZ1	0.000	-4.531	0.000	4.531	-0.003	0.000	0.001
	8:DERZ2	-0.000	-4.531	-0.000	4.531	-0.003	-0.000	0.001
	9:DERX3	0.000	-2.438	0.000	2.438	-0.002	0.000	0.000
	10:DERX4	-0.000	-2.438	-0.000	2.438	-0.002	-0.000	0.000
	11:DERZ3	0.000	-2.438	0.000	2.438	-0.002	0.000	0.000
	12:DERZ4	-0.000	-2.438	-0.000	2.438	-0.002	-0.000	0.000
233	5:DERX1	32.317	-5.020	0.796	32.714	-0.000	0.000	-0.003
	6:DERX2	-30.077	-9.222	-1.317	31.486	-0.000	-0.000	-0.003
	7:DERZ1	4.496	-6.912	24.273	25.635	0.000	0.001	-0.003
	8:DERZ2	-2.255	-7.329	-24.793	25.952	-0.000	-0.001	-0.003
	9:DERX3	31.950	-2.534	0.900	32.063	-0.000	0.000	-0.002
	10:DERX4	-30.443	-6.736	-1.213	31.203	-0.000	-0.000	-0.002
	11:DERZ3	4.129	-4.426	24.376	25.116	0.000	0.001	-0.002
	12:DERZ4	-2.622	-4.843	-24.690	25.296	-0.000	-0.001	-0.002
	5:DERX1	32.456	-11.151	0.453	34.321	0.000	0.000	-0.001
	6:DERX2	-30.087	-13.216	-0.956	32.875	-0.000	-0.000	-0.002
	7:DERZ1	4.577	-11.984	23.658	26.912	0.000	0.001	-0.001
	8:DERZ2	-2.208	-12.383	-24.161	27.240	-0.000	-0.001	-0.002
235	9:DERX3	32.066	-6.876	0.544	32.799	0.000	0.000	-0.000
	10:DERX4	-30.476	-8.941	-0.865	31.773	-0.000	-0.000	-0.002
	11:DERZ3	4.187	-7.709	23.750	25.318	0.000	0.001	-0.001
	12:DERZ4	-2.597	-8.108	-24.070	25.532	-0.000	-0.001	-0.001
	5:DERX1	32.588	-11.896	0.248	34.692	0.000	0.000	0.002
	6:DERX2	-30.091	-13.397	-0.754	32.947	0.000	-0.000	0.000
	7:DERZ1	4.661	-12.343	23.165	26.659	0.000	0.001	0.001
	8:DERZ2	-2.164	-12.949	-23.670	27.067	-0.000	-0.001	0.001
	9:DERX3	32.175	-7.433	0.331	33.024	0.000	0.000	0.001
	10:DERX4	-30.503	-8.934	-0.671	31.792	0.000	-0.000	-0.000
	11:DERZ3	4.248	-7.881	23.247	24.912	0.000	0.001	0.001
	12:DERZ4	-2.576	-8.487	-23.587	25.200	-0.000	-0.001	0.001
237	5:DERX1	32.728	-6.626	0.368	33.394	0.000	0.000	0.003
	6:DERX2	-30.079	-9.635	-0.885	31.597	0.000	-0.000	0.003
	7:DERZ1	4.759	-7.804	22.812	24.575	0.000	0.001	0.003
	8:DERZ2	-2.110	-8.457	-23.330	24.905	-0.000	-0.001	0.003
	9:DERX3	32.288	-3.725	0.443	32.505	0.000	0.000	0.002
	10:DERX4	-30.519	-6.734	-0.810	31.263	0.000	-0.000	0.002
	11:DERZ3	4.319	-4.903	22.888	23.802	0.000	0.001	0.002
	12:DERZ4	-2.550	-5.557	-23.254	24.045	-0.000	-0.001	0.002
	5:DERX1	37.877	-13.241	2.296	40.190	-0.003	-0.000	0.003
	6:DERX2	-34.844	-17.207	0.615	38.866	-0.004	-0.000	0.001
	7:DERZ1	14.842	-13.567	25.256	32.283	-0.003	0.001	0.003
	8:DERZ2	-11.808	-16.882	-22.344	30.392	-0.004	-0.001	0.002
239	9:DERX3	37.275	-7.530	1.719	38.067	-0.002	-0.000	0.002
	10:DERX4	-35.446	-11.496	0.038	37.264	-0.003	-0.000	0.001
	11:DERZ3	14.239	-7.856	24.678	29.555	-0.002	0.001	0.002
	12:DERZ4	-12.411	-11.171	-22.922	28.358	-0.003	-0.001	0.001
	5:DERX1	38.981	-13.107	3.516	41.275	-0.004	-0.001	-0.000
	6:DERX2	-35.032	-21.497	1.517	41.130	-0.005	-0.002	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
251	7:DERZ1	15.656	-14.285	26.689	34.080	-0.004	-0.000	-0.000
	8:DERZ2	-11.707	-20.319	-21.655	31.920	-0.005	-0.002	-0.001
	9:DERX3	38.197	-6.586	2.550	38.845	-0.002	-0.000	0.000
	10:DERX4	-35.815	-14.976	0.551	38.824	-0.004	-0.001	-0.001
	11:DERZ3	14.873	-7.763	25.723	30.711	-0.002	0.000	-0.000
	12:DERZ4	-12.490	-13.798	-22.622	29.294	-0.003	-0.002	-0.001
	5:DERX1	36.969	-6.345	2.148	37.571	-0.003	-0.001	-0.003
	6:DERX2	-37.121	-15.104	0.458	40.079	-0.004	-0.002	-0.004
	7:DERZ1	13.810	-6.454	25.959	30.104	-0.002	-0.000	-0.003
	8:DERZ2	-13.962	-14.995	-23.353	31.067	-0.005	-0.003	-0.004
	9:DERX3	36.955	-2.288	1.653	37.062	-0.001	-0.000	-0.002
	10:DERX4	-37.135	-11.048	-0.036	38.744	-0.003	-0.002	-0.003
275	11:DERZ3	13.796	-2.398	25.464	29.060	-0.001	0.000	-0.002
	12:DERZ4	-13.976	-10.938	-23.848	29.727	-0.003	-0.002	-0.003
	5:DERX1	32.898	-0.763	1.161	32.927	0.001	0.001	0.001
	6:DERX2	-37.382	-1.362	-2.519	37.492	0.000	-0.001	-0.003
	7:DERZ1	7.853	-0.138	26.451	27.592	0.002	0.001	-0.000
	8:DERZ2	-12.338	-1.987	-27.808	30.487	-0.001	-0.001	-0.002
	9:DERX3	33.729	-0.380	1.441	33.762	0.000	0.001	0.001
	10:DERX4	-36.551	-0.979	-2.239	36.633	0.000	-0.001	-0.003
	11:DERZ3	8.684	0.245	26.730	28.107	0.002	0.001	0.000
	12:DERZ4	-11.507	-1.604	-27.529	29.880	-0.001	-0.001	-0.001
	5:DERX1	33.604	-2.699	1.896	33.765	0.001	0.001	0.000
	6:DERX2	-35.515	-3.656	-1.960	35.756	0.001	-0.000	-0.002
276	7:DERZ1	6.141	-0.440	27.663	28.340	0.001	0.001	-0.000
	8:DERZ2	-8.052	-5.915	-27.728	29.473	0.001	-0.001	-0.001
	9:DERX3	33.977	-1.545	1.938	34.067	0.000	0.001	0.000
	10:DERX4	-35.142	-2.503	-1.918	35.283	0.000	-0.000	-0.001
	11:DERZ3	6.514	0.713	27.706	28.470	0.000	0.001	0.000
	12:DERZ4	-7.679	-4.761	-27.686	29.123	0.000	-0.001	-0.001
	5:DERX1	34.028	-3.154	2.156	34.242	-0.000	0.000	-0.000
	6:DERX2	-33.899	-3.977	-1.742	34.176	-0.000	-0.000	-0.001
	7:DERZ1	4.529	-1.895	27.633	28.066	0.000	0.001	-0.000
	8:DERZ2	-4.400	-5.236	-27.219	28.065	-0.001	-0.001	-0.001
	9:DERX3	34.031	-1.848	2.104	34.146	-0.000	0.000	-0.000
	10:DERX4	-33.897	-2.670	-1.794	34.049	-0.000	-0.000	-0.000
277	11:DERZ3	4.531	-0.589	27.581	27.957	0.000	0.001	0.000
	12:DERZ4	-4.397	-3.929	-27.271	27.901	-0.001	-0.001	-0.001
	5:DERX1	35.569	-1.185	0.536	35.593	0.000	-0.000	0.003
	6:DERX2	-34.459	-1.377	-1.491	34.518	0.000	-0.000	0.001
	7:DERZ1	10.479	-1.013	22.858	25.166	0.000	0.001	0.002
	8:DERZ2	-9.369	-1.550	-23.814	25.637	0.000	-0.001	0.001
	9:DERX3	35.359	-0.714	0.680	35.372	0.000	-0.000	0.002
	10:DERX4	-34.670	-0.906	-1.347	34.708	0.000	-0.000	0.000
	11:DERZ3	10.268	-0.541	23.003	25.196	0.000	0.001	0.001
	12:DERZ4	-9.579	-1.078	-23.669	25.557	0.000	-0.001	0.001
	5:DERX1	34.725	-3.230	0.132	34.875	0.001	-0.001	0.003
	6:DERX2	-33.867	-3.666	-2.064	34.127	0.001	-0.001	0.001
278	7:DERZ1	7.514	-2.441	22.471	23.820	0.001	0.000	0.002
	8:DERZ2	-6.656	-4.456	-24.403	25.684	0.000	-0.002	0.002
	9:DERX3	34.568	-1.954	0.457	34.626	0.000	-0.000	0.002
	10:DERX4	-34.024	-2.390	-1.739	34.152	0.000	-0.001	0.000
	11:DERZ3	7.357	-1.165	22.796	23.982	0.001	0.001	0.001
	12:DERZ4	-6.814	-3.180	-24.078	25.225	0.000	-0.001	0.001
279	5:DERX1	34.725	-3.230	0.132	34.875	0.001	-0.001	0.003
	6:DERX2	-33.867	-3.666	-2.064	34.127	0.001	-0.001	0.001
	7:DERZ1	7.514	-2.441	22.471	23.820	0.001	0.000	0.002
	8:DERZ2	-6.656	-4.456	-24.403	25.684	0.000	-0.002	0.002
	9:DERX3	34.568	-1.954	0.457	34.626	0.000	-0.000	0.002
	10:DERX4	-34.024	-2.390	-1.739	34.152	0.000	-0.001	0.000
	11:DERZ3	7.357	-1.165	22.796	23.982	0.001	0.001	0.001
	12:DERZ4	-6.814	-3.180	-24.078	25.225	0.000	-0.001	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
280	5:DERX1	34.042	-3.383	0.196	34.210	-0.001	-0.000	0.004
	6:DERX2	-32.778	-3.678	-1.995	33.044	-0.001	-0.001	0.001
	7:DERZ1	4.872	-2.138	22.527	23.147	-0.000	0.001	0.002
	8:DERZ2	-3.609	-4.923	-24.326	25.080	-0.001	-0.001	0.002
	9:DERX3	33.819	-2.079	0.494	33.886	-0.000	-0.000	0.003
	10:DERX4	-33.001	-2.374	-1.697	33.130	-0.000	-0.000	0.000
	11:DERZ3	4.649	-0.834	22.825	23.309	-0.000	0.001	0.002
	12:DERZ4	-3.831	-3.619	-24.028	24.599	-0.001	-0.001	0.001
281	5:DERX1	33.108	-4.125	-0.583	33.369	-0.000	-0.000	0.003
	6:DERX2	-33.876	-10.567	-2.845	35.600	-0.001	-0.000	0.001
	7:DERZ1	1.110	-6.957	22.000	23.101	-0.000	0.001	0.002
	8:DERZ2	-1.878	-7.735	-25.428	26.645	-0.001	-0.001	0.002
	9:DERX3	33.277	-1.398	0.029	33.306	-0.000	0.000	0.002
	10:DERX4	-33.708	-7.839	-2.234	34.679	-0.001	-0.000	0.000
	11:DERZ3	1.278	-4.230	22.612	23.040	0.000	0.001	0.001
	12:DERZ4	-1.709	-5.007	-24.817	25.375	-0.001	-0.001	0.001
282	5:DERX1	32.684	-5.898	-1.408	33.242	0.000	0.001	-0.000
	6:DERX2	-34.869	-13.423	-2.840	37.471	-0.001	-0.000	-0.000
	7:DERZ1	0.420	-9.070	22.544	24.304	-0.000	0.001	-0.000
	8:DERZ2	-2.605	-10.250	-26.791	28.803	-0.001	-0.001	-0.000
	9:DERX3	33.116	-2.315	-0.635	33.203	0.000	0.000	0.000
	10:DERX4	-34.437	-9.840	-2.067	35.875	-0.000	-0.000	-0.000
	11:DERZ3	0.852	-5.487	23.317	23.969	0.000	0.001	-0.000
	12:DERZ4	-2.173	-6.668	-26.018	26.947	-0.000	-0.001	-0.000
283	5:DERX1	33.279	-4.037	-0.159	33.524	0.000	0.001	-0.001
	6:DERX2	-33.747	-8.957	-2.157	34.982	-0.000	0.000	-0.002
	7:DERZ1	1.272	-6.135	24.539	25.327	-0.000	0.002	-0.002
	8:DERZ2	-1.739	-6.860	-26.855	27.772	-0.000	-0.000	-0.002
	9:DERX3	33.393	-1.634	0.268	33.434	0.000	0.001	-0.000
	10:DERX4	-33.633	-6.554	-1.731	34.309	-0.000	0.000	-0.002
	11:DERZ3	1.386	-3.731	24.966	25.281	0.000	0.001	-0.001
	12:DERZ4	-1.625	-4.457	-26.429	26.851	-0.000	-0.001	-0.001
286	5:DERX1	34.258	-5.171	-0.157	34.647	0.001	0.001	-0.000
	6:DERX2	-34.641	-6.545	-1.718	35.296	-0.000	-0.000	-0.001
	7:DERZ1	7.094	-5.425	23.766	25.388	0.001	0.001	-0.001
	8:DERZ2	-7.477	-6.292	-25.640	27.439	0.001	-0.001	-0.001
	9:DERX3	34.336	-2.976	0.182	34.465	0.001	0.001	-0.000
	10:DERX4	-34.563	-4.351	-1.378	34.863	-0.000	-0.000	-0.001
	11:DERZ3	7.172	-3.230	24.105	25.356	0.001	0.001	-0.000
	12:DERZ4	-7.399	-4.097	-25.301	26.677	0.000	-0.001	-0.001
302	5:DERX1	34.350	-5.613	-0.779	34.814	-0.002	0.000	0.003
	6:DERX2	-36.602	-5.767	-2.080	37.112	-0.003	-0.000	0.002
	7:DERZ1	10.321	-4.986	22.259	25.037	-0.002	0.001	0.003
	8:DERZ2	-12.573	-6.394	-25.119	28.808	-0.002	-0.001	0.002
	9:DERX3	34.757	-3.506	-0.276	34.935	-0.001	0.000	0.002
	10:DERX4	-36.194	-3.661	-1.577	36.413	-0.002	-0.000	0.001
	11:DERZ3	10.728	-2.879	22.762	25.328	-0.001	0.001	0.002
	12:DERZ4	-12.165	-4.288	-24.616	27.790	-0.002	-0.001	0.001
303	5:DERX1	34.284	-5.635	-0.540	34.748	0.001	0.000	0.000
	6:DERX2	-35.302	-6.549	-1.668	35.943	-0.001	-0.000	-0.001
	7:DERZ1	8.164	-5.492	23.182	25.183	0.000	0.001	0.000
	8:DERZ2	-9.182	-6.692	-25.389	27.816	-0.000	-0.001	-0.000
	9:DERX3	34.474	-3.361	-0.146	34.638	0.001	0.000	0.000
	10:DERX4	-35.112	-4.275	-1.274	35.394	-0.001	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
304	11:DERZ3	8.354	-3.218	23.576	25.218	0.000	0.001	0.000
	12:DERZ4	-8.992	-4.418	-24.995	26.928	-0.000	-0.001	-0.000
	5:DERX1	34.310	-5.856	-0.763	34.815	-0.000	0.000	0.001
	6:DERX2	-35.969	-6.328	-1.762	36.564	-0.001	-0.000	0.001
	7:DERZ1	9.231	-5.402	22.678	25.074	-0.001	0.001	0.001
	8:DERZ2	-10.890	-6.782	-25.203	28.281	-0.001	-0.001	0.001
	9:DERX3	34.614	-3.594	-0.317	34.801	0.000	0.000	0.001
	10:DERX4	-35.666	-4.066	-1.315	35.921	-0.001	-0.000	0.000
305	11:DERZ3	9.535	-3.140	23.125	25.210	-0.000	0.001	0.001
	12:DERZ4	-10.587	-4.519	-24.757	27.302	-0.001	-0.001	0.000
	5:DERX1	34.191	-2.642	1.157	34.313	0.000	0.000	-0.000
	6:DERX2	-32.623	-4.540	-2.160	33.008	-0.000	-0.000	-0.001
	7:DERZ1	3.885	-3.287	25.794	26.291	0.000	0.001	-0.001
	8:DERZ2	-2.316	-3.895	-26.797	27.177	-0.000	-0.001	-0.001
	9:DERX3	33.922	-1.300	1.357	33.974	0.000	0.000	-0.000
	10:DERX4	-32.892	-3.198	-1.961	33.105	-0.000	-0.000	-0.001
306	11:DERZ3	3.616	-1.944	25.993	26.315	0.000	0.001	-0.000
	12:DERZ4	-2.585	-2.553	-26.597	26.844	-0.000	-0.001	-0.001
	5:DERX1	34.188	-3.666	0.739	34.392	0.001	0.000	-0.000
	6:DERX2	-33.323	-5.687	-2.000	33.863	-0.000	-0.000	-0.001
	7:DERZ1	4.928	-4.393	25.081	25.935	0.001	0.001	-0.000
	8:DERZ2	-4.062	-4.960	-26.341	27.110	0.000	-0.001	-0.001
	9:DERX3	34.045	-1.911	0.979	34.112	0.001	0.000	-0.000
	10:DERX4	-33.466	-3.932	-1.760	33.742	-0.000	-0.000	-0.001
307	11:DERZ3	4.785	-2.638	25.321	25.903	0.000	0.001	-0.000
	12:DERZ4	-4.206	-3.205	-26.101	26.632	-0.000	-0.001	-0.001
	5:DERX1	34.211	-4.484	0.290	34.505	0.001	0.000	-0.000
	6:DERX2	-33.991	-6.295	-1.854	34.619	-0.000	-0.000	-0.001
	7:DERZ1	5.999	-5.068	24.395	25.628	0.001	0.001	-0.001
	8:DERZ2	-5.779	-5.711	-25.958	27.200	0.000	-0.001	-0.001
	9:DERX3	34.182	-2.461	0.579	34.276	0.001	0.000	-0.000
	10:DERX4	-34.020	-4.271	-1.565	34.323	-0.000	-0.000	-0.001
308	11:DERZ3	5.970	-3.045	24.684	25.577	0.001	0.001	-0.000
	12:DERZ4	-5.808	-3.688	-25.670	26.576	0.000	-0.001	-0.001
	5:DERX1	35.349	-7.416	0.053	36.119	-0.001	0.000	0.002
	6:DERX2	-35.897	-9.176	-1.079	37.066	-0.002	-0.000	0.000
	7:DERZ1	10.726	-7.303	23.535	26.875	-0.001	0.001	0.001
	8:DERZ2	-11.273	-9.289	-24.560	28.576	-0.002	-0.001	0.001
	9:DERX3	35.447	-4.355	0.233	35.714	-0.000	0.000	0.001
	10:DERX4	-35.799	-6.114	-0.900	36.328	-0.002	-0.000	-0.000
309	11:DERZ3	10.824	-4.241	23.714	26.410	-0.001	0.001	0.001
	12:DERZ4	-11.176	-6.227	-24.381	27.534	-0.002	-0.001	0.000
	5:DERX1	36.023	-5.525	0.813	36.453	-0.001	-0.000	-0.000
	6:DERX2	-36.441	-11.481	-0.642	38.212	-0.002	-0.001	-0.001
	7:DERZ1	10.984	-7.131	24.835	28.076	-0.000	0.001	-0.001
	8:DERZ2	-11.402	-9.875	-24.665	28.911	-0.002	-0.001	-0.001
	9:DERX3	36.104	-2.409	0.793	36.193	-0.000	-0.000	0.000
	10:DERX4	-36.360	-8.366	-0.662	37.316	-0.001	-0.000	-0.001
310	11:DERZ3	11.065	-4.015	24.815	27.465	0.000	0.001	-0.000
	12:DERZ4	-11.320	-6.760	-24.685	27.985	-0.002	-0.001	-0.001
	5:DERX1	34.804	-1.211	0.471	34.829	-0.000	0.000	-0.001
	6:DERX2	-37.690	-7.395	-1.251	38.429	-0.001	-0.001	-0.003
	7:DERZ1	9.727	-3.147	25.376	27.358	0.001	0.001	-0.002
	8:DERZ2	-12.613	-5.458	-26.156	29.547	-0.002	-0.002	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
311	9:DERX3	35.340	0.357	0.638	35.348	-0.000	0.000	-0.000
	10:DERX4	-37.154	-5.827	-1.084	37.624	-0.001	-0.001	-0.002
	11:DERZ3	10.263	-1.580	25.543	27.573	0.001	0.001	-0.001
	12:DERZ4	-12.077	-3.891	-25.989	28.921	-0.002	-0.002	-0.001
	5:DERX1	35.120	-3.013	-0.026	35.249	-0.001	0.000	0.002
	6:DERX2	-35.673	-3.621	-1.715	35.898	-0.001	-0.000	0.002
	7:DERZ1	10.646	-2.880	22.647	25.190	-0.001	0.001	0.002
	8:DERZ2	-11.200	-3.754	-24.388	27.098	-0.001	-0.001	0.002
	9:DERX3	35.214	-1.786	0.268	35.261	-0.000	0.000	0.001
	10:DERX4	-35.579	-2.394	-1.422	35.687	-0.001	-0.000	0.001
	11:DERZ3	10.741	-1.653	22.941	25.385	-0.000	0.001	0.002
	12:DERZ4	-11.105	-2.528	-24.094	26.651	-0.001	-0.001	0.001
314	5:DERX1	31.697	-5.894	1.067	32.258	0.000	-0.000	-0.000
	6:DERX2	-32.709	-7.337	-0.131	33.523	-0.001	-0.000	-0.001
	7:DERZ1	8.038	-6.224	25.028	27.014	-0.000	0.001	-0.000
	8:DERZ2	-9.050	-7.008	-24.093	26.674	-0.000	-0.001	-0.001
	9:DERX3	31.943	-3.440	0.891	32.140	0.000	0.000	0.000
	10:DERX4	-32.463	-4.883	-0.307	32.830	-0.001	-0.000	-0.001
	11:DERZ3	8.284	-3.770	24.853	26.467	0.000	0.001	-0.000
	12:DERZ4	-8.804	-4.553	-24.268	26.214	-0.000	-0.001	-0.001
	5:DERX1	31.954	-6.892	2.180	32.762	-0.001	0.001	0.003
	6:DERX2	-34.309	-12.358	1.024	36.482	-0.002	0.000	0.002
	7:DERZ1	1.409	-9.126	25.249	26.884	-0.001	0.002	0.003
	8:DERZ2	-3.764	-10.124	-22.045	24.549	-0.001	-0.000	0.002
341	9:DERX3	32.429	-3.329	1.574	32.637	-0.000	0.001	0.002
	10:DERX4	-33.835	-8.795	0.419	34.962	-0.001	0.000	0.001
	11:DERZ3	1.884	-5.562	24.643	25.333	-0.001	0.002	0.002
	12:DERZ4	-3.290	-6.561	-22.650	23.810	-0.001	-0.000	0.001
	5:DERX1	31.292	-9.287	3.326	32.810	-0.001	0.001	-0.000
	6:DERX2	-35.724	-16.698	1.392	39.458	-0.003	0.000	-0.000
	7:DERZ1	0.429	-12.275	26.871	29.545	-0.002	0.001	-0.000
	8:DERZ2	-4.861	-13.710	-22.154	26.503	-0.002	-0.000	-0.000
	9:DERX3	32.153	-4.475	2.449	32.555	-0.001	0.001	-0.000
	10:DERX4	-34.863	-11.887	0.515	36.838	-0.002	0.000	-0.000
	11:DERZ3	1.290	-7.464	25.995	27.076	-0.001	0.001	-0.000
	12:DERZ4	-4.000	-8.899	-23.031	25.012	-0.001	-0.001	-0.000
343	5:DERX1	32.111	-6.516	2.451	32.857	-0.001	0.000	-0.002
	6:DERX2	-34.569	-12.147	0.219	36.641	-0.002	-0.000	-0.003
	7:DERZ1	1.425	-8.839	26.820	28.275	-0.002	0.001	-0.002
	8:DERZ2	-3.882	-9.824	-24.151	26.360	-0.002	-0.001	-0.002
	9:DERX3	32.609	-3.061	1.959	32.810	-0.001	0.000	-0.001
	10:DERX4	-34.071	-8.692	-0.273	35.163	-0.002	-0.000	-0.002
	11:DERZ3	1.922	-5.384	26.329	26.942	-0.001	0.001	-0.001
	12:DERZ4	-3.385	-6.369	-24.642	25.676	-0.001	-0.001	-0.002
	5:DERX1	33.241	-15.867	-1.635	36.870	0.005	0.001	0.003
	6:DERX2	-30.677	-19.215	-2.705	36.299	0.003	0.000	0.002
	7:DERZ1	15.981	-16.002	21.549	31.238	0.004	0.001	0.003
	8:DERZ2	-13.416	-19.080	-25.889	34.847	0.004	-0.001	0.002
344	9:DERX3	32.824	-9.330	-0.825	34.134	0.003	0.000	0.002
	10:DERX4	-31.094	-12.678	-1.895	33.633	0.002	-0.000	0.001
	11:DERZ3	15.563	-9.465	22.359	28.840	0.003	0.001	0.002
	12:DERZ4	-13.834	-12.543	-25.079	31.268	0.002	-0.001	0.001
	5:DERX1	34.208	-16.262	-2.113	37.936	0.006	0.002	-0.001
	6:DERX2	-30.720	-23.111	-4.666	38.725	0.004	0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
346	7:DERZ1	16.776	-16.916	20.726	31.577	0.005	0.002	-0.001
	8:DERZ2	-13.288	-22.457	-27.504	37.913	0.004	0.000	-0.001
	9:DERX3	33.607	-8.885	-0.835	34.772	0.004	0.001	-0.000
	10:DERX4	-31.322	-15.735	-3.387	35.215	0.002	0.001	-0.001
	11:DERZ3	16.175	-9.539	22.004	28.927	0.004	0.002	-0.000
	12:DERZ4	-13.890	-15.081	-26.226	33.289	0.002	-0.000	-0.001
	5:DERX1	31.976	-8.927	-0.434	33.202	0.004	0.002	-0.003
	6:DERX2	-32.986	-15.995	-3.973	36.874	0.003	0.001	-0.004
	7:DERZ1	14.705	-8.630	22.429	28.174	0.005	0.003	-0.003
	8:DERZ2	-15.715	-16.292	-26.836	35.107	0.002	0.001	-0.004
	9:DERX3	32.213	-4.243	0.406	32.494	0.003	0.001	-0.002
	10:DERX4	-32.749	-11.311	-3.133	34.789	0.001	0.001	-0.003
347	11:DERZ3	14.942	-3.946	23.269	27.934	0.003	0.002	-0.002
	12:DERZ4	-15.478	-11.608	-25.996	32.405	0.001	-0.000	-0.003
	5:DERX1	30.184	-6.806	1.755	30.991	0.003	-0.000	0.003
	6:DERX2	-33.335	-7.063	0.316	34.077	0.002	-0.000	0.003
	7:DERZ1	11.176	-6.289	24.622	27.762	0.003	0.001	0.003
	8:DERZ2	-14.328	-7.579	-22.550	27.772	0.002	-0.001	0.002
	9:DERX3	30.840	-4.260	1.358	31.163	0.002	0.000	0.002
	10:DERX4	-32.679	-4.517	-0.080	32.989	0.001	-0.000	0.002
	11:DERZ3	11.833	-3.744	24.225	27.219	0.002	0.001	0.002
	12:DERZ4	-13.671	-5.033	-22.947	27.181	0.001	-0.001	0.001
	5:DERX1	32.637	-2.982	0.934	32.786	0.001	0.001	0.004
	6:DERX2	-31.559	-3.481	-0.812	31.760	0.000	0.000	0.001
348	7:DERZ1	5.853	-2.878	23.175	24.075	0.001	0.002	0.003
	8:DERZ2	-4.775	-3.584	-23.053	23.814	0.000	-0.000	0.002
	9:DERX3	32.486	-1.782	0.888	32.547	0.000	0.001	0.003
	10:DERX4	-31.709	-2.281	-0.859	31.803	0.000	0.000	0.000
	11:DERZ3	5.702	-1.678	23.128	23.880	0.000	0.001	0.002
	12:DERZ4	-4.925	-2.384	-23.100	23.739	0.000	-0.001	0.001
	5:DERX1	32.438	-3.135	0.984	32.604	-0.000	0.001	0.003
	6:DERX2	-31.602	-3.246	-0.687	31.775	-0.000	0.001	0.002
	7:DERZ1	8.624	-2.757	23.372	25.065	-0.000	0.002	0.003
	8:DERZ2	-7.788	-3.623	-23.076	24.623	-0.001	-0.000	0.002
	9:DERX3	32.342	-1.951	0.903	32.414	-0.000	0.001	0.002
	10:DERX4	-31.698	-2.061	-0.768	31.774	-0.000	0.000	0.001
349	11:DERZ3	8.528	-1.573	23.292	24.854	-0.000	0.001	0.002
	12:DERZ4	-7.884	-2.439	-23.156	24.583	-0.000	-0.000	0.001
	5:DERX1	32.333	-1.228	0.672	32.364	-0.000	0.001	0.003
	6:DERX2	-31.321	-1.578	-1.063	31.378	-0.000	0.000	0.002
	7:DERZ1	11.568	-1.121	23.064	25.827	-0.000	0.001	0.003
	8:DERZ2	-10.555	-1.685	-23.455	25.775	-0.000	-0.000	0.002
	9:DERX3	32.216	-0.715	0.720	32.232	-0.000	0.001	0.002
	10:DERX4	-31.438	-1.065	-1.014	31.472	-0.000	0.000	0.001
	11:DERZ3	11.450	-0.608	23.112	25.800	-0.000	0.001	0.002
	12:DERZ4	-10.672	-1.172	-23.406	25.751	-0.000	-0.001	0.001
	5:DERX1	32.047	-2.104	1.029	32.133	0.000	0.000	-0.001
	6:DERX2	-33.428	-2.245	-1.924	33.558	0.000	-0.000	-0.001
350	7:DERZ1	5.244	-1.254	26.569	27.110	0.001	0.001	-0.001
	8:DERZ2	-6.625	-3.095	-27.464	28.421	-0.000	-0.001	-0.001
	9:DERX3	32.357	-1.316	1.205	32.407	0.000	0.000	-0.001
	10:DERX4	-33.118	-1.456	-1.748	33.196	0.000	-0.000	-0.001
	11:DERZ3	5.554	-0.466	26.745	27.319	0.001	0.001	-0.000
	12:DERZ4	-6.315	-2.306	-27.288	28.104	-0.000	-0.001	-0.001
351	5:DERX1	32.047	-2.104	1.029	32.133	0.000	0.000	-0.001
	6:DERX2	-33.428	-2.245	-1.924	33.558	0.000	-0.000	-0.001
	7:DERZ1	5.244	-1.254	26.569	27.110	0.001	0.001	-0.001
	8:DERZ2	-6.625	-3.095	-27.464	28.421	-0.000	-0.001	-0.001
	9:DERX3	32.357	-1.316	1.205	32.407	0.000	0.000	-0.001
	10:DERX4	-33.118	-1.456	-1.748	33.196	0.000	-0.000	-0.001
	11:DERZ3	5.554	-0.466	26.745	27.319	0.001	0.001	-0.000
	12:DERZ4	-6.315	-2.306	-27.288	28.104	-0.000	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
352	5:DERX1	30.589	-2.290	1.082	30.694	-0.000	0.000	-0.001
	6:DERX2	-34.036	-2.685	-1.903	34.195	-0.000	-0.000	-0.002
	7:DERZ1	6.833	-0.591	26.838	27.701	-0.000	0.001	-0.001
	8:DERZ2	-10.280	-4.385	-27.658	29.831	-0.000	-0.001	-0.002
	9:DERX3	31.292	-1.388	1.241	31.348	-0.000	0.000	-0.000
	10:DERX4	-33.333	-1.783	-1.744	33.426	-0.000	-0.000	-0.002
	11:DERZ3	7.536	0.311	26.997	28.031	-0.000	0.001	-0.000
	12:DERZ4	-9.577	-3.483	-27.500	29.327	-0.000	-0.001	-0.001
353	5:DERX1	28.865	-0.975	1.456	28.918	-0.000	0.000	-0.000
	6:DERX2	-34.764	-1.589	-1.488	34.832	-0.000	-0.000	-0.003
	7:DERZ1	8.540	-0.651	26.822	28.157	0.001	0.001	-0.001
	8:DERZ2	-14.439	-1.913	-26.855	30.551	-0.001	-0.001	-0.002
	9:DERX3	30.025	-0.511	1.469	30.066	-0.000	0.000	0.000
	10:DERX4	-33.603	-1.125	-1.474	33.655	-0.000	-0.000	-0.003
	11:DERZ3	9.700	-0.187	26.836	28.536	0.001	0.001	-0.000
	12:DERZ4	-13.278	-1.449	-26.841	29.981	-0.001	-0.001	-0.002
354	5:DERX1	31.189	-6.579	1.225	31.899	0.001	-0.000	0.000
	6:DERX2	-32.927	-7.553	0.099	33.783	-0.000	-0.000	-0.000
	7:DERZ1	9.080	-6.549	24.827	27.235	0.000	0.001	0.000
	8:DERZ2	-10.818	-7.583	-23.503	26.962	0.000	-0.001	-0.000
	9:DERX3	31.575	-3.965	0.975	31.838	0.001	0.000	0.000
	10:DERX4	-32.542	-4.939	-0.151	32.915	-0.000	-0.000	-0.000
	11:DERZ3	9.466	-3.935	24.577	26.629	0.000	0.001	0.000
	12:DERZ4	-10.432	-4.969	-23.754	26.415	0.000	-0.001	-0.000
355	5:DERX1	30.682	-7.017	1.452	31.508	0.002	0.000	0.001
	6:DERX2	-33.145	-7.495	0.240	33.982	0.001	-0.000	0.001
	7:DERZ1	10.121	-6.641	24.681	27.490	0.001	0.001	0.001
	8:DERZ2	-12.583	-7.871	-22.988	27.363	0.001	-0.001	0.001
	9:DERX3	31.207	-4.344	1.130	31.528	0.001	0.000	0.001
	10:DERX4	-32.620	-4.822	-0.082	32.974	0.000	-0.000	0.000
	11:DERZ3	10.645	-3.968	24.359	26.878	0.001	0.001	0.001
	12:DERZ4	-12.059	-5.198	-23.310	26.754	0.000	-0.001	0.001
356	5:DERX1	33.232	-2.594	0.942	33.346	0.000	0.000	-0.001
	6:DERX2	-32.041	-4.659	-1.199	32.400	-0.001	-0.000	-0.002
	7:DERZ1	4.905	-3.326	25.968	26.636	-0.000	0.001	-0.001
	8:DERZ2	-3.714	-3.927	-26.225	26.777	-0.001	-0.001	-0.002
	9:DERX3	33.055	-1.258	0.996	33.093	0.000	0.000	-0.000
	10:DERX4	-32.218	-3.323	-1.145	32.409	-0.001	-0.000	-0.002
	11:DERZ3	4.728	-1.990	26.022	26.523	-0.000	0.001	-0.001
	12:DERZ4	-3.891	-2.591	-26.171	26.586	-0.000	-0.001	-0.001
357	5:DERX1	32.698	-3.924	0.954	32.947	0.000	-0.000	-0.001
	6:DERX2	-32.271	-6.041	-0.794	32.841	-0.001	-0.000	-0.002
	7:DERZ1	5.934	-4.667	25.610	26.700	-0.000	0.001	-0.001
	8:DERZ2	-5.507	-5.298	-25.450	26.573	-0.000	-0.001	-0.001
	9:DERX3	32.667	-2.076	0.928	32.747	0.000	0.000	-0.000
	10:DERX4	-32.302	-4.193	-0.821	32.583	-0.001	-0.000	-0.001
	11:DERZ3	5.903	-2.819	25.584	26.407	-0.000	0.001	-0.000
	12:DERZ4	-5.538	-3.450	-25.477	26.299	-0.000	-0.001	-0.001
358	5:DERX1	32.182	-4.995	0.988	32.582	0.000	-0.000	-0.000
	6:DERX2	-32.500	-6.856	-0.435	33.218	-0.001	-0.000	-0.001
	7:DERZ1	6.971	-5.601	25.294	26.829	-0.000	0.001	-0.001
	8:DERZ2	-7.290	-6.250	-24.741	26.539	-0.000	-0.001	-0.001
	9:DERX3	32.294	-2.794	0.886	32.427	0.000	0.000	-0.000
	10:DERX4	-32.388	-4.656	-0.537	32.725	-0.001	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
359	11:DERZ3	7.084	-3.401	25.193	26.390	0.000	0.001	-0.000
	12:DERZ4	-7.177	-4.049	-24.843	26.174	-0.000	-0.001	-0.001
	5:DERX1	31.491	-9.408	0.359	32.868	0.002	0.000	0.002
	6:DERX2	-32.571	-10.846	-0.644	34.335	0.001	-0.000	0.001
	7:DERZ1	11.843	-9.207	23.810	28.141	0.002	0.001	0.001
	8:DERZ2	-12.922	-11.047	-24.094	29.488	0.001	-0.001	0.001
	9:DERX3	31.767	-5.693	0.398	32.275	0.002	0.000	0.001
	10:DERX4	-32.295	-7.130	-0.605	33.078	0.001	-0.000	0.000
360	11:DERZ3	12.118	-5.491	23.848	27.309	0.002	0.001	0.001
	12:DERZ4	-12.646	-7.331	-24.056	28.149	0.001	-0.001	0.001
	5:DERX1	32.067	-8.245	0.155	33.110	0.002	0.001	-0.000
	6:DERX2	-32.900	-12.811	-2.077	35.368	0.001	0.000	-0.001
	7:DERZ1	12.147	-9.204	23.658	28.142	0.002	0.001	-0.001
	8:DERZ2	-12.980	-11.852	-25.580	31.037	0.001	-0.001	-0.001
	9:DERX3	32.301	-4.394	0.497	32.603	0.001	0.000	-0.000
	10:DERX4	-32.666	-8.960	-1.735	33.917	0.001	0.000	-0.001
361	11:DERZ3	12.381	-5.353	24.000	27.531	0.002	0.001	-0.000
	12:DERZ4	-12.746	-8.001	-25.238	29.384	0.000	-0.001	-0.001
	5:DERX1	30.661	-3.508	1.069	30.879	0.001	0.001	-0.002
	6:DERX2	-34.285	-8.084	-2.131	35.290	0.000	0.000	-0.003
	7:DERZ1	10.723	-4.654	25.057	27.650	0.002	0.002	-0.002
	8:DERZ2	-14.347	-6.938	-26.119	30.597	-0.000	-0.001	-0.003
	9:DERX3	31.407	-1.390	1.263	31.463	0.001	0.000	-0.001
	10:DERX4	-33.539	-5.967	-1.937	34.121	0.000	0.000	-0.002
362	11:DERZ3	11.469	-2.537	25.251	27.849	0.002	0.002	-0.001
	12:DERZ4	-13.601	-4.821	-25.925	29.670	-0.001	-0.001	-0.002
	5:DERX1	32.580	-4.039	1.033	32.845	0.000	0.001	0.004
	6:DERX2	-32.433	-5.939	-0.153	32.973	0.000	0.000	0.001
	7:DERZ1	3.713	-4.738	23.652	24.406	0.001	0.001	0.003
	8:DERZ2	-3.567	-5.240	-22.772	23.638	0.000	-0.000	0.002
	9:DERX3	32.594	-2.192	0.851	32.679	0.000	0.001	0.003
	10:DERX4	-32.418	-4.093	-0.334	32.677	0.000	-0.000	0.000
363	11:DERZ3	3.728	-2.891	23.471	23.941	0.000	0.001	0.002
	12:DERZ4	-3.552	-3.393	-22.954	23.473	0.000	-0.001	0.001
	5:DERX1	31.659	-7.515	2.401	32.627	-0.000	0.001	0.001
	6:DERX2	-34.643	-13.385	1.076	37.155	-0.001	0.000	0.001
	7:DERZ1	2.244	-9.833	25.706	27.613	-0.000	0.001	0.001
	8:DERZ2	-5.228	-11.067	-22.230	25.377	-0.000	-0.001	0.001
	9:DERX3	32.250	-3.660	1.753	32.504	-0.000	0.000	0.001
	10:DERX4	-34.052	-9.530	0.428	35.363	-0.001	-0.000	0.000
364	11:DERZ3	2.834	-5.978	25.058	25.916	-0.000	0.001	0.001
	12:DERZ4	-4.637	-7.212	-22.878	24.432	-0.000	-0.001	0.001
	5:DERX1	31.793	-7.273	2.423	32.704	-0.001	0.000	-0.001
	6:DERX2	-34.604	-13.066	0.610	36.994	-0.002	-0.000	-0.001
	7:DERZ1	2.350	-9.584	26.375	28.161	-0.001	0.001	-0.001
	8:DERZ2	-5.161	-10.755	-23.342	26.214	-0.001	-0.001	-0.001
	9:DERX3	32.352	-3.525	1.867	32.597	-0.000	0.000	-0.000
	10:DERX4	-34.045	-9.318	0.053	35.297	-0.001	-0.000	-0.001
365	11:DERZ3	2.909	-5.836	25.818	26.629	-0.001	0.001	-0.001
	12:DERZ4	-4.603	-7.007	-23.899	25.326	-0.001	-0.001	-0.001
	5:DERX1	32.958	-3.521	1.292	33.170	-0.000	-0.000	-0.002
	6:DERX2	-32.793	-6.750	-0.839	33.491	-0.001	-0.000	-0.003
	7:DERZ1	3.826	-4.817	26.105	26.820	-0.001	0.001	-0.002
	8:DERZ2	-3.661	-5.455	-25.652	26.480	-0.001	-0.001	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
366	9:DERX3	32.968	-1.631	1.216	33.031	-0.000	0.000	-0.001
	10:DERX4	-32.782	-4.860	-0.916	33.153	-0.001	-0.000	-0.002
	11:DERZ3	3.837	-2.926	26.028	26.472	-0.000	0.001	-0.001
	12:DERZ4	-3.650	-3.564	-25.728	26.229	-0.001	-0.001	-0.001
	5:DERX1	31.063	-4.517	1.224	31.413	0.002	0.000	0.003
	6:DERX2	-32.604	-4.837	-0.216	32.961	0.001	-0.000	0.002
	7:DERZ1	11.525	-4.214	23.967	26.926	0.001	0.001	0.003
	8:DERZ2	-13.066	-5.140	-22.960	26.913	0.001	-0.001	0.002
	9:DERX3	31.421	-2.803	1.021	31.562	0.001	0.000	0.002
	10:DERX4	-32.246	-3.124	-0.419	32.400	0.001	-0.000	0.002
	11:DERZ3	11.883	-2.501	23.765	26.687	0.001	0.001	0.002
	12:DERZ4	-12.708	-3.426	-23.162	26.641	0.001	-0.001	0.001
367	5:DERX1	33.513	-5.742	0.364	34.003	0.001	0.000	0.003
	6:DERX2	-31.017	-9.557	-0.930	32.469	0.001	-0.000	0.003
	7:DERZ1	2.640	-7.476	22.783	24.123	0.002	0.001	0.003
	8:DERZ2	-0.145	-7.822	-23.349	24.625	0.001	-0.001	0.003
	9:DERX3	33.079	-2.973	0.448	33.215	0.001	0.000	0.002
	10:DERX4	-31.451	-6.788	-0.846	32.186	0.001	-0.000	0.002
	11:DERZ3	2.206	-4.708	22.867	23.451	0.001	0.001	0.002
	12:DERZ4	-0.579	-5.054	-23.265	23.814	0.000	-0.001	0.002
	5:DERX1	33.419	-11.633	0.255	35.387	0.002	0.000	0.002
	6:DERX2	-30.990	-14.046	-0.751	34.033	0.002	-0.000	0.001
	7:DERZ1	2.590	-12.621	23.170	26.511	0.002	0.001	0.001
	8:DERZ2	-0.162	-13.058	-23.665	27.029	0.002	-0.001	0.001
368	9:DERX3	32.997	-7.038	0.336	33.741	0.001	0.000	0.002
	10:DERX4	-31.412	-9.450	-0.670	32.809	0.001	-0.000	0.000
	11:DERZ3	2.169	-8.025	23.250	24.692	0.001	0.001	0.001
	12:DERZ4	-0.583	-8.463	-23.584	25.063	0.001	-0.001	0.001
	5:DERX1	33.327	-12.119	0.455	35.465	0.002	0.000	-0.001
	6:DERX2	-30.944	-13.419	-0.937	33.742	0.002	-0.000	-0.002
	7:DERZ1	2.555	-12.626	23.669	26.948	0.002	0.001	-0.001
	8:DERZ2	-0.172	-12.911	-24.151	27.386	0.002	-0.001	-0.001
	9:DERX3	32.914	-7.574	0.542	33.778	0.001	0.000	-0.000
	10:DERX4	-31.358	-8.874	-0.849	32.600	0.001	-0.000	-0.002
	11:DERZ3	2.141	-8.081	23.757	25.185	0.001	0.001	-0.001
	12:DERZ4	-0.585	-8.366	-24.064	25.484	0.001	-0.001	-0.001
369	5:DERX1	33.224	-5.740	0.798	33.725	0.001	0.000	-0.003
	6:DERX2	-30.889	-9.470	-1.316	32.335	0.001	-0.000	-0.003
	7:DERZ1	2.521	-7.576	24.274	25.553	0.002	0.001	-0.003
	8:DERZ2	-0.187	-7.633	-24.792	25.941	0.001	-0.001	-0.003
	9:DERX3	32.819	-3.046	0.901	32.972	0.001	0.000	-0.002
	10:DERX4	-31.294	-6.777	-1.213	32.043	0.001	-0.000	-0.002
	11:DERZ3	2.116	-4.883	24.377	24.951	0.001	0.001	-0.002
	12:DERZ4	-0.592	-4.940	-24.689	25.185	0.001	-0.001	-0.002
	5:DERX1	33.063	-1.172	1.153	33.104	0.000	0.000	-0.000
	6:DERX2	-30.814	-2.466	-1.760	30.963	0.000	-0.000	-0.003
	7:DERZ1	2.474	-1.704	24.970	25.150	0.000	0.001	-0.001
	8:DERZ2	-0.225	-1.933	-25.577	25.651	0.000	-0.001	-0.002
370	9:DERX3	32.673	-0.528	1.281	32.703	0.000	0.000	0.000
	10:DERX4	-31.204	-1.822	-1.631	31.300	0.000	-0.000	-0.002
	11:DERZ3	2.084	-1.060	25.098	25.207	0.000	0.001	-0.001
	12:DERZ4	-0.615	-1.289	-25.448	25.488	-0.000	-0.001	-0.001
	5:DERX1	7.377	0.522	0.267	7.401	0.000	0.000	0.001
	6:DERX2	-7.164	-1.746	-0.399	7.385	-0.000	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X	Y	Z	Resultant	rX	rY	rZ
		(mm)	(mm)	(mm)	(mm)	(rad)	(rad)	(rad)
379	7:DERZ1	0.888	-0.523	6.260	6.345	0.000	0.000	-0.000
	8:DERZ2	-0.675	-0.701	-6.392	6.466	-0.000	-0.000	-0.000
	9:DERX3	7.331	0.741	0.291	7.374	0.000	0.000	0.001
	10:DERX4	-7.211	-1.527	-0.375	7.380	-0.000	-0.000	-0.002
	11:DERZ3	0.841	-0.304	6.284	6.348	0.000	0.000	0.000
	12:DERZ4	-0.722	-0.482	-6.368	6.427	-0.000	-0.000	-0.000
	5:DERX1	7.567	0.551	0.276	7.593	-0.000	0.000	0.000
	6:DERX2	-7.280	-1.808	-0.399	7.512	-0.000	-0.000	-0.002
	7:DERZ1	0.489	-0.583	6.252	6.298	0.000	0.000	-0.000
	8:DERZ2	-0.202	-0.673	-6.375	6.414	-0.000	-0.000	-0.000
	9:DERX3	7.501	0.781	0.299	7.547	-0.000	0.000	0.001
	10:DERX4	-7.347	-1.579	-0.377	7.524	-0.000	-0.000	-0.002
380	11:DERZ3	0.423	-0.354	6.274	6.299	0.000	0.000	-0.000
	12:DERZ4	-0.268	-0.444	-6.353	6.374	-0.000	-0.000	-0.000
	5:DERX1	19.638	0.426	0.767	19.658	-0.000	0.000	0.002
	6:DERX2	-18.819	-2.513	-1.176	19.023	-0.000	-0.000	-0.002
	7:DERZ1	1.317	-0.984	16.209	16.292	0.000	0.001	-0.000
	8:DERZ2	-0.498	-1.103	-16.618	16.662	-0.001	-0.001	-0.000
	9:DERX3	19.476	0.811	0.852	19.512	0.000	0.000	0.002
	10:DERX4	-18.981	-2.128	-1.092	19.131	-0.000	-0.000	-0.002
	11:DERZ3	1.155	-0.599	16.293	16.345	0.000	0.001	-0.000
	12:DERZ4	-0.660	-0.718	-16.533	16.562	-0.000	-0.001	-0.000
	5:DERX1	7.504	0.497	0.272	7.525	0.000	0.000	0.001
	6:DERX2	-7.251	-1.837	-0.399	7.490	-0.000	-0.000	-0.002
381	7:DERZ1	0.380	-0.641	6.258	6.302	0.000	0.000	-0.000
	8:DERZ2	-0.127	-0.699	-6.385	6.424	-0.000	-0.000	-0.000
	9:DERX3	7.446	0.725	0.295	7.487	0.000	0.000	0.001
	10:DERX4	-7.308	-1.609	-0.376	7.492	-0.000	-0.000	-0.002
	11:DERZ3	0.323	-0.413	6.281	6.303	0.000	0.000	-0.000
	12:DERZ4	-0.185	-0.471	-6.362	6.382	-0.000	-0.000	-0.000
	5:DERX1	19.256	0.361	0.769	19.275	0.000	0.000	0.002
	6:DERX2	-18.481	-2.344	-1.223	18.669	0.000	-0.000	-0.002
	7:DERZ1	0.977	-0.946	16.186	16.243	0.000	0.001	-0.000
	8:DERZ2	-0.202	-1.037	-16.641	16.674	-0.000	-0.001	-0.000
	9:DERX3	19.110	0.668	0.862	19.141	0.000	0.000	0.002
	10:DERX4	-18.628	-2.037	-1.129	18.773	0.000	-0.000	-0.002
382	11:DERZ3	0.830	-0.639	16.280	16.314	0.000	0.001	-0.000
	12:DERZ4	-0.348	-0.730	-16.547	16.567	-0.000	-0.001	-0.000
	5:DERX1	18.917	0.358	0.770	18.936	0.000	0.000	0.002
	6:DERX2	-18.236	-2.457	-1.266	18.445	0.000	-0.000	-0.002
	7:DERZ1	2.232	-0.949	16.166	16.347	0.000	0.000	0.000
	8:DERZ2	-1.551	-1.150	-16.662	16.774	-0.000	-0.001	-0.000
	9:DERX3	18.796	0.736	0.872	18.831	0.000	0.000	0.002
	10:DERX4	-18.357	-2.079	-1.164	18.511	0.000	-0.000	-0.002
	11:DERZ3	2.111	-0.571	16.268	16.414	0.000	0.000	0.000
	12:DERZ4	-1.672	-0.772	-16.560	16.662	-0.000	-0.001	-0.000

JARDIN CAMPO VERDE

VERIFICACION DE DERIVAS MAXIMAS NSR-10

EJE: A-10

COMBO DERX_1

COMBO DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	32.862	12.569	0.281%	26.106	9.667	0.216%
N+10.88	109	10.88	30.826	10.533	0.293%	25.045	8.606	0.239%
N+7.28	45	7.28	20.293	12.212	0.339%	16.439	10.251	0.285%
N+3.68	28	3.68	8.081	8.081	0.224%	6.188	6.188	0.172%
N+0.08	11	0.08	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	-33.9003	-14.1473	0.316%	-27.505	-10.906	0.244%
N+10.88	109	10.88	-33.583032	-13.830032	0.384%	-26.025	-9.426	0.262%
N+7.28	45	7.28	-19.753	-12.139	0.337%	-16.599	-10.254	0.285%
N+3.68	28	3.68	-7.614	-7.614	0.212%	-6.345	-6.345	0.176%
N+0.08	11	0.08	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	33.746	13.591	0.304%	26.391	9.917	0.222%
N+10.88	109	10.88	31.784	11.629	0.323%	25.24	8.766	0.244%
N+7.28	45	7.28	20.155	12.185	0.338%	16.474	10.251	0.285%
N+3.68	28	3.68	7.97	7.97	0.221%	6.223	6.223	0.173%
N+0.08	11	0.08	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	124	11.75	-36.783	-16.892	0.378%	-27.22	-10.656	0.238%
N+10.88	109	10.88	-33.35925	-13.46825	0.374%	-25.83	-9.266	0.257%
N+7.28	45	7.28	-19.891	-12.166	0.338%	-16.564	-10.254	0.285%
N+3.68	28	3.68	-7.725	-7.725	0.215%	-6.31	-6.31	0.175%
N+0.08	11	0.08	0			0		

EJE: C-10
COMBO DERX_1

COMBO DERZ_1								
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	35.582	15.244	0.238%	22.872	7.704	0.120%
N+10.88	110	10.88	31.905	11.567	0.321%	22.21	7.042	0.196%
N+7.28	46	7.28	20.338	12.253	0.340%	15.168	9.295	0.258%
N+3.68	88	3.68	8.085	8.085	0.225%	5.873	5.873	0.163%
N+0.08	80	0.08	0			0		

COMBO DERX_2

COMBO DERZ_2								
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	-34.919	-15.317	0.239%	-23.867	-8.54	0.133%
N+10.88	110	10.88	-28.414	-8.812	0.245%	-22.482	-7.155	0.199%
N+7.28	46	7.28	-19.602	-11.955	0.332%	-15.327	-9.452	0.263%
N+3.68	88	3.68	-7.647	-7.647	0.212%	-5.875	-5.875	0.163%
N+0.08	80	0.08	0			0		

COMBO DERX_3

COMBO DERZ_3								
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	35.451	15.288	0.239%	23.024	7.855	0.123%
N+10.88	110	10.88	31.252	11.089	0.308%	22.223	7.054	0.196%
N+7.28	46	7.28	20.163	12.186	0.339%	15.169	9.306	0.259%
N+3.68	88	3.68	7.977	7.977	0.222%	5.863	5.863	0.163%
N+0.08	80	0.08	0			0		

COMBO DERX_4

COMBO DERZ_4								
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	115	13.68	-35.05	-15.274	0.239%	-23.715	-8.388	0.131%
N+10.88	110	10.88	-29.067	-9.291	0.258%	-22.469	-7.142	0.198%
N+7.28	46	7.28	-19.776	-12.022	0.334%	-15.327	-9.441	0.262%
N+3.68	88	3.68	-7.754	-7.754	0.215%	-5.886	-5.886	0.164%
N+0.08	80	0.08	0			0		

EJE: A-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	28.572	11.501	0.271%	26.587	10.416	0.246%
N+10.88	111	10.88	26.432	9.361	0.260%	25.316	9.145	0.254%
N+7.28	51	7.28	17.071	9.847	0.274%	16.171	9.865	0.274%
N+3.68	34	3.68	7.224	7.224	0.201%	6.306	6.306	0.175%
N+0.08	17	0.08	0			0		

COMBO DERX_2

COMBO DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	-33.10655	-15.96055	0.376%	-26.589	-9.67	0.228%
N+10.88	111	10.88	-31.2430338	-14.0970338	0.392%	-25.765	-8.846	0.246%
N+7.28	51	7.28	-17.146	-10.025	0.278%	-16.919	-10.474	0.291%
N+3.68	34	3.68	-7.121	-7.121	0.198%	-6.445	-6.445	0.179%
N+0.08	17	0.08	0			0		

COMBO DERZ_2

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	29.802	12.684	0.299%	26.597	10.271	0.242%
N+10.88	111	10.88	27.881	10.763	0.299%	25.419	9.093	0.253%
N+7.28	51	7.28	17.118	9.908	0.275%	16.326	9.996	0.278%
N+3.68	34	3.68	7.21	7.21	0.200%	6.33	6.33	0.176%
N+0.08	17	0.08	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	122	11.52	-33.619	-16.52	0.390%	-26.579	-9.815	0.231%
N+10.88	111	10.88	-30.8617	-13.7627	0.382%	-25.663	-8.899	0.247%
N+7.28	51	7.28	-17.099	-9.964	0.277%	-16.764	-10.343	0.287%
N+3.68	34	3.68	-7.135	-7.135	0.198%	-6.421	-6.421	0.178%
N+0.08	17	0.08	0			0		

EJE: C-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	31.858	14.756	0.230%	23.207	7.977	0.124%
N+10.88	112	10.88	28.836	11.734	0.326%	22.129	6.899	0.192%
N+7.28	93	7.28	17.102	9.875	0.274%	15.23	9.312	0.259%
N+3.68	85	3.68	7.227	7.227	0.201%	5.918	5.918	0.164%
N+0.08	77	0.08	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	-31.588	-14.544	0.227%	-23.368	-8.078	0.126%
N+10.88	112	10.88	-24.513	-7.469	0.207%	-23.068	-7.778	0.216%
N+7.28	93	7.28	-17.044	-9.908	0.275%	-15.29	-9.44	0.262%
N+3.68	85	3.68	-7.136	-7.136	0.198%	-5.85	-5.85	0.163%
N+0.08	77	0.08	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	31.882	14.756	0.230%	23.214	7.995	0.125%
N+10.88	112	10.88	28.142	11.016	0.306%	22.28	7.061	0.196%
N+7.28	93	7.28	17.126	9.912	0.275%	15.219	9.332	0.259%
N+3.68	85	3.68	7.214	7.214	0.200%	5.887	5.887	0.164%
N+0.08	77	0.08	0			0		

COMBO DERX_4

COMBO DERZ_4

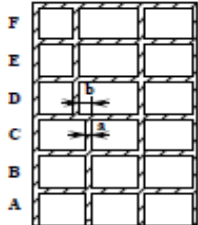
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	118	13.69	-31.564	-14.543	0.227%	-23.361	-8.06	0.126%
N+10.88	112	10.88	-25.207	-8.186	0.227%	-22.918	-7.617	0.212%
N+7.28	93	7.28	-17.021	-9.872	0.274%	-15.301	-9.421	0.262%
N+3.68	85	3.68	-7.149	-7.149	0.199%	-5.88	-5.88	0.163%
N+0.08	77	0.08	0			0		

CHEQUEO DE IRREGULARIDAD EN ALTURA
TABLA A.3-6 de NSR-10

PROYECTO: 181_JARDIN CAMPO VERDE MODULA A

CALCULÓ: JDH

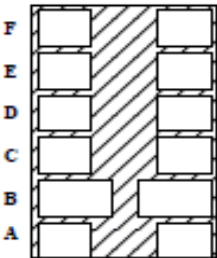
1. TIPO 4A-DESPLAZAMIENTO DENTRO DEL PLANO DE ACCIÓN



HAY TIPO 4A? NO

$\phi a= 1.00$

2. TIPO 5aA-PISO DEBIL Y PISO DEBIL EXTREMO



HAY PISO DEBIL? NO

EXTREMO NO

$\phi a= 1.00$

FACTOR DE REDUCCIÓN EN PLANTA

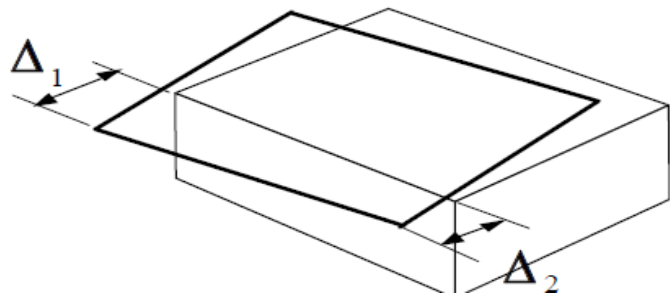
$\phi a= 1.00$

CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10

PROYECTO: 181_Jardin Campo verde Modulo A

CALCULÓ: JDH

1. TIPO 1P-IRREGULARIDAD TORSIONAL TIPO 1P

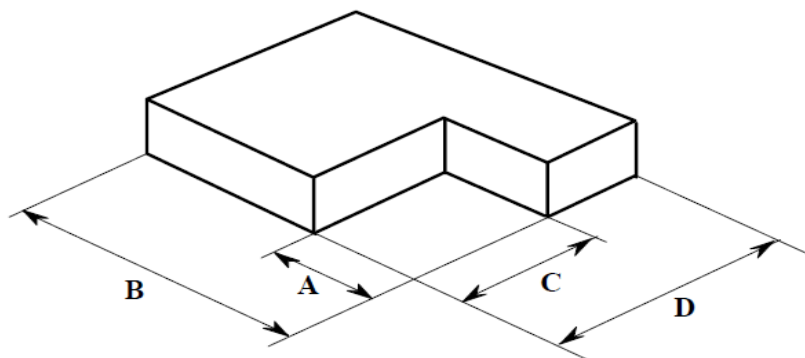


Según análisis de derivas

En X? NO Extrema? NO
En Z? NO Extrema? NO

$\phi_{px}= 1.00$ $\phi_{pz}= 1.00$

2. TIPO 2P-RETROCESOS EN LAS ESQUINAS



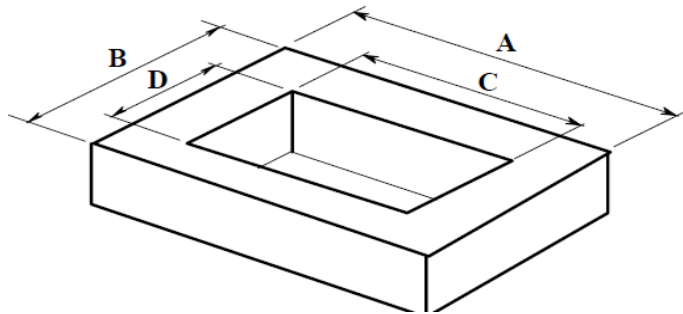
A= 0.00 m
B= 28.20 m
C= 0.00 m
D= 14.45 m

A > 0.15B? NO
Y

C > 0.15D? NO

$\phi_p= 1$

3. TIPO 3P-IRREGULARIDAD DEL DIAFRAGAMA



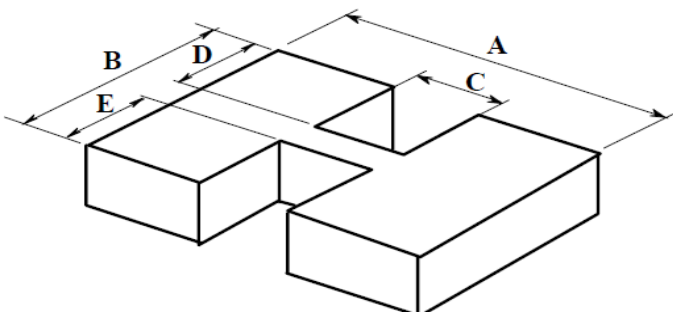
A= 28.20 m
B= 14.45 m
C= 0.00 m
D= 0.00 m
E= 0.00 m

Caso 1 C x D > 0.5 A x B? NO
O

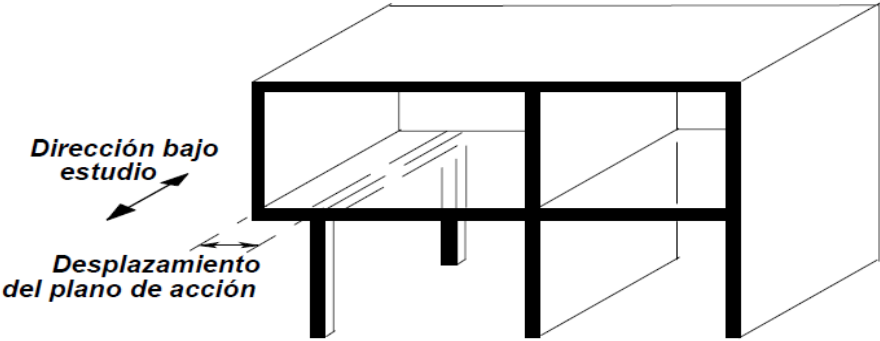
Caso 2 (C x D + C x E) > 0.5 A x B?

Caso 1

$\phi_p= 1.0$



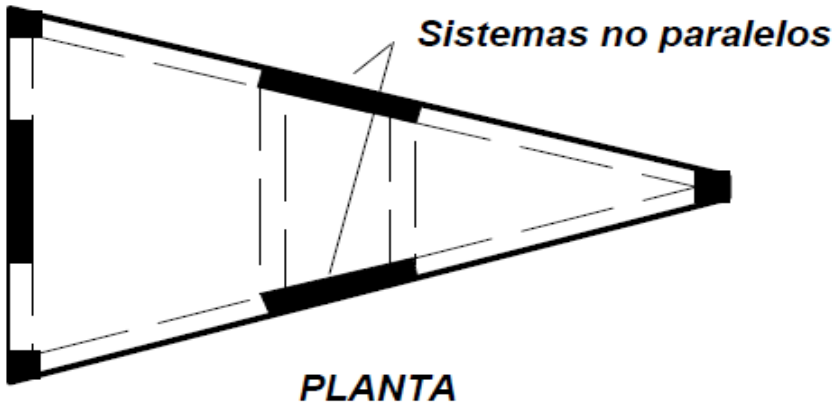
CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10
4. TIPO 4P-DESPLAZAMIENTO DE LOS PLANOS DE ACCIÓN



En X? NO
En Z? NO

$\phi_{px}= 1.00$
$\phi_{pz}= 1.00$

5. TIPO 5P-SISTEMAS NO PARALELOS



Sistemas no paralelos? NO

$\phi_p= 1.00$

FACTOR DE REDUCCIÓN EN PLANTA

$\phi_{px}= 1.00$
$\phi_{pz}= 1.00$

JARDIN CAMPO VERDE
VERIFICACION DE IRREGULARIDAD TORSIONAL NSR-10

COMBO		DERX_1	COMBO		DERZ_1			
		EJE: A-10				EJE: C-10		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+10.88	109	74.498	65.627	110	73.299	58.547	Regular	Regular
N+7.28	45	52.586	46.802	46	52.594	43.679	Regular	Regular
N+3.68	28	27.539	23.433	88	27.539	22.343	Regular	Regular
N+0.08	11	0	0	80	0	0	Regular	Regular

COMBO		DERX_2	COMBO		DERZ_2			
		EJE: A-10				EJE: C-10		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+10.88	109	-78.262	-72.242	110	-67.929	-63.836	Regular	Regular
N+7.28	45	-50.492	-52.176	46	-50.297	-48.46	Regular	Regular
N+3.68	28	-25.92	-27.189	88	-25.96	-25.452	Regular	Regular
N+0.08	11	0	0	80	0	0	Regular	Regular

COMBO		DERX_3	COMBO		DERZ_3			
		EJE: A-10				EJE: C-10		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+10.88	109	75.137	67.02	110	72.258	59.633	Regular	Regular
N+7.28	45	52.127	47.946	46	52.097	44.673	Regular	Regular
N+3.68	28	27.196	24.237	88	27.204	23.001	Regular	Regular
N+0.08	11	0	0	80	0	0	Regular	Regular

COMBO		DERX_4	COMBO		DERZ_4			
		EJE: A-10				EJE: C-10		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+10.88	109	-77.623	-70.849	110	-68.97	-62.749	Regular	Regular
N+7.28	45	-50.951	-51.031	46	-50.794	-47.465	Regular	Regular
N+3.68	28	-26.263	-26.385	88	-26.296	-24.794	Regular	Regular
N+0.08	11	0	0	80	0	0	Regular	Regular

COMBO

DERX_1

COMBO

DERZ_1

EJE:		A-1		EJE:		C-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ	
N+10.88	111	53.466	65.866	112	54.043	58.703	Regular	Regular	
N+7.28	51	36.154	46.503	93	36.171	43.826	Regular	Regular	
N+3.68	34	18.903	23.397	85	18.884	22.222	Regular	Regular	
N+0.08	17	0	0	77	0	0	Regular	Regular	

COMBO

DERX_2

COMBO

DERZ_2

EJE:		A-1		EJE:		C-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ	
N+10.88	111	-60.93	-71.922	112	-49.217	-64.663	Regular	Regular	
N+7.28	51	-35.943	-52.405	93	-35.818	-48.413	Regular	Regular	
N+3.68	34	-18.647	-27.092	85	-18.682	-25.332	Regular	Regular	
N+0.08	17	0	0	77	0	0	Regular	Regular	

COMBO

DERX_3

COMBO

DERZ_3

EJE:		A-1		EJE:		C-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ	
N+10.88	111	54.882	67.166	112	53.24	59.93	Regular	Regular	
N+7.28	51	36.136	47.757	93	36.126	44.787	Regular	Regular	
N+3.68	34	18.863	24.184	85	18.855	22.883	Regular	Regular	
N+0.08	17	0	0	77	0	0	Regular	Regular	

COMBO

DERX_4

COMBO

DERZ_4

EJE:		A-1		EJE:		C-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ	
N+10.88	111	-59.515	-70.623	112	-50.02	-63.436	Regular	Regular	
N+7.28	51	-35.962	-51.151	93	-35.862	-47.453	Regular	Regular	
N+3.68	34	-18.687	-26.305	85	-18.71	-24.671	Regular	Regular	
N+0.08	17	0	0	77	0	0	Regular	Regular	

ANÁLISIS AUSENCIA DE REDUNDANCIA

Proyecto: JARDIN INFANTIL CAMPO VERDE

CALCULÓ: CNI

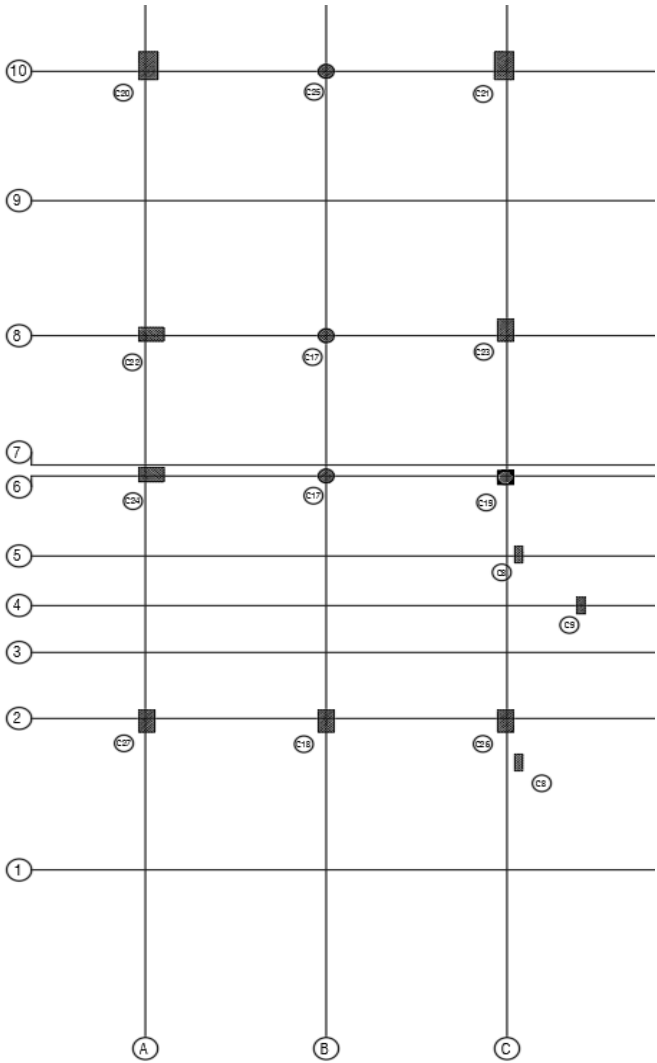
f'c = 28 MPa
Ec = 24870 MPa

$$K_{piso} = \frac{1}{\frac{h^3}{3E_cI} + \frac{1.2h}{0.4E_cA_m}}$$

ZONA: MODULO A

Se compara la rigidez obtenida al eliminar una pantalla o columna con la rigidez total del piso, esta perdida se expresa en porcentaje, si es mayor al 33% se debe considerar el factor de ausencia de redundancia $\phi_r=0.75$.

PISO: 1 A CUB
ALTURA h (m) 3.60



Elemento	A _c (m ²)	I _x (m ⁴)	I _z (m ⁴)	A _m (m ²)	0.4E _c A _m	I _{totalX} (m ⁴)	3E _c I _x	K _{pisoX}	Perdida K _{pisoX}	I _{totalZ} (m ⁴)	3E _c I _z	K _{pisoZ}	Perdida K _{pisoZ}
A2	0.400	0.0213	0.0083	3.985	3.965E+07	0.16	1.171E+07	2.443E+05	0%	0.10	7.829E+06	1.648E+05	0%
A6	0.400	0.0083	0.0213	3.585	3.567E+07	0.14	1.012E+07	2.113E+05	14%	0.10	7.208E+06	1.516E+05	8%
A8	0.400	0.0083	0.0213	3.585	3.567E+07	0.15	1.109E+07	2.310E+05	5%	0.08	6.238E+06	1.316E+05	20%
A10	0.400	0.0213	0.0083	3.585	3.567E+07	0.14	1.012E+07	2.113E+05	14%	0.10	7.208E+06	1.516E+05	8%
B2	0.400	0.0213	0.0083	3.585	3.567E+07	0.14	1.012E+07	2.113E+05	14%	0.10	7.208E+06	1.516E+05	8%
B6	0.1963	0.0031	0.0031	3.789	3.769E+07	0.15	1.148E+07	2.393E+05	2%	0.10	7.601E+06	1.599E+05	3%
B8	0.1963	0.0031	0.0031	3.789	3.769E+07	0.15	1.148E+07	2.393E+05	2%	0.10	7.601E+06	1.599E+05	3%
B10	0.1963	0.0031	0.0031	3.789	3.769E+07	0.15	1.148E+07	2.393E+05	2%	0.10	7.601E+06	1.599E+05	3%
C2	0.400	0.0213	0.0083	3.585	3.567E+07	0.14	1.012E+07	2.113E+05	14%	0.10	7.208E+06	1.516E+05	8%
C6	0.1963	0.0031	0.0031	3.789	3.769E+07	0.15	1.148E+07	2.393E+05	2%	0.10	7.601E+06	1.599E+05	3%
C8	0.400	0.0213	0.0083	3.585	3.567E+07	0.14	1.012E+07	2.113E+05	14%	0.10	7.208E+06	1.516E+05	8%
C10	0.400	0.0213	0.0083	3.585	3.567E+07	0.14	1.012E+07	2.113E+05	14%	0.10	7.208E+06	1.516E+05	8%



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Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
4	5	+ve	0.052	0.000	0.333	36.313	0.101	11.233
			19:COM7	-	15:COM3	23:COM1'	23:COM1'	15:COM3
			-0.023	-84.165	-0.200	-94.278	-0.173	-3.830
			29:COM1'	17:COM5	25:COM1'	17:COM5	17:COM5	25:COM1'
	229	-ve	0.052	0.000	0.333	36.313	0.490	249.942
			19:COM7	-	15:COM3	23:COM1'	15:COM3	14:COM2
			-0.023	-160.070	-0.200	-94.278	-0.297	0.000
			29:COM1'	17:COM5	25:COM1'	17:COM5	25:COM1'	-
5	7	+ve	0.297	0.000	0.013	13.726	0.108	0.000
			23:COM1'	-	23:COM1'	23:COM1'	15:COM3	-
			-0.458	-155.620	-0.023	-11.269	-0.066	-30.814
			17:COM5	14:COM2	17:COM5	17:COM5	25:COM1'	14:COM2
	231	-ve	0.297	0.000	0.013	13.726	0.073	207.784
			23:COM1'	-	23:COM1'	23:COM1'	15:COM3	14:COM2
			-0.458	-168.123	-0.023	-11.269	-0.048	0.000
			17:COM5	14:COM2	17:COM5	17:COM5	25:COM1'	-
6	9	+ve	0.441	0.000	0.867	37.174	0.133	0.000
			23:COM1'	-	15:COM3	23:COM1'	23:COM1'	-
			-0.696	-152.439	-0.551	-19.040	-0.208	-39.090
			17:COM5	17:COM5	25:COM1'	17:COM5	17:COM5	17:COM5
	232	-ve	0.441	0.000	0.867	37.174	0.620	112.665
			23:COM1'	-	15:COM3	23:COM1'	15:COM3	19:COM7
			-0.696	-160.543	-0.551	-19.040	-0.394	0.000
			17:COM5	17:COM5	25:COM1'	17:COM5	25:COM1'	-
7	11	+ve	0.000	128.135	0.286	9.849	0.524	231.945
			-	15:COM3	15:COM3	27:COM1'	23:COM1'	15:COM3
			0.000	-17.204	-0.176	-5.062	-0.854	-184.982
			-	25:COM1'	25:COM1'	21:COM9	17:COM5	25:COM1'
	76	-ve	0.000	1.972	0.286	9.849	0.807	217.699
			-	23:COM1'	15:COM3	27:COM1'	15:COM3	15:COM3
			0.000	-153.872	-0.176	-5.062	-0.497	-51.929
			-	17:COM5	25:COM1'	21:COM9	25:COM1'	25:COM1'
8	13	+ve	0.000	125.365	0.138	8.942	0.254	222.745
			-	15:COM3	15:COM3	19:COM7	23:COM1'	15:COM3
			0.000	-7.850	-0.085	-2.063	-0.410	-148.840
			-	25:COM1'	25:COM1'	29:COM1'	17:COM5	25:COM1'
	75	-ve	0.000	0.000	0.138	8.942	0.391	196.419
			-	-	15:COM3	19:COM7	15:COM3	15:COM3
			0.000	-142.741	-0.085	-2.063	-0.241	-41.890
			-	17:COM5	25:COM1'	29:COM1'	25:COM1'	25:COM1'
9	15	+ve	0.000	122.872	0.104	2.148	0.207	214.989
			-	15:COM3	15:COM3	27:COM1'	23:COM1'	15:COM3
			0.000	-5.543	-0.068	-10.828	-0.317	-136.632
			-	25:COM1'	25:COM1'	21:COM9	17:COM5	25:COM1'
	74	-ve	0.000	0.000	0.104	2.148	0.289	198.481
			-	-	15:COM3	27:COM1'	15:COM3	15:COM3
			0.000	-140.987	-0.068	-10.828	-0.187	-38.417
			-	17:COM5	25:COM1'	21:COM9	25:COM1'	25:COM1'



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9	15	+ve	0.000	122.872	0.104	2.148	0.207	214.989
			-	15:COM3	15:COM3	27:COM1	23:COM1	15:COM3
			0.000	-5.543	-0.068	-10.828	-0.317	-136.632
			-	25:COM1	25:COM1	21:COM9	17:COM5	25:COM1
	74	-ve	0.000	0.000	0.104	2.148	0.289	198.481
			-	-	15:COM3	27:COM1	15:COM3	15:COM3
			0.000	-140.987	-0.068	-10.828	-0.187	-38.417
			-	17:COM5	25:COM1	21:COM9	25:COM1	25:COM1
10	17	+ve	0.000	121.831	0.167	0.364	0.304	184.539
			-	15:COM3	15:COM3	15:COM3	23:COM1	15:COM3
			0.000	-8.337	-0.104	-4.319	-0.489	-122.197
			-	25:COM1	25:COM1	25:COM1	17:COM5	25:COM1
	73	-ve	0.000	0.000	0.167	0.364	0.480	231.282
			-	-	15:COM3	15:COM3	15:COM3	15:COM3
			0.000	-145.324	-0.104	-4.319	-0.299	-64.994
			-	17:COM5	25:COM1	25:COM1	25:COM1	25:COM1
11	19	+ve	0.167	7.760	0.229	12.821	0.037	58.524
			23:COM1	23:COM1	15:COM3	15:COM3	23:COM1	15:COM3
			-0.270	-20.197	-0.143	0.000	-0.059	0.000
			17:COM5	17:COM5	25:COM1	-	17:COM5	-
	230	-ve	0.167	5.875	0.229	12.821	0.111	60.859
			23:COM1	23:COM1	15:COM3	15:COM3	15:COM3	14:COM2
			-0.270	-22.710	-0.143	0.000	-0.070	0.000
			17:COM5	17:COM5	25:COM1	-	25:COM1	-
12	5	+ve	0.434	84.164	0.005	11.647	0.021	93.867
			15:COM3	15:COM3	23:COM1	14:COM2	15:COM3	15:COM3
			-0.256	0.000	-0.008	0.000	-0.013	-36.792
			25:COM1	-	17:COM5	-	25:COM1	25:COM1
	7	-ve	0.434	0.000	0.005	11.647	0.014	47.284
			15:COM3	-	23:COM1	14:COM2	23:COM1	19:COM7
			-0.256	-81.379	-0.008	0.000	-0.023	-1.855
			25:COM1	17:COM5	17:COM5	-	17:COM5	29:COM1
13	6	+ve	0.188	67.580	0.003	0.000	0.005	70.212
			23:COM1	14:COM2	15:COM3	-	23:COM1	15:COM3
			-0.313	0.000	-0.002	-2.288	-0.009	-9.207
			17:COM5	-	25:COM1	17:COM5	17:COM5	25:COM1
	8	-ve	0.188	0.000	0.003	0.000	0.009	71.357
			23:COM1	-	15:COM3	-	15:COM3	15:COM3
			-0.313	-75.866	-0.002	-2.288	-0.006	0.000
			17:COM5	14:COM2	25:COM1	17:COM5	25:COM1	-
15	22	+ve	4.515	0.000	1.161	7.556	0.547	2.049
			15:COM3	-	15:COM3	23:COM1	27:COM1	23:COM1
			-3.735	-65.583	-0.899	-78.564	-1.869	-3.798
			25:COM1	17:COM5	25:COM1	17:COM5	21:COM9	17:COM5
	384	-ve	4.515	0.000	1.161	7.556	0.979	146.542
			15:COM3	-	15:COM3	23:COM1	23:COM1	15:COM3
			-3.735	-85.301	-0.899	-78.564	-1.779	0.000
			25:COM1	17:COM5	25:COM1	17:COM5	17:COM5	-



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16	24	+ve	2.888	0.000	1.920	15.114	0.595	0.000
			19:COM7	-	15:COM3	15:COM3	23:COM1'	-
			-3.375	-82.951	-1.103	-10.580	-1.330	-8.317
			29:COM1'	21:COM9	25:COM1'	25:COM1'	17:COM5	17:COM5
	386	-ve	2.888	0.000	1.920	15.114	1.526	124.932
			19:COM7	-	15:COM3	15:COM3	15:COM3	19:COM7
			-3.375	-95.458	-1.103	-10.580	-1.057	0.000
			29:COM1'	21:COM9	25:COM1'	25:COM1'	25:COM1'	-
17	26	+ve	6.064	0.000	1.621	72.224	1.526	0.000
			27:COM1'	-	23:COM1'	15:COM3	15:COM3	-
			-3.493	-143.921	-2.753	-1.252	-0.072	-2.731
			21:COM9	17:COM5	17:COM5	25:COM1'	25:COM1'	21:COM9
	387	-ve	6.064	0.000	1.621	72.224	1.596	147.586
			27:COM1'	-	23:COM1'	15:COM3	15:COM3	15:COM3
			-3.493	-169.025	-2.753	-1.252	-1.225	0.000
			21:COM9	17:COM5	17:COM5	25:COM1'	25:COM1'	-
18	28	+ve	40.410	191.484	0.646	20.002	0.446	464.840
			15:COM3	15:COM3	19:COM7	19:COM7	27:COM1'	15:COM3
			0.000	-65.907	-0.133	-18.580	-2.052	-424.149
			-	25:COM1'	29:COM1'	29:COM1'	21:COM9	25:COM1'
	84	-ve	40.410	51.642	0.646	20.002	1.715	292.275
			15:COM3	23:COM1'	19:COM7	19:COM7	19:COM7	15:COM3
			0.000	-205.857	-0.133	-18.580	-0.346	-168.535
			-	17:COM5	29:COM1'	29:COM1'	29:COM1'	25:COM1'
21	34	+ve	34.598	168.418	0.010	8.868	0.760	329.281
			15:COM3	15:COM3	27:COM1'	23:COM1'	19:COM7	15:COM3
			0.000	-53.176	-0.290	-9.557	-0.150	-286.516
			-	25:COM1'	21:COM9	17:COM5	29:COM1'	25:COM1'
	81	-ve	34.598	31.544	0.010	8.868	0.000	370.505
			15:COM3	23:COM1'	27:COM1'	23:COM1'	-	15:COM3
			0.000	-196.094	-0.290	-9.557	-0.959	-184.748
			-	17:COM5	21:COM9	17:COM5	21:COM9	25:COM1'
22	36	+ve	2.704	58.410	1.442	0.000	0.511	5.698
			27:COM1'	19:COM7	15:COM3	-	23:COM1'	19:COM7
			-4.212	0.000	-1.075	-79.899	-0.630	0.000
			21:COM9	-	25:COM1'	14:COM2	17:COM5	-
	385	-ve	2.704	42.765	1.442	0.000	0.443	0.000
			27:COM1'	19:COM7	15:COM3	-	15:COM3	-
			-4.212	0.000	-1.075	-79.899	-0.291	-35.053
			21:COM9	-	25:COM1'	14:COM2	25:COM1'	21:COM9
23	23	+ve	1.109	54.343	0.004	0.000	0.019	55.950
			19:COM7	15:COM3	27:COM1'	-	27:COM1'	15:COM3
			-1.719	0.000	-0.008	-2.335	-0.020	-3.814
			29:COM1'	-	21:COM9	17:COM5	21:COM9	25:COM1'
	25	-ve	1.109	0.000	0.004	0.000	0.006	59.446
			19:COM7	-	27:COM1'	-	27:COM1'	15:COM3
			-1.719	-59.659	-0.008	-2.335	-0.030	0.000
			29:COM1'	17:COM5	21:COM9	17:COM5	21:COM9	-



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25	22	+ve	0.725	65.582	0.021	3.323	0.020	78.590
			27:COM1↓	15:COM3	19:COM7	19:COM7	27:COM1↓	15:COM3
			-2.562	0.000	-0.005	0.000	-0.063	-7.708
			21:COM9	-	29:COM1↓	-	21:COM9	25:COM1↓
	24	-ve	0.725	0.000	0.021	3.323	0.058	12.016
			27:COM1↓	-	19:COM7	19:COM7	19:COM7	27:COM1↓
			-2.562	-50.713	-0.005	0.000	-0.012	-8.817
			21:COM9	17:COM5	29:COM1↓	-	29:COM1↓	21:COM9
26	39	+ve	0.000	0.000	0.148	21.749	11.124	0.787
			-	-	27:COM1↓	23:COM1↓	19:COM7	27:COM1↓
			-16.770	-62.182	-11.683	-77.854	-0.049	-1.283
			21:COM9	17:COM5	21:COM9	17:COM5	29:COM1↓	21:COM9
	45	-ve	0.000	0.000	0.148	21.749	0.287	164.742
			-	-	27:COM1↓	23:COM1↓	27:COM1↓	15:COM3
			-16.770	-84.448	-11.683	-77.854	-15.167	0.000
			21:COM9	17:COM5	21:COM9	17:COM5	21:COM9	-
27	41	+ve	8.573	0.000	1.485	8.444	1.072	2.164
			23:COM1↓	-	19:COM7	15:COM3	27:COM1↓	19:COM7
			-3.982	-164.425	-1.438	-6.025	-1.418	-1.164
			17:COM5	14:COM2	29:COM1↓	25:COM1↓	21:COM9	29:COM1↓
	92	-ve	8.573	0.000	1.485	8.444	1.931	393.090
			23:COM1↓	-	19:COM7	15:COM3	19:COM7	14:COM2
			-3.982	-183.510	-1.438	-6.025	-2.171	0.000
			17:COM5	14:COM2	29:COM1↓	25:COM1↓	29:COM1↓	-
28	43	+ve	2.520	0.000	6.415	65.693	0.000	0.566
			23:COM1↓	-	15:COM3	15:COM3	-	27:COM1↓
			-16.438	-60.785	-0.218	-18.365	-6.213	-1.070
			17:COM5	14:COM2	25:COM1↓	25:COM1↓	17:COM5	21:COM9
	46	-ve	2.520	0.000	6.415	65.693	8.238	160.982
			23:COM1↓	-	15:COM3	15:COM3	15:COM3	14:COM2
			-16.438	-83.051	-0.218	-18.365	-0.661	0.000
			17:COM5	14:COM2	25:COM1↓	25:COM1↓	25:COM1↓	-
29	45	+ve	0.000	223.667	0.940	0.000	7.489	602.174
			-	15:COM3	27:COM1↓	-	19:COM7	15:COM3
			-144.989	-15.321	-2.255	-87.173	-2.986	-258.457
			17:COM5	25:COM1↓	21:COM9	21:COM9	29:COM1↓	25:COM1↓
	92	-ve	0.000	51.713	0.940	0.000	2.482	157.950
			-	23:COM1↓	27:COM1↓	-	27:COM1↓	15:COM3
			-144.989	-157.854	-2.255	-87.173	-5.607	-110.628
			17:COM5	17:COM5	21:COM9	21:COM9	21:COM9	25:COM1↓
30	47	+ve	67.392	204.063	151.938	61.243	3.691	291.462
			23:COM1↓	15:COM3	15:COM3	27:COM1↓	23:COM1↓	15:COM3
			-83.278	0.000	-18.457	-157.671	-53.574	-151.664
			17:COM5	-	25:COM1↓	21:COM9	17:COM5	25:COM1↓
	380	-ve	67.392	184.226	151.938	61.243	45.316	167.837
			23:COM1↓	15:COM3	15:COM3	27:COM1↓	15:COM3	15:COM3
			-83.278	0.000	-18.457	-157.671	-8.437	-163.368
			17:COM5	-	25:COM1↓	21:COM9	25:COM1↓	25:COM1↓



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31	49	+ve	68.285	186.228	16.007	125.436	47.778	259.222
			15:COM3	15:COM3	23:COM1	19:COM7	15:COM3	15:COM3
			-61.091	0.000	-137.599	-79.050	-3.902	-151.087
			25:COM1	-	17:COM5	29:COM1	25:COM1	25:COM1
	383	-ve	68.285	166.391	16.007	125.436	6.513	152.663
			15:COM3	15:COM3	23:COM1	19:COM7	23:COM1	15:COM3
			-61.091	-4.353	-137.599	-79.050	-41.672	-159.426
			25:COM1	25:COM1	17:COM5	29:COM1	17:COM5	25:COM1
32	51	+ve	0.000	195.816	0.885	14.286	0.580	460.839
			-	15:COM3	15:COM3	15:COM3	23:COM1	15:COM3
			-120.639	-13.701	-0.245	-6.109	-3.097	-178.917
			17:COM5	25:COM1	25:COM1	25:COM1	17:COM5	25:COM1
	89	-ve	0.000	33.702	0.885	14.286	2.064	259.332
			-	23:COM1	15:COM3	15:COM3	15:COM3	15:COM3
			-120.639	-166.076	-0.245	-6.109	-0.865	-121.657
			17:COM5	17:COM5	25:COM1	25:COM1	25:COM1	25:COM1
34	40	+ve	0.000	69.658	0.005	0.000	0.036	77.030
			-	14:COM2	19:COM7	-	19:COM7	15:COM3
			-13.454	0.000	-0.009	-2.159	-0.015	0.000
			21:COM9	-	29:COM1	17:COM5	29:COM1	-
	42	-ve	0.000	0.000	0.005	0.000	0.022	69.967
			-	-	19:COM7	-	15:COM3	14:COM2
			-13.454	-73.789	-0.009	-2.159	-0.026	0.000
			21:COM9	14:COM2	29:COM1	17:COM5	25:COM1	-
36	39	+ve	0.000	62.181	0.019	0.787	0.051	77.854
			-	15:COM3	27:COM1	27:COM1	27:COM1	15:COM3
			-17.535	0.000	-0.017	-1.283	-0.070	-21.749
			17:COM5	-	21:COM9	21:COM9	21:COM9	25:COM1
	41	-ve	0.000	0.000	0.019	0.787	0.044	95.612
			-	-	27:COM1	27:COM1	27:COM1	14:COM2
			-17.535	-81.762	-0.017	-1.283	-0.047	0.000
			17:COM5	14:COM2	21:COM9	21:COM9	21:COM9	-
40	58	+ve	0.000	226.276	154.191	66.510	0.000	472.750
			-	19:COM7	15:COM3	19:COM7	-	15:COM3
			-501.795	0.000	0.000	-28.208	-56.999	0.000
			17:COM5	-	-	29:COM1	17:COM5	-
	65	-ve	0.000	219.945	154.191	66.510	35.852	343.643
			-	19:COM7	15:COM3	19:COM7	15:COM3	15:COM3
			-501.795	0.000	0.000	-28.208	-13.045	0.000
			17:COM5	-	-	29:COM1	25:COM1	-
41	61	+ve	96.845	222.254	0.000	29.791	50.787	469.949
			23:COM1	19:COM7	-	27:COM1	15:COM3	15:COM3
			-379.235	0.000	-160.327	-67.055	0.000	0.000
			17:COM5	-	17:COM5	21:COM9	-	-
	371	-ve	96.845	215.923	0.000	29.791	0.000	341.974
			23:COM1	19:COM7	-	27:COM1	-	15:COM3
			-379.235	0.000	-160.327	-67.055	-45.937	0.000
			17:COM5	-	17:COM5	21:COM9	17:COM5	-



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42	61	+ve	0.000	95.423	10.954	15.414	0.000	240.789
			-	19:COM7	15:COM3	15:COM3	-	19:COM7
			-206.627	0.000	0.000	-7.395	-45.266	-79.971
			21:COM9	-	-	25:COM1	17:COM5	29:COM1
	109	-ve	0.000	0.000	10.954	15.414	61.106	342.887
			-	-	15:COM3	15:COM3	15:COM3	19:COM7
			-206.627	-107.258	0.000	-7.395	-3.255	-85.371
			21:COM9	21:COM9	-	25:COM1	25:COM1	29:COM1
44	65	+ve	0.000	70.358	3.217	0.395	2.481	69.849
			-	19:COM7	19:COM7	27:COM1	27:COM1	19:COM7
			-62.236	0.000	-1.589	-8.873	-12.060	-26.380
			17:COM5	-	29:COM1	21:COM9	21:COM9	29:COM1
	371	-ve	0.000	0.000	3.217	0.395	5.721	39.726
			-	-	19:COM7	27:COM1	27:COM1	27:COM1
			-62.236	-54.670	-1.589	-8.873	-7.001	-59.573
			17:COM5	21:COM9	29:COM1	21:COM9	21:COM9	21:COM9
45	59	+ve	2.142	0.000	1.626	0.000	0.000	0.000
			19:COM7	14:COM2	15:COM3	14:COM2	-	14:COM2
			-2.142	0.000	-1.626	0.000	-0.000	0.000
			21:COM9	-	17:COM5	-	14:COM2	-
	112	-ve	2.142	0.000	1.626	0.000	3.658	40.345
			19:COM7	-	15:COM3	14:COM2	15:COM3	13:COM1
			-2.142	-35.862	-1.626	0.000	-3.658	0.000
			21:COM9	13:COM1	17:COM5	-	17:COM5	-
46	57	+ve	0.000	0.000	6.258	19.609	0.000	5.473
			-	-	19:COM7	19:COM7	-	27:COM1
			-133.199	-25.181	0.000	0.000	-7.022	-5.099
			14:COM2	21:COM9	-	-	17:COM5	21:COM9
	122	-ve	0.000	0.000	6.258	19.609	8.392	90.242
			-	-	19:COM7	19:COM7	19:COM7	19:COM7
			-142.618	-55.972	0.000	0.000	0.000	0.000
			14:COM2	21:COM9	-	-	-	-
47	68	+ve	0.000	0.000	0.000	0.000	1.127	16.373
			-	-	-	-	23:COM1	15:COM3
			-103.906	-156.047	-10.343	-29.072	-2.215	-5.418
			14:COM2	14:COM2	14:COM2	17:COM5	17:COM5	25:COM1
	118	-ve	0.000	0.000	0.000	0.000	0.000	412.940
			-	-	-	-	-	14:COM2
			-94.577	-189.353	-10.343	-29.072	-25.258	0.000
			21:COM9	14:COM2	14:COM2	17:COM5	14:COM2	-
48	70	+ve	0.000	72.449	3.802	4.899	0.000	98.013
			-	19:COM7	15:COM3	15:COM3	-	19:COM7
			-329.793	0.000	0.000	-2.367	-4.394	0.000
			17:COM5	-	-	25:COM1	21:COM9	-
	277	-ve	0.000	27.967	3.802	4.899	9.322	0.000
			-	19:COM7	15:COM3	15:COM3	15:COM3	-
			-316.951	-2.042	0.000	-2.367	0.000	-75.327
			17:COM5	29:COM1	-	25:COM1	-	14:COM2



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49	113	+ve	133.386	113.376	2.494	17.094	9.246	205.571
			27:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	19:COM7
			-165.645	0.000	-5.531	0.000	-4.589	0.000
			21:COM9	-	17:COM5	-	25:COM1'	-
	280	-ve	125.963	70.448	2.494	17.094	2.989	0.000
			27:COM1'	14:COM2	23:COM1'	15:COM3	23:COM1'	-
			-177.102	0.000	-5.531	0.000	-7.500	-113.651
			21:COM9	-	17:COM5	-	17:COM5	21:COM9
50	63	+ve	9.663	93.000	0.000	15.401	8.089	187.217
			27:COM1'	14:COM2	-	19:COM7	15:COM3	15:COM3
			-26.354	0.000	-3.839	0.000	0.000	0.000
			21:COM9	-	17:COM5	-	-	-
	251	-ve	3.952	59.168	0.000	15.401	0.000	0.000
			27:COM1'	14:COM2	-	19:COM7	-	-
			-35.499	0.000	-3.839	0.000	-3.679	-67.725
			21:COM9	-	17:COM5	-	17:COM5	17:COM5
51	70	+ve	4.609	117.194	0.000	0.000	0.000	269.940
			23:COM1'	14:COM2	-	-	-	14:COM2
			-297.501	0.000	-1.297	-9.072	-6.646	0.000
			17:COM5	-	21:COM9	17:COM5	17:COM5	-
	283	-ve	13.363	69.417	0.000	0.000	0.000	0.000
			23:COM1'	15:COM3	-	-	-	-
			-283.989	0.000	-1.297	-9.072	-9.662	-52.992
			17:COM5	-	21:COM9	17:COM5	17:COM5	17:COM5
52	67	+ve	0.000	58.109	0.000	5.741	3.085	92.940
			-	14:COM2	-	14:COM2	14:COM2	14:COM2
			-113.734	0.000	-1.244	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	343	-ve	0.000	18.442	0.000	5.741	0.000	0.000
			-	15:COM3	-	14:COM2	-	-
			-102.734	0.000	-1.244	0.000	-1.240	-38.916
			17:COM5	-	14:COM2	-	21:COM9	17:COM5
53	57	+ve	5.714	95.937	3.608	0.000	0.000	180.001
			27:COM1'	14:COM2	14:COM2	-	-	15:COM3
			-21.761	0.000	0.000	-15.323	-7.220	0.000
			21:COM9	-	-	21:COM9	17:COM5	-
	346	-ve	0.003	62.105	3.608	0.000	3.691	0.000
			27:COM1'	14:COM2	14:COM2	-	15:COM3	-
			-30.906	0.000	0.000	-15.323	0.000	-70.229
			21:COM9	-	-	21:COM9	-	17:COM5
54	72	+ve	136.983	2.261	0.481	11.821	0.000	0.000
			14:COM2	23:COM1'	15:COM3	15:COM3	-	-
			0.000	-11.544	-0.002	0.000	-0.514	-40.970
			-	17:COM5	25:COM1'	-	21:COM9	17:COM5
	302	-ve	136.983	0.000	0.481	11.821	0.649	1.389
			14:COM2	-	15:COM3	15:COM3	15:COM3	23:COM1'
			0.000	-23.363	-0.002	0.000	-0.114	-8.109
			-	17:COM5	25:COM1'	-	25:COM1'	17:COM5

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55	68	+ve	154.860	1.755	0.000	0.000	1.249	0.000
			14:COM2	23:COM1'	-	-	15:COM3	-
			0.000	-8.272	-0.945	-14.423	0.000	-36.456
	347	-ve	-	17:COM5	17:COM5	17:COM5	-	17:COM5
			154.860	0.000	0.000	0.000	0.000	0.314
			14:COM2	-	-	-	-	23:COM1'
			0.000	-20.547	-0.945	-14.423	-1.060	-7.341
			-	17:COM5	17:COM5	17:COM5	21:COM9	17:COM5
56	17	+ve	0.079	153.291	1.948	70.212	1.849	250.579
			19:COM7	14:COM2	15:COM3	15:COM3	23:COM1'	14:COM2
			-0.073	0.000	-1.203	-9.207	-2.992	0.000
	6	-ve	29:COM1'	-	25:COM1'	25:COM1'	17:COM5	-
			0.079	67.581	1.948	70.212	1.392	2.289
			19:COM7	14:COM2	15:COM3	15:COM3	15:COM3	15:COM3
			-0.073	0.000	-1.203	-9.207	-0.858	0.000
			29:COM1'	-	25:COM1'	25:COM1'	25:COM1'	-
57	15	+ve	0.602	330.455	1.357	13.921	1.404	596.264
			23:COM1'	19:COM7	15:COM3	15:COM3	23:COM1'	19:COM7
			-0.904	0.000	-0.892	-10.298	-2.139	0.000
	162	-ve	17:COM5	-	25:COM1'	25:COM1'	17:COM5	-
			0.602	246.650	1.357	13.921	0.847	7.738
			23:COM1'	19:COM7	15:COM3	15:COM3	15:COM3	27:COM1'
			-0.904	0.000	-0.892	-10.298	-0.558	-179.362
			17:COM5	-	25:COM1'	25:COM1'	25:COM1'	21:COM9
58	13	+ve	0.632	241.951	1.644	5.970	1.674	506.026
			23:COM1'	19:COM7	15:COM3	23:COM1'	23:COM1'	19:COM7
			-0.967	0.000	-1.026	-9.415	-2.690	-5.928
	174	-ve	17:COM5	-	25:COM1'	17:COM5	17:COM5	29:COM1'
			0.632	142.909	1.644	5.970	1.585	12.027
			23:COM1'	19:COM7	15:COM3	23:COM1'	15:COM3	19:COM7
			-0.967	-42.468	-1.026	-9.415	-0.993	0.000
			17:COM5	29:COM1'	25:COM1'	17:COM5	25:COM1'	-
59	11	+ve	0.938	408.750	4.130	3.925	3.591	950.456
			23:COM1'	14:COM2	15:COM3	23:COM1'	23:COM1'	19:COM7
			-1.596	0.000	-2.525	-9.359	-5.869	0.000
	218	-ve	17:COM5	-	25:COM1'	17:COM5	17:COM5	-
			0.938	336.373	4.130	3.925	1.977	245.603
			23:COM1'	14:COM2	15:COM3	23:COM1'	15:COM3	19:COM7
			-1.596	0.000	-2.525	-9.359	-1.207	-90.363
			17:COM5	-	25:COM1'	17:COM5	25:COM1'	29:COM1'
60	73	+ve	0.285	171.310	0.982	27.080	0.901	359.358
			23:COM1'	14:COM2	15:COM3	23:COM1'	23:COM1'	14:COM2
			-0.522	0.000	-0.613	-30.586	-1.442	0.000
	8	-ve	17:COM5	-	25:COM1'	17:COM5	17:COM5	-
			0.285	152.225	0.982	27.080	0.768	0.000
			23:COM1'	14:COM2	15:COM3	23:COM1'	15:COM3	-
			-0.522	0.000	-0.613	-30.586	-0.479	-4.624
			17:COM5	-	25:COM1'	17:COM5	25:COM1'	14:COM2



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61	74	+ve	0.539	281.124	0.551	5.487	0.531	441.770
			23:COM11	14:COM2	15:COM3	23:COM11	23:COM11	19:COM7
			-0.794	0.000	-0.353	-5.718	-0.828	0.000
			17:COM5	-	25:COM11	17:COM5	17:COM5	-
	168	-ve	0.539	262.463	0.551	5.487	0.384	0.000
			23:COM11	14:COM2	15:COM3	23:COM11	15:COM3	-
			-0.794	0.000	-0.353	-5.718	-0.246	-180.589
			17:COM5	-	25:COM11	17:COM5	25:COM11	14:COM2
62	75	+ve	0.546	138.937	0.735	2.080	0.710	363.481
			23:COM11	19:COM7	15:COM3	15:COM3	23:COM11	19:COM7
			-0.823	0.000	-0.455	-0.149	-1.149	0.000
			17:COM5	-	25:COM11	25:COM11	17:COM5	-
	180	-ve	0.546	116.883	0.735	2.080	0.764	34.965
			23:COM11	19:COM7	15:COM3	15:COM3	15:COM3	14:COM2
			-0.823	0.000	-0.455	-0.149	-0.473	0.000
			17:COM5	-	25:COM11	25:COM11	25:COM11	-
63	76	+ve	0.407	419.745	1.942	0.373	1.610	877.221
			23:COM11	14:COM2	15:COM3	15:COM3	23:COM11	14:COM2
			-0.766	0.000	-1.202	-0.123	-2.600	0.000
			17:COM5	-	25:COM11	25:COM11	17:COM5	-
	224	-ve	0.407	403.629	1.942	0.373	1.089	164.412
			23:COM11	14:COM2	15:COM3	15:COM3	15:COM3	19:COM7
			-0.766	0.000	-1.202	-0.123	-0.675	-17.646
			17:COM5	-	25:COM11	25:COM11	25:COM11	29:COM11
64	10	+ve	0.514	0.000	2.486	11.057	0.821	2.620
			23:COM11	-	15:COM3	23:COM11	23:COM11	15:COM3
			-0.858	-67.089	-1.578	-69.491	-1.289	0.000
			17:COM5	14:COM2	25:COM11	17:COM5	17:COM5	-
	77	-ve	0.514	0.000	2.486	11.057	4.305	307.551
			23:COM11	-	15:COM3	23:COM11	15:COM3	14:COM2
			-0.858	-204.037	-1.578	-69.491	-2.730	0.000
			17:COM5	14:COM2	25:COM11	17:COM5	25:COM11	-
66	78	+ve	0.222	430.641	1.443	0.000	1.607	647.605
			23:COM11	14:COM2	15:COM3	-	23:COM11	19:COM7
			-0.321	0.000	-0.901	-169.967	-2.571	0.000
			17:COM5	-	25:COM11	14:COM2	17:COM5	-
	169	-ve	0.222	296.740	1.443	0.000	0.604	0.000
			23:COM11	14:COM2	15:COM3	-	15:COM3	-
			-0.321	0.000	-0.901	-169.967	-0.375	-244.873
			17:COM5	-	25:COM11	14:COM2	25:COM11	21:COM9
67	79	+ve	0.366	168.996	0.829	0.000	0.782	402.537
			23:COM11	19:COM7	15:COM3	-	23:COM11	19:COM7
			-0.568	-13.927	-0.511	-38.039	-1.269	-113.031
			17:COM5	29:COM11	25:COM11	17:COM5	17:COM5	29:COM11
	181	-ve	0.366	131.644	0.829	0.000	0.888	24.640
			23:COM11	19:COM7	15:COM3	-	15:COM3	27:COM11
			-0.568	-41.941	-0.511	-38.039	-0.547	-53.336
			17:COM5	29:COM11	25:COM11	17:COM5	25:COM11	21:COM9



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68	80	+ve	0.830	419.366	2.391	0.000	1.907	882.410
			23:COM11	14:COM2	15:COM3	-	23:COM11	19:COM7
			-1.388	0.000	-1.500	-92.773	-3.043	0.000
			17:COM5	-	25:COM11	17:COM5	17:COM5	-
	225	-ve	0.830	403.250	2.391	0.000	1.500	163.517
			23:COM11	14:COM2	15:COM3	-	15:COM3	19:COM7
			-1.388	0.000	-1.500	-92.773	-0.943	-86.597
			17:COM5	-	25:COM11	17:COM5	25:COM11	29:COM11
69	80	+ve	0.113	169.090	1.108	14.683	0.959	291.460
			23:COM11	14:COM2	15:COM3	27:COM11	23:COM11	15:COM3
			-0.182	0.000	-0.695	-17.469	-1.530	0.000
			17:COM5	-	25:COM11	21:COM9	17:COM5	-
	12	-ve	0.113	90.702	1.108	14.683	1.128	0.000
			23:COM11	15:COM3	15:COM3	27:COM11	15:COM3	-
			-0.182	0.000	-0.695	-17.469	-0.708	-17.834
			17:COM5	-	25:COM11	21:COM9	25:COM11	14:COM2
70	76	+ve	0.000	130.745	0.281	2.903	0.495	173.984
			-	15:COM3	15:COM3	19:COM7	23:COM11	15:COM3
			0.000	-12.203	-0.175	-10.057	-0.797	-71.215
			-	25:COM11	25:COM11	29:COM11	17:COM5	25:COM11
	80	-ve	0.000	1.663	0.281	2.903	0.833	301.690
			-	23:COM11	15:COM3	19:COM7	15:COM3	15:COM3
			0.000	-145.952	-0.175	-10.057	-0.520	-124.254
			-	17:COM5	25:COM11	29:COM11	25:COM11	25:COM11
71	79	+ve	0.177	140.562	0.534	27.888	0.451	220.999
			15:COM3	14:COM2	15:COM3	19:COM7	23:COM11	14:COM2
			-0.113	0.000	-0.329	-24.508	-0.731	0.000
			25:COM11	-	25:COM11	29:COM11	17:COM5	-
	14	-ve	0.177	51.785	0.534	27.888	0.551	0.000
			15:COM3	14:COM2	15:COM3	19:COM7	15:COM3	-
			-0.113	0.000	-0.329	-24.508	-0.339	-9.817
			25:COM11	-	25:COM11	29:COM11	25:COM11	14:COM2
72	75	+ve	0.000	120.665	0.134	5.624	0.236	153.232
			-	15:COM3	15:COM3	27:COM11	23:COM11	15:COM3
			0.000	0.000	-0.082	-17.051	-0.382	-38.284
			-	-	25:COM11	21:COM9	17:COM5	25:COM11
	79	-ve	0.000	0.000	0.134	5.624	0.393	225.701
			-	-	15:COM3	27:COM11	15:COM3	15:COM3
			0.000	-126.435	-0.082	-17.051	-0.242	-77.130
			-	17:COM5	25:COM11	21:COM9	25:COM11	25:COM11
73	78	+ve	0.148	98.843	0.285	33.871	0.242	133.311
			23:COM11	14:COM2	15:COM3	19:COM7	23:COM11	14:COM2
			-0.234	0.000	-0.177	0.000	-0.387	0.000
			17:COM5	-	25:COM11	-	17:COM5	-
	16	-ve	0.148	14.103	0.285	33.871	0.295	3.388
			23:COM11	19:COM7	15:COM3	19:COM7	15:COM3	19:COM7
			-0.234	0.000	-0.177	0.000	-0.184	-0.035
			17:COM5	-	25:COM11	-	25:COM11	29:COM11



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74	74	+ve	0.000	127.881	0.082	2.139	0.157	164.974
			-	15:COM3	15:COM3	14:COM2	23:COM1	15:COM3
			0.000	0.000	-0.052	-1.429	-0.246	-20.312
			-	-	25:COM1	25:COM1	17:COM5	25:COM1
	78	-ve	0.000	0.000	0.082	2.139	0.231	150.797
			-	-	15:COM3	14:COM2	15:COM3	15:COM3
			0.000	-108.603	-0.052	-1.429	-0.146	-78.955
			-	17:COM5	25:COM1	25:COM1	25:COM1	25:COM1
76	73	+ve	0.000	148.635	0.147	5.710	0.277	230.840
			-	15:COM3	15:COM3	19:COM7	23:COM1	15:COM3
			0.000	0.000	-0.092	-0.908	-0.441	-60.446
			-	-	25:COM1	29:COM1	17:COM5	25:COM1
	77	-ve	0.000	6.912	0.147	5.710	0.410	142.585
			-	23:COM1	15:COM3	19:COM7	15:COM3	15:COM3
			0.000	-112.799	-0.092	-0.908	-0.259	-120.253
			-	17:COM5	25:COM1	29:COM1	25:COM1	25:COM1
79	14	+ve	0.033	15.526	0.034	0.000	0.029	47.265
			23:COM1	15:COM3	15:COM3	-	23:COM1	19:COM7
			-0.052	0.000	-0.021	-2.641	-0.046	0.000
			17:COM5	-	25:COM1	21:COM9	17:COM5	-
	175	-ve	0.033	6.704	0.034	0.000	0.043	20.115
			23:COM1	15:COM3	15:COM3	-	15:COM3	19:COM7
			-0.052	-1.888	-0.021	-2.641	-0.027	0.000
			17:COM5	25:COM1	25:COM1	21:COM9	25:COM1	-
80	12	+ve	0.045	50.738	0.090	0.000	0.063	141.009
			23:COM1	15:COM3	15:COM3	-	23:COM1	19:COM7
			-0.073	0.000	-0.057	-8.256	-0.101	0.000
			17:COM5	-	25:COM1	14:COM2	17:COM5	-
	219	-ve	0.045	44.292	0.090	0.000	0.071	56.160
			23:COM1	15:COM3	15:COM3	-	15:COM3	19:COM7
			-0.073	0.000	-0.057	-8.256	-0.045	-17.065
			17:COM5	-	25:COM1	14:COM2	25:COM1	29:COM1
81	9	+ve	0.216	62.816	0.026	0.000	0.017	97.814
			23:COM1	15:COM3	15:COM3	-	23:COM1	15:COM3
			-0.346	0.000	-0.017	-57.151	-0.027	0.000
			17:COM5	-	25:COM1	17:COM5	17:COM5	-
	19	-ve	0.216	7.760	0.026	0.000	0.037	17.977
			23:COM1	23:COM1	15:COM3	-	15:COM3	15:COM3
			-0.346	-20.197	-0.017	-57.151	-0.023	0.000
			17:COM5	17:COM5	25:COM1	17:COM5	25:COM1	-
82	7	+ve	0.377	76.018	0.003	0.000	0.003	48.154
			23:COM1	15:COM3	15:COM3	-	15:COM3	19:COM7
			-0.577	0.000	-0.002	-19.571	-0.002	-1.591
			17:COM5	-	25:COM1	17:COM5	25:COM1	29:COM1
	9	-ve	0.377	0.000	0.003	0.000	0.022	127.817
			23:COM1	-	15:COM3	-	15:COM3	15:COM3
			-0.577	-89.623	-0.002	-19.571	-0.014	-9.106
			17:COM5	17:COM5	25:COM1	17:COM5	25:COM1	25:COM1



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83	8	+ve	0.314	76.357	0.002	2.620	0.004	71.040
			15:COM3	14:COM2	15:COM3	15:COM3	23:COM1	15:COM3
			-0.208	0.000	-0.001	0.000	-0.007	0.000
			25:COM1	-	25:COM1	-	17:COM5	-
	10	-ve	0.314	0.000	0.002	2.620	0.005	69.491
			15:COM3	-	15:COM3	15:COM3	15:COM3	15:COM3
			-0.208	-67.089	-0.001	0.000	-0.003	-11.057
			25:COM1	14:COM2	25:COM1	-	25:COM1	25:COM1
84	34	+ve	6.184	76.610	0.000	55.950	2.020	148.932
			19:COM7	15:COM3	-	15:COM3	15:COM3	15:COM3
			-4.524	0.000	-1.545	-3.813	0.000	0.000
			29:COM1	-	17:COM5	25:COM1	-	-
	23	-ve	6.184	54.344	0.000	55.950	0.000	2.334
			19:COM7	15:COM3	-	15:COM3	-	15:COM3
			-4.524	0.000	-1.545	-3.813	-1.492	0.000
			29:COM1	-	17:COM5	25:COM1	17:COM5	-
85	32	+ve	41.568	207.916	1.052	10.798	4.160	525.378
			19:COM7	19:COM7	23:COM1	15:COM3	15:COM3	19:COM7
			-14.586	0.000	-3.025	-10.233	-1.343	-90.324
			29:COM1	-	17:COM5	25:COM1	25:COM1	29:COM1
	164	-ve	41.568	186.145	1.052	10.798	0.986	97.896
			19:COM7	19:COM7	23:COM1	15:COM3	23:COM1	27:COM1
			-14.586	0.000	-3.025	-10.233	-2.510	-131.378
			29:COM1	-	17:COM5	25:COM1	17:COM5	21:COM9
86	30	+ve	0.000	211.900	0.837	12.317	1.944	479.646
			-	19:COM7	23:COM1	23:COM1	15:COM3	19:COM7
			-29.560	-74.964	-1.421	-21.285	-1.238	-235.740
			17:COM5	29:COM1	17:COM5	17:COM5	25:COM1	29:COM1
	389	-ve	0.000	186.171	0.837	12.317	0.940	0.000
			-	19:COM7	23:COM1	23:COM1	23:COM1	-
			-29.560	-94.261	-1.421	-21.285	-1.754	-40.730
			17:COM5	29:COM1	17:COM5	17:COM5	17:COM5	17:COM5
87	28	+ve	21.877	236.827	0.344	2.124	3.417	690.306
			27:COM1	19:COM7	27:COM1	27:COM1	19:COM7	19:COM7
			-22.762	0.000	-3.019	-6.311	-0.396	-67.721
			21:COM9	-	21:COM9	21:COM9	29:COM1	29:COM1
	220	-ve	21.877	218.025	0.344	2.124	0.306	258.197
			27:COM1	19:COM7	27:COM1	27:COM1	27:COM1	19:COM7
			-22.762	0.000	-3.019	-6.311	-2.367	-160.225
			21:COM9	-	21:COM9	21:COM9	21:COM9	29:COM1
88	81	+ve	6.538	148.128	0.523	25.925	0.333	293.194
			19:COM7	14:COM2	15:COM3	15:COM3	23:COM1	14:COM2
			-4.268	0.000	-0.267	-23.955	-0.647	0.000
			29:COM1	-	25:COM1	25:COM1	17:COM5	-
	25	-ve	6.538	115.804	0.523	25.925	0.531	0.000
			19:COM7	14:COM2	15:COM3	15:COM3	15:COM3	-
			-4.268	0.000	-0.267	-23.955	-0.268	-3.733
			29:COM1	-	25:COM1	25:COM1	25:COM1	14:COM2



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89	82	+ve	3.138	254.895	0.269	1.644	0.752	484.953
			27:COM1↓	19:COM7	23:COM1↑	27:COM1↓	15:COM3	19:COM7
			-3.992	0.000	-0.513	-1.617	-0.458	0.000
			21:COM9	-	17:COM5	21:COM9	25:COM1↓	-
	170	-ve	3.138	223.290	0.269	1.644	0.159	0.000
			27:COM1↓	19:COM7	23:COM1↑	27:COM1↓	23:COM1↑	-
			-3.992	0.000	-0.513	-1.617	-0.401	-149.718
			21:COM9	-	17:COM5	21:COM9	17:COM5	21:COM9
90	83	+ve	3.473	147.323	0.514	11.646	0.490	340.771
			27:COM1↓	19:COM7	15:COM3	15:COM3	23:COM1↑	19:COM7
			-9.552	-2.123	-0.436	-9.392	-0.734	-30.376
			21:COM9	29:COM1↓	25:COM1↓	25:COM1↓	17:COM5	29:COM1↓
	182	-ve	3.473	125.270	0.514	11.646	0.605	3.568
			27:COM1↓	19:COM7	15:COM3	15:COM3	15:COM3	23:COM1↑
			-9.552	-18.663	-0.436	-9.392	-0.646	-20.783
			21:COM9	29:COM1↓	25:COM1↓	25:COM1↓	25:COM1↓	14:COM2
91	84	+ve	0.000	331.897	0.411	5.835	0.876	749.603
			-	14:COM2	23:COM1↑	15:COM3	15:COM3	19:COM7
			-26.751	0.000	-0.667	-5.069	-0.423	0.000
			21:COM9	-	17:COM5	25:COM1↓	25:COM1↓	-
	226	-ve	0.000	304.602	0.411	5.835	0.373	153.529
			-	14:COM2	23:COM1↑	15:COM3	23:COM1↑	19:COM7
			-26.751	0.000	-0.667	-5.069	-0.407	-61.355
			21:COM9	-	17:COM5	25:COM1↓	17:COM5	29:COM1↓
92	38	+ve	5.453	63.773	1.780	4.827	0.868	27.850
			19:COM7	15:COM3	15:COM3	23:COM1↑	15:COM3	15:COM3
			-4.652	0.000	-0.411	-55.038	-0.175	0.000
			29:COM1↓	-	25:COM1↓	17:COM5	25:COM1↓	-
	27	-ve	5.453	54.023	1.780	4.827	1.052	2.048
			19:COM7	15:COM3	15:COM3	23:COM1↑	19:COM7	15:COM3
			-4.652	0.000	-0.411	-55.038	0.000	0.000
			29:COM1↓	-	25:COM1↓	17:COM5	-	-
93	85	+ve	7.136	104.862	1.597	4.827	0.370	177.731
			19:COM7	13:COM1	15:COM3	23:COM1↑	27:COM1↓	15:COM3
			-6.335	0.000	-0.228	-55.036	-2.140	0.000
			29:COM1↓	-	25:COM1↓	17:COM5	21:COM9	-
	38	-ve	7.136	63.773	1.597	4.827	0.868	27.853
			19:COM7	15:COM3	15:COM3	23:COM1↑	15:COM3	15:COM3
			-6.335	0.000	-0.228	-55.036	-0.175	0.000
			29:COM1↓	-	25:COM1↓	17:COM5	25:COM1↓	-
94	86	+ve	30.939	249.166	2.471	0.000	0.623	493.496
			15:COM3	19:COM7	15:COM3	-	23:COM1↑	19:COM7
			0.000	0.000	-0.491	-116.009	-3.367	0.000
			-	-	25:COM1↓	17:COM5	17:COM5	-
	171	-ve	30.939	201.505	2.471	0.000	2.093	20.016
			15:COM3	19:COM7	15:COM3	-	15:COM3	27:COM1↓
			0.000	0.000	-0.491	-116.009	-0.480	-133.866
			-	-	25:COM1↓	17:COM5	25:COM1↓	21:COM9



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95	87	+ve	0.000	246.517	0.885	0.000	0.472	569.814
			-	19:COM7	15:COM3	-	23:COM1'	19:COM7
			-42.477	-38.455	-0.295	-63.561	-1.217	-231.563
			21:COM9	29:COM1'	25:COM1'	17:COM5	17:COM5	29:COM1'
	183	-ve	0.000	178.207	0.885	0.000	1.085	35.985
			-	19:COM7	15:COM3	-	15:COM3	27:COM1'
			-42.477	-85.289	-0.295	-63.561	-0.297	-89.008
			21:COM9	29:COM1'	25:COM1'	17:COM5	25:COM1'	21:COM9
96	88	+ve	4.903	396.906	0.478	0.000	2.105	932.565
			27:COM1'	19:COM7	23:COM1'	-	15:COM3	19:COM7
			-24.266	0.000	-1.747	-160.632	-0.311	0.000
			21:COM9	-	17:COM5	17:COM5	25:COM1'	-
	227	-ve	4.903	324.629	0.478	0.000	0.616	248.287
			27:COM1'	19:COM7	23:COM1'	-	23:COM1'	19:COM7
			-24.266	0.000	-1.747	-160.632	-1.232	-156.865
			21:COM9	-	17:COM5	17:COM5	17:COM5	29:COM1'
97	88	+ve	5.773	273.376	0.040	20.122	4.427	573.503
			15:COM3	19:COM7	27:COM1'	27:COM1'	19:COM7	19:COM7
			-5.503	0.000	-3.247	-115.281	0.000	0.000
			25:COM1'	-	21:COM9	21:COM9	-	-
	29	-ve	5.773	244.875	0.040	20.122	0.121	0.000
			15:COM3	19:COM7	27:COM1'	27:COM1'	27:COM1'	-
			-5.503	0.000	-3.247	-115.281	-3.386	-52.307
			25:COM1'	-	21:COM9	21:COM9	21:COM9	14:COM2
98	84	+ve	12.273	162.089	0.123	6.373	1.050	231.710
			15:COM3	15:COM3	27:COM1'	27:COM1'	19:COM7	15:COM3
			0.000	-82.098	-0.383	-22.268	-0.517	-211.118
			-	25:COM1'	21:COM9	21:COM9	29:COM1'	25:COM1'
	88	-ve	12.273	35.270	0.123	6.373	0.200	657.092
			15:COM3	23:COM1'	27:COM1'	27:COM1'	27:COM1'	15:COM3
			0.000	-235.069	-0.383	-22.268	-1.175	-289.062
			-	17:COM5	21:COM9	21:COM9	21:COM9	25:COM1'
99	87	+ve	4.985	178.326	0.462	46.855	1.274	399.044
			23:COM1'	19:COM7	27:COM1'	19:COM7	19:COM7	14:COM2
			-6.935	0.000	-1.092	-30.959	-0.579	0.000
			17:COM5	-	21:COM9	29:COM1'	29:COM1'	-
	31	-ve	4.985	162.041	0.462	46.855	0.530	0.000
			23:COM1'	19:COM7	27:COM1'	19:COM7	27:COM1'	-
			-6.935	0.000	-1.092	-30.959	-1.348	-9.702
			17:COM5	-	21:COM9	29:COM1'	21:COM9	21:COM9
100	83	+ve	10.048	111.614	0.152	3.155	0.008	174.748
			15:COM3	15:COM3	15:COM3	27:COM1'	23:COM1'	15:COM3
			-0.911	-19.145	-0.005	-12.994	-0.455	-105.335
			25:COM1'	25:COM1'	25:COM1'	21:COM9	17:COM5	25:COM1'
	87	-ve	10.048	1.640	0.152	3.155	0.430	296.335
			15:COM3	23:COM1'	15:COM3	27:COM1'	15:COM3	15:COM3
			-0.911	-137.306	-0.005	-12.994	-0.023	-101.652
			25:COM1'	17:COM5	25:COM1'	21:COM9	25:COM1'	25:COM1'



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101	86	+ve	2.399	66.348	2.306	35.577	0.789	143.271
			27:COM1↓	13:COM1	19:COM7	19:COM7	27:COM1↓	13:COM1
			-5.499	0.000	-0.623	0.000	-2.832	0.000
			21:COM9	-	29:COM1↓	-	21:COM9	-
	33	-ve	2.399	48.044	2.306	35.577	2.703	7.449
			27:COM1↓	19:COM7	19:COM7	19:COM7	19:COM7	15:COM3
			-5.499	0.000	-0.623	0.000	-0.706	0.000
			21:COM9	-	29:COM1↓	-	29:COM1↓	-
102	82	+ve	11.788	116.011	0.074	6.323	0.150	184.554
			15:COM3	15:COM3	19:COM7	19:COM7	27:COM1↓	15:COM3
			-4.269	-3.006	-0.027	-0.337	-0.174	-73.695
			25:COM1↓	25:COM1↓	29:COM1↓	29:COM1↓	21:COM9	25:COM1↓
	86	-ve	11.788	1.808	0.074	6.323	0.257	219.139
			15:COM3	23:COM1↓	19:COM7	19:COM7	19:COM7	15:COM3
			-4.269	-116.938	-0.027	-0.337	-0.006	-102.118
			25:COM1↓	17:COM5	29:COM1↓	29:COM1↓	29:COM1↓	25:COM1↓
104	81	+ve	25.933	196.394	0.371	7.081	0.000	373.523
			15:COM3	15:COM3	19:COM7	23:COM1↓	-	15:COM3
			0.000	-33.442	-0.021	-12.266	-1.180	-188.814
			-	25:COM1↓	29:COM1↓	17:COM5	21:COM9	25:COM1↓
	85	-ve	25.933	52.130	0.371	7.081	1.074	333.967
			15:COM3	23:COM1↓	19:COM7	23:COM1↓	19:COM7	15:COM3
			0.000	-168.968	-0.021	-12.266	-0.323	-282.991
			-	17:COM5	29:COM1↓	17:COM5	29:COM1↓	25:COM1↓
107	31	+ve	4.782	66.659	0.030	0.000	0.077	73.574
			27:COM1↓	14:COM2	27:COM1↓	-	19:COM7	14:COM2
			-6.441	0.000	-0.049	-7.449	-0.039	0.000
			21:COM9	-	21:COM9	17:COM5	29:COM1↓	-
	177	-ve	4.782	10.434	0.030	0.000	0.040	0.000
			27:COM1↓	19:COM7	27:COM1↓	-	27:COM1↓	-
			-6.441	0.000	-0.049	-7.449	-0.050	-25.426
			21:COM9	-	21:COM9	17:COM5	21:COM9	21:COM9
108	29	+ve	4.409	127.568	0.063	2.857	0.116	288.506
			27:COM1↓	19:COM7	27:COM1↓	19:COM7	19:COM7	19:COM7
			-6.804	0.000	-0.110	0.000	-0.059	0.000
			21:COM9	-	21:COM9	-	29:COM1↓	-
	221	-ve	4.409	87.427	0.063	2.857	0.062	84.266
			27:COM1↓	19:COM7	27:COM1↓	19:COM7	27:COM1↓	19:COM7
			-6.804	0.000	-0.110	0.000	-0.095	-52.880
			21:COM9	-	21:COM9	-	21:COM9	29:COM1↓
109	25	+ve	1.619	60.291	0.009	2.048	0.006	61.312
			27:COM1↓	15:COM3	19:COM7	15:COM3	27:COM1↓	15:COM3
			-2.497	0.000	-0.003	0.000	-0.035	0.000
			21:COM9	-	29:COM1↓	-	21:COM9	-
	27	-ve	1.619	0.000	0.009	2.048	0.015	55.038
			27:COM1↓	-	19:COM7	15:COM3	19:COM7	15:COM3
			-2.497	-54.022	-0.003	0.000	-0.012	-4.827
			21:COM9	17:COM5	29:COM1↓	-	29:COM1↓	25:COM1↓



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
110	26	+ve	1.850	66.586	0.014	0.000	0.106	76.822
			19:COM7	19:COM7	23:COM1'	-	15:COM3	15:COM3
			-1.927	0.000	-0.085	-11.910	-0.019	0.000
			29:COM1'	-	17:COM5	17:COM5	25:COM1'	-
	36	-ve	1.850	58.410	0.014	0.000	0.015	0.000
			19:COM7	19:COM7	23:COM1'	-	23:COM1'	-
			-1.927	0.000	-0.085	-11.910	-0.101	-79.268
			29:COM1'	-	17:COM5	17:COM5	17:COM5	14:COM2
111	24	+ve	2.107	43.536	0.007	0.000	0.023	9.616
			15:COM3	15:COM3	27:COM1'	-	19:COM7	23:COM1'
			-1.575	0.000	-0.008	-4.320	-0.022	-10.006
			25:COM1'	-	21:COM9	17:COM5	29:COM1'	17:COM5
	26	-ve	2.107	0.000	0.007	0.000	0.020	144.039
			15:COM3	-	27:COM1'	-	27:COM1'	15:COM3
			-1.575	-77.407	-0.008	-4.320	-0.026	0.000
			25:COM1'	17:COM5	21:COM9	17:COM5	21:COM9	-
112	51	+ve	0.000	91.924	7.274	77.030	0.000	183.767
			-	14:COM2	19:COM7	15:COM3	-	14:COM2
			-14.423	0.000	0.000	0.000	-9.368	0.000
			21:COM9	-	-	-	17:COM5	-
	40	-ve	0.000	69.659	7.274	77.030	7.191	2.159
			-	14:COM2	19:COM7	15:COM3	19:COM7	15:COM3
			-14.423	0.000	0.000	0.000	0.000	0.000
			21:COM9	-	-	-	-	-
113	49	+ve	95.532	222.310	2.539	3.388	3.723	527.525
			15:COM3	19:COM7	27:COM1'	23:COM1'	19:COM7	19:COM7
			-1.649	0.000	-2.192	-21.338	-3.687	-148.210
			25:COM1'	-	21:COM9	17:COM5	29:COM1'	29:COM1'
	166	-ve	95.532	200.539	2.539	3.388	2.164	100.418
			15:COM3	19:COM7	27:COM1'	23:COM1'	23:COM1'	27:COM1'
			-1.649	0.000	-2.192	-21.338	-1.362	-205.169
			25:COM1'	-	21:COM9	17:COM5	17:COM5	21:COM9
114	380	+ve	120.461	96.951	2.978	5.556	21.207	177.179
			15:COM3	19:COM7	23:COM1'	23:COM1'	15:COM3	19:COM7
			-1.882	-0.880	-11.955	-19.319	-4.026	-50.478
			25:COM1'	29:COM1'	17:COM5	17:COM5	25:COM1'	29:COM1'
	382	-ve	120.461	71.222	2.978	5.556	3.722	0.000
			15:COM3	19:COM7	23:COM1'	23:COM1'	23:COM1'	-
			-1.882	-20.177	-11.955	-19.319	-9.881	-47.820
			25:COM1'	29:COM1'	17:COM5	17:COM5	17:COM5	14:COM2
115	45	+ve	14.740	271.601	10.981	12.653	0.836	708.114
			19:COM7	19:COM7	19:COM7	19:COM7	23:COM1'	19:COM7
			-26.005	0.000	0.000	0.000	-13.123	-74.879
			29:COM1'	-	-	-	17:COM5	29:COM1'
	222	-ve	14.740	252.799	10.981	12.653	8.069	209.934
			19:COM7	19:COM7	19:COM7	19:COM7	19:COM7	19:COM7
			-26.005	0.000	0.000	0.000	0.000	-162.700
			29:COM1'	-	-	-	-	29:COM1'



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116	89	+ve	10.673	169.215	0.384	11.778	2.289	355.234
			27:COM1↓	14:COM2	27:COM1↓	23:COM1↑	19:COM7	14:COM2
			-10.883	0.000	-1.858	-12.697	-0.588	0.000
			21:COM9	-	21:COM9	17:COM5	29:COM1↓	-
	42	-ve	10.673	150.129	0.384	11.778	0.289	0.000
			27:COM1↓	14:COM2	27:COM1↓	23:COM1↑	27:COM1↓	-
			-10.883	0.000	-1.858	-12.697	-1.905	-4.032
			21:COM9	-	21:COM9	17:COM5	21:COM9	14:COM2
117	90	+ve	55.891	277.077	1.703	2.231	0.836	419.788
			19:COM7	14:COM2	15:COM3	15:COM3	23:COM1↑	19:COM7
			-7.791	0.000	-0.813	-1.120	-2.099	0.000
			29:COM1↓	-	25:COM1↓	25:COM1↓	17:COM5	-
	172	-ve	55.891	258.416	1.703	2.231	1.648	0.000
			19:COM7	14:COM2	15:COM3	15:COM3	15:COM3	-
			-7.791	0.000	-0.813	-1.120	-0.954	-187.596
			29:COM1↓	-	25:COM1↓	25:COM1↓	25:COM1↓	14:COM2
118	91	+ve	46.727	148.468	0.100	4.201	5.196	394.152
			15:COM3	19:COM7	23:COM1↑	15:COM3	15:COM3	14:COM2
			-6.012	0.000	-2.320	-4.362	-0.361	0.000
			25:COM1↓	-	17:COM5	25:COM1↓	25:COM1↓	-
	184	-ve	46.727	126.415	0.100	4.201	0.379	42.771
			15:COM3	19:COM7	23:COM1↑	15:COM3	27:COM1↓	14:COM2
			-6.012	0.000	-2.320	-4.362	-1.316	0.000
			25:COM1↓	-	17:COM5	25:COM1↓	21:COM9	-
119	92	+ve	36.907	424.182	5.635	1.726	3.915	723.747
			15:COM3	14:COM2	15:COM3	23:COM1↑	23:COM1↑	14:COM2
			0.000	0.000	-3.379	-4.538	-6.694	0.000
			-	-	25:COM1↓	17:COM5	17:COM5	-
	228	-ve	36.907	408.066	5.635	1.726	4.014	52.956
			15:COM3	14:COM2	15:COM3	23:COM1↑	15:COM3	27:COM1↓
			0.000	0.000	-3.379	-4.538	-2.506	-120.605
			-	-	25:COM1↓	17:COM5	25:COM1↓	21:COM9
120	55	+ve	0.867	71.562	0.000	0.000	0.000	33.251
			27:COM1↓	14:COM2	-	-	-	14:COM2
			-9.998	0.000	-3.750	-58.604	-2.343	0.000
			21:COM9	-	21:COM9	17:COM5	17:COM5	-
	44	-ve	0.867	67.108	0.000	0.000	0.000	2.138
			27:COM1↓	14:COM2	-	-	-	19:COM7
			-9.998	0.000	-3.750	-58.604	-3.914	0.000
			21:COM9	-	21:COM9	17:COM5	17:COM5	-
121	93	+ve	1.985	89.374	0.000	0.000	5.578	178.092
			27:COM1↓	14:COM2	-	-	15:COM3	14:COM2
			-11.116	0.000	-4.347	-58.604	0.000	0.000
			21:COM9	-	17:COM5	17:COM5	-	-
	55	-ve	1.985	71.562	0.000	0.000	0.000	33.251
			27:COM1↓	14:COM2	-	-	-	14:COM2
			-11.116	0.000	-4.347	-58.604	-2.343	0.000
			21:COM9	-	17:COM5	17:COM5	17:COM5	-



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122	56	+ve	28.187	203.231	0.612	0.000	1.332	302.821
			23:COM11	19:COM7	19:COM7	-	27:COM11	19:COM7
			-117.914	0.000	-0.972	-142.643	-0.976	-13.561
			17:COM5	-	29:COM11	14:COM2	21:COM9	29:COM11
	173	-ve	28.187	184.428	0.612	0.000	0.564	0.000
			23:COM11	19:COM7	19:COM7	-	15:COM3	-
			-117.914	0.000	-0.972	-142.643	-0.892	-143.651
			17:COM5	-	29:COM11	14:COM2	25:COM11	21:COM9
123	50	+ve	28.579	206.199	1.177	0.000	1.596	364.196
			23:COM11	19:COM7	15:COM3	-	27:COM11	19:COM7
			-118.306	0.000	-1.537	-142.643	-1.132	0.000
			17:COM5	-	25:COM11	14:COM2	21:COM9	-
	56	-ve	28.579	203.231	1.177	0.000	1.332	302.821
			23:COM11	19:COM7	15:COM3	-	27:COM11	19:COM7
			-118.306	0.000	-1.537	-142.643	-0.976	-13.561
			17:COM5	-	25:COM11	14:COM2	21:COM9	29:COM11
124	48	+ve	27.489	150.469	0.000	6.788	12.654	407.979
			23:COM11	19:COM7	-	23:COM11	15:COM3	19:COM7
			-139.985	-52.395	-7.646	-27.833	0.000	-226.144
			17:COM5	29:COM11	17:COM5	17:COM5	-	29:COM11
	179	-ve	27.489	124.740	0.000	6.788	0.000	52.412
			23:COM11	19:COM7	-	23:COM11	-	27:COM11
			-139.985	-71.692	-7.646	-27.833	-7.232	-67.035
			17:COM5	29:COM11	17:COM5	17:COM5	17:COM5	21:COM9
125	46	+ve	29.466	257.434	1.040	8.465	4.518	652.128
			19:COM7	19:COM7	23:COM11	19:COM7	15:COM3	19:COM7
			-16.249	0.000	-4.680	-1.426	-2.248	-63.559
			29:COM11	-	17:COM5	29:COM11	25:COM11	29:COM11
	223	-ve	29.466	238.631	1.040	8.465	0.000	180.867
			19:COM7	19:COM7	23:COM11	19:COM7	-	19:COM7
			-16.249	0.000	-4.680	-1.426	-4.478	-151.411
			29:COM11	-	17:COM5	29:COM11	17:COM5	29:COM11
126	92	+ve	0.000	150.635	0.736	83.733	2.982	123.235
			-	15:COM3	19:COM7	14:COM2	27:COM11	15:COM3
			-90.606	-37.101	-0.925	0.000	-1.909	-97.357
			17:COM5	25:COM11	29:COM11	-	21:COM9	25:COM11
	46	-ve	0.000	4.824	0.736	83.733	2.378	509.704
			-	23:COM11	19:COM7	14:COM2	19:COM7	15:COM3
			-90.606	-205.777	-0.925	0.000	-2.402	-230.314
			17:COM5	17:COM5	29:COM11	-	29:COM11	25:COM11
127	91	+ve	0.000	118.225	0.110	0.000	2.166	140.867
			-	15:COM3	23:COM11	-	15:COM3	15:COM3
			-63.066	-5.399	-0.729	-28.853	-0.297	-46.660
			17:COM5	25:COM11	17:COM5	21:COM9	25:COM11	25:COM11
	48	-ve	0.000	0.000	0.110	0.000	0.343	293.906
			-	-	23:COM11	-	23:COM11	15:COM3
			-63.066	-141.170	-0.729	-28.853	-2.064	-91.880
			17:COM5	17:COM5	17:COM5	21:COM9	17:COM5	25:COM11



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128	90	+ve	0.000	127.213	0.790	10.545	0.000	162.538
			-	15:COM3	15:COM3	14:COM2	-	15:COM3
			-20.164	0.000	0.000	0.000	-2.266	-9.240
			17:COM5	-	-	-	17:COM5	25:COM1;
	50	-ve	0.000	0.000	0.790	10.545	2.320	173.557
			-	-	15:COM3	14:COM2	15:COM3	15:COM3
			-20.164	-110.642	0.000	0.000	0.000	-83.164
			17:COM5	17:COM5	-	-	-	25:COM1;
130	89	+ve	0.000	175.000	0.470	6.379	2.730	251.612
			-	15:COM3	27:COM1;	27:COM1;	19:COM7	15:COM3
			-44.684	-7.431	-1.001	-14.770	-1.653	-86.108
			17:COM5	25:COM1;	21:COM9	21:COM9	29:COM1;	25:COM1;
	93	-ve	0.000	10.998	0.470	6.379	1.094	287.760
			-	23:COM1;	27:COM1;	27:COM1;	27:COM1;	15:COM3
			-44.684	-157.915	-1.001	-14.770	-3.093	-182.145
			17:COM5	17:COM5	21:COM9	21:COM9	21:COM9	25:COM1;
132	42	+ve	0.000	76.339	0.006	2.139	0.031	69.304
			-	14:COM2	27:COM1;	19:COM7	19:COM7	14:COM2
			-12.181	0.000	-0.008	0.000	-0.026	0.000
			21:COM9	-	21:COM9	-	29:COM1;	-
	44	-ve	0.000	0.000	0.006	2.139	0.017	58.604
			-	-	27:COM1;	19:COM7	27:COM1;	15:COM3
			-12.181	-67.107	-0.008	0.000	-0.023	0.000
			21:COM9	14:COM2	21:COM9	-	21:COM9	-
133	41	+ve	0.000	82.661	0.002	1.070	0.033	94.102
			-	14:COM2	27:COM1;	19:COM7	19:COM7	14:COM2
			-15.758	0.000	-0.011	-0.566	-0.011	0.000
			17:COM5	-	21:COM9	29:COM1;	29:COM1;	-
	43	-ve	0.000	0.000	0.002	1.070	0.003	65.693
			-	-	27:COM1;	19:COM7	27:COM1;	15:COM3
			-15.758	-60.785	-0.011	-0.566	-0.032	-18.365
			17:COM5	14:COM2	21:COM9	29:COM1;	21:COM9	25:COM1;
136	113	+ve	363.681	80.233	4.737	0.000	5.780	164.559
			19:COM7	19:COM7	15:COM3	-	23:COM1;	19:COM7
			-179.990	0.000	-1.383	-38.441	-26.656	-69.734
			29:COM1;	-	25:COM1;	21:COM9	17:COM5	29:COM1;
	110	-ve	363.681	0.000	4.737	0.000	19.355	253.984
			19:COM7	-	15:COM3	-	15:COM3	19:COM7
			-179.990	-98.825	-1.383	-38.441	-7.705	-10.992
			29:COM1;	21:COM9	25:COM1;	21:COM9	25:COM1;	29:COM1;
155	11	+ve	2.05E+3	144.600	182.626	19.604	227.940	233.821
			15:COM3	19:COM7	15:COM3	15:COM3	23:COM1;	19:COM7
			0.000	-129.226	-131.024	-11.864	-327.434	-292.597
			-	29:COM1;	25:COM1;	25:COM1;	17:COM5	29:COM1;
	28	-ve	1.99E+3	144.600	182.626	19.604	330.732	178.492
			15:COM3	19:COM7	15:COM3	15:COM3	15:COM3	27:COM1;
			0.000	-129.226	-131.024	-11.864	-244.455	-292.614
			-	29:COM1;	25:COM1;	25:COM1;	25:COM1;	21:COM9



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156	28	+ve	1.45E+3	142.319	88.564	15.526	199.013	81.695
			15:COM3	19:COM7	23:COM1	27:COM1	23:COM1	27:COM1
			0.000	-119.583	-150.178	-16.128	-220.250	-273.900
			-	29:COM1	17:COM5	21:COM9	17:COM5	21:COM9
	45	-ve	1.39E+3	142.319	88.564	15.526	113.589	219.178
			15:COM3	19:COM7	23:COM1	27:COM1	23:COM1	27:COM1
			0.000	-119.583	-150.178	-16.128	-356.635	-493.234
			-	29:COM1	17:COM5	21:COM9	17:COM5	21:COM9
157	76	+ve	1.58E+3	146.526	26.067	2.682	95.761	260.796
			14:COM2	15:COM3	19:COM7	15:COM3	27:COM1	15:COM3
			0.000	-109.068	-46.216	-1.652	-46.588	-195.589
			-	25:COM1	29:COM1	25:COM1	21:COM9	25:COM1
	84	-ve	1.56E+3	146.526	26.067	2.682	47.324	197.056
			14:COM2	15:COM3	19:COM7	15:COM3	19:COM7	23:COM1
			0.000	-109.068	-46.216	-1.652	-70.685	-266.698
			-	25:COM1	29:COM1	25:COM1	29:COM1	17:COM5
158	84	+ve	802.445	137.308	79.465	2.086	30.660	244.049
			14:COM2	15:COM3	19:COM7	19:COM7	27:COM1	15:COM3
			0.000	-119.544	-10.625	-1.926	-95.574	-206.774
			-	25:COM1	29:COM1	29:COM1	21:COM9	25:COM1
	92	-ve	782.460	137.308	79.465	2.086	190.642	223.590
			14:COM2	15:COM3	19:COM7	19:COM7	19:COM7	23:COM1
			0.000	-119.544	-10.625	-1.926	-7.734	-250.266
			-	25:COM1	29:COM1	29:COM1	29:COM1	17:COM5
159	77	+ve	1.88E+3	176.205	64.565	8.794	497.401	345.650
			15:COM3	15:COM3	27:COM1	15:COM3	19:COM7	15:COM3
			0.000	-63.699	-203.241	-5.694	-99.531	-104.117
			-	25:COM1	21:COM9	25:COM1	29:COM1	25:COM1
	85	-ve	1.84E+3	176.205	64.565	8.794	134.459	125.274
			15:COM3	15:COM3	27:COM1	15:COM3	27:COM1	23:COM1
			0.000	-63.699	-203.241	-5.694	-235.821	-288.764
			-	25:COM1	21:COM9	25:COM1	21:COM9	17:COM5
160	85	+ve	1.38E+3	113.648	50.370	9.365	187.482	203.619
			19:COM7	15:COM3	27:COM1	15:COM3	19:COM7	15:COM3
			0.000	-78.975	-125.016	-5.998	-57.096	-132.143
			-	25:COM1	21:COM9	25:COM1	29:COM1	25:COM1
	93	-ve	1.34E+3	113.648	50.370	9.365	130.696	152.635
			19:COM7	15:COM3	27:COM1	15:COM3	27:COM1	23:COM1
			0.000	-78.975	-125.016	-5.998	-269.036	-205.981
			-	25:COM1	21:COM9	25:COM1	21:COM9	17:COM5
161	73	+ve	1.41E+3	151.814	71.514	8.890	274.579	270.745
			14:COM2	23:COM1	27:COM1	15:COM3	19:COM7	23:COM1
			0.000	-149.743	-111.049	-5.555	-129.979	-271.575
			-	17:COM5	21:COM9	25:COM1	29:COM1	17:COM5
	81	-ve	1.37E+3	151.814	71.514	8.890	129.770	267.542
			14:COM2	23:COM1	27:COM1	15:COM3	27:COM1	15:COM3
			0.000	-149.743	-111.049	-5.555	-127.497	-275.827
			-	17:COM5	21:COM9	25:COM1	21:COM9	25:COM1

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	By	Date 19-Apr-18	Chd
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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
162	81	+ve	760.722	164.041	36.802	9.340	180.312	276.377
			14:COM2	23:COM1'	27:COM1'	15:COM3	19:COM7	23:COM1'
			0.000	-173.750	-126.143	-5.776	-34.036	-285.529
	89	-ve	-	17:COM5	21:COM9	25:COM1'	29:COM1'	17:COM5
			720.008	164.041	36.802	9.340	104.031	339.978
			14:COM2	23:COM1'	27:COM1'	15:COM3	27:COM1'	15:COM3
163	17	+ve	0.000	-173.750	-126.143	-5.776	-279.383	-314.178
			-	17:COM5	21:COM9	25:COM1'	21:COM9	25:COM1'
			1.67E+3	73.379	88.763	9.003	373.727	123.432
	34	-ve	15:COM3	23:COM1'	27:COM1'	15:COM3	19:COM7	23:COM1'
			0.000	-133.304	-153.033	-5.476	-139.323	-243.156
			-	17:COM5	21:COM9	25:COM1'	29:COM1'	17:COM5
164	34	+ve	1.63E+3	73.379	88.763	9.003	184.976	236.797
			15:COM3	23:COM1'	27:COM1'	15:COM3	19:COM7	15:COM3
			0.000	-133.304	-153.033	-5.476	-181.944	-140.790
	51	-ve	-	17:COM5	21:COM9	25:COM1'	29:COM1'	25:COM1'
			1.26E+3	91.427	97.189	9.691	170.038	143.209
			19:COM7	15:COM3	27:COM1'	15:COM3	19:COM7	23:COM1'
165	15	+ve	0.000	-60.859	-108.084	-5.674	-135.755	-141.525
			-	25:COM1'	21:COM9	25:COM1'	29:COM1'	17:COM5
			1.22E+3	91.427	97.189	9.691	217.831	81.169
	32	-ve	19:COM7	15:COM3	27:COM1'	15:COM3	27:COM1'	23:COM1'
			0.000	-60.859	-108.084	-5.674	-222.767	-189.532
			-	25:COM1'	21:COM9	25:COM1'	21:COM9	17:COM5
166	15	+ve	1.66E+3	330.426	114.198	8.620	140.051	652.159
			15:COM3	19:COM7	15:COM3	15:COM3	23:COM1'	19:COM7
			0.000	-115.291	-74.674	-5.787	-225.476	-197.072
	32	-ve	-	29:COM1'	25:COM1'	25:COM1'	17:COM5	29:COM1'
			1.62E+3	330.426	114.198	8.620	187.296	217.988
			15:COM3	19:COM7	15:COM3	15:COM3	15:COM3	27:COM1'
167	32	+ve	0.000	-115.291	-74.674	-5.787	-130.434	-537.389
			-	29:COM1'	25:COM1'	25:COM1'	25:COM1'	21:COM9
			1.32E+3	202.484	61.699	10.641	61.481	356.619
	49	-ve	15:COM3	19:COM7	15:COM3	15:COM3	23:COM1'	19:COM7
			0.000	-99.685	-18.658	-5.819	-120.095	-205.836
			-	29:COM1'	25:COM1'	25:COM1'	17:COM5	29:COM1'
168	49	+ve	1.28E+3	202.484	61.699	10.641	131.185	153.202
			15:COM3	19:COM7	15:COM3	15:COM3	15:COM3	27:COM1'
			0.000	-99.685	-18.658	-5.819	-34.854	-372.494
	58	-ve	-	29:COM1'	25:COM1'	25:COM1'	25:COM1'	21:COM9
			944.216	131.929	132.248	13.774	173.734	222.425
			15:COM3	19:COM7	23:COM1'	19:COM7	23:COM1'	19:COM7
169	58	+ve	0.000	-81.599	-141.402	0.000	-167.588	-108.787
			-	29:COM1'	17:COM5	-	17:COM5	29:COM1'
			902.936	131.929	132.248	13.774	323.615	189.357
	58	-ve	15:COM3	19:COM7	23:COM1'	19:COM7	23:COM1'	27:COM1'
			0.000	-81.599	-141.402	0.000	-350.879	-259.423
			-	29:COM1'	17:COM5	-	17:COM5	21:COM9

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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
168	13	+ve	1.69E+3	170.323	114.952	9.070	149.646	294.821
			15:COM3	27:COM1!	15:COM3	15:COM3	23:COM1'	27:COM1!
			0.000	-229.030	-79.533	-5.631	-225.539	-474.563
	30	-ve	-	21:COM9	25:COM1!	25:COM1!	17:COM5	21:COM9
			1.65E+3	170.323	114.952	9.070	190.076	349.960
			15:COM3	27:COM1!	15:COM3	15:COM3	15:COM3	19:COM7
			0.000	-229.030	-79.533	-5.631	-138.460	-318.355
			-	21:COM9	25:COM1!	25:COM1!	25:COM1!	29:COM1!
169	30	+ve	1.29E+3	109.167	61.415	6.534	63.788	221.099
			15:COM3	27:COM1!	15:COM3	19:COM7	23:COM1'	27:COM1!
			0.000	-176.065	-23.000	-5.699	-128.032	-311.172
	47	-ve	-	21:COM9	25:COM1!	29:COM1!	17:COM5	21:COM9
			1.25E+3	109.167	61.415	6.534	119.168	322.836
			15:COM3	27:COM1!	15:COM3	19:COM7	15:COM3	19:COM7
			0.000	-176.065	-23.000	-5.699	-45.115	-172.079
			-	21:COM9	25:COM1!	29:COM1!	25:COM1!	29:COM1!
170	47	+ve	862.662	80.736	172.524	2.195	147.736	91.575
			15:COM3	27:COM1!	15:COM3	27:COM1!	23:COM1'	27:COM1!
			0.000	-127.899	-125.403	-7.589	-200.209	-242.042
	61	-ve	-	21:COM9	25:COM1!	21:COM9	17:COM5	21:COM9
			821.382	80.744	172.524	2.195	432.629	224.991
			15:COM3	27:COM1!	15:COM3	27:COM1!	15:COM3	19:COM7
			0.000	-127.889	-125.403	-7.589	-313.109	-203.347
			-	21:COM9	25:COM1!	21:COM9	25:COM1!	29:COM1!
171	80	+ve	2.64E+3	190.355	179.383	19.188	297.850	265.882
			19:COM7	19:COM7	15:COM3	15:COM3	15:COM3	19:COM7
			0.000	-131.909	-155.388	-12.156	-306.787	-292.211
	88	-ve	-	29:COM1!	25:COM1!	25:COM1!	25:COM1!	29:COM1!
			2.58E+3	190.355	179.383	19.188	341.512	187.442
			19:COM7	19:COM7	15:COM3	15:COM3	15:COM3	27:COM1!
			0.000	-131.909	-155.388	-12.156	-264.068	-424.178
			-	29:COM1!	25:COM1!	25:COM1!	25:COM1!	21:COM9
172	88	+ve	1.56E+3	207.974	172.965	15.990	175.710	230.617
			19:COM7	19:COM7	15:COM3	19:COM7	23:COM1'	19:COM7
			0.000	-93.342	-126.110	-13.184	-327.786	-141.513
	46	-ve	-	29:COM1!	25:COM1!	29:COM1!	17:COM5	29:COM1!
			1.5E+3	207.974	172.965	15.990	302.255	214.687
			19:COM7	19:COM7	15:COM3	19:COM7	23:COM1'	27:COM1!
			0.000	-93.342	-126.110	-13.184	-285.650	-538.259
			-	29:COM1!	25:COM1!	29:COM1!	17:COM5	21:COM9
173	75	+ve	1.36E+3	100.889	53.592	2.786	265.798	188.821
			14:COM2	15:COM3	27:COM1!	15:COM3	19:COM7	15:COM3
			0.000	-79.104	-136.066	-1.698	-99.661	-150.922
	83	-ve	-	25:COM1!	21:COM9	25:COM1!	29:COM1!	25:COM1!
			1.34E+3	100.889	53.592	2.786	93.279	133.861
			14:COM2	15:COM3	27:COM1!	15:COM3	27:COM1!	23:COM1'
			0.000	-79.104	-136.066	-1.698	-224.048	-174.390
			-	25:COM1!	21:COM9	25:COM1!	21:COM9	17:COM5



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
174	83	+ve	785.146	102.130	35.055	1.971	251.486	172.358
			14:COM2	15:COM3	27:COM1!	27:COM1!	19:COM7	15:COM3
			0.000	-78.425	-154.939	-1.841	-62.060	-130.654
			-	25:COM1!	21:COM9	21:COM9	29:COM1!	25:COM1!
	91	-ve	765.160	102.130	35.055	1.971	64.152	151.679
			14:COM2	15:COM3	27:COM1!	27:COM1!	27:COM1!	23:COM1!
			0.000	-78.425	-154.939	-1.841	-306.306	-195.313
			-	25:COM1!	21:COM9	21:COM9	21:COM9	17:COM5
175	79	+ve	2.06E+3	76.672	160.825	9.196	732.074	167.334
			15:COM3	15:COM3	27:COM1!	15:COM3	19:COM7	15:COM3
			0.000	-96.641	-353.336	-5.670	-281.679	-175.041
			-	25:COM1!	21:COM9	25:COM1!	29:COM1!	25:COM1!
	87	-ve	2.02E+3	76.672	160.825	9.196	297.647	174.642
			15:COM3	15:COM3	27:COM1!	15:COM3	27:COM1!	15:COM3
			0.000	-96.641	-353.336	-5.670	-540.290	-110.461
			-	25:COM1!	21:COM9	25:COM1!	21:COM9	25:COM1!
176	87	+ve	1.28E+3	17.136	145.734	6.941	450.031	37.975
			15:COM3	23:COM1!	27:COM1!	19:COM7	19:COM7	23:COM1!
			0.000	-74.819	-249.954	-6.144	-214.422	-145.735
			-	17:COM5	21:COM9	29:COM1!	29:COM1!	17:COM5
	48	-ve	1.23E+3	17.136	145.734	6.941	311.693	126.606
			15:COM3	23:COM1!	27:COM1!	19:COM7	27:COM1!	15:COM3
			0.000	-74.819	-249.954	-6.144	-451.277	-26.706
			-	17:COM5	21:COM9	29:COM1!	21:COM9	25:COM1!
178	50	+ve	760.970	136.079	99.845	0.688	84.906	205.262
			15:COM3	15:COM3	19:COM7	27:COM1!	27:COM1!	15:COM3
			0.000	0.000	-46.857	-4.564	-185.499	0.000
			-	-	29:COM1!	21:COM9	21:COM9	-
	60	-ve	740.706	136.079	99.845	0.688	178.967	0.000
			15:COM3	15:COM3	19:COM7	27:COM1!	19:COM7	-
			0.000	0.000	-46.857	-4.564	-86.153	-291.496
			-	-	29:COM1!	21:COM9	29:COM1!	17:COM5
179	78	+ve	1.65E+3	98.872	268.534	4.044	152.202	200.330
			15:COM3	15:COM3	19:COM7	15:COM3	27:COM1!	15:COM3
			0.000	-53.175	-91.273	-2.393	-522.054	-95.445
			-	25:COM1!	29:COM1!	25:COM1!	21:COM9	25:COM1!
	86	-ve	1.62E+3	98.872	268.534	4.044	444.667	96.027
			15:COM3	15:COM3	19:COM7	15:COM3	19:COM7	23:COM1!
			0.000	-53.175	-91.273	-2.393	-176.381	-155.652
			-	25:COM1!	29:COM1!	25:COM1!	29:COM1!	17:COM5
180	86	+ve	1.14E+3	42.675	121.626	2.936	124.526	72.683
			15:COM3	15:COM3	19:COM7	15:COM3	27:COM1!	15:COM3
			0.000	-27.836	-70.715	-1.730	-207.599	-50.714
			-	25:COM1!	29:COM1!	25:COM1!	21:COM9	25:COM1!
	50	-ve	1.12E+3	42.675	121.626	2.936	230.258	49.859
			15:COM3	15:COM3	19:COM7	15:COM3	19:COM7	23:COM1!
			0.000	-27.836	-70.715	-1.730	-130.051	-81.313
			-	25:COM1!	29:COM1!	25:COM1!	29:COM1!	17:COM5



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Date/Time 07-Nov-2018 11:41

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
181	74	+ve	1.11E+3	86.229	171.628	2.727	77.258	161.062
			14:COM2	15:COM3	19:COM7	15:COM3	27:COM1!	15:COM3
			0.000	-75.313	-41.522	-1.712	-331.138	-143.499
			-	25:COM1!	29:COM1!	25:COM1!	21:COM9	25:COM1!
	82	-ve	1.09E+3	86.229	171.628	2.727	286.732	127.637
			14:COM2	15:COM3	19:COM7	15:COM3	19:COM7	23:COM1!
			0.000	-75.313	-41.522	-1.712	-72.231	-149.374
			-	25:COM1!	29:COM1!	25:COM1!	29:COM1!	17:COM5
182	82	+ve	608.632	87.024	150.422	2.994	76.703	148.112
			14:COM2	15:COM3	19:COM7	15:COM3	27:COM1!	15:COM3
			0.000	-74.484	-44.457	-1.703	-248.564	-124.197
			-	25:COM1!	29:COM1!	25:COM1!	21:COM9	25:COM1!
	90	-ve	588.647	87.024	150.422	2.994	292.960	143.946
			14:COM2	15:COM3	19:COM7	15:COM3	19:COM7	23:COM1!
			0.000	-74.484	-44.457	-1.703	-83.348	-165.176
			-	25:COM1!	29:COM1!	25:COM1!	29:COM1!	17:COM5
187	46	+ve	1.01E+3	177.569	0.000	17.319	297.234	178.896
			19:COM7	19:COM7	-	19:COM7	15:COM3	19:COM7
			0.000	-114.033	-156.726	-5.782	0.000	-49.555
			-	29:COM1!	17:COM5	29:COM1!	-	29:COM1!
	110	-ve	948.229	177.569	0.000	17.319	0.000	465.260
			19:COM7	19:COM7	-	19:COM7	-	27:COM1!
			0.000	-114.033	-156.726	-5.782	-278.411	-567.827
			-	29:COM1!	17:COM5	29:COM1!	17:COM5	21:COM9
188	45	+ve	884.359	108.128	365.294	50.014	0.000	236.332
			19:COM7	19:COM7	15:COM3	23:COM1!	-	19:COM7
			0.000	-75.952	0.000	-61.636	-629.645	-15.821
			-	29:COM1!	-	17:COM5	17:COM5	29:COM1!
	109	-ve	822.439	108.128	365.294	50.014	705.008	338.955
			19:COM7	19:COM7	15:COM3	23:COM1!	15:COM3	19:COM7
			0.000	-75.952	0.000	-61.636	0.000	-235.884
			-	29:COM1!	-	17:COM5	-	29:COM1!
193	93	+ve	918.068	122.003	79.009	3.557	126.977	273.578
			19:COM7	15:COM3	27:COM1!	23:COM1!	19:COM7	15:COM3
			0.000	0.000	-114.020	-13.227	-38.316	0.000
			-	-	21:COM9	17:COM5	29:COM1!	-
	112	-ve	876.788	122.003	79.009	3.557	263.023	0.000
			19:COM7	15:COM3	27:COM1!	23:COM1!	27:COM1!	-
			0.000	0.000	-114.020	-13.227	-302.153	-172.222
			-	-	21:COM9	17:COM5	21:COM9	17:COM5
194	51	+ve	795.478	0.000	94.424	21.908	188.289	0.000
			19:COM7	-	27:COM1!	27:COM1!	19:COM7	-
			0.000	-282.386	-88.666	-22.581	-71.588	-482.789
			-	17:COM5	21:COM9	21:COM9	29:COM1!	17:COM5
	111	-ve	754.198	0.000	94.424	21.908	316.397	548.063
			19:COM7	-	27:COM1!	27:COM1!	19:COM7	15:COM3
			0.000	-282.386	-88.666	-22.581	-178.680	0.000
			-	17:COM5	21:COM9	21:COM9	29:COM1!	-



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
195	113	+ve	193.314	130.138	4.868	0.000	14.693	314.457
			19:COM7	19:COM7	23:COM1'	-	23:COM1'	19:COM7
			0.000	-16.052	-23.026	-31.940	-17.091	-74.970
			-	29:COM1'	17:COM5	17:COM5	17:COM5	29:COM1'
	69	-ve	193.314	60.447	4.868	0.000	3.025	83.839
			19:COM7	19:COM7	23:COM1'	-	23:COM1'	19:COM7
			0.000	-62.800	-23.026	-31.940	-77.146	-65.025
			-	29:COM1'	17:COM5	17:COM5	17:COM5	29:COM1'
196	48	+ve	854.822	257.229	101.530	18.075	327.081	319.371
			15:COM3	15:COM3	27:COM1'	19:COM7	19:COM7	15:COM3
			0.000	0.000	-224.465	0.000	-129.170	0.000
			-	-	21:COM9	-	29:COM1'	-
	113	-ve	813.542	257.229	101.530	18.075	242.685	0.000
			15:COM3	15:COM3	27:COM1'	19:COM7	27:COM1'	-
			0.000	0.000	-224.465	0.000	-493.487	-620.380
			-	-	21:COM9	-	21:COM9	17:COM5
197	110	+ve	820.259	88.200	0.000	22.249	1.470	436.728
			19:COM7	27:COM1'	-	15:COM3	23:COM1'	19:COM7
			0.000	-208.355	-133.435	0.000	-240.422	-356.820
			-	21:COM9	17:COM5	-	17:COM5	29:COM1'
	115	-ve	772.752	88.200	0.000	22.249	0.000	284.030
			19:COM7	27:COM1'	-	15:COM3	-	15:COM3
			0.000	-208.355	-133.435	0.000	-611.331	0.000
			-	21:COM9	17:COM5	-	17:COM5	-
198	115	+ve	0.000	165.497	8.737	36.777	0.000	369.608
			-	14:COM2	15:COM3	15:COM3	-	14:COM2
			-77.414	0.000	0.000	0.000	-22.866	0.000
			14:COM2	-	-	-	14:COM2	-
	72	-ve	0.000	132.191	8.737	36.777	0.303	31.013
			-	14:COM2	15:COM3	15:COM3	23:COM1'	15:COM3
			-87.030	0.000	0.000	0.000	-3.889	-2.113
			14:COM2	-	-	-	17:COM5	25:COM1'
199	112	+ve	762.187	105.640	163.197	0.000	239.255	0.000
			19:COM7	15:COM3	19:COM7	-	19:COM7	-
			0.000	0.000	-25.040	-13.502	-157.654	-123.934
			-	-	29:COM1'	17:COM5	29:COM1'	17:COM5
	118	-ve	730.366	105.640	163.197	0.000	315.209	0.000
			19:COM7	15:COM3	19:COM7	-	19:COM7	-
			0.000	0.000	-25.040	-13.502	0.000	-420.088
			-	-	29:COM1'	17:COM5	-	17:COM5
200	118	+ve	0.000	105.812	0.000	8.819	0.000	250.859
			-	14:COM2	-	14:COM2	-	14:COM2
			-356.123	0.000	-4.926	0.000	-10.304	0.000
			21:COM9	-	17:COM5	-	17:COM5	-
	350	-ve	0.000	87.308	0.000	8.819	0.000	125.423
			-	14:COM2	-	14:COM2	-	14:COM2
			-351.285	0.000	-4.926	0.000	-14.270	0.000
			21:COM9	-	17:COM5	-	14:COM2	-



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
201	111	+ve	586.846	0.000	0.000	0.000	118.899	396.818
			14:COM2	-	-	-	19:COM7	15:COM3
			0.000	-219.730	-361.390	-75.700	0.000	0.000
			-	17:COM5	21:COM9	21:COM9	-	-
	122	-ve	579.650	0.000	0.000	0.000	38.847	536.370
			14:COM2	-	-	-	27:COM1	15:COM3
			0.000	-219.730	-361.390	-75.700	-177.117	0.000
			-	17:COM5	21:COM9	21:COM9	21:COM9	-
202	58	+ve	625.484	6.868	357.748	17.395	0.000	35.586
			15:COM3	23:COM1	15:COM3	19:COM7	-	27:COM1
			0.000	-4.640	0.000	-0.106	-684.470	-28.050
			-	17:COM5	-	29:COM1	17:COM5	21:COM9
	121	-ve	590.144	6.868	357.748	17.395	569.935	39.572
			15:COM3	23:COM1	15:COM3	19:COM7	15:COM3	19:COM7
			0.000	-4.640	0.000	-0.106	0.000	-38.999
			-	17:COM5	-	29:COM1	-	29:COM1
203	121	+ve	0.000	80.457	14.532	0.000	5.774	124.370
			-	15:COM3	15:COM3	-	15:COM3	15:COM3
			-69.752	0.000	-0.575	-62.663	-4.122	0.000
			17:COM5	-	25:COM1	17:COM5	25:COM1	-
	67	-ve	0.000	64.719	14.532	0.000	13.851	43.618
			-	15:COM3	15:COM3	-	15:COM3	14:COM2
			-74.203	0.000	-0.575	-62.663	0.000	0.000
			17:COM5	-	25:COM1	17:COM5	-	-
204	122	+ve	53.763	155.286	24.196	0.311	5.117	292.273
			27:COM1	14:COM2	19:COM7	23:COM1	19:COM7	19:COM7
			-96.332	0.000	0.000	-37.166	0.000	0.000
			21:COM9	-	-	17:COM5	-	-
	353	-ve	52.134	145.664	24.196	0.311	21.241	192.360
			27:COM1	14:COM2	19:COM7	23:COM1	19:COM7	19:COM7
			-98.847	0.000	0.000	-37.166	0.000	0.000
			21:COM9	-	-	17:COM5	-	-
205	61	+ve	539.614	0.000	270.332	1.219	86.849	0.000
			15:COM3	-	15:COM3	27:COM1	23:COM1	-
			0.000	-69.747	0.000	-14.521	-604.794	-80.580
			-	21:COM9	-	21:COM9	17:COM5	21:COM9
	70	-ve	500.596	0.000	270.332	1.219	391.073	198.979
			15:COM3	-	15:COM3	27:COM1	14:COM2	19:COM7
			0.000	-69.751	0.000	-14.521	0.000	0.000
			-	21:COM9	-	21:COM9	-	-
206	109	+ve	665.766	446.925	270.465	87.093	548.517	162.857
			14:COM2	19:COM7	15:COM3	19:COM7	15:COM3	19:COM7
			0.000	0.000	0.000	-2.481	0.000	-8.658
			-	-	-	29:COM1	-	29:COM1
	124	-ve	654.746	446.927	270.465	87.093	723.412	32.294
			14:COM2	19:COM7	15:COM3	19:COM7	15:COM3	27:COM1
			0.000	0.000	0.000	-2.481	0.000	-263.369
			-	-	-	29:COM1	-	21:COM9



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207	124	+ve	0.000	52.086	0.000	0.000	11.116	81.771
			-	14:COM2	-	-	19:COM7	19:COM7
			-145.514	0.000	-8.254	-25.372	0.000	0.000
			17:COM5	-	21:COM9	14:COM2	-	-
	63	-ve	0.000	20.919	0.000	0.000	0.000	4.000
			-	19:COM7	-	-	-	23:COM1'
			-136.624	0.000	-8.254	-25.372	-8.847	-5.790
			17:COM5	-	21:COM9	14:COM2	17:COM5	17:COM5
208	124	+ve	203.046	231.402	0.000	86.917	109.367	625.990
			15:COM3	15:COM3	-	19:COM7	15:COM3	15:COM3
			0.000	0.000	-47.817	0.000	0.000	0.000
			-	-	21:COM9	-	-	-
	310	-ve	195.332	205.465	0.000	86.917	20.950	128.304
			15:COM3	15:COM3	-	19:COM7	23:COM1'	15:COM3
			0.000	0.000	-47.817	0.000	-36.531	-129.327
			-	-	21:COM9	-	17:COM5	25:COM1'
209	122	+ve	169.271	211.951	35.185	0.000	0.000	474.182
			15:COM3	15:COM3	14:COM2	-	-	15:COM3
			0.000	0.000	0.000	-87.982	-76.612	0.000
			-	-	-	21:COM9	17:COM5	-
	361	-ve	161.715	186.546	35.185	0.000	34.355	51.915
			15:COM3	15:COM3	14:COM2	-	15:COM3	23:COM1'
			0.000	0.000	0.000	-87.982	-9.878	-154.033
			-	-	-	21:COM9	25:COM1'	17:COM5
210	131	+ve	248.806	37.454	16.708	35.730	0.000	0.000
			14:COM2	19:COM7	19:COM7	19:COM7	-	-
			0.000	0.000	0.000	0.000	-10.523	-15.175
			-	-	-	-	21:COM9	21:COM9
	304	-ve	248.806	31.403	16.708	35.730	9.342	0.000
			14:COM2	19:COM7	19:COM7	19:COM7	19:COM7	-
			0.000	0.000	0.000	0.000	0.000	-45.230
			-	-	-	-	-	21:COM9
211	132	+ve	280.892	23.470	0.000	0.000	8.928	0.000
			14:COM2	19:COM7	-	-	19:COM7	-
			0.000	0.000	-12.654	-36.100	0.000	-20.325
			-	-	21:COM9	14:COM2	-	21:COM9
	355	-ve	280.892	16.808	0.000	0.000	0.000	0.000
			14:COM2	19:COM7	-	-	-	-
			0.000	0.000	-12.654	-36.100	-7.636	-41.583
			-	-	21:COM9	14:COM2	21:COM9	21:COM9
212	131	+ve	122.355	0.000	0.000	0.000	68.465	0.000
			19:COM7	-	-	-	15:COM3	-
			0.000	-247.173	-71.690	-128.772	0.000	-293.289
			-	17:COM5	17:COM5	17:COM5	-	17:COM5
	311	-ve	126.461	0.000	0.000	0.000	12.532	136.432
			19:COM7	-	-	-	23:COM1'	15:COM3
			0.000	-260.979	-71.690	-128.772	-35.140	-86.952
			-	17:COM5	17:COM5	17:COM5	17:COM5	25:COM1'



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213	132	+ve	97.188	0.000	65.040	134.662	0.000	0.000
			19:COM7	-	15:COM3	15:COM3	-	-
			0.000	-192.705	0.000	0.000	-73.488	-312.412
			-	17:COM5	-	-	14:COM2	17:COM5
	366	-ve	100.556	0.000	65.040	134.662	4.698	4.802
			19:COM7	-	15:COM3	15:COM3	23:COM1'	23:COM1'
			0.000	-204.029	0.000	0.000	-24.005	-153.232
			-	17:COM5	-	-	17:COM5	17:COM5
214	60	+ve	521.318	586.286	89.238	0.000	42.048	14.925
			14:COM2	15:COM3	19:COM7	-	14:COM2	23:COM1'
			0.000	0.000	-43.570	-70.939	0.000	-7.025
			-	-	29:COM1'	17:COM5	-	17:COM5
	134	-ve	519.513	586.286	89.238	0.000	64.289	0.000
			14:COM2	15:COM3	19:COM7	-	19:COM7	-
			0.000	0.000	-43.570	-70.939	0.000	-195.969
			-	-	29:COM1'	17:COM5	-	17:COM5
215	134	+ve	123.565	77.041	17.983	5.992	0.000	86.587
			19:COM7	19:COM7	15:COM3	15:COM3	-	19:COM7
			-79.400	0.000	0.000	-0.003	-6.826	0.000
			29:COM1'	-	-	25:COM1'	17:COM5	-
	69	-ve	128.015	61.303	17.983	5.992	15.106	28.634
			19:COM7	19:COM7	15:COM3	15:COM3	14:COM2	27:COM1'
			-76.516	0.000	0.000	-0.003	0.000	-29.617
			29:COM1'	-	-	25:COM1'	-	21:COM9
216	121	+ve	182.026	333.163	40.658	24.385	0.000	483.495
			15:COM3	15:COM3	15:COM3	15:COM3	-	15:COM3
			0.000	0.000	0.000	0.000	-36.047	0.000
			-	-	-	-	17:COM5	-
	137	-ve	180.095	326.671	40.658	24.385	10.446	123.881
			15:COM3	15:COM3	15:COM3	15:COM3	19:COM7	19:COM7
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
217	137	+ve	86.901	54.913	2.356	4.159	0.000	31.625
			15:COM3	14:COM2	15:COM3	19:COM7	-	14:COM2
			0.000	0.000	0.000	0.000	-2.193	0.000
			-	-	-	-	17:COM5	-
	67	-ve	86.901	46.837	2.356	4.159	1.589	0.000
			15:COM3	14:COM2	15:COM3	19:COM7	19:COM7	-
			0.000	0.000	0.000	0.000	0.000	-49.106
			-	-	-	-	-	14:COM2
218	137	+ve	34.639	100.978	4.458	22.880	4.400	136.385
			23:COM1'	14:COM2	19:COM7	14:COM2	19:COM7	14:COM2
			-56.874	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	365	-ve	36.144	94.234	4.458	22.880	8.461	24.019
			23:COM1'	14:COM2	19:COM7	14:COM2	15:COM3	15:COM3
			-54.869	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-

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271	138	+ve	0.697	0.000	1.934	13.921	0.740	51.181
			15:COM3	-	15:COM3	15:COM3	23:COM1	27:COM1
			-0.434	-235.808	-1.196	-10.298	-1.198	-260.240
			25:COM1	21:COM9	25:COM1	25:COM1	17:COM5	21:COM9
	17	-ve	0.697	0.000	1.934	13.921	3.058	605.586
			15:COM3	-	15:COM3	15:COM3	15:COM3	19:COM7
			-0.434	-319.613	-1.196	-10.298	-1.891	0.000
			25:COM1	21:COM9	25:COM1	25:COM1	25:COM1	-
273	140	+ve	29.839	6.811	2.208	10.798	0.000	128.510
			19:COM7	27:COM1	15:COM3	15:COM3	-	27:COM1
			0.000	-160.273	0.000	-10.233	-2.094	-251.001
			-	21:COM9	-	25:COM1	17:COM5	21:COM9
	34	-ve	29.839	0.000	2.208	10.798	2.843	474.246
			19:COM7	-	15:COM3	15:COM3	15:COM3	19:COM7
			0.000	-182.044	0.000	-10.233	0.000	-217.212
			-	21:COM9	-	25:COM1	-	29:COM1
275	142	+ve	21.807	1.111	0.000	3.388	5.116	119.031
			19:COM7	27:COM1	-	23:COM1	19:COM7	27:COM1
			-11.467	-199.557	-5.819	-21.338	0.000	-229.357
			29:COM1	21:COM9	21:COM9	17:COM5	-	21:COM9
	51	-ve	21.807	0.000	0.000	3.388	0.000	545.235
			19:COM7	-	-	23:COM1	-	19:COM7
			-11.467	-221.328	-5.819	-21.338	-8.120	-177.070
			29:COM1	21:COM9	21:COM9	17:COM5	17:COM5	29:COM1
277	144	+ve	0.716	0.000	0.979	5.487	0.432	40.861
			15:COM3	-	15:COM3	23:COM1	23:COM1	27:COM1
			-0.431	-283.142	-0.611	-5.718	-0.692	-205.044
			25:COM1	14:COM2	25:COM1	17:COM5	17:COM5	21:COM9
	73	-ve	0.716	0.000	0.979	5.487	1.462	572.460
			15:COM3	-	15:COM3	23:COM1	15:COM3	19:COM7
			-0.431	-301.802	-0.611	-5.718	-0.913	0.000
			25:COM1	14:COM2	25:COM1	17:COM5	25:COM1	-
278	145	+ve	0.454	0.000	2.520	144.287	0.694	53.105
			15:COM3	-	15:COM3	14:COM2	23:COM1	27:COM1
			-0.270	-306.819	-1.599	0.000	-1.092	-315.604
			25:COM1	21:COM9	25:COM1	-	17:COM5	21:COM9
	77	-ve	0.454	0.000	2.520	144.287	4.451	782.223
			15:COM3	-	15:COM3	14:COM2	15:COM3	19:COM7
			-0.270	-440.377	-1.599	0.000	-2.824	0.000
			25:COM1	14:COM2	25:COM1	-	25:COM1	-
279	146	+ve	1.360	0.000	0.756	1.644	0.725	56.513
			27:COM1	-	15:COM3	27:COM1	23:COM1	27:COM1
			-19.590	-228.994	-0.743	-1.617	-0.721	-188.723
			21:COM9	21:COM9	25:COM1	21:COM9	17:COM5	21:COM9
	81	-ve	1.360	0.000	0.756	1.644	0.942	561.690
			27:COM1	-	15:COM3	27:COM1	15:COM3	19:COM7
			-19.590	-260.600	-0.743	-1.617	-0.911	0.000
			21:COM9	21:COM9	25:COM1	21:COM9	25:COM1	-



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
280	147	+ve	46.763	0.000	0.000	100.306	1.987	112.433
			19:COM7	-	-	15:COM3	15:COM3	27:COM1
			-5.240	-199.894	-2.225	0.000	0.000	-233.354
			29:COM1	21:COM9	17:COM5	-	-	21:COM9
	85	-ve	46.763	0.000	0.000	100.306	0.000	576.334
			19:COM7	-	-	15:COM3	-	19:COM7
			-5.240	-247.555	-2.225	0.000	-3.026	-74.532
			29:COM1	21:COM9	17:COM5	-	21:COM9	29:COM1
281	148	+ve	42.857	0.000	2.820	2.231	5.053	44.475
			19:COM7	-	23:COM1	15:COM3	15:COM3	27:COM1
			0.000	-291.618	-5.563	-1.120	-2.773	-179.159
			-	14:COM2	17:COM5	25:COM1	25:COM1	21:COM9
	89	-ve	42.857	0.000	2.820	2.231	3.433	594.089
			19:COM7	-	23:COM1	15:COM3	23:COM1	19:COM7
			0.000	-310.279	-5.563	-1.120	-7.188	0.000
			-	14:COM2	17:COM5	25:COM1	17:COM5	-
282	149	+ve	26.376	0.000	1.531	145.921	1.450	96.934
			19:COM7	-	23:COM1	14:COM2	15:COM3	27:COM1
			-16.030	-201.345	-2.829	0.000	-1.656	-201.078
			29:COM1	21:COM9	17:COM5	-	25:COM1	21:COM9
	93	-ve	26.376	0.000	1.531	145.921	1.755	526.280
			19:COM7	-	23:COM1	14:COM2	23:COM1	19:COM7
			-16.030	-223.116	-2.829	0.000	-4.817	-60.371
			29:COM1	21:COM9	17:COM5	-	17:COM5	29:COM1
283	138	+ve	0.137	93.743	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.082	0.000	-0.000	0.000	0.000	0.000
			25:COM1	-	14:COM2	-	-	-
	144	-ve	0.137	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.082	-93.743	-0.000	0.000	0.000	0.000
			25:COM1	14:COM2	14:COM2	-	-	-
284	140	+ve	2.311	65.986	0.000	0.000	0.000	0.000
			14:COM2	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	146	-ve	2.311	0.000	0.000	0.000	0.000	0.000
			14:COM2	-	-	-	-	-
			0.000	-65.986	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
285	142	+ve	0.000	93.743	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-5.334	0.000	-0.000	0.000	0.000	0.000
			14:COM2	-	14:COM2	-	-	-
	148	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-5.334	-93.743	-0.000	0.000	0.000	0.000
			14:COM2	14:COM2	14:COM2	-	-	-



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
287	144	+ve	0.122	75.778	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	23:COM1'	-	-	-
			-0.188	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	17:COM5	-	-	-
	145	-ve	0.122	0.000	0.000	0.000	0.000	104.193
			23:COM1'	-	23:COM1'	-	23:COM1'	14:COM2
			-0.188	-111.706	-0.000	0.000	-0.000	0.000
			17:COM5	14:COM2	17:COM5	-	17:COM5	-
289	146	+ve	2.272	54.066	0.001	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	25:COM1'	-	-	-
	147	-ve	2.272	0.000	0.001	0.000	0.009	72.195
			15:COM3	-	15:COM3	-	15:COM3	15:COM3
			0.000	-77.905	-0.000	0.000	-0.003	0.000
			-	14:COM2	25:COM1'	-	25:COM1'	-
291	148	+ve	0.000	76.806	0.006	0.000	0.000	0.000
			-	14:COM2	15:COM3	-	-	-
			-4.019	0.000	-0.002	0.000	0.000	0.000
			17:COM5	-	25:COM1'	-	-	-
	149	-ve	0.000	0.000	0.006	0.000	0.036	98.228
			-	-	15:COM3	-	15:COM3	14:COM2
			-4.019	-110.678	-0.002	0.000	-0.013	0.000
			17:COM5	14:COM2	25:COM1'	-	25:COM1'	-
292	150	+ve	0.319	31.665	0.152	13.921	0.066	0.000
			15:COM3	27:COM1'	15:COM3	15:COM3	23:COM1'	-
			-0.222	-77.028	-0.093	-10.298	-0.108	-333.148
			25:COM1'	21:COM9	25:COM1'	25:COM1'	17:COM5	14:COM2
	138	-ve	0.319	0.000	0.152	13.921	0.226	51.181
			15:COM3	-	15:COM3	15:COM3	15:COM3	27:COM1'
			-0.222	-160.833	-0.093	-10.298	-0.138	-260.240
			25:COM1'	21:COM9	25:COM1'	25:COM1'	25:COM1'	21:COM9
294	152	+ve	20.791	55.907	0.521	10.798	0.257	0.000
			19:COM7	27:COM1'	19:COM7	15:COM3	27:COM1'	-
			0.000	-80.875	-0.169	-10.233	-0.670	-166.890
			-	21:COM9	29:COM1'	25:COM1'	21:COM9	21:COM9
	140	-ve	20.791	39.579	0.521	10.798	0.529	128.510
			19:COM7	27:COM1'	19:COM7	15:COM3	19:COM7	27:COM1'
			0.000	-102.646	-0.169	-10.233	-0.167	-251.001
			-	21:COM9	29:COM1'	25:COM1'	29:COM1'	21:COM9
296	154	+ve	42.474	50.207	1.508	3.388	0.914	0.000
			19:COM7	27:COM1'	19:COM7	23:COM1'	27:COM1'	-
			0.000	-102.812	-0.725	-21.338	-1.369	-214.958
			-	21:COM9	29:COM1'	17:COM5	21:COM9	14:COM2
	142	-ve	42.474	33.879	1.508	3.388	1.965	119.031
			19:COM7	27:COM1'	19:COM7	23:COM1'	19:COM7	27:COM1'
			0.000	-124.583	-0.725	-21.338	-0.697	-229.357
			-	21:COM9	29:COM1'	17:COM5	29:COM1'	21:COM9



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298	156	+ve	0.159	0.000	0.067	5.487	0.030	0.000
			15:COM3	-	15:COM3	23:COM1'	23:COM1'	-
			-0.130	-104.651	-0.041	-5.718	-0.048	-365.960
			25:COM1'	21:COM9	25:COM1'	17:COM5	17:COM5	14:COM2
	144	-ve	0.159	0.000	0.067	5.487	0.099	40.861
			15:COM3	-	15:COM3	23:COM1'	15:COM3	27:COM1'
			-0.130	-123.312	-0.041	-5.718	-0.061	-205.044
			25:COM1'	21:COM9	25:COM1'	17:COM5	25:COM1'	21:COM9
299	157	+ve	0.031	22.857	0.094	40.095	0.033	0.000
			23:COM1'	27:COM1'	15:COM3	14:COM2	23:COM1'	-
			-0.078	-94.117	-0.062	0.000	-0.050	-483.139
			17:COM5	21:COM9	25:COM1'	-	17:COM5	14:COM2
	145	-ve	0.031	0.000	0.094	40.095	0.158	53.105
			23:COM1'	-	15:COM3	14:COM2	15:COM3	27:COM1'
			-0.078	-216.885	-0.062	0.000	-0.104	-315.604
			17:COM5	21:COM9	25:COM1'	-	25:COM1'	21:COM9
300	158	+ve	0.000	4.307	0.359	1.644	0.314	0.000
			-	27:COM1'	15:COM3	27:COM1'	23:COM1'	-
			-12.406	-92.165	-0.283	-1.617	-0.404	-266.311
			21:COM9	21:COM9	25:COM1'	21:COM9	17:COM5	21:COM9
	146	-ve	0.000	0.000	0.359	1.644	0.396	56.513
			-	-	15:COM3	27:COM1'	15:COM3	27:COM1'
			-12.406	-123.771	-0.283	-1.617	-0.317	-188.723
			21:COM9	21:COM9	25:COM1'	21:COM9	25:COM1'	21:COM9
301	159	+ve	29.553	32.301	0.066	29.828	0.663	0.000
			19:COM7	27:COM1'	27:COM1'	14:COM2	19:COM7	-
			-0.878	-83.579	-0.521	0.000	-0.169	-243.816
			29:COM1'	21:COM9	21:COM9	-	29:COM1'	21:COM9
	147	-ve	29.553	0.000	0.066	29.828	0.028	112.433
			19:COM7	-	27:COM1'	14:COM2	27:COM1'	27:COM1'
			-0.878	-131.239	-0.521	0.000	-0.537	-233.354
			29:COM1'	21:COM9	21:COM9	-	21:COM9	21:COM9
302	160	+ve	30.325	0.000	0.567	2.231	3.225	0.000
			14:COM2	-	23:COM1'	15:COM3	15:COM3	-
			0.000	-108.596	-2.834	-1.120	-0.705	-360.543
			-	21:COM9	17:COM5	25:COM1'	25:COM1'	14:COM2
	148	-ve	30.325	0.000	0.567	2.231	0.544	44.475
			14:COM2	-	23:COM1'	15:COM3	23:COM1'	27:COM1'
			0.000	-127.256	-2.834	-1.120	-3.011	-179.159
			-	21:COM9	17:COM5	25:COM1'	17:COM5	21:COM9
303	161	+ve	21.634	15.729	0.974	47.694	0.573	0.000
			23:COM1'	27:COM1'	19:COM7	14:COM2	27:COM1'	-
			-35.876	-90.297	-0.656	0.000	-1.313	-253.355
			17:COM5	21:COM9	29:COM1'	-	21:COM9	21:COM9
	149	-ve	21.634	0.000	0.974	47.694	0.860	96.934
			23:COM1'	-	19:COM7	14:COM2	27:COM1'	27:COM1'
			-35.876	-112.068	-0.656	0.000	-0.900	-201.078
			17:COM5	21:COM9	29:COM1'	-	21:COM9	21:COM9



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
304	150	+ve	0.018	93.743	0.000	0.000	0.000	0.000
			23:COM11	14:COM2	-	-	-	-
			-0.021	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	156	-ve	0.018	0.000	0.000	0.000	0.000	0.000
			23:COM11	-	-	-	-	-
			-0.021	-93.743	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
305	152	+ve	1.330	65.986	0.000	0.000	0.000	0.000
			19:COM7	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	158	-ve	1.330	0.000	0.000	0.000	0.000	0.000
			19:COM7	-	-	-	-	-
			0.000	-65.986	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
306	154	+ve	0.000	93.743	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-2.827	0.000	-0.000	0.000	0.000	0.000
			21:COM9	-	14:COM2	-	-	-
	160	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-2.827	-93.743	-0.000	0.000	0.000	0.000
			21:COM9	14:COM2	14:COM2	-	-	-
308	156	+ve	0.005	76.140	0.000	0.000	0.000	0.000
			19:COM7	14:COM2	23:COM11	-	-	-
			-0.001	0.000	-0.000	0.000	0.000	0.000
			29:COM11	-	17:COM5	-	-	-
	157	-ve	0.005	0.000	0.000	0.000	0.000	102.093
			19:COM7	-	23:COM11	-	23:COM11	14:COM2
			-0.001	-111.344	-0.000	0.000	-0.000	0.000
			29:COM11	14:COM2	17:COM5	-	17:COM5	-
310	158	+ve	1.579	54.790	0.001	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			0.000	0.000	-0.001	0.000	0.000	0.000
			-	-	25:COM11	-	-	-
	159	-ve	1.579	0.000	0.001	0.000	0.008	67.764
			15:COM3	-	15:COM3	-	15:COM3	15:COM3
			0.000	-77.181	-0.001	0.000	-0.005	0.000
			-	14:COM2	25:COM11	-	25:COM11	-
312	160	+ve	0.000	77.941	0.007	0.000	0.000	0.000
			-	14:COM2	15:COM3	-	-	-
			-2.085	0.000	-0.001	0.000	0.000	0.000
			17:COM5	-	25:COM11	-	-	-
	161	-ve	0.000	0.000	0.007	0.000	0.043	91.648
			-	-	15:COM3	-	15:COM3	14:COM2
			-2.085	-109.544	-0.001	0.000	-0.007	0.000
			17:COM5	14:COM2	25:COM11	-	25:COM11	-



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
313	162	+ve	0.054	171.676	0.126	13.921	0.126	7.738
			23:COM11	19:COM7	15:COM3	15:COM3	23:COM11	27:COM11
			-0.111	0.000	-0.085	-10.298	-0.188	-179.362
			17:COM5	-	25:COM11	25:COM11	17:COM5	21:COM9
	150	-ve	0.054	87.870	0.126	13.921	0.089	0.000
			23:COM11	19:COM7	15:COM3	15:COM3	15:COM3	-
			-0.111	-25.491	-0.085	-10.298	-0.060	-333.148
			17:COM5	29:COM11	25:COM11	25:COM11	25:COM11	14:COM2
315	164	+ve	26.029	128.518	0.127	10.798	0.671	97.896
			19:COM7	19:COM7	27:COM11	15:COM3	19:COM7	27:COM11
			-5.724	-24.992	-0.578	-10.233	-0.101	-131.378
			29:COM11	29:COM11	21:COM9	25:COM11	29:COM11	21:COM9
	152	-ve	26.029	106.747	0.127	10.798	0.244	0.000
			19:COM7	19:COM7	27:COM11	15:COM3	27:COM11	-
			-5.724	-41.320	-0.578	-10.233	-0.668	-166.890
			29:COM11	29:COM11	21:COM9	25:COM11	21:COM9	21:COM9
317	166	+ve	65.655	125.564	1.888	3.388	0.633	100.418
			15:COM3	19:COM7	15:COM3	23:COM11	23:COM11	27:COM11
			0.000	-32.326	-0.349	-21.338	-1.994	-205.169
			-	29:COM11	25:COM11	17:COM5	17:COM5	21:COM9
	154	-ve	65.655	103.793	1.888	3.388	2.190	0.000
			15:COM3	19:COM7	15:COM3	23:COM11	15:COM3	-
			0.000	-48.655	-0.349	-21.338	-0.166	-214.958
			-	29:COM11	25:COM11	17:COM5	25:COM11	14:COM2
319	168	+ve	0.022	107.579	0.036	5.487	0.028	0.000
			23:COM11	19:COM7	15:COM3	23:COM11	23:COM11	-
			-0.081	0.000	-0.022	-5.718	-0.045	-180.589
			17:COM5	-	25:COM11	17:COM5	17:COM5	14:COM2
	156	-ve	0.022	88.918	0.036	5.487	0.034	0.000
			23:COM11	19:COM7	15:COM3	23:COM11	15:COM3	-
			-0.081	-2.085	-0.022	-5.718	-0.021	-365.960
			17:COM5	29:COM11	25:COM11	17:COM5	25:COM11	14:COM2
320	169	+ve	0.017	207.053	0.030	0.000	0.046	0.000
			23:COM11	19:COM7	15:COM3	-	23:COM11	-
			-0.056	0.000	-0.016	-61.998	-0.080	-244.873
			17:COM5	-	25:COM11	14:COM2	17:COM5	21:COM9
	157	-ve	0.017	84.285	0.030	0.000	0.010	0.000
			23:COM11	19:COM7	15:COM3	-	23:COM11	-
			-0.056	-27.893	-0.016	-61.998	-0.013	-483.139
			17:COM5	29:COM11	25:COM11	14:COM2	17:COM5	14:COM2
321	170	+ve	1.281	118.177	0.415	1.644	0.385	0.000
			27:COM11	19:COM7	23:COM11	27:COM11	15:COM3	-
			-9.155	0.000	-0.354	-1.617	-0.461	-149.718
			21:COM9	-	17:COM5	21:COM9	25:COM11	21:COM9
	158	-ve	1.281	86.571	0.415	1.644	0.461	0.000
			27:COM11	19:COM7	23:COM11	27:COM11	23:COM11	-
			-9.155	-9.015	-0.354	-1.617	-0.403	-266.311
			21:COM9	29:COM11	17:COM5	21:COM9	17:COM5	21:COM9



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322	171	+ve	22.093	133.669	0.496	0.000	0.227	20.016
			15:COM3	19:COM7	19:COM7	-	27:COM1	27:COM1
			0.000	0.000	-0.217	-40.727	-0.585	-133.866
			-	-	29:COM1	17:COM5	21:COM9	21:COM9
	159	-ve	22.093	86.009	0.496	0.000	0.536	0.000
			15:COM3	19:COM7	19:COM7	-	19:COM7	-
			0.000	-31.517	-0.217	-40.727	-0.281	-243.816
			-	29:COM1	29:COM1	17:COM5	29:COM1	21:COM9
323	172	+ve	32.809	100.385	0.414	2.231	2.744	0.000
			19:COM7	19:COM7	23:COM1	15:COM3	15:COM3	-
			0.000	0.000	-2.314	-1.120	-0.588	-187.596
			-	-	17:COM5	25:COM1	25:COM1	14:COM2
	160	-ve	32.809	81.724	0.414	2.231	0.325	0.000
			19:COM7	19:COM7	23:COM1	15:COM3	23:COM1	-
			0.000	-2.752	-2.314	-1.120	-2.349	-360.543
			-	29:COM1	17:COM5	25:COM1	17:COM5	14:COM2
324	173	+ve	26.757	96.236	1.079	0.000	0.432	0.000
			23:COM1	19:COM7	19:COM7	-	27:COM1	-
			-74.156	-6.578	-0.590	-45.788	-1.045	-143.651
			17:COM5	29:COM1	29:COM1	17:COM5	21:COM9	21:COM9
	161	-ve	26.757	74.465	1.079	0.000	1.338	0.000
			23:COM1	19:COM7	19:COM7	-	19:COM7	-
			-74.156	-22.907	-0.590	-45.788	-0.875	-253.355
			17:COM5	29:COM1	29:COM1	17:COM5	29:COM1	21:COM9
325	162	+ve	0.097	93.743	0.000	0.000	0.000	0.000
			23:COM1	14:COM2	-	-	-	-
			-0.143	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	168	-ve	0.097	0.000	0.000	0.000	0.000	0.000
			23:COM1	-	-	-	-	-
			-0.143	-93.743	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
326	164	+ve	1.632	65.986	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.064	0.000	-0.000	0.000	0.000	0.000
			25:COM1	-	14:COM2	-	-	-
	170	-ve	1.632	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.064	-65.986	-0.000	0.000	0.000	0.000
			25:COM1	14:COM2	14:COM2	-	-	-
327	166	+ve	0.229	93.743	0.000	0.000	0.000	0.000
			23:COM1	14:COM2	-	-	-	-
			-3.006	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	172	-ve	0.229	0.000	0.000	0.000	0.000	0.000
			23:COM1	-	-	-	-	-
			-3.006	-93.743	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-

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329	168	+ve	0.131	75.127	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	23:COM1'	-	-	-
			-0.080	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	17:COM5	-	-	-
	169	-ve	0.131	0.000	0.000	0.000	0.000	107.969
			15:COM3	-	23:COM1'	-	23:COM1'	14:COM2
			-0.080	-112.357	-0.000	0.000	-0.000	0.000
			25:COM1'	14:COM2	17:COM5	-	17:COM5	-
331	170	+ve	1.551	53.686	0.001	0.000	0.000	0.000
			19:COM7	14:COM2	15:COM3	-	-	-
			-0.029	0.000	-0.001	0.000	0.000	0.000
			29:COM1'	-	25:COM1'	-	-	-
	171	-ve	1.551	0.000	0.001	0.000	0.008	75.904
			19:COM7	-	15:COM3	-	15:COM3	15:COM3
			-0.029	-78.285	-0.001	0.000	-0.007	0.000
			29:COM1'	14:COM2	25:COM1'	-	25:COM1'	-
333	172	+ve	0.465	76.727	0.008	0.000	0.000	0.000
			23:COM1'	14:COM2	15:COM3	-	-	-
			-2.699	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	25:COM1'	-	-	-
	173	-ve	0.465	0.000	0.008	0.000	0.047	98.688
			23:COM1'	-	15:COM3	-	15:COM3	14:COM2
			-2.699	-110.757	-0.000	0.000	-0.002	0.000
			17:COM5	14:COM2	25:COM1'	-	25:COM1'	-
334	174	+ve	1.006	75.880	1.482	5.970	0.913	12.027
			15:COM3	27:COM1'	15:COM3	23:COM1'	23:COM1'	19:COM7
			-0.657	-83.183	-0.961	-9.415	-1.419	0.000
			25:COM1'	21:COM9	25:COM1'	17:COM5	17:COM5	-
	15	-ve	1.006	4.455	1.482	5.970	2.285	339.022
			15:COM3	27:COM1'	15:COM3	23:COM1'	15:COM3	19:COM7
			-0.657	-178.416	-0.961	-9.415	-1.490	-98.811
			25:COM1'	21:COM9	25:COM1'	17:COM5	25:COM1'	29:COM1'
335	175	+ve	0.071	4.684	0.030	0.035	0.025	18.988
			15:COM3	27:COM1'	15:COM3	27:COM1'	23:COM1'	19:COM7
			-0.043	-5.620	-0.019	-3.388	-0.040	0.000
			25:COM1'	21:COM9	25:COM1'	21:COM9	17:COM5	-
	16	-ve	0.071	0.000	0.030	0.035	0.036	33.871
			15:COM3	-	15:COM3	27:COM1'	15:COM3	19:COM7
			-0.043	-14.102	-0.019	-3.388	-0.022	0.000
			25:COM1'	21:COM9	25:COM1'	21:COM9	25:COM1'	-
336	389	+ve	0.000	135.098	0.530	11.811	2.293	0.000
			-	19:COM7	23:COM1'	15:COM3	15:COM3	-
			-42.411	-125.402	-2.391	-8.195	-0.772	-42.690
			21:COM9	29:COM1'	17:COM5	25:COM1'	25:COM1'	21:COM9
	32	-ve	0.000	115.244	0.530	11.811	0.556	322.610
			-	27:COM1'	23:COM1'	15:COM3	23:COM1'	27:COM1'
			-42.411	-148.842	-2.391	-8.195	-3.688	-346.701
			21:COM9	21:COM9	17:COM5	25:COM1'	17:COM5	21:COM9



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337	177	+ve	0.349	10.433	0.167	0.000	0.048	0.000
			23:COM11	19:COM7	19:COM7	-	27:COM11	-
			-0.740	0.000	-0.033	-7.449	-0.198	-25.426
			17:COM5	-	29:COM11	17:COM5	21:COM9	21:COM9
	33	-ve	0.349	0.000	0.167	0.000	0.219	35.577
			23:COM11	-	19:COM7	-	19:COM7	19:COM7
			-0.740	-48.043	-0.033	-7.449	-0.035	0.000
			17:COM5	21:COM9	29:COM11	17:COM5	29:COM11	-
338	382	+ve	112.630	27.983	11.373	12.935	2.740	0.000
			15:COM3	27:COM11	15:COM3	15:COM3	23:COM11	-
			-2.865	-59.076	-2.349	-3.292	-8.781	-47.732
			25:COM11	21:COM9	25:COM11	25:COM11	17:COM5	17:COM5
	383	-ve	112.630	9.428	11.373	12.935	19.659	136.813
			15:COM3	27:COM11	15:COM3	15:COM3	15:COM3	19:COM7
			-2.865	-83.815	-2.349	-3.292	-3.140	-69.368
			25:COM11	21:COM9	25:COM11	25:COM11	25:COM11	29:COM11
339	179	+ve	25.543	73.199	4.136	6.788	0.000	52.412
			23:COM11	27:COM11	15:COM3	23:COM11	-	27:COM11
			-121.286	-127.894	0.000	-27.833	-3.138	-67.035
			17:COM5	21:COM9	-	17:COM5	21:COM9	21:COM9
	50	-ve	25.543	54.644	4.136	6.788	7.402	283.651
			23:COM11	27:COM11	15:COM3	23:COM11	15:COM3	19:COM7
			-121.286	-152.633	0.000	-27.833	0.000	-107.418
			17:COM5	21:COM9	-	17:COM5	-	29:COM11
340	180	+ve	0.856	9.954	0.608	2.080	0.408	34.965
			15:COM3	27:COM11	15:COM3	15:COM3	23:COM11	14:COM2
			-0.568	-77.085	-0.387	-0.149	-0.645	0.000
			25:COM11	21:COM9	25:COM11	25:COM11	17:COM5	-
	74	-ve	0.856	0.000	0.608	2.080	0.875	242.041
			15:COM3	-	15:COM3	15:COM3	15:COM3	19:COM7
			-0.568	-98.290	-0.387	-0.149	-0.559	0.000
			25:COM11	21:COM9	25:COM11	25:COM11	25:COM11	-
341	181	+ve	0.591	23.429	0.598	9.856	0.430	25.392
			15:COM3	27:COM11	15:COM3	19:COM7	23:COM11	27:COM11
			-0.380	-148.873	-0.372	-1.835	-0.693	-53.259
			25:COM11	21:COM9	25:COM11	29:COM11	17:COM5	21:COM9
	78	-ve	0.591	0.000	0.598	9.856	0.802	363.841
			15:COM3	-	15:COM3	19:COM7	15:COM3	19:COM7
			-0.380	-184.789	-0.372	-1.835	-0.500	0.000
			25:COM11	21:COM9	25:COM11	29:COM11	25:COM11	-
342	182	+ve	1.943	41.226	0.266	10.425	0.439	2.657
			27:COM11	27:COM11	23:COM11	23:COM11	15:COM3	23:COM11
			-14.296	-89.298	-0.418	-10.541	-0.423	-21.108
			21:COM9	21:COM9	17:COM5	17:COM5	25:COM11	14:COM2
	82	-ve	1.943	25.322	0.266	10.425	0.254	235.266
			27:COM11	27:COM11	23:COM11	23:COM11	23:COM11	19:COM7
			-14.296	-110.504	-0.418	-10.541	-0.617	-86.018
			21:COM9	21:COM9	17:COM5	17:COM5	17:COM5	29:COM11



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343	183	+ve	12.456	113.573	1.356	33.005	0.533	35.985
			27:COM1↓	27:COM1↓	15:COM3	14:COM2	23:COM1↑	27:COM1↓
			-55.585	-131.137	-0.465	0.000	-1.336	-89.008
			21:COM9	21:COM9	25:COM1↓	-	17:COM5	21:COM9
	86	-ve	12.456	68.540	1.356	33.005	2.055	320.966
			27:COM1↓	27:COM1↓	15:COM3	14:COM2	15:COM3	19:COM7
			-55.585	-196.820	-0.465	0.000	-0.630	-191.683
			21:COM9	21:COM9	25:COM1↓	-	25:COM1↓	29:COM1↓
344	184	+ve	42.574	9.294	1.842	11.957	1.572	42.977
			15:COM3	27:COM1↓	19:COM7	15:COM3	23:COM1↑	14:COM2
			-12.146	-66.520	-0.078	-4.450	-1.649	0.000
			25:COM1↓	21:COM9	29:COM1↓	25:COM1↓	17:COM5	-
	90	-ve	42.574	0.000	1.842	11.957	3.753	222.222
			15:COM3	-	19:COM7	15:COM3	19:COM7	19:COM7
			-12.146	-87.726	-0.078	-4.450	0.000	0.000
			25:COM1↓	21:COM9	29:COM1↓	25:COM1↓	-	-
345	174	+ve	0.000	93.743	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-0.007	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	13:COM1	-	-	-
	180	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-0.007	-93.743	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	13:COM1	-	-	-
348	181	+ve	0.066	70.738	0.013	1.136	0.009	76.495
			15:COM3	14:COM2	15:COM3	19:COM7	23:COM1↑	14:COM2
			-0.039	0.000	-0.008	-0.307	-0.015	0.000
			25:COM1↓	-	25:COM1↓	29:COM1↓	17:COM5	-
	175	-ve	0.066	2.318	0.013	1.136	0.015	1.507
			15:COM3	27:COM1↓	15:COM3	19:COM7	15:COM3	27:COM1↓
			-0.039	-8.069	-0.008	-0.307	-0.009	-1.888
			25:COM1↓	21:COM9	25:COM1↓	29:COM1↓	25:COM1↓	21:COM9
349	180	+ve	0.022	73.264	0.001	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			-0.015	0.000	-0.000	0.000	0.000	0.000
			25:COM1↓	-	25:COM1↓	-	-	-
	181	-ve	0.022	0.000	0.001	0.000	0.003	118.773
			15:COM3	-	15:COM3	-	15:COM3	14:COM2
			-0.015	-114.220	-0.000	0.000	-0.002	0.000
			25:COM1↓	14:COM2	25:COM1↓	-	25:COM1↓	-
351	182	+ve	1.683	51.486	0.001	0.000	0.000	0.000
			15:COM3	14:COM2	19:COM7	-	-	-
			-0.381	0.000	-0.000	0.000	0.000	0.000
			25:COM1↓	-	29:COM1↓	-	-	-
	183	-ve	1.683	0.000	0.001	0.000	0.007	92.945
			15:COM3	-	19:COM7	-	19:COM7	15:COM3
			-0.381	-80.485	-0.000	0.000	-0.002	0.000
			25:COM1↓	14:COM2	29:COM1↓	-	29:COM1↓	-



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352	184	+ve	0.303	93.742	0.000	0.000	0.000	0.000
			23:COM11	14:COM2	14:COM2	-	-	-
			-4.760	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	179	-ve	0.303	0.000	0.000	0.000	0.000	0.000
			23:COM11	-	14:COM2	-	-	-
			-4.760	-93.742	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
353	185	+ve	1.236	0.000	1.952	3.925	0.608	32.034
			15:COM3	-	15:COM3	23:COM11	23:COM11	27:COM11
			-0.752	-268.573	-1.208	-9.359	-0.983	-183.880
			25:COM11	21:COM9	25:COM11	17:COM5	17:COM5	21:COM9
	13	-ve	1.236	0.000	1.952	3.925	2.823	585.106
			15:COM3	-	15:COM3	23:COM11	15:COM3	19:COM7
			-0.752	-342.855	-1.208	-9.359	-1.748	0.000
			25:COM11	21:COM9	25:COM11	17:COM5	25:COM11	-
354	186	+ve	0.194	0.000	0.044	8.067	0.022	6.395
			15:COM3	-	15:COM3	19:COM7	23:COM11	27:COM11
			-0.117	-31.087	-0.027	0.000	-0.036	-34.216
			25:COM11	14:COM2	25:COM11	-	17:COM5	21:COM9
	14	-ve	0.194	0.000	0.044	8.067	0.050	54.258
			15:COM3	-	15:COM3	19:COM7	15:COM3	19:COM7
			-0.117	-37.703	-0.027	0.000	-0.031	0.000
			25:COM11	14:COM2	25:COM11	-	25:COM11	-
355	187	+ve	20.188	0.000	1.903	2.124	1.831	106.599
			27:COM11	-	23:COM11	27:COM11	15:COM3	27:COM11
			-59.544	-182.947	-2.664	-6.311	-1.500	-173.695
			21:COM9	21:COM9	17:COM5	21:COM9	25:COM11	21:COM9
	30	-ve	20.188	0.000	1.903	2.124	2.232	466.356
			27:COM11	-	23:COM11	27:COM11	23:COM11	19:COM7
			-59.544	-202.244	-2.664	-6.311	-3.384	-104.234
			21:COM9	21:COM9	17:COM5	21:COM9	17:COM5	29:COM11
356	188	+ve	4.792	0.000	0.009	2.857	0.072	0.000
			27:COM11	-	23:COM11	19:COM7	15:COM3	-
			-7.345	-61.072	-0.120	0.000	0.000	-66.235
			21:COM9	21:COM9	17:COM5	-	-	21:COM9
	31	-ve	4.792	0.000	0.009	2.857	0.020	112.324
			27:COM11	-	23:COM11	19:COM7	23:COM11	19:COM7
			-7.345	-102.270	-0.120	0.000	-0.164	0.000
			21:COM9	21:COM9	17:COM5	-	17:COM5	-
357	189	+ve	89.285	0.000	2.205	12.653	2.837	118.537
			15:COM3	-	19:COM7	19:COM7	19:COM7	27:COM11
			-1.407	-219.244	-3.348	0.000	-0.644	-222.413
			25:COM11	21:COM9	29:COM11	-	29:COM11	21:COM9
	47	-ve	89.285	0.000	2.205	12.653	4.081	530.651
			15:COM3	-	19:COM7	19:COM7	19:COM7	19:COM7
			-1.407	-238.541	-3.348	0.000	-4.117	-132.999
			25:COM11	21:COM9	29:COM11	-	29:COM11	29:COM11



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358	190	+ve	9.876	0.000	7.257	8.465	0.000	129.730
			23:COM11	-	19:COM7	19:COM7	-	27:COM11
			-144.073	-223.362	0.000	-1.426	-5.428	-168.602
			17:COM5	21:COM9	-	29:COM11	17:COM5	21:COM9
	48	-ve	9.876	0.000	7.257	8.465	8.758	568.989
			23:COM11	-	19:COM7	19:COM7	19:COM7	19:COM7
			-144.073	-242.659	0.000	-1.426	0.000	-78.741
			17:COM5	21:COM9	-	29:COM11	-	29:COM11
359	191	+ve	0.422	0.000	0.951	0.373	0.351	0.000
			15:COM3	-	15:COM3	15:COM3	23:COM11	-
			-0.249	-323.421	-0.586	-0.123	-0.569	-157.798
			25:COM11	14:COM2	25:COM11	25:COM11	17:COM5	21:COM9
	75	-ve	0.422	0.000	0.951	0.373	1.285	506.739
			15:COM3	-	15:COM3	15:COM3	15:COM3	14:COM2
			-0.249	-339.962	-0.586	-0.123	-0.793	0.000
			25:COM11	14:COM2	25:COM11	25:COM11	25:COM11	-
360	192	+ve	0.815	0.000	1.116	82.373	0.454	56.513
			15:COM3	-	15:COM3	14:COM2	23:COM11	27:COM11
			-0.496	-348.792	-0.688	0.000	-0.736	-168.867
			25:COM11	14:COM2	25:COM11	-	17:COM5	21:COM9
	79	-ve	0.815	0.000	1.116	82.373	1.441	677.270
			15:COM3	-	15:COM3	14:COM2	15:COM3	19:COM7
			-0.496	-365.332	-0.688	0.000	-0.888	0.000
			25:COM11	14:COM2	25:COM11	-	25:COM11	-
361	193	+ve	0.000	0.000	0.606	5.835	0.407	24.696
			-	-	15:COM3	15:COM3	27:COM11	27:COM11
			-25.963	-259.668	-0.530	-5.069	-0.504	-125.462
			21:COM9	14:COM2	25:COM11	25:COM11	21:COM9	21:COM9
	83	-ve	0.000	0.000	0.606	5.835	0.746	534.547
			-	-	15:COM3	15:COM3	15:COM3	19:COM7
			-25.963	-287.682	-0.530	-5.069	-0.693	0.000
			21:COM9	14:COM2	25:COM11	25:COM11	25:COM11	-
362	194	+ve	32.930	0.000	0.864	150.125	1.587	138.531
			19:COM7	-	23:COM11	15:COM3	15:COM3	27:COM11
			-28.321	-293.412	-2.032	0.000	-0.677	-205.741
			29:COM11	21:COM9	17:COM5	-	25:COM11	21:COM9
	87	-ve	32.930	0.000	0.864	150.125	1.019	767.790
			19:COM7	-	23:COM11	15:COM3	23:COM11	19:COM7
			-28.321	-367.592	-2.032	0.000	-2.387	0.000
			29:COM11	21:COM9	17:COM5	-	17:COM5	-
363	195	+ve	68.968	0.000	2.308	1.726	3.469	0.000
			19:COM7	-	23:COM11	23:COM11	15:COM3	-
			-10.449	-391.507	-3.771	-4.538	-1.748	-131.846
			29:COM11	14:COM2	17:COM5	17:COM5	25:COM11	21:COM9
	91	-ve	68.968	0.000	2.308	1.726	2.753	664.242
			19:COM7	-	23:COM11	23:COM11	23:COM11	14:COM2
			-10.449	-408.047	-3.771	-4.538	-3.886	0.000
			29:COM11	14:COM2	17:COM5	17:COM5	17:COM5	-



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364	185	+ve	0.187	93.743	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	14:COM2	-	-	-
			-0.117	0.000	0.000	0.000	0.000	0.000
			25:COM1	-	-	-	-	-
	191	-ve	0.187	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			-0.117	-93.743	0.000	0.000	0.000	0.000
			25:COM1	14:COM2	-	-	-	-
365	187	+ve	1.624	65.986	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.621	0.000	-0.000	0.000	0.000	0.000
			25:COM1	-	14:COM2	-	-	-
	193	-ve	1.624	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.621	-65.986	-0.000	0.000	0.000	0.000
			25:COM1	14:COM2	14:COM2	-	-	-
366	189	+ve	0.000	93.743	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-5.444	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	195	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-5.444	-93.743	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
367	192	+ve	0.009	70.461	0.004	0.000	0.003	75.275
			23:COM1	14:COM2	15:COM3	-	23:COM1	14:COM2
			-0.015	0.000	-0.003	-3.438	-0.005	0.000
			17:COM5	-	25:COM1	14:COM2	17:COM5	-
	186	-ve	0.009	5.104	0.004	0.000	0.006	2.766
			23:COM1	27:COM1	15:COM3	-	15:COM3	27:COM1
			-0.015	-11.684	-0.003	-3.438	-0.003	-3.614
			17:COM5	21:COM9	25:COM1	14:COM2	25:COM1	21:COM9
368	191	+ve	0.007	74.366	0.000	0.000	0.000	0.000
			23:COM1	14:COM2	15:COM3	-	-	-
			-0.013	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	25:COM1	-	-	-
	192	-ve	0.007	0.000	0.000	0.000	0.001	112.379
			23:COM1	-	15:COM3	-	15:COM3	14:COM2
			-0.013	-113.118	-0.000	0.000	-0.001	0.000
			17:COM5	14:COM2	25:COM1	-	25:COM1	-
370	193	+ve	1.514	53.091	0.002	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			-0.077	0.000	-0.001	0.000	0.000	0.000
			25:COM1	-	25:COM1	-	-	-
	194	-ve	1.514	0.000	0.002	0.000	0.014	83.779
			15:COM3	-	15:COM3	-	15:COM3	15:COM3
			-0.077	-78.880	-0.001	0.000	-0.004	0.000
			25:COM1	14:COM2	25:COM1	-	25:COM1	-



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371	195	+ve	0.000	93.742	0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
			-6.189	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	190	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-6.189	-93.742	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
372	196	+ve	0.552	0.000	0.158	3.925	0.056	0.000
			15:COM3	-	15:COM3	23:COM1'	23:COM1'	-
			-0.323	-119.317	-0.098	-9.359	-0.090	-367.022
			25:COM1'	21:COM9	25:COM1'	17:COM5	17:COM5	14:COM2
	185	-ve	0.552	0.000	0.158	3.925	0.218	32.034
			15:COM3	-	15:COM3	23:COM1'	15:COM3	27:COM1'
			-0.323	-193.599	-0.098	-9.359	-0.135	-183.880
			25:COM1'	21:COM9	25:COM1'	17:COM5	25:COM1'	21:COM9
373	197	+ve	0.028	0.264	0.019	8.112	0.009	0.000
			23:COM1'	27:COM1'	15:COM3	14:COM2	23:COM1'	-
			-0.046	-20.118	-0.012	0.000	-0.015	-65.871
			17:COM5	21:COM9	25:COM1'	-	17:COM5	14:COM2
	186	-ve	0.028	0.000	0.019	8.112	0.022	5.141
			23:COM1'	-	15:COM3	14:COM2	15:COM3	27:COM1'
			-0.046	-26.734	-0.012	0.000	-0.013	-36.976
			17:COM5	21:COM9	25:COM1'	-	25:COM1'	21:COM9
374	198	+ve	13.572	26.961	0.538	2.124	0.360	0.000
			27:COM1'	27:COM1'	19:COM7	27:COM1'	27:COM1'	-
			-44.612	-106.024	-0.343	-6.311	-0.684	-179.740
			21:COM9	21:COM9	29:COM1'	21:COM9	21:COM9	21:COM9
	187	-ve	13.572	12.488	0.538	2.124	0.450	106.599
			27:COM1'	27:COM1'	19:COM7	27:COM1'	27:COM1'	27:COM1'
			-44.612	-125.321	-0.343	-6.311	-0.392	-173.695
			21:COM9	21:COM9	29:COM1'	21:COM9	21:COM9	21:COM9
375	199	+ve	4.558	7.012	0.090	2.857	0.068	0.000
			19:COM7	27:COM1'	19:COM7	19:COM7	27:COM1'	-
			-8.273	-19.874	-0.066	0.000	-0.097	-125.980
			29:COM1'	21:COM9	29:COM1'	-	21:COM9	21:COM9
	188	-ve	4.558	0.000	0.090	2.857	0.081	0.000
			19:COM7	-	19:COM7	19:COM7	19:COM7	-
			-8.273	-61.072	-0.066	0.000	-0.062	-66.235
			29:COM1'	21:COM9	29:COM1'	-	29:COM1'	21:COM9
376	200	+ve	72.143	26.176	0.524	12.653	2.926	0.000
			15:COM3	27:COM1'	23:COM1'	19:COM7	15:COM3	-
			0.000	-124.972	-2.789	0.000	-0.121	-264.828
			-	21:COM9	17:COM5	-	25:COM1'	14:COM2
	189	-ve	72.143	11.703	0.524	12.653	0.918	118.537
			15:COM3	27:COM1'	23:COM1'	19:COM7	23:COM1'	27:COM1'
			0.000	-144.269	-2.789	0.000	-2.529	-222.413
			-	21:COM9	17:COM5	-	17:COM5	21:COM9



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377	201	+ve	21.677	16.144	0.983	8.465	0.711	0.000
			23:COM11	27:COM11	15:COM3	19:COM7	23:COM11	-
			-90.599	-129.091	-0.461	-1.426	-1.397	-236.601
			17:COM5	21:COM9	25:COM11	29:COM11	17:COM5	14:COM2
	190	-ve	21.677	1.671	0.983	8.465	0.552	129.730
			23:COM11	27:COM11	15:COM3	19:COM7	15:COM3	27:COM11
			-90.599	-148.388	-0.461	-1.426	-0.219	-168.602
			17:COM5	21:COM9	25:COM11	29:COM11	25:COM11	21:COM9
378	202	+ve	0.148	0.000	0.020	0.373	0.002	0.000
			23:COM11	-	15:COM3	15:COM3	23:COM11	-
			-0.206	-138.769	-0.012	-0.123	-0.002	-426.786
			17:COM5	14:COM2	25:COM11	25:COM11	17:COM5	14:COM2
	191	-ve	0.148	0.000	0.020	0.373	0.041	0.000
			23:COM11	-	15:COM3	15:COM3	15:COM3	-
			-0.206	-155.309	-0.012	-0.123	-0.024	-157.798
			17:COM5	14:COM2	25:COM11	25:COM11	25:COM11	21:COM9
379	203	+ve	0.019	0.000	0.192	45.269	0.094	0.000
			19:COM7	-	15:COM3	14:COM2	23:COM11	-
			-0.009	-158.254	-0.119	0.000	-0.151	-394.423
			29:COM11	21:COM9	25:COM11	-	17:COM5	14:COM2
	192	-ve	0.019	0.000	0.192	45.269	0.223	57.756
			19:COM7	-	15:COM3	14:COM2	15:COM3	27:COM11
			-0.009	-174.794	-0.119	0.000	-0.138	-166.096
			29:COM11	21:COM9	25:COM11	-	25:COM11	21:COM9
380	204	+ve	0.000	0.000	0.285	5.835	0.742	0.000
			-	-	23:COM11	15:COM3	15:COM3	-
			-22.393	-126.868	-0.715	-5.069	-0.327	-313.329
			21:COM9	21:COM9	17:COM5	25:COM11	25:COM11	14:COM2
	193	-ve	0.000	0.000	0.285	5.835	0.239	24.696
			-	-	23:COM11	15:COM3	23:COM11	27:COM11
			-22.393	-154.882	-0.715	-5.069	-0.662	-125.462
			21:COM9	21:COM9	17:COM5	25:COM11	17:COM5	21:COM9
381	205	+ve	18.541	7.262	0.288	66.577	0.502	0.000
			19:COM7	27:COM11	27:COM11	15:COM3	19:COM7	-
			-22.105	-149.074	-0.470	0.000	-0.364	-329.583
			29:COM11	21:COM9	21:COM9	-	29:COM11	21:COM9
	194	-ve	18.541	0.000	0.288	66.577	0.217	138.531
			19:COM7	-	27:COM11	15:COM3	27:COM11	27:COM11
			-22.105	-223.254	-0.470	0.000	-0.435	-205.741
			29:COM11	21:COM9	21:COM9	-	21:COM9	21:COM9
382	206	+ve	44.430	0.000	2.261	1.726	0.270	0.000
			19:COM7	-	15:COM3	23:COM11	23:COM11	-
			-0.861	-187.479	-0.437	-4.538	-1.984	-497.032
			29:COM11	14:COM2	25:COM11	17:COM5	17:COM5	14:COM2
	195	-ve	44.430	0.000	2.261	1.726	2.431	0.000
			19:COM7	-	15:COM3	23:COM11	15:COM3	-
			-0.861	-204.019	-0.437	-4.538	-0.588	-131.846
			29:COM11	14:COM2	25:COM11	17:COM5	25:COM11	21:COM9



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383	196	+ve	0.036	93.743	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	14:COM2	-	-	-
			-0.024	0.000	0.000	0.000	0.000	0.000
			25:COM1	-	-	-	-	-
	202	-ve	0.036	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			-0.024	-93.743	0.000	0.000	0.000	0.000
			25:COM1	14:COM2	-	-	-	-
384	198	+ve	0.998	65.986	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	204	-ve	0.998	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			0.000	-65.986	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
385	200	+ve	0.000	93.743	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-3.493	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	206	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-3.493	-93.743	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
386	203	+ve	0.008	54.593	0.000	0.000	0.000	47.005
			15:COM3	14:COM2	15:COM3	-	23:COM1	14:COM2
			-0.005	0.000	-0.000	-1.670	-0.000	0.000
			25:COM1	-	25:COM1	21:COM9	17:COM5	-
	197	-ve	0.008	0.000	0.000	0.000	0.000	9.077
			15:COM3	-	15:COM3	-	15:COM3	14:COM2
			-0.005	-22.987	-0.000	-1.670	-0.000	0.000
			25:COM1	14:COM2	25:COM1	21:COM9	25:COM1	-
387	202	+ve	0.020	76.937	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			-0.014	0.000	-0.000	0.000	0.000	0.000
			25:COM1	-	25:COM1	-	-	-
	203	-ve	0.020	0.000	0.000	0.000	0.000	97.470
			15:COM3	-	15:COM3	-	15:COM3	14:COM2
			-0.014	-110.547	-0.000	0.000	-0.000	0.000
			25:COM1	14:COM2	25:COM1	-	25:COM1	-
389	204	+ve	1.424	54.957	0.002	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			-0.134	0.000	-0.001	0.000	0.000	0.000
			25:COM1	-	25:COM1	-	-	-
	205	-ve	1.424	0.000	0.002	0.000	0.012	70.565
			15:COM3	-	15:COM3	-	15:COM3	15:COM3
			-0.134	-77.014	-0.001	0.000	-0.003	0.000
			25:COM1	14:COM2	25:COM1	-	25:COM1	-



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390	206	+ve	0.000	93.742	0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
			-2.674	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	201	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-2.674	-93.742	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
391	207	+ve	0.169	110.557	0.010	3.925	0.002	0.000
			19:COM7	19:COM7	15:COM3	23:COM1	27:COM1	-
			-0.089	0.000	-0.005	-9.359	-0.005	-330.174
			29:COM1	-	25:COM1	17:COM5	21:COM9	21:COM9
	196	-ve	0.169	36.275	0.010	3.925	0.014	0.000
			19:COM7	19:COM7	15:COM3	23:COM1	15:COM3	-
			-0.089	-48.778	-0.005	-9.359	-0.008	-367.022
			29:COM1	29:COM1	25:COM1	17:COM5	25:COM1	14:COM2
392	208	+ve	0.311	20.070	0.011	1.576	0.007	0.000
			15:COM3	19:COM7	15:COM3	27:COM1	23:COM1	-
			-0.195	-2.611	-0.007	-2.763	-0.012	-55.872
			25:COM1	29:COM1	25:COM1	21:COM9	17:COM5	21:COM9
	197	-ve	0.311	13.454	0.011	1.576	0.010	0.000
			15:COM3	19:COM7	15:COM3	27:COM1	15:COM3	-
			-0.195	-7.573	-0.007	-2.763	-0.006	-67.317
			25:COM1	29:COM1	25:COM1	21:COM9	25:COM1	14:COM2
393	209	+ve	12.199	83.476	0.864	2.124	0.458	11.159
			27:COM1	19:COM7	19:COM7	27:COM1	27:COM1	27:COM1
			-36.113	-38.374	-0.506	-6.311	-0.918	-210.331
			21:COM9	29:COM1	29:COM1	21:COM9	21:COM9	21:COM9
	198	-ve	12.199	64.179	0.864	2.124	0.816	0.000
			27:COM1	19:COM7	19:COM7	27:COM1	19:COM7	-
			-36.113	-52.847	-0.506	-6.311	-0.577	-179.740
			21:COM9	29:COM1	29:COM1	21:COM9	29:COM1	21:COM9
394	210	+ve	3.999	46.228	0.127	2.857	0.078	0.000
			27:COM1	19:COM7	19:COM7	19:COM7	27:COM1	-
			-8.574	0.000	-0.079	0.000	-0.121	-124.539
			21:COM9	-	29:COM1	-	21:COM9	21:COM9
	199	-ve	3.999	7.013	0.127	2.857	0.127	0.000
			27:COM1	27:COM1	19:COM7	19:COM7	19:COM7	-
			-8.574	-19.873	-0.079	0.000	-0.078	-125.980
			21:COM9	21:COM9	29:COM1	-	29:COM1	21:COM9
395	211	+ve	56.517	83.554	0.468	12.653	2.875	0.000
			15:COM3	19:COM7	27:COM1	19:COM7	19:COM7	-
			0.000	-40.838	-2.469	0.000	-0.199	-256.883
			-	29:COM1	21:COM9	-	29:COM1	21:COM9
	200	-ve	56.517	64.257	0.468	12.653	0.721	0.000
			15:COM3	19:COM7	27:COM1	19:COM7	27:COM1	-
			0.000	-55.311	-2.469	0.000	-1.947	-264.828
			-	29:COM1	21:COM9	-	21:COM9	14:COM2



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
396	212	+ve	25.610	69.387	0.685	8.465	1.099	0.000
			23:COM1↓	19:COM7	27:COM1↓	19:COM7	15:COM3	-
			-55.568	-40.822	-1.222	-1.426	-1.007	-242.638
			17:COM5	29:COM1↓	21:COM9	29:COM1↓	25:COM1↓	21:COM9
	201	-ve	25.610	50.090	0.685	8.465	0.377	0.000
			23:COM1↓	19:COM7	27:COM1↓	19:COM7	27:COM1↓	-
			-55.568	-55.295	-1.222	-1.426	-1.332	-236.601
			17:COM5	29:COM1↓	21:COM9	29:COM1↓	21:COM9	14:COM2
397	213	+ve	0.094	63.506	0.019	0.373	0.033	0.000
			19:COM7	19:COM7	23:COM1↓	15:COM3	15:COM3	-
			-0.040	0.000	-0.031	-0.123	-0.020	-348.427
			29:COM1↓	-	17:COM5	25:COM1↓	25:COM1↓	14:COM2
	202	-ve	0.094	46.965	0.019	0.373	0.017	0.000
			19:COM7	19:COM7	23:COM1↓	15:COM3	23:COM1↓	-
			-0.040	-7.224	-0.031	-0.123	-0.028	-426.786
			29:COM1↓	29:COM1↓	17:COM5	25:COM1↓	17:COM5	14:COM2
398	214	+ve	0.165	63.590	0.135	4.668	0.091	0.000
			15:COM3	19:COM7	15:COM3	27:COM1↓	23:COM1↓	-
			-0.094	-16.978	-0.085	-11.255	-0.143	-344.729
			25:COM1↓	29:COM1↓	25:COM1↓	21:COM9	17:COM5	14:COM2
	203	-ve	0.165	47.049	0.135	4.668	0.120	0.000
			15:COM3	19:COM7	15:COM3	27:COM1↓	15:COM3	-
			-0.094	-29.383	-0.085	-11.255	-0.076	-392.977
			25:COM1↓	29:COM1↓	25:COM1↓	21:COM9	25:COM1↓	14:COM2
399	215	+ve	0.000	61.706	0.148	5.835	0.819	0.000
			-	19:COM7	23:COM1↓	15:COM3	15:COM3	-
			-22.081	-4.268	-0.794	-5.069	-0.200	-286.433
			21:COM9	29:COM1↓	17:COM5	25:COM1↓	25:COM1↓	21:COM9
	204	-ve	0.000	33.692	0.148	5.835	0.106	0.000
			-	19:COM7	23:COM1↓	15:COM3	23:COM1↓	-
			-22.081	-25.278	-0.794	-5.069	-0.747	-313.329
			21:COM9	29:COM1↓	17:COM5	25:COM1↓	17:COM5	14:COM2
400	216	+ve	9.122	114.664	0.563	3.401	0.531	0.000
			19:COM7	19:COM7	19:COM7	23:COM1↓	27:COM1↓	-
			-18.401	-24.234	-0.508	-5.580	-0.570	-325.045
			29:COM1↓	29:COM1↓	29:COM1↓	17:COM5	21:COM9	21:COM9
	205	-ve	9.122	44.823	0.563	3.401	0.586	0.000
			19:COM7	27:COM1↓	19:COM7	23:COM1↓	19:COM7	-
			-18.401	-80.909	-0.508	-5.580	-0.516	-329.583
			29:COM1↓	21:COM9	29:COM1↓	17:COM5	29:COM1↓	21:COM9
401	217	+ve	31.718	34.168	3.098	1.726	0.167	0.000
			19:COM7	19:COM7	15:COM3	23:COM1↓	23:COM1↓	-
			0.000	-8.134	-0.347	-4.538	-2.717	-480.887
			-	29:COM1↓	25:COM1↓	17:COM5	17:COM5	14:COM2
	206	-ve	31.718	17.628	3.098	1.726	3.326	0.000
			19:COM7	19:COM7	15:COM3	23:COM1↓	15:COM3	-
			0.000	-20.540	-0.347	-4.538	-0.512	-497.032
			-	29:COM1↓	25:COM1↓	17:COM5	25:COM1↓	14:COM2



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402	207	+ve	0.067	93.743	0.000	0.000	0.000	0.000
			23:COM11	14:COM2	14:COM2	-	-	-
			-0.113	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	213	-ve	0.067	0.000	0.000	0.000	0.000	0.000
			23:COM11	-	14:COM2	-	-	-
			-0.113	-93.743	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
403	209	+ve	1.262	65.986	0.000	0.000	0.000	0.000
			19:COM7	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	215	-ve	1.262	0.000	0.000	0.000	0.000	0.000
			19:COM7	-	-	-	-	-
			0.000	-65.986	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
404	211	+ve	0.000	93.743	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-3.844	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	217	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-3.844	-93.743	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
405	214	+ve	0.012	55.721	0.001	2.278	0.001	49.507
			23:COM11	14:COM2	15:COM3	19:COM7	23:COM11	14:COM2
			-0.021	0.000	-0.001	0.000	-0.001	0.000
			17:COM5	-	25:COM11	-	17:COM5	-
	208	-ve	0.012	0.000	0.001	2.278	0.001	8.872
			23:COM11	-	15:COM3	19:COM7	15:COM3	14:COM2
			-0.021	-21.859	-0.001	0.000	-0.001	0.000
			17:COM5	14:COM2	25:COM11	-	25:COM11	-
406	213	+ve	0.048	76.937	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			-0.033	0.000	-0.000	0.000	0.000	0.000
			25:COM11	-	25:COM11	-	-	-
	214	-ve	0.048	0.000	0.000	0.000	0.000	97.469
			15:COM3	-	15:COM3	-	15:COM3	14:COM2
			-0.033	-110.547	-0.000	0.000	-0.000	0.000
			25:COM11	14:COM2	25:COM11	-	25:COM11	-
408	215	+ve	1.615	55.047	0.002	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	25:COM11	-	-	-
	216	-ve	1.615	0.000	0.002	0.000	0.010	70.386
			15:COM3	-	15:COM3	-	15:COM3	15:COM3
			0.000	-76.924	-0.000	0.000	-0.002	0.000
			-	14:COM2	25:COM11	-	25:COM11	-



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409	217	+ve	0.000	93.742	0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
			-2.864	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	212	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-2.864	-93.742	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
410	218	+ve	0.250	259.813	0.339	3.925	0.264	245.603
			23:COM11	19:COM7	15:COM3	23:COM11	23:COM11	19:COM7
			-0.401	0.000	-0.204	-9.359	-0.438	-90.363
			17:COM5	-	25:COM11	17:COM5	17:COM5	29:COM11
	207	-ve	0.250	185.531	0.339	3.925	0.222	0.000
			23:COM11	19:COM7	15:COM3	23:COM11	15:COM3	-
			-0.401	0.000	-0.204	-9.359	-0.134	-330.174
			17:COM5	-	25:COM11	17:COM5	25:COM11	21:COM9
411	219	+ve	0.738	43.282	0.035	0.000	0.026	52.983
			15:COM3	19:COM7	15:COM3	-	23:COM11	19:COM7
			-0.463	0.000	-0.022	-9.837	-0.042	-18.425
			25:COM11	-	25:COM11	14:COM2	17:COM5	29:COM11
	208	-ve	0.738	36.666	0.035	0.000	0.026	0.000
			15:COM3	19:COM7	15:COM3	-	15:COM3	-
			-0.463	0.000	-0.022	-9.837	-0.017	-54.818
			25:COM11	-	25:COM11	14:COM2	25:COM11	21:COM9
412	220	+ve	14.233	160.399	0.769	2.124	0.611	258.197
			27:COM11	19:COM7	19:COM7	27:COM11	27:COM11	19:COM7
			-29.714	0.000	-0.641	-6.311	-0.865	-160.225
			21:COM9	-	29:COM11	21:COM9	21:COM9	29:COM11
	209	-ve	14.233	141.102	0.769	2.124	0.723	11.159
			27:COM11	19:COM7	19:COM7	27:COM11	19:COM7	27:COM11
			-29.714	-5.606	-0.641	-6.311	-0.727	-210.331
			21:COM9	29:COM11	29:COM11	21:COM9	29:COM11	21:COM9
413	221	+ve	3.435	87.426	0.111	2.857	0.083	84.266
			27:COM11	19:COM7	19:COM7	19:COM7	27:COM11	19:COM7
			-8.217	0.000	-0.085	0.000	-0.098	-52.880
			21:COM9	-	29:COM11	-	21:COM9	29:COM11
	210	-ve	3.435	46.228	0.111	2.857	0.120	0.000
			27:COM11	19:COM7	19:COM7	19:COM7	19:COM7	-
			-8.217	0.000	-0.085	0.000	-0.082	-124.539
			21:COM9	-	29:COM11	-	29:COM11	21:COM9
414	222	+ve	36.946	177.825	1.193	12.653	2.487	209.934
			19:COM7	19:COM7	27:COM11	19:COM7	19:COM7	19:COM7
			0.000	0.000	-1.910	0.000	-0.988	-162.700
			-	-	21:COM9	-	29:COM11	29:COM11
	211	-ve	36.946	158.528	1.193	12.653	1.408	0.000
			19:COM7	19:COM7	27:COM11	19:COM7	27:COM11	-
			0.000	-8.070	-1.910	0.000	-1.306	-256.883
			-	29:COM11	21:COM9	-	21:COM9	21:COM9



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415	223	+ve	24.795	163.657	0.480	8.465	1.246	180.867
			23:COM1↓	19:COM7	27:COM1↓	19:COM7	19:COM7	19:COM7
			-24.219	0.000	-1.597	-1.426	-0.850	-151.411
			17:COM5	-	21:COM9	29:COM1↓	29:COM1↓	29:COM1↓
	212	-ve	24.795	144.360	0.480	8.465	0.108	0.000
			23:COM1↓	19:COM7	27:COM1↓	19:COM7	27:COM1↓	-
			-24.219	-8.054	-1.597	-1.426	-1.890	-242.638
			17:COM5	29:COM1↓	21:COM9	29:COM1↓	21:COM9	21:COM9
416	224	+ve	0.446	235.677	0.009	0.373	0.009	164.412
			15:COM3	14:COM2	23:COM1↓	15:COM3	23:COM1↓	19:COM7
			-0.265	0.000	-0.017	-0.123	-0.012	-17.646
			25:COM1↓	-	17:COM5	25:COM1↓	17:COM5	29:COM1↓
	213	-ve	0.446	219.137	0.009	0.373	0.026	0.000
			15:COM3	14:COM2	23:COM1↓	15:COM3	23:COM1↓	-
			-0.265	0.000	-0.017	-0.123	-0.044	-348.427
			25:COM1↓	-	17:COM5	25:COM1↓	17:COM5	14:COM2
417	225	+ve	0.368	215.823	0.337	0.000	0.261	166.714
			15:COM3	14:COM2	15:COM3	-	23:COM1↓	19:COM7
			-0.225	0.000	-0.215	-55.723	-0.410	-85.258
			25:COM1↓	-	25:COM1↓	17:COM5	17:COM5	29:COM1↓
	214	-ve	0.368	199.283	0.337	0.000	0.246	0.000
			15:COM3	14:COM2	15:COM3	-	15:COM3	-
			-0.225	0.000	-0.215	-55.723	-0.157	-346.769
			25:COM1↓	-	25:COM1↓	17:COM5	25:COM1↓	14:COM2
418	226	+ve	0.000	195.886	0.085	5.835	0.619	153.529
			-	19:COM7	23:COM1↓	15:COM3	15:COM3	19:COM7
			-23.668	0.000	-0.622	-5.069	-0.121	-61.355
			21:COM9	-	17:COM5	25:COM1↓	25:COM1↓	29:COM1↓
	215	-ve	0.000	167.872	0.085	5.835	0.071	0.000
			-	19:COM7	23:COM1↓	15:COM3	23:COM1↓	-
			-23.668	0.000	-0.622	-5.069	-0.619	-286.433
			21:COM9	-	17:COM5	25:COM1↓	17:COM5	21:COM9
419	227	+ve	3.983	255.597	0.582	0.000	0.565	248.287
			27:COM1↓	19:COM7	19:COM7	-	19:COM7	19:COM7
			-18.507	0.000	-0.545	-75.655	-0.512	-156.865
			21:COM9	-	29:COM1↓	17:COM5	29:COM1↓	29:COM1↓
	216	-ve	3.983	181.417	0.582	0.000	0.661	0.000
			27:COM1↓	19:COM7	19:COM7	-	19:COM7	-
			-18.507	0.000	-0.545	-75.655	-0.536	-325.045
			21:COM9	-	29:COM1↓	17:COM5	29:COM1↓	21:COM9
420	228	+ve	29.644	220.578	2.730	1.726	0.243	52.956
			14:COM2	14:COM2	15:COM3	23:COM1↓	23:COM1↓	27:COM1↓
			0.000	0.000	-0.372	-4.538	-2.416	-120.605
			-	-	25:COM1↓	17:COM5	17:COM5	21:COM9
	217	-ve	29.644	204.037	2.730	1.726	2.910	0.000
			14:COM2	14:COM2	15:COM3	23:COM1↓	15:COM3	-
			0.000	0.000	-0.372	-4.538	-0.485	-480.887
			-	-	25:COM1↓	17:COM5	25:COM1↓	14:COM2



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421	218	+ve	0.245	93.743	0.000	0.000	0.000	0.000
			23:COM11	14:COM2	14:COM2	-	-	-
			-0.405	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	224	-ve	0.245	0.000	0.000	0.000	0.000	0.000
			23:COM11	-	14:COM2	-	-	-
			-0.405	-93.743	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
422	220	+ve	2.539	65.986	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	226	-ve	2.539	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			0.000	-65.986	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
423	222	+ve	0.000	93.743	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-8.343	0.000	-0.000	0.000	0.000	0.000
			14:COM2	-	14:COM2	-	-	-
	228	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-8.343	-93.743	-0.000	0.000	0.000	0.000
			14:COM2	14:COM2	14:COM2	-	-	-
424	225	+ve	0.004	74.146	0.009	3.858	0.006	83.273
			15:COM3	14:COM2	15:COM3	14:COM2	23:COM11	14:COM2
			-0.005	0.000	-0.006	0.000	-0.010	0.000
			25:COM11	-	25:COM11	-	17:COM5	-
	219	-ve	0.004	5.559	0.009	3.858	0.012	1.790
			15:COM3	27:COM11	15:COM3	14:COM2	15:COM3	27:COM11
			-0.005	-7.688	-0.006	0.000	-0.007	-3.678
			25:COM11	21:COM9	25:COM11	-	25:COM11	21:COM9
425	224	+ve	0.100	74.206	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			-0.065	0.000	-0.000	0.000	0.000	0.000
			25:COM11	-	25:COM11	-	-	-
	225	-ve	0.100	0.000	0.000	0.000	0.002	113.307
			15:COM3	-	15:COM3	-	15:COM3	14:COM2
			-0.065	-113.278	-0.000	0.000	-0.001	0.000
			25:COM11	14:COM2	25:COM11	-	25:COM11	-
427	226	+ve	2.013	53.177	0.001	0.000	0.000	0.000
			15:COM3	14:COM2	15:COM3	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	25:COM11	-	-	-
	227	-ve	2.013	0.000	0.001	0.000	0.007	85.021
			15:COM3	-	15:COM3	-	15:COM3	15:COM3
			0.000	-78.794	-0.000	0.000	-0.003	0.000
			-	14:COM2	25:COM11	-	25:COM11	-



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428	228	+ve	0.000	93.742	0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
			-7.084	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	223	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-7.084	-93.742	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
429	229	+ve	1.225	0.000	3.916	36.313	1.306	249.942
			15:COM3	-	15:COM3	23:COM1'	23:COM1'	14:COM2
			-0.697	-253.280	-2.395	-94.278	-2.136	0.000
			25:COM1'	14:COM2	25:COM1'	17:COM5	17:COM5	-
	11	-ve	1.225	0.000	3.916	36.313	5.697	832.690
			15:COM3	-	15:COM3	23:COM1'	15:COM3	14:COM2
			-0.697	-329.467	-2.395	-94.278	-3.485	0.000
			25:COM1'	14:COM2	25:COM1'	17:COM5	25:COM1'	-
430	230	+ve	0.896	6.532	0.089	10.023	0.050	64.590
			15:COM3	23:COM1'	15:COM3	19:COM7	23:COM1'	14:COM2
			-0.562	-33.180	-0.056	0.000	-0.079	0.000
			25:COM1'	17:COM5	25:COM1'	-	17:COM5	-
	12	-ve	0.896	1.443	0.089	10.023	0.098	125.182
			15:COM3	23:COM1'	15:COM3	19:COM7	15:COM3	15:COM3
			-0.562	-39.965	-0.056	0.000	-0.062	0.000
			25:COM1'	17:COM5	25:COM1'	-	25:COM1'	-
431	231	+ve	0.817	0.000	1.778	13.726	0.676	207.784
			15:COM3	-	15:COM3	23:COM1'	23:COM1'	14:COM2
			-0.418	-334.310	-1.101	-11.269	-1.090	0.000
			25:COM1'	14:COM2	25:COM1'	17:COM5	17:COM5	-
	76	-ve	0.817	0.000	1.778	13.726	2.465	893.369
			15:COM3	-	15:COM3	23:COM1'	15:COM3	14:COM2
			-0.418	-351.275	-1.101	-11.269	-1.526	0.000
			25:COM1'	14:COM2	25:COM1'	17:COM5	25:COM1'	-
432	232	+ve	1.479	0.000	2.231	91.612	0.971	109.244
			15:COM3	-	15:COM3	15:COM3	23:COM1'	19:COM7
			-0.880	-336.395	-1.400	-9.832	-1.545	0.000
			25:COM1'	14:COM2	25:COM1'	25:COM1'	17:COM5	-
	80	-ve	1.479	0.000	2.231	91.612	2.917	797.369
			15:COM3	-	15:COM3	15:COM3	15:COM3	14:COM2
			-0.880	-353.360	-1.400	-9.832	-1.829	0.000
			25:COM1'	14:COM2	25:COM1'	25:COM1'	25:COM1'	-
433	229	+ve	0.341	93.743	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	13:COM1	-	-	-
			-0.206	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	231	-ve	0.341	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	13:COM1	-	-	-
			-0.206	-93.743	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-



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434	232	+ve	0.069	67.029	0.013	0.000	0.009	65.353
			23:COM11	14:COM2	15:COM3	-	23:COM11	14:COM2
			-0.112	0.000	-0.008	-4.175	-0.014	0.000
			17:COM5	-	25:COM11	17:COM5	17:COM5	-
	230	-ve	0.069	0.659	0.013	0.000	0.017	0.000
			23:COM11	23:COM11	15:COM3	-	15:COM3	-
			-0.112	-10.551	-0.008	-4.175	-0.010	-3.587
			17:COM5	14:COM2	25:COM11	17:COM5	25:COM11	21:COM9
435	231	+ve	0.069	72.442	0.001	0.000	0.000	0.000
			23:COM11	14:COM2	15:COM3	-	-	-
			-0.106	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	25:COM11	-	-	-
	232	-ve	0.069	0.000	0.001	0.000	0.003	123.540
			23:COM11	-	15:COM3	-	15:COM3	14:COM2
			-0.106	-115.042	-0.000	0.000	-0.002	0.000
			17:COM5	14:COM2	25:COM11	-	25:COM11	-
438	233	+ve	0.885	45.128	0.003	0.000	0.000	0.000
			15:COM3	14:COM2	27:COM11	-	-	-
			-0.149	0.000	-0.004	0.000	0.000	0.000
			25:COM11	-	21:COM9	-	-	-
	370	-ve	0.885	0.000	0.003	0.000	0.015	25.930
			15:COM3	-	27:COM11	-	27:COM11	14:COM2
			-0.149	-55.298	-0.004	0.000	-0.022	0.000
			25:COM11	14:COM2	21:COM9	-	21:COM9	-
440	235	+ve	6.382	47.177	0.002	0.000	0.000	0.000
			15:COM3	14:COM2	19:COM7	-	-	-
			-0.416	0.000	-0.000	0.000	0.000	0.000
			25:COM11	-	29:COM11	-	-	-
	369	-ve	6.382	0.000	0.002	0.000	0.009	15.492
			15:COM3	-	19:COM7	-	19:COM7	14:COM2
			-0.416	-53.253	-0.000	-0.000	-0.002	0.000
			25:COM11	14:COM2	29:COM11	14:COM2	29:COM11	-
442	237	+ve	5.099	46.630	0.004	0.000	0.000	0.000
			15:COM3	14:COM2	19:COM7	-	-	-
			-2.291	0.000	0.000	0.000	0.000	0.000
			25:COM11	-	-	-	-	-
	368	-ve	5.099	0.000	0.004	0.000	0.020	18.572
			15:COM3	-	19:COM7	-	19:COM7	19:COM7
			-2.291	-53.803	0.000	0.000	0.000	0.000
			25:COM11	14:COM2	-	-	-	-
444	239	+ve	0.000	43.309	0.022	0.000	0.000	0.000
			-	14:COM2	15:COM3	-	-	-
			-13.454	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	367	-ve	0.000	0.000	0.022	0.000	0.113	36.717
			-	-	15:COM3	-	15:COM3	19:COM7
			-13.454	-57.127	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-



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455	249	+ve	0.000	0.000	1.776	0.000	0.000	0.000
			-	-	15:COM3	-	-	-
			-109.143	-22.417	0.000	-6.239	-3.172	-84.274
			14:COM2	17:COM5	-	17:COM5	14:COM2	14:COM2
	72	-ve	0.000	0.000	1.776	0.000	3.164	68.601
			-	-	15:COM3	-	15:COM3	15:COM3
			-121.246	-61.467	0.000	-6.239	0.000	0.000
			14:COM2	14:COM2	-	17:COM5	-	-
456	250	+ve	0.000	15.492	0.299	0.000	0.000	0.000
			-	15:COM3	15:COM3	-	-	-
			-157.902	0.000	-0.241	-5.138	-2.997	-105.871
			14:COM2	-	25:COM1	17:COM5	17:COM5	17:COM5
	249	-ve	0.000	0.000	0.299	0.000	0.000	0.000
			-	-	15:COM3	-	-	-
			-167.965	-25.118	-0.241	-5.138	-2.685	-89.741
			14:COM2	17:COM5	25:COM1	17:COM5	17:COM5	14:COM2
457	251	+ve	0.000	49.212	0.000	5.229	1.195	6.627
			-	14:COM2	-	19:COM7	15:COM3	23:COM1
			-101.287	0.000	-1.913	0.000	-0.789	-49.719
			21:COM9	-	17:COM5	-	25:COM1	17:COM5
	250	-ve	0.000	18.253	0.000	5.229	0.000	0.000
			-	15:COM3	-	19:COM7	-	-
			-110.430	0.000	-1.913	0.000	-4.864	-122.765
			21:COM9	-	17:COM5	-	14:COM2	17:COM5
488	275	+ve	225.070	0.000	0.000	46.096	23.683	245.748
			19:COM7	-	-	15:COM3	19:COM7	19:COM7
			-44.692	-163.600	-36.036	-3.066	0.000	0.000
			29:COM1	14:COM2	21:COM9	25:COM1	-	-
	124	-ve	227.638	0.000	0.000	46.096	5.112	357.924
			19:COM7	-	-	15:COM3	15:COM3	19:COM7
			-43.029	-173.220	-36.036	-3.066	-2.908	0.000
			29:COM1	14:COM2	21:COM9	25:COM1	25:COM1	-
489	276	+ve	12.703	0.000	3.718	5.565	0.000	0.000
			27:COM1	-	19:COM7	23:COM1	-	-
			-124.459	-57.596	0.000	-16.644	-6.795	-109.119
			21:COM9	21:COM9	-	17:COM5	21:COM9	21:COM9
	275	-ve	20.126	0.000	3.718	5.565	9.186	205.326
			27:COM1	-	19:COM7	23:COM1	19:COM7	19:COM7
			-113.002	-97.282	0.000	-16.644	0.000	0.000
			21:COM9	21:COM9	-	17:COM5	-	-
490	277	+ve	0.000	30.705	3.180	3.149	0.000	0.000
			-	19:COM7	19:COM7	23:COM1	-	-
			-305.791	0.000	0.000	-11.225	-8.360	-78.609
			17:COM5	-	-	17:COM5	14:COM2	14:COM2
	276	-ve	0.000	0.000	3.180	3.149	2.353	0.000
			-	-	19:COM7	23:COM1	19:COM7	-
			-294.334	-33.158	0.000	-11.225	-1.292	-106.182
			17:COM5	21:COM9	-	17:COM5	29:COM1	21:COM9



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491	278	+ve	0.000	0.000	12.372	0.000	0.000	144.013
			-	-	15:COM3	-	-	19:COM7
			-340.281	-91.405	-0.898	-14.297	-14.929	0.000
			21:COM9	21:COM9	25:COM11	17:COM5	21:COM9	-
	115	-ve	0.000	0.000	12.372	0.000	1.229	246.157
			-	-	15:COM3	-	23:COM11	19:COM7
			-344.231	-105.090	-0.898	-14.297	-9.573	0.000
			21:COM9	21:COM9	25:COM11	17:COM5	17:COM5	-
492	279	+ve	0.000	0.000	0.000	0.000	2.374	0.000
			-	-	-	-	19:COM7	-
			-366.609	-63.055	-2.645	-6.585	-0.215	-93.614
			21:COM9	21:COM9	14:COM2	14:COM2	29:COM11	14:COM2
	278	-ve	0.000	0.000	0.000	0.000	0.000	158.276
			-	-	-	-	-	19:COM7
			-378.066	-102.741	-2.645	-6.585	-6.599	0.000
			21:COM9	21:COM9	14:COM2	14:COM2	14:COM2	-
493	280	+ve	24.502	19.518	0.655	0.000	9.282	0.000
			27:COM11	19:COM7	23:COM11	-	15:COM3	-
			-288.830	0.000	-1.984	-7.862	0.000	-129.021
			21:COM9	-	17:COM5	17:COM5	-	21:COM9
	279	-ve	17.078	0.000	0.655	0.000	5.784	0.000
			27:COM11	-	23:COM11	-	19:COM7	-
			-300.289	-34.348	-1.984	-7.862	0.000	-89.612
			21:COM9	21:COM9	17:COM5	17:COM5	-	17:COM5
494	281	+ve	248.367	0.000	0.000	3.167	21.778	0.000
			15:COM3	-	-	27:COM11	15:COM3	-
			-47.317	-90.891	-15.508	-11.821	0.000	-162.886
			25:COM11	14:COM2	17:COM5	21:COM9	-	17:COM5
	113	-ve	259.601	0.000	0.000	3.167	0.000	218.839
			15:COM3	-	-	27:COM11	-	15:COM3
			-40.038	-131.746	-15.508	-11.821	-22.891	0.000
			25:COM11	14:COM2	17:COM5	21:COM9	17:COM5	-
495	282	+ve	90.801	8.891	0.000	10.796	16.517	0.000
			23:COM11	15:COM3	-	19:COM7	15:COM3	-
			-160.103	-3.142	-5.083	0.000	0.000	-210.657
			17:COM5	25:COM11	17:COM5	-	-	17:COM5
	281	-ve	98.078	0.000	0.000	10.796	5.073	0.000
			23:COM11	-	-	19:COM7	19:COM7	-
			-148.871	-40.034	-5.083	0.000	0.000	-177.881
			17:COM5	17:COM5	17:COM5	-	-	17:COM5
496	283	+ve	8.309	70.253	0.000	0.931	9.095	0.000
			23:COM11	15:COM3	-	27:COM11	15:COM3	-
			-287.525	0.000	-2.416	-2.429	0.000	-54.376
			17:COM5	-	17:COM5	21:COM9	-	21:COM9
	282	-ve	15.587	32.483	0.000	0.931	4.483	0.000
			23:COM11	15:COM3	-	27:COM11	19:COM7	-
			-276.291	0.000	-2.416	-2.429	0.000	-201.876
			17:COM5	-	17:COM5	21:COM9	-	17:COM5



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498	113	+ve	107.872	84.311	0.005	0.000	0.624	120.911
			19:COM7	14:COM2	23:COM1'	-	15:COM3	14:COM2
			0.000	0.000	-0.131	-0.910	-0.057	0.000
			-	-	17:COM5	17:COM5	25:COM1'	-
	286	-ve	47.438	0.000	0.005	0.000	0.000	100.044
			19:COM7	-	23:COM1'	-	-	14:COM2
			-0.412	-79.681	-0.131	-0.910	-0.553	0.000
			29:COM1'	14:COM2	17:COM5	17:COM5	17:COM5	-
499	286	+ve	243.102	2.504	0.000	0.746	12.809	0.000
			14:COM2	23:COM1'	-	23:COM1'	15:COM3	-
			0.000	-19.438	-10.578	-3.733	0.000	-39.652
			-	17:COM5	17:COM5	17:COM5	-	17:COM5
	307	-ve	243.102	0.000	0.000	0.746	0.000	9.466
			14:COM2	-	-	23:COM1'	-	15:COM3
			0.000	-29.623	-10.578	-3.733	-8.360	-0.332
			-	17:COM5	17:COM5	17:COM5	17:COM5	25:COM1'
500	286	+ve	34.519	61.288	0.000	0.000	0.380	79.608
			15:COM3	14:COM2	-	-	15:COM3	14:COM2
			0.000	0.000	-0.128	-1.921	0.000	0.000
			-	-	17:COM5	21:COM9	-	-
	310	-ve	76.397	0.000	0.000	0.000	0.000	32.076
			14:COM2	-	-	-	-	15:COM3
			0.000	-40.951	-0.128	-1.921	-0.342	-2.448
			-	14:COM2	17:COM5	21:COM9	17:COM5	25:COM1'
504	251	+ve	37.131	10.124	0.000	0.000	0.458	0.000
			19:COM7	14:COM2	-	-	15:COM3	-
			0.000	0.000	-0.226	-5.189	0.000	-20.584
			-	-	17:COM5	17:COM5	-	17:COM5
	309	-ve	14.303	0.000	0.000	0.000	0.000	50.609
			19:COM7	-	-	-	-	14:COM2
			0.000	-51.819	-0.226	-5.189	-0.312	0.000
			-	14:COM2	17:COM5	17:COM5	17:COM5	-
505	250	+ve	15.341	5.111	0.000	0.000	0.213	0.000
			19:COM7	15:COM3	-	-	15:COM3	-
			0.000	0.000	-0.067	-5.046	0.000	-18.724
			-	-	17:COM5	14:COM2	-	21:COM9
	308	-ve	0.000	0.000	0.000	0.000	0.047	73.906
			-	-	-	-	15:COM3	14:COM2
			-17.008	-58.130	-0.067	-5.046	-0.024	0.000
			21:COM9	14:COM2	17:COM5	14:COM2	25:COM1'	-
506	249	+ve	0.000	2.520	0.141	0.000	0.004	0.000
			-	23:COM1'	15:COM3	-	23:COM1'	-
			-30.164	-4.531	0.000	-2.590	-0.159	-5.017
			21:COM9	17:COM5	-	14:COM2	17:COM5	21:COM9
	302	-ve	0.000	0.000	0.141	0.000	0.205	61.222
			-	-	15:COM3	-	15:COM3	15:COM3
			-47.461	-47.933	0.000	-2.590	0.000	0.000
			21:COM9	14:COM2	-	14:COM2	-	-



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
508	282	+ve	45.759	25.523	0.000	0.000	0.487	0.000
			15:COM3	14:COM2	-	-	15:COM3	-
			0.000	0.000	-0.161	-0.201	0.000	-16.299
			-	-	17:COM5	17:COM5	-	17:COM5
	306	-ve	14.083	0.000	0.000	0.000	0.000	68.239
			15:COM3	-	-	-	-	14:COM2
			-1.927	-60.410	-0.161	-0.201	-0.274	0.000
			25:COM1	14:COM2	17:COM5	17:COM5	21:COM9	-
509	283	+ve	2.376	0.000	0.000	1.464	1.028	0.000
			23:COM1	-	-	14:COM2	15:COM3	-
			-8.098	-3.562	-0.617	0.000	0.000	-9.732
			17:COM5	17:COM5	14:COM2	-	-	21:COM9
	305	-ve	0.000	0.000	0.000	1.464	0.000	55.590
			-	-	-	14:COM2	-	14:COM2
			-25.395	-48.693	-0.617	0.000	-0.580	0.000
			17:COM5	14:COM2	14:COM2	-	14:COM2	-
510	281	+ve	80.551	53.613	0.000	0.000	0.402	25.002
			14:COM2	14:COM2	-	-	15:COM3	15:COM3
			0.000	0.000	-0.094	-1.030	0.000	0.000
			-	-	17:COM5	17:COM5	-	-
	307	-ve	33.720	0.000	0.000	0.000	0.000	83.519
			15:COM3	-	-	-	-	14:COM2
			0.000	-71.349	-0.094	-1.030	-0.246	0.000
			-	14:COM2	17:COM5	17:COM5	17:COM5	-
513	65	+ve	0.000	159.288	11.378	0.000	0.000	337.050
			-	15:COM3	15:COM3	-	-	15:COM3
			-331.921	0.000	0.000	-3.545	-15.988	0.000
			17:COM5	-	-	17:COM5	17:COM5	-
	233	-ve	0.000	136.075	11.378	0.000	9.045	21.215
			-	15:COM3	15:COM3	-	15:COM3	23:COM1
			-331.921	0.000	0.000	-3.545	0.000	-66.389
			17:COM5	-	-	17:COM5	-	17:COM5
515	110	+ve	2.116	35.862	2.124	0.000	4.778	40.345
			19:COM7	13:COM1	15:COM3	13:COM1	15:COM3	13:COM1
			-2.116	0.000	-2.124	0.000	-4.778	0.000
			21:COM9	-	17:COM5	-	17:COM5	-
	64	-ve	2.116	0.000	2.124	0.000	0.000	0.000
			19:COM7	-	15:COM3	13:COM1	14:COM2	13:COM1
			-2.116	-0.000	-2.124	0.000	0.000	0.000
			21:COM9	13:COM1	17:COM5	-	-	-
518	233	+ve	0.000	95.930	1.871	0.000	0.000	21.215
			-	15:COM3	15:COM3	-	-	23:COM1
			-252.592	0.000	-0.015	-3.545	-2.844	-66.389
			17:COM5	-	25:COM1	17:COM5	17:COM5	17:COM5
	235	-ve	0.000	72.716	1.871	0.000	1.275	0.000
			-	15:COM3	15:COM3	-	15:COM3	-
			-252.592	0.000	-0.015	-3.545	-0.083	-199.396
			17:COM5	-	25:COM1	17:COM5	25:COM1	14:COM2



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519	235	+ve	0.000	30.765	0.165	0.000	0.268	0.000
			-	15:COM3	23:COM1'	-	27:COM1'	-
			-244.643	-0.162	-0.417	-3.545	-0.544	-199.396
			17:COM5	25:COM1'	17:COM5	17:COM5	21:COM9	14:COM2
	237	-ve	0.000	7.949	0.165	0.000	0.000	0.000
			-	23:COM1'	23:COM1'	-	-	-
			-244.643	-17.969	-0.417	-3.545	-0.807	-215.636
			17:COM5	17:COM5	17:COM5	17:COM5	17:COM5	17:COM5
520	237	+ve	0.000	0.000	0.000	0.000	2.466	0.000
			-	-	-	-	15:COM3	-
			-270.759	-59.468	-3.066	-3.545	0.000	-215.636
			17:COM5	17:COM5	17:COM5	17:COM5	-	17:COM5
	239	-ve	0.000	0.000	0.000	0.000	0.000	0.548
			-	-	-	-	-	23:COM1'
			-270.759	-82.681	-3.066	-3.545	-4.321	-115.472
			17:COM5	17:COM5	17:COM5	17:COM5	17:COM5	17:COM5
521	239	+ve	0.000	0.000	0.000	0.000	4.050	0.548
			-	-	-	-	19:COM7	23:COM1'
			-389.809	-121.414	-6.708	-3.545	0.000	-115.472
			17:COM5	17:COM5	21:COM9	17:COM5	-	17:COM5
	60	-ve	0.000	0.000	0.000	0.000	0.000	267.108
			-	-	-	-	-	15:COM3
			-389.809	-144.627	-6.708	-3.545	-10.723	0.000
			17:COM5	17:COM5	21:COM9	17:COM5	21:COM9	-
522	302	+ve	104.784	0.000	32.117	42.892	0.000	0.000
			15:COM3	-	14:COM2	14:COM2	-	-
			0.000	-98.570	0.000	0.000	-10.464	-11.527
			-	14:COM2	-	-	14:COM2	17:COM5
	131	-ve	104.784	0.000	32.117	42.892	15.658	71.027
			15:COM3	-	14:COM2	14:COM2	14:COM2	14:COM2
			0.000	-102.709	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
523	303	+ve	253.148	7.396	0.000	17.941	7.230	1.085
			15:COM3	23:COM1'	-	19:COM7	15:COM3	23:COM1'
			0.000	-13.940	-9.584	0.000	-0.222	-14.963
			-	17:COM5	17:COM5	-	25:COM1'	17:COM5
	286	-ve	253.148	0.000	0.000	17.941	0.000	23.406
			15:COM3	-	-	19:COM7	-	15:COM3
			0.000	-24.124	-9.584	0.000	-11.958	-6.356
			-	17:COM5	17:COM5	-	17:COM5	25:COM1'
524	304	+ve	268.407	2.590	2.402	27.778	0.000	0.000
			19:COM7	15:COM3	19:COM7	19:COM7	-	-
			0.000	0.000	0.000	0.000	-3.611	-16.072
			-	-	-	-	21:COM9	21:COM9
	303	-ve	268.407	0.000	2.402	27.778	1.394	0.000
			19:COM7	-	19:COM7	19:COM7	15:COM3	-
			0.000	-9.597	0.000	0.000	-0.290	-9.211
			-	13:COM1	-	-	25:COM1'	21:COM9



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525	305	+ve	259.877	0.000	0.424	0.000	0.513	0.000
			15:COM3	-	27:COM1!	-	27:COM1!	-
			0.000	-64.112	-0.713	-12.932	-0.613	-93.661
			-	17:COM5	21:COM9	21:COM9	21:COM9	17:COM5
	70	-ve	259.877	0.000	0.424	0.000	0.449	69.532
			15:COM3	-	27:COM1!	-	27:COM1!	14:COM2
			0.000	-75.933	-0.713	-12.932	-1.221	0.000
			-	17:COM5	21:COM9	21:COM9	21:COM9	-
526	306	+ve	399.931	1.742	0.000	0.000	2.203	0.000
			15:COM3	23:COM1'	-	-	19:COM7	-
			0.000	-0.080	-2.281	-6.287	0.000	-23.479
			-	17:COM5	21:COM9	17:COM5	-	17:COM5
	305	-ve	399.931	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			0.000	-10.277	-2.281	-6.287	-2.390	-15.673
			-	13:COM1	21:COM9	17:COM5	21:COM9	17:COM5
527	307	+ve	301.165	1.764	0.000	0.000	3.473	0.000
			15:COM3	27:COM1!	-	-	15:COM3	-
			0.000	-1.171	-3.110	-3.834	0.000	-15.677
			-	21:COM9	17:COM5	17:COM5	-	17:COM5
	306	-ve	301.165	0.000	0.000	0.000	0.000	1.238
			15:COM3	-	-	-	-	23:COM1'
			0.000	-11.357	-3.110	-3.834	-2.757	-4.866
			-	21:COM9	17:COM5	17:COM5	17:COM5	17:COM5
528	303	+ve	15.728	69.500	0.013	0.000	0.173	79.779
			19:COM7	14:COM2	23:COM1'	-	15:COM3	14:COM2
			-9.910	0.000	-0.054	-1.132	-0.008	0.000
			29:COM1!	-	17:COM5	17:COM5	25:COM1!	-
	280	-ve	61.496	0.000	0.013	0.000	0.084	30.368
			19:COM7	-	23:COM1'	-	23:COM1'	15:COM3
			0.000	-54.684	-0.054	-1.132	-0.196	0.000
			-	14:COM2	17:COM5	17:COM5	17:COM5	-
529	304	+ve	0.000	55.460	0.066	0.000	0.000	66.012
			-	14:COM2	19:COM7	-	-	15:COM3
			-29.127	0.000	0.000	-2.164	-0.090	0.000
			21:COM9	-	-	17:COM5	17:COM5	-
	279	-ve	21.775	0.000	0.066	0.000	0.234	5.780
			19:COM7	-	19:COM7	-	19:COM7	15:COM3
			-2.190	-28.919	0.000	-2.164	0.000	-1.653
			29:COM1!	14:COM2	-	17:COM5	-	25:COM1!
530	302	+ve	0.000	0.000	0.624	0.000	0.085	30.490
			-	-	19:COM7	-	27:COM1!	15:COM3
			-39.121	-48.365	-0.165	-4.026	-0.292	0.000
			21:COM9	21:COM9	29:COM1!	17:COM5	21:COM9	-
	311	-ve	0.000	0.000	0.624	0.000	0.272	78.013
			-	-	19:COM7	-	19:COM7	15:COM3
			-33.063	-62.978	-0.165	-4.026	-0.065	0.000
			21:COM9	21:COM9	29:COM1!	17:COM5	29:COM1!	-



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531	306	+ve	10.142	56.817	0.062	0.643	0.001	65.208
			19:COM7	14:COM2	15:COM3	15:COM3	27:COM1	14:COM2
			0.000	0.000	0.000	-0.047	-0.036	0.000
			-	-	-	25:COM1	21:COM9	-
	276	-ve	42.846	0.000	0.062	0.643	0.253	4.754
			14:COM2	-	15:COM3	15:COM3	15:COM3	23:COM1
			0.000	-27.567	0.000	-0.047	0.000	-9.853
			-	14:COM2	-	25:COM1	-	17:COM5
532	305	+ve	0.000	46.985	0.565	0.278	0.000	51.431
			-	14:COM2	15:COM3	19:COM7	-	19:COM7
			-20.225	0.000	0.000	-0.108	-0.411	0.000
			17:COM5	-	-	29:COM1	21:COM9	-
	277	-ve	5.258	4.920	0.565	0.278	0.975	0.000
			15:COM3	19:COM7	15:COM3	19:COM7	15:COM3	-
			-4.103	-0.133	0.000	-0.108	0.000	-13.784
			25:COM1	29:COM1	-	29:COM1	-	17:COM5
533	307	+ve	37.563	65.870	0.000	0.505	0.088	83.354
			19:COM7	14:COM2	-	23:COM1	19:COM7	14:COM2
			0.000	0.000	-0.018	-0.759	0.000	0.000
			-	-	17:COM5	17:COM5	-	-
	275	-ve	85.806	0.000	0.000	0.505	0.033	63.794
			14:COM2	-	-	23:COM1	23:COM1	15:COM3
			0.000	-58.319	-0.018	-0.759	-0.045	0.000
			-	14:COM2	17:COM5	17:COM5	17:COM5	-
534	308	+ve	0.000	15.564	28.156	0.000	0.000	0.000
			-	23:COM1	15:COM3	-	-	-
			-74.505	-33.191	0.000	-61.204	-34.430	-264.415
			17:COM5	17:COM5	-	21:COM9	17:COM5	17:COM5
	131	-ve	0.000	0.677	28.156	0.000	25.265	0.000
			-	23:COM1	15:COM3	-	15:COM3	-
			-80.408	-53.040	0.000	-61.204	-7.546	-265.549
			17:COM5	17:COM5	-	21:COM9	25:COM1	17:COM5
535	309	+ve	19.248	55.331	3.173	35.960	0.000	0.000
			23:COM1	15:COM3	23:COM1	19:COM7	-	-
			-12.091	-5.379	-14.223	-15.379	-46.455	-288.590
			17:COM5	25:COM1	17:COM5	29:COM1	17:COM5	17:COM5
	308	-ve	11.866	22.240	3.173	35.960	0.000	0.000
			23:COM1	15:COM3	23:COM1	19:COM7	-	-
			-21.933	-30.197	-14.223	-15.379	-61.534	-307.242
			17:COM5	25:COM1	17:COM5	29:COM1	17:COM5	17:COM5
536	310	+ve	81.296	135.421	0.000	82.679	50.791	122.886
			15:COM3	15:COM3	-	19:COM7	15:COM3	23:COM1
			0.000	0.000	-38.826	0.000	-19.814	-129.517
			-	-	17:COM5	-	25:COM1	17:COM5
	309	-ve	71.500	102.484	0.000	82.679	0.000	0.000
			15:COM3	15:COM3	-	19:COM7	-	-
			0.000	0.000	-38.826	0.000	-72.452	-327.133
			-	-	17:COM5	-	14:COM2	17:COM5



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537	311	+ve	196.460	0.000	0.000	0.000	12.021	144.761
			19:COM7	-	-	-	23:COM1'	15:COM3
			0.000	-377.653	-45.952	-139.367	-40.739	-81.963
			-	17:COM5	21:COM9	17:COM5	17:COM5	25:COM1'
	115	-ve	200.068	0.000	0.000	0.000	0.000	552.768
			19:COM7	-	-	-	-	15:COM3
			0.000	-389.784	-45.952	-139.367	-83.561	0.000
			-	17:COM5	21:COM9	17:COM5	17:COM5	-
538	310	+ve	13.110	36.038	0.000	0.968	0.582	32.948
			19:COM7	14:COM2	-	15:COM3	15:COM3	15:COM3
			0.000	0.000	-0.379	-0.669	0.000	0.000
			-	-	17:COM5	25:COM1'	-	-
	63	-ve	36.047	0.000	0.000	0.968	0.000	13.344
			14:COM2	-	-	15:COM3	-	15:COM3
			0.000	-25.720	-0.379	-0.669	-0.704	-0.395
			-	14:COM2	17:COM5	25:COM1'	17:COM5	25:COM1'
539	309	+ve	46.811	9.539	0.000	0.000	0.315	0.000
			14:COM2	15:COM3	-	-	15:COM3	-
			0.000	-2.067	-0.167	-2.415	0.000	-26.593
			-	25:COM1'	17:COM5	21:COM9	-	21:COM9
	303	-ve	20.699	0.000	0.000	0.000	0.000	69.765
			14:COM2	-	-	-	-	14:COM2
			0.000	-56.650	-0.167	-2.415	-0.263	0.000
			-	14:COM2	17:COM5	21:COM9	17:COM5	-
540	308	+ve	27.552	0.000	0.381	0.000	0.048	0.514
			19:COM7	-	19:COM7	-	27:COM1'	27:COM1'
			0.000	-44.949	0.000	-2.438	-0.045	-16.722
			-	17:COM5	-	21:COM9	21:COM9	21:COM9
	304	-ve	18.844	0.000	0.381	0.000	0.452	59.965
			19:COM7	-	19:COM7	-	19:COM7	15:COM3
			0.000	-65.962	0.000	-2.438	0.000	0.000
			-	17:COM5	-	21:COM9	-	-
541	311	+ve	0.000	44.130	0.050	0.000	0.101	63.897
			-	14:COM2	19:COM7	-	19:COM7	15:COM3
			-52.349	0.000	-0.051	-2.666	-0.047	0.000
			21:COM9	-	29:COM1'	17:COM5	29:COM1'	-
	278	-ve	0.000	18.965	0.050	0.000	0.071	15.247
			-	15:COM3	19:COM7	-	15:COM3	15:COM3
			-41.970	0.000	-0.051	-2.666	-0.017	0.000
			21:COM9	-	29:COM1'	17:COM5	25:COM1'	-
543	69	+ve	17.902	16.122	1.428	0.262	0.000	16.596
			27:COM1'	19:COM7	19:COM7	23:COM1'	-	19:COM7
			-39.850	0.000	0.000	-0.551	-1.609	0.000
			21:COM9	-	-	17:COM5	21:COM9	-
	362	-ve	11.127	0.000	1.428	0.262	0.841	17.605
			27:COM1'	-	19:COM7	23:COM1'	19:COM7	15:COM3
			-51.243	-17.421	0.000	-0.551	0.000	0.000
			21:COM9	21:COM9	-	17:COM5	-	-



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
544	314	+ve	241.034	3.214	4.964	0.000	0.000	0.000
			14:COM2	19:COM7	19:COM7	-	-	-
			0.000	0.000	0.000	-2.953	-5.614	-12.956
			-	-	-	21:COM9	21:COM9	21:COM9
	358	-ve	241.034	0.000	4.964	0.000	4.344	0.000
			14:COM2	-	19:COM7	-	19:COM7	-
			0.000	-9.236	0.000	-2.953	0.000	-6.075
			-	21:COM9	-	21:COM9	-	17:COM5
545	314	+ve	30.590	61.700	0.090	1.951	0.000	73.998
			14:COM2	14:COM2	14:COM2	19:COM7	-	14:COM2
			0.000	0.000	0.000	0.000	-0.253	0.000
			-	-	-	-	14:COM2	-
	361	-ve	73.472	0.000	0.090	1.951	0.265	26.764
			14:COM2	-	14:COM2	19:COM7	14:COM2	15:COM3
			0.000	-42.925	0.000	0.000	0.000	-1.028
			-	14:COM2	-	-	-	25:COM1;
581	346	+ve	39.229	12.585	0.163	5.369	0.000	0.000
			14:COM2	14:COM2	14:COM2	15:COM3	-	-
			0.000	0.000	0.000	0.000	-0.362	-19.479
			-	-	-	-	14:COM2	17:COM5
	360	-ve	16.741	0.000	0.163	5.369	0.186	40.948
			19:COM7	-	14:COM2	15:COM3	14:COM2	14:COM2
			0.000	-48.551	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
582	345	+ve	17.776	4.861	0.036	5.455	0.000	0.000
			19:COM7	15:COM3	14:COM2	14:COM2	-	-
			0.000	0.000	0.000	0.000	-0.153	-19.349
			-	-	-	-	14:COM2	14:COM2
	359	-ve	0.000	0.000	0.036	5.455	0.000	69.315
			-	-	14:COM2	14:COM2	-	14:COM2
			-10.697	-56.995	0.000	0.000	-0.037	0.000
			21:COM9	14:COM2	-	-	21:COM9	-
583	344	+ve	0.000	1.871	0.000	2.866	0.060	0.000
			-	23:COM1'	-	14:COM2	19:COM7	-
			-34.415	-3.241	-0.082	0.000	-0.001	-5.038
			21:COM9	17:COM5	21:COM9	-	29:COM1;	21:COM9
	347	-ve	0.000	0.000	0.000	2.866	0.000	58.952
			-	-	-	14:COM2	-	15:COM3
			-52.411	-48.061	-0.082	0.000	-0.156	0.000
			14:COM2	14:COM2	21:COM9	-	21:COM9	-
584	353	+ve	76.727	59.448	0.037	0.971	0.000	58.014
			14:COM2	14:COM2	15:COM3	19:COM7	-	15:COM3
			0.000	0.000	0.000	-0.141	-0.125	0.000
			-	-	-	29:COM1;	17:COM5	-
	358	-ve	30.201	0.000	0.037	0.971	0.135	80.867
			19:COM7	-	15:COM3	19:COM7	19:COM7	14:COM2
			0.000	-66.919	0.000	-0.141	0.000	0.000
			-	14:COM2	-	29:COM1;	-	-



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
585	352	+ve	32.537	30.242	0.000	0.370	0.137	6.931
			19:COM7	14:COM2	-	15:COM3	15:COM3	15:COM3
			0.000	0.000	-0.017	0.000	0.000	-5.545
			-	-	17:COM5	-	-	25:COM1;
	357	-ve	2.326	0.000	0.000	0.370	0.061	65.090
			27:COM1;	-	-	15:COM3	19:COM7	14:COM2
			-6.288	-56.721	-0.017	0.000	0.000	0.000
			21:COM9	14:COM2	17:COM5	-	-	-
586	351	+ve	0.000	3.391	0.000	0.356	0.224	8.221
			-	14:COM2	-	19:COM7	15:COM3	15:COM3
			-37.212	0.000	-0.063	-0.137	0.000	-3.125
			21:COM9	-	17:COM5	29:COM1;	-	25:COM1;
	356	-ve	0.000	0.000	0.000	0.356	0.099	56.689
			-	-	-	19:COM7	15:COM3	14:COM2
			-54.549	-44.169	-0.063	-0.137	-0.011	0.000
			21:COM9	14:COM2	17:COM5	29:COM1;	25:COM1;	-
599	341	+ve	36.509	0.000	4.422	0.000	0.000	0.000
			23:COM11	-	19:COM7	-	-	-
			-85.656	-42.834	0.000	-8.268	-5.845	-80.181
			17:COM5	14:COM2	-	17:COM5	21:COM9	17:COM5
	69	-ve	42.221	0.000	4.422	0.000	6.891	101.503
			23:COM11	-	19:COM7	-	19:COM7	15:COM3
			-76.511	-76.666	0.000	-8.268	0.000	0.000
			17:COM5	14:COM2	-	17:COM5	-	-
600	342	+ve	23.284	2.318	1.655	0.000	0.000	0.000
			23:COM11	15:COM3	19:COM7	-	-	-
			-82.508	0.000	0.000	-3.711	-4.931	-108.265
			17:COM5	-	-	14:COM2	17:COM5	17:COM5
	341	-ve	28.995	0.000	1.655	0.000	0.110	0.000
			23:COM11	-	19:COM7	-	27:COM1;	-
			-73.364	-32.407	0.000	-3.711	-0.593	-69.686
			17:COM5	14:COM2	-	14:COM2	21:COM9	17:COM5
601	343	+ve	0.000	34.707	0.000	2.439	0.000	0.000
			-	14:COM2	-	14:COM2	-	-
			-147.066	0.000	-0.267	0.000	-1.529	-44.256
			17:COM5	-	17:COM5	-	17:COM5	17:COM5
	342	-ve	0.000	2.722	0.000	2.439	0.000	0.000
			-	15:COM3	-	14:COM2	-	-
			-137.921	-1.159	-0.267	0.000	-2.105	-96.361
			17:COM5	25:COM1;	17:COM5	-	14:COM2	17:COM5
602	344	+ve	0.000	0.000	0.000	5.766	3.152	0.000
			-	-	-	15:COM3	14:COM2	-
			-133.353	-21.434	-1.570	0.000	0.000	-95.307
			14:COM2	17:COM5	14:COM2	-	-	14:COM2
	68	-ve	0.000	0.000	0.000	5.766	0.000	53.519
			-	-	-	15:COM3	-	15:COM3
			-145.457	-61.524	-1.570	0.000	-2.510	0.000
			14:COM2	14:COM2	14:COM2	-	17:COM5	-



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603	345	+ve	0.000	14.505	0.113	4.562	3.112	0.000
			-	15:COM3	23:COM1'	15:COM3	15:COM3	-
			-171.615	0.000	-0.182	0.000	0.000	-115.226
			21:COM9	-	17:COM5	-	-	14:COM2
	344	-ve	0.000	0.000	0.113	4.562	2.950	0.000
			-	-	23:COM1'	15:COM3	14:COM2	-
			-181.415	-23.353	-0.182	0.000	0.000	-100.967
			14:COM2	17:COM5	17:COM5	-	-	14:COM2
604	346	+ve	0.000	49.632	1.520	0.000	0.882	0.000
			-	14:COM2	14:COM2	-	15:COM3	-
			-104.743	0.000	0.000	-5.902	-0.358	-52.895
			21:COM9	-	-	21:COM9	25:COM1'	17:COM5
	345	-ve	0.000	17.606	1.520	0.000	4.739	0.000
			-	15:COM3	14:COM2	-	14:COM2	-
			-113.887	0.000	0.000	-5.902	0.000	-133.126
			21:COM9	-	-	21:COM9	-	14:COM2
605	347	+ve	111.044	0.000	0.000	0.000	9.747	0.000
			19:COM7	-	-	-	14:COM2	-
			0.000	-102.187	-36.250	-46.519	0.000	-6.900
			-	14:COM2	14:COM2	14:COM2	-	17:COM5
	132	-ve	111.044	0.000	0.000	0.000	0.000	66.177
			19:COM7	-	-	-	-	14:COM2
			0.000	-105.713	-36.250	-46.519	-15.368	0.000
			-	14:COM2	14:COM2	14:COM2	14:COM2	-
606	348	+ve	124.462	0.000	1.454	0.000	2.755	0.000
			19:COM7	-	27:COM1'	-	19:COM7	-
			-108.468	-78.893	-1.159	-20.833	-0.351	-58.142
			29:COM1'	14:COM2	21:COM9	17:COM5	29:COM1'	21:COM9
	134	-ve	131.235	0.000	1.454	0.000	2.902	112.209
			19:COM7	-	27:COM1'	-	19:COM7	14:COM2
			-104.081	-104.798	-1.159	-20.833	0.000	0.000
			29:COM1'	14:COM2	21:COM9	17:COM5	-	-
607	349	+ve	0.000	22.722	0.000	5.947	8.213	0.000
			-	15:COM3	-	15:COM3	19:COM7	-
			-274.918	0.000	-2.584	-1.310	0.000	-77.963
			21:COM9	-	21:COM9	25:COM1'	-	14:COM2
	348	-ve	0.000	0.000	0.000	5.947	1.550	0.000
			-	-	-	15:COM3	19:COM7	-
			-263.697	-20.371	-2.584	-1.310	-0.064	-81.671
			21:COM9	17:COM5	21:COM9	25:COM1'	29:COM1'	14:COM2
608	350	+ve	0.000	95.546	1.565	4.368	0.000	138.492
			-	14:COM2	19:COM7	15:COM3	-	14:COM2
			-386.052	0.000	0.000	0.000	-5.268	0.000
			21:COM9	-	-	-	17:COM5	-
	349	-ve	0.000	52.618	1.565	4.368	0.102	0.000
			-	14:COM2	19:COM7	15:COM3	27:COM1'	-
			-374.829	0.000	0.000	0.000	-1.578	-84.771
			21:COM9	-	-	-	21:COM9	14:COM2



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609	351	+ve	0.000	0.000	0.000	12.182	7.942	0.000
			-	-	-	19:COM7	19:COM7	-
			-243.449	-54.013	-3.347	0.000	0.000	-28.799
			17:COM5	21:COM9	21:COM9	-	-	17:COM5
	121	-ve	0.000	0.000	0.000	12.182	1.290	154.057
			-	-	-	19:COM7	27:COM1!	19:COM7
			-252.543	-86.173	-3.347	0.000	-1.896	0.000
			17:COM5	21:COM9	21:COM9	-	21:COM9	-
610	352	+ve	0.000	16.323	0.286	13.284	0.835	0.000
			-	19:COM7	27:COM1!	15:COM3	27:COM1!	-
			-285.810	-9.846	-0.819	0.000	-2.260	-96.516
			21:COM9	29:COM1!	21:COM9	-	21:COM9	21:COM9
	351	-ve	0.000	0.000	0.286	13.284	0.000	0.604
			-	-	27:COM1!	15:COM3	-	23:COM1!
			-297.033	-48.673	-0.819	0.000	-2.316	-27.879
			21:COM9	21:COM9	21:COM9	-	17:COM5	17:COM5
611	353	+ve	5.153	82.428	0.000	15.778	5.193	154.703
			27:COM1!	19:COM7	-	15:COM3	19:COM7	19:COM7
			-149.074	0.000	-2.184	-2.449	-0.653	-10.745
			21:COM9	-	14:COM2	25:COM1!	29:COM1!	29:COM1!
	352	-ve	0.000	42.742	0.000	15.778	0.301	0.000
			-	19:COM7	-	15:COM3	27:COM1!	-
			-160.296	0.000	-2.184	-2.449	-5.460	-96.795
			21:COM9	-	14:COM2	25:COM1!	21:COM9	21:COM9
612	354	+ve	265.361	9.377	2.519	0.000	0.090	1.685
			14:COM2	19:COM7	19:COM7	-	27:COM1!	27:COM1!
			0.000	0.000	0.000	-14.479	-1.283	-4.595
			-	-	-	21:COM9	21:COM9	21:COM9
	314	-ve	265.361	0.000	2.519	0.000	3.760	1.418
			14:COM2	-	19:COM7	-	19:COM7	27:COM1!
			0.000	-6.934	0.000	-14.479	0.000	-8.075
			-	21:COM9	-	21:COM9	-	21:COM9
613	355	+ve	275.183	4.663	0.000	0.000	3.940	0.000
			14:COM2	15:COM3	-	-	15:COM3	-
			0.000	0.000	-3.240	-28.079	0.000	-15.787
			-	-	17:COM5	14:COM2	-	21:COM9
	354	-ve	275.183	0.000	0.000	0.000	0.000	0.000
			14:COM2	-	-	-	-	-
			0.000	-8.045	-3.240	-28.079	-2.547	-11.840
			-	13:COM1	17:COM5	14:COM2	17:COM5	21:COM9
614	356	+ve	185.987	0.000	0.000	0.000	10.899	0.000
			15:COM3	-	-	-	14:COM2	-
			0.000	-84.763	-22.771	-10.444	0.000	-42.009
			-	14:COM2	21:COM9	21:COM9	-	17:COM5
	137	-ve	185.987	0.000	0.000	0.000	0.000	30.607
			15:COM3	-	-	-	-	14:COM2
			0.000	-88.962	-22.771	-10.444	-7.967	0.000
			-	14:COM2	21:COM9	21:COM9	21:COM9	-



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615	357	+ve	280.182	3.852	0.000	0.000	3.054	0.000
			15:COM3	13:COM1	-	-	15:COM3	-
			0.000	0.000	-3.672	-8.502	0.000	-20.648
			-	-	21:COM9	21:COM9	-	21:COM9
	356	-ve	280.182	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			0.000	-8.075	-3.672	-8.502	-4.337	-17.449
			-	17:COM5	21:COM9	21:COM9	21:COM9	17:COM5
616	358	+ve	282.290	7.869	0.755	0.000	0.000	0.000
			15:COM3	19:COM7	19:COM7	-	-	-
			0.000	0.000	0.000	-8.159	-1.235	-7.709
			-	-	-	14:COM2	21:COM9	17:COM5
	357	-ve	282.290	0.000	0.755	0.000	0.278	0.000
			15:COM3	-	19:COM7	-	19:COM7	-
			0.000	-4.989	0.000	-8.159	-0.162	-11.733
			-	21:COM9	-	14:COM2	29:COM1	21:COM9
617	354	+ve	24.327	70.607	0.000	1.421	0.027	84.543
			19:COM7	14:COM2	-	15:COM3	19:COM7	14:COM2
			0.000	0.000	-0.018	0.000	0.000	0.000
			-	-	17:COM5	-	-	-
	348	-ve	70.395	0.000	0.000	1.421	0.000	33.059
			19:COM7	-	-	15:COM3	-	14:COM2
			0.000	-55.759	-0.018	0.000	-0.109	0.000
			-	14:COM2	17:COM5	-	17:COM5	-
618	355	+ve	0.865	57.178	0.000	2.380	0.111	68.703
			27:COM1	14:COM2	-	14:COM2	15:COM3	14:COM2
			-17.894	0.000	-0.086	0.000	0.000	0.000
			21:COM9	-	17:COM5	-	-	-
	349	-ve	27.137	0.000	0.000	2.380	0.000	5.094
			19:COM7	-	-	14:COM2	-	15:COM3
			0.000	-29.785	-0.086	0.000	-0.314	-1.345
			-	14:COM2	17:COM5	-	21:COM9	25:COM1
619	347	+ve	0.000	0.000	0.000	4.717	0.326	28.950
			-	-	-	14:COM2	19:COM7	15:COM3
			-47.003	-57.134	-1.074	0.000	0.000	0.000
			21:COM9	21:COM9	21:COM9	-	-	-
	366	-ve	0.000	0.000	0.000	4.717	0.000	72.791
			-	-	-	14:COM2	-	15:COM3
			-42.035	-69.256	-1.074	0.000	-0.480	0.000
			21:COM9	21:COM9	21:COM9	-	21:COM9	-
620	358	+ve	27.271	63.505	0.100	1.679	0.000	74.458
			15:COM3	14:COM2	14:COM2	15:COM3	-	14:COM2
			0.000	0.000	0.000	0.000	-0.219	0.000
			-	-	-	-	14:COM2	-
	363	-ve	63.950	0.000	0.100	1.679	0.310	0.000
			14:COM2	-	14:COM2	15:COM3	15:COM3	-
			0.000	-31.576	0.000	0.000	0.000	-12.885
			-	14:COM2	-	-	-	17:COM5



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621	357	+ve	10.417	53.478	0.173	1.174	0.000	64.932
			15:COM3	14:COM2	19:COM7	14:COM2	-	14:COM2
			0.000	0.000	0.000	0.000	-0.215	0.000
			-	-	-	-	21:COM9	-
	364	-ve	30.708	1.318	0.173	1.174	0.314	0.000
			14:COM2	23:COM1'	19:COM7	14:COM2	19:COM7	-
			0.000	-2.932	0.000	0.000	0.000	-14.824
			-	17:COM5	-	-	-	17:COM5
622	356	+ve	0.000	39.583	0.000	0.117	0.578	55.936
			-	14:COM2	-	19:COM7	15:COM3	14:COM2
			-25.224	0.000	-0.652	-0.034	0.000	0.000
			17:COM5	-	17:COM5	29:COM1'	-	-
	365	-ve	0.000	23.811	0.000	0.117	0.124	27.908
			-	15:COM3	-	19:COM7	15:COM3	14:COM2
			-19.307	0.000	-0.652	-0.034	-0.030	0.000
			17:COM5	-	17:COM5	29:COM1'	25:COM1'	-
623	359	+ve	0.000	9.396	0.000	48.862	45.353	0.000
			-	23:COM1'	-	19:COM7	15:COM3	-
			-23.167	-26.264	-29.833	0.000	0.000	-285.755
			17:COM5	17:COM5	17:COM5	-	-	14:COM2
	132	-ve	0.000	0.000	0.000	48.862	4.548	0.000
			-	-	-	19:COM7	23:COM1'	-
			-29.536	-47.677	-29.833	0.000	-18.466	-271.037
			17:COM5	17:COM5	17:COM5	-	17:COM5	17:COM5
624	360	+ve	15.274	45.209	4.713	3.483	56.278	0.000
			15:COM3	15:COM3	15:COM3	27:COM1'	15:COM3	-
			0.000	0.000	-3.312	-43.789	0.000	-320.493
			-	-	25:COM1'	21:COM9	-	17:COM5
	359	-ve	7.196	12.449	4.713	3.483	56.235	0.000
			23:COM1'	15:COM3	15:COM3	27:COM1'	14:COM2	-
			-7.969	-24.316	-3.312	-43.789	0.000	-344.984
			17:COM5	25:COM1'	25:COM1'	21:COM9	-	14:COM2
625	361	+ve	58.760	122.488	24.550	0.000	21.405	49.304
			15:COM3	15:COM3	15:COM3	-	15:COM3	23:COM1'
			0.000	0.000	0.000	-88.833	-15.093	-156.982
			-	-	-	21:COM9	25:COM1'	17:COM5
	360	-ve	49.015	89.721	24.550	0.000	72.424	0.000
			15:COM3	15:COM3	15:COM3	-	15:COM3	-
			0.000	0.000	0.000	-88.833	0.000	-358.752
			-	-	-	21:COM9	-	17:COM5
626	361	+ve	8.054	31.387	0.281	0.573	0.000	21.283
			19:COM7	14:COM2	15:COM3	23:COM1'	-	19:COM7
			-0.873	0.000	0.000	-0.688	-0.416	0.000
			29:COM1'	-	-	17:COM5	17:COM5	-
	57	-ve	30.346	0.000	0.281	0.573	0.526	18.540
			19:COM7	-	15:COM3	23:COM1'	15:COM3	15:COM3
			0.000	-29.757	0.000	-0.688	0.000	0.000
			-	14:COM2	-	17:COM5	-	-



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627	360	+ve	49.993	8.389	0.121	2.336	0.000	0.000
			14:COM2	15:COM3	19:COM7	19:COM7	-	-
			0.000	-1.034	0.000	0.000	-0.251	-29.950
			-	25:COM11	-	-	14:COM2	21:COM9
	354	-ve	23.273	0.000	0.121	2.336	0.189	70.719
			14:COM2	-	19:COM7	19:COM7	19:COM7	14:COM2
			0.000	-58.836	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
628	359	+ve	29.684	0.000	0.000	2.233	0.037	0.000
			19:COM7	-	-	19:COM7	15:COM3	-
			0.000	-45.312	-0.220	0.000	-0.033	-22.617
			-	17:COM5	17:COM5	-	25:COM11	21:COM9
	355	-ve	20.290	0.000	0.000	2.233	0.000	60.752
			19:COM7	-	-	19:COM7	-	15:COM3
			0.000	-68.232	-0.220	0.000	-0.275	0.000
			-	17:COM5	17:COM5	-	17:COM5	-
629	362	+ve	248.906	0.000	19.887	4.622	0.438	25.149
			15:COM3	-	15:COM3	15:COM3	23:COM11	23:COM11
			0.000	-146.620	0.000	-2.238	-9.086	-41.087
			-	14:COM2	-	25:COM11	17:COM5	17:COM5
	134	-ve	250.837	0.000	19.887	4.622	13.966	180.083
			15:COM3	-	15:COM3	15:COM3	19:COM7	15:COM3
			0.000	-153.112	0.000	-2.238	0.000	0.000
			-	14:COM2	-	25:COM11	-	-
630	363	+ve	162.199	0.000	4.849	0.000	0.000	0.000
			15:COM3	-	15:COM3	-	-	-
			0.000	-52.055	0.000	-20.685	-13.567	-213.783
			-	14:COM2	-	17:COM5	17:COM5	17:COM5
	362	-ve	167.073	0.000	4.849	0.000	1.164	13.681
			15:COM3	-	15:COM3	-	19:COM7	23:COM11
			0.000	-68.441	0.000	-20.685	-0.459	-63.165
			-	14:COM2	-	17:COM5	29:COM11	17:COM5
631	364	+ve	50.547	19.356	0.398	0.000	0.000	0.000
			23:COM11	15:COM3	15:COM3	-	-	-
			-46.464	0.000	-0.101	-13.538	-9.535	-180.601
			17:COM5	-	25:COM11	17:COM5	17:COM5	17:COM5
	363	-ve	54.579	2.972	0.398	0.000	0.000	0.000
			15:COM3	15:COM3	15:COM3	-	-	-
			-41.968	-4.287	-0.101	-13.538	-8.565	-212.030
			25:COM11	25:COM11	25:COM11	17:COM5	14:COM2	17:COM5
632	365	+ve	29.309	67.502	0.000	7.490	1.224	12.508
			23:COM11	14:COM2	-	14:COM2	15:COM3	15:COM3
			-65.168	0.000	-2.406	0.000	0.000	0.000
			17:COM5	-	21:COM9	-	-	-
	364	-ve	32.962	51.124	0.000	7.490	0.000	0.000
			23:COM11	14:COM2	-	14:COM2	-	-
			-60.298	0.000	-2.406	0.000	-5.828	-164.131
			17:COM5	-	21:COM9	-	21:COM9	17:COM5



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633	362	+ve	92.015	61.786	0.074	1.396	0.000	46.128
			19:COM7	14:COM2	15:COM3	15:COM3	-	14:COM2
			0.000	0.000	0.000	0.000	-0.294	0.000
			-	-	-	-	17:COM5	-
	314	-ve	42.975	0.000	0.074	1.396	0.251	86.527
			19:COM7	-	15:COM3	15:COM3	19:COM7	14:COM2
			0.000	-72.732	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
634	363	+ve	31.202	20.477	1.036	4.709	0.000	0.532
			15:COM3	14:COM2	19:COM7	15:COM3	-	23:COM1'
			0.000	0.000	0.000	0.000	-0.683	-5.873
			-	-	-	-	21:COM9	17:COM5
	341	-ve	42.593	0.000	1.036	4.709	1.094	0.000
			15:COM3	-	19:COM7	15:COM3	19:COM7	-
			0.000	-10.770	0.000	0.000	0.000	-11.501
			-	14:COM2	-	-	-	17:COM5
635	364	+ve	14.377	31.300	0.500	4.167	0.000	13.731
			15:COM3	14:COM2	19:COM7	14:COM2	-	14:COM2
			-1.349	0.000	0.000	0.000	-0.280	0.000
			25:COM1'	-	-	-	21:COM9	-
	342	-ve	25.766	0.569	0.500	4.167	0.585	0.000
			15:COM3	15:COM3	19:COM7	14:COM2	15:COM3	-
			0.000	-0.485	0.000	0.000	0.000	-13.151
			-	25:COM1'	-	-	-	14:COM2
636	365	+ve	0.000	47.648	0.000	1.402	0.154	48.686
			-	14:COM2	-	14:COM2	15:COM3	14:COM2
			-23.628	0.000	-0.123	0.000	0.000	0.000
			17:COM5	-	17:COM5	-	-	-
	343	-ve	4.051	16.431	0.000	1.402	0.000	0.000
			23:COM1'	14:COM2	-	14:COM2	23:COM1'	-
			-12.249	0.000	-0.123	0.000	-0.058	-6.198
			17:COM5	-	17:COM5	-	17:COM5	14:COM2
637	60	+ve	304.932	43.103	138.323	67.098	38.728	77.023
			19:COM7	19:COM7	15:COM3	15:COM3	23:COM1'	27:COM1'
			-15.285	-15.305	-63.289	0.000	-129.862	-55.068
			29:COM1'	29:COM1'	25:COM1'	-	17:COM5	21:COM9
	69	-ve	304.932	34.501	138.323	67.098	31.371	41.564
			19:COM7	27:COM1'	15:COM3	15:COM3	23:COM1'	27:COM1'
			-15.285	-26.618	-63.289	0.000	-36.217	-40.125
			29:COM1'	21:COM9	25:COM1'	-	17:COM5	21:COM9
769	366	+ve	158.727	0.000	54.943	144.287	8.251	8.907
			19:COM7	-	14:COM2	15:COM3	23:COM1'	23:COM1'
			0.000	-319.475	0.000	0.000	-22.189	-147.152
			-	14:COM2	-	-	17:COM5	17:COM5
	118	-ve	162.916	0.000	54.943	144.287	68.523	378.316
			19:COM7	-	14:COM2	15:COM3	15:COM3	15:COM3
			0.000	-333.555	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-



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770	366	+ve	0.000	43.273	0.000	2.866	0.015	60.810
			-	14:COM2	-	15:COM3	27:COM1	15:COM3
			-60.910	0.000	-0.136	0.000	-0.067	0.000
			21:COM9	-	17:COM5	-	21:COM9	-
	350	-ve	0.000	11.036	0.000	2.866	0.000	12.192
			-	15:COM3	-	15:COM3	-	15:COM3
			-48.540	0.000	-0.136	0.000	-0.269	0.000
			21:COM9	-	17:COM5	-	14:COM2	-
825	111	+ve	15.043	104.323	0.000	12.530	78.274	312.026
			27:COM1	19:COM7	-	15:COM3	19:COM7	19:COM7
			-144.094	0.000	-15.186	-3.243	0.000	-86.290
			21:COM9	-	17:COM5	25:COM1	-	29:COM1
	58	-ve	15.043	0.000	0.000	12.530	0.000	209.954
			27:COM1	-	-	15:COM3	-	19:COM7
			-144.094	-89.327	-15.186	-3.243	-56.861	-94.050
			21:COM9	21:COM9	17:COM5	25:COM1	17:COM5	29:COM1
826	367	+ve	0.000	0.000	25.181	58.059	0.000	13.434
			-	-	15:COM3	19:COM7	-	23:COM1
			-269.867	-144.375	0.000	0.000	-19.717	-109.782
			17:COM5	17:COM5	-	-	17:COM5	17:COM5
	113	-ve	0.000	0.000	25.181	58.059	35.682	332.798
			-	-	15:COM3	19:COM7	15:COM3	15:COM3
			-269.867	-167.588	0.000	0.000	0.000	0.000
			17:COM5	17:COM5	-	-	-	-
827	368	+ve	24.088	0.000	6.634	21.347	0.000	0.000
			23:COM1	-	15:COM3	19:COM7	-	-
			-157.042	-70.192	0.000	0.000	-5.937	-230.435
			17:COM5	17:COM5	-	-	17:COM5	17:COM5
	367	-ve	24.088	0.000	6.634	21.347	8.664	13.432
			23:COM1	-	15:COM3	19:COM7	15:COM3	23:COM1
			-157.042	-93.405	0.000	0.000	0.000	-109.786
			17:COM5	17:COM5	-	-	-	17:COM5
828	369	+ve	49.427	27.973	0.981	2.874	0.000	0.000
			23:COM1	15:COM3	19:COM7	19:COM7	-	-
			-138.522	-3.381	0.000	-0.986	-1.361	-221.006
			17:COM5	25:COM1	-	29:COM1	21:COM9	14:COM2
	368	-ve	49.427	6.328	0.981	2.874	0.908	0.000
			23:COM1	23:COM1	19:COM7	19:COM7	14:COM2	-
			-138.522	-22.359	0.000	-0.986	0.000	-230.435
			17:COM5	17:COM5	-	29:COM1	-	17:COM5
829	370	+ve	57.017	98.595	0.574	0.000	1.911	11.669
			23:COM1	15:COM3	23:COM1	-	15:COM3	23:COM1
			-153.181	0.000	-1.541	-14.236	-1.070	-81.617
			17:COM5	-	17:COM5	14:COM2	25:COM1	17:COM5
	369	-ve	57.017	75.382	0.574	0.000	0.199	0.000
			23:COM1	15:COM3	23:COM1	-	23:COM1	-
			-153.181	0.000	-1.541	-14.236	-1.484	-221.008
			17:COM5	-	17:COM5	14:COM2	17:COM5	14:COM2



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830	371	+ve	68.318	171.036	2.076	0.000	13.389	347.723
			23:COM11	15:COM3	23:COM11	-	15:COM3	15:COM3
			-239.076	0.000	-9.849	-40.166	-3.363	0.000
			17:COM5	-	17:COM5	14:COM2	25:COM11	-
	370	-ve	68.318	147.823	2.076	0.000	1.205	11.668
			23:COM11	15:COM3	23:COM11	-	23:COM11	23:COM11
			-239.076	0.000	-9.849	-40.166	-8.280	-81.619
			17:COM5	-	17:COM5	14:COM2	17:COM5	17:COM5
832	112	+ve	258.252	84.473	2.914	48.446	15.256	190.854
			19:COM7	19:COM7	23:COM11	15:COM3	15:COM3	19:COM7
			-85.090	0.000	-3.982	0.000	-11.297	-9.607
			29:COM11	-	17:COM5	-	25:COM11	29:COM11
	60	-ve	258.252	0.000	2.914	48.446	14.373	93.381
			19:COM7	-	23:COM11	15:COM3	23:COM11	19:COM7
			-85.090	-68.464	-3.982	0.000	-19.815	-27.990
			29:COM11	21:COM9	17:COM5	-	17:COM5	29:COM11
838	109	+ve	240.858	83.274	84.457	0.000	35.064	139.541
			19:COM7	19:COM7	15:COM3	-	23:COM11	19:COM7
			0.000	0.000	-4.889	-141.570	-73.355	0.000
			-	-	25:COM11	17:COM5	17:COM5	-
	63	-ve	240.858	61.009	84.457	0.000	116.680	0.000
			19:COM7	19:COM7	15:COM3	-	15:COM3	-
			0.000	0.000	-4.889	-141.570	0.000	-25.052
			-	-	25:COM11	17:COM5	-	17:COM5
839	111	+ve	236.627	90.913	0.000	150.559	38.791	153.305
			19:COM7	19:COM7	-	15:COM3	19:COM7	19:COM7
			0.000	0.000	-62.518	0.000	-28.229	0.000
			-	-	21:COM9	-	29:COM11	-
	57	-ve	236.627	68.647	0.000	150.559	0.000	0.000
			19:COM7	19:COM7	-	15:COM3	-	-
			0.000	0.000	-62.518	0.000	-101.907	-28.526
			-	-	21:COM9	-	21:COM9	21:COM9
840	90	+ve	42.800	140.109	1.885	0.000	0.199	186.339
			15:COM3	15:COM3	15:COM3	-	23:COM11	15:COM3
			-36.929	0.000	-0.088	-19.594	-4.273	-29.780
			25:COM11	-	25:COM11	14:COM2	17:COM5	25:COM11
	383	-ve	42.800	15.671	1.885	0.000	5.436	149.393
			15:COM3	23:COM11	15:COM3	-	15:COM3	15:COM3
			-36.929	-103.733	-0.088	-19.594	-0.254	-140.258
			25:COM11	17:COM5	25:COM11	14:COM2	25:COM11	25:COM11
841	82	+ve	13.908	148.747	0.000	0.000	0.198	225.409
			15:COM3	15:COM3	-	-	19:COM7	15:COM3
			-12.545	0.000	-0.082	-10.235	-0.075	-73.962
			25:COM11	-	21:COM9	21:COM9	29:COM11	25:COM11
	32	-ve	13.908	0.214	0.000	0.000	0.000	261.479
			15:COM3	23:COM11	-	-	-	15:COM3
			-12.545	-143.283	-0.082	-10.235	-0.295	-141.561
			25:COM11	17:COM5	21:COM9	21:COM9	21:COM9	25:COM11



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842	91	+ve	31.879	134.610	0.161	30.558	4.271	163.410
			23:COM11	15:COM3	23:COM11	14:COM2	15:COM3	15:COM3
			-52.077	0.000	-1.926	0.000	-0.476	-37.045
			17:COM5	-	17:COM5	-	25:COM11	25:COM11
	380	-ve	31.879	13.153	0.161	30.558	0.355	162.953
			23:COM11	23:COM11	23:COM11	14:COM2	23:COM11	15:COM3
			-52.077	-109.809	-1.926	0.000	-5.651	-139.749
			17:COM5	17:COM5	17:COM5	-	17:COM5	25:COM11
843	83	+ve	14.087	151.339	0.097	10.215	0.162	227.550
			15:COM3	15:COM3	19:COM7	19:COM7	27:COM11	15:COM3
			-12.607	0.000	-0.041	0.000	-0.367	-83.167
			25:COM11	-	29:COM11	-	21:COM9	25:COM11
	30	-ve	14.087	3.116	0.097	10.215	0.221	272.970
			15:COM3	23:COM11	19:COM7	19:COM7	15:COM3	15:COM3
			-12.607	-147.132	-0.041	0.000	-0.099	-154.624
			25:COM11	17:COM5	29:COM11	-	25:COM11	25:COM11
844	182	+ve	0.840	65.986	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.502	0.000	-0.000	0.000	0.000	0.000
			25:COM11	-	14:COM2	-	-	-
	389	-ve	0.840	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.502	-65.986	-0.000	0.000	0.000	0.000
			25:COM11	14:COM2	14:COM2	-	-	-
845	184	+ve	0.094	83.237	0.000	0.000	0.000	0.000
			23:COM11	14:COM2	-	-	-	-
			-3.356	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	382	-ve	0.094	0.000	0.000	0.000	0.000	0.000
			23:COM11	-	-	-	-	-
			-3.356	-83.237	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
866	384	+ve	9.192	0.000	3.010	7.556	0.979	146.542
			19:COM7	-	15:COM3	23:COM11	23:COM11	15:COM3
			-8.412	-149.354	-0.967	-78.564	-1.779	0.000
			29:COM11	14:COM2	25:COM11	17:COM5	17:COM5	-
	28	-ve	9.192	0.000	3.010	7.556	4.280	463.733
			19:COM7	-	15:COM3	23:COM11	15:COM3	14:COM2
			-8.412	-169.146	-0.967	-78.564	-0.994	0.000
			29:COM11	14:COM2	25:COM11	17:COM5	25:COM11	-
867	385	+ve	5.073	0.000	0.248	54.393	0.435	0.000
			27:COM11	-	23:COM11	14:COM2	15:COM3	-
			-6.582	-75.123	-0.400	0.000	-0.285	-35.053
			21:COM9	21:COM9	17:COM5	-	25:COM11	21:COM9
	29	-ve	5.073	0.000	0.248	54.393	0.213	176.513
			27:COM11	-	23:COM11	14:COM2	23:COM11	19:COM7
			-6.582	-117.378	-0.400	0.000	-0.364	0.000
			21:COM9	21:COM9	17:COM5	-	17:COM5	-



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
868	386	+ve	7.170	0.000	1.063	15.114	1.526	124.932
			19:COM7	-	23:COM1'	15:COM3	15:COM3	19:COM7
			-7.657	-238.325	-1.510	-10.580	-1.057	0.000
			29:COM1'	14:COM2	17:COM5	25:COM1'	25:COM1'	-
	84	-ve	7.170	0.000	1.063	15.114	1.095	629.894
			19:COM7	-	23:COM1'	15:COM3	23:COM1'	14:COM2
			-7.657	-267.057	-1.510	-10.580	-1.518	0.000
			29:COM1'	14:COM2	17:COM5	25:COM1'	17:COM5	-
869	387	+ve	9.858	0.000	1.052	72.224	1.596	147.586
			27:COM1'	-	23:COM1'	15:COM3	15:COM3	15:COM3
			-7.287	-169.025	-2.184	-1.252	-1.225	0.000
			21:COM9	17:COM5	17:COM5	25:COM1'	25:COM1'	-
	88	-ve	9.858	0.000	1.052	72.224	0.894	538.181
			27:COM1'	-	23:COM1'	15:COM3	23:COM1'	15:COM3
			-7.287	-221.571	-2.184	-1.252	-2.787	0.000
			21:COM9	17:COM5	17:COM5	25:COM1'	17:COM5	-
870	384	+ve	1.995	65.986	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.214	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	386	-ve	1.995	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.214	-65.986	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-
872	386	+ve	1.181	76.913	0.001	0.000	0.000	0.000
			15:COM3	14:COM2	23:COM1'	-	-	-
			-0.664	0.000	-0.001	0.000	0.000	0.000
			25:COM1'	-	17:COM5	-	-	-
	385	-ve	1.181	0.000	0.001	0.000	0.007	134.292
			15:COM3	-	23:COM1'	-	23:COM1'	14:COM2
			-0.664	-109.667	-0.001	0.000	-0.008	0.000
			25:COM1'	14:COM2	17:COM5	-	17:COM5	-

Memoria de Diseño de Columnas

C25

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
NE+7.28	2.90	.70	.50	Circ	28	-23.85	-15.65	-68.66	13.77	8.37	22.05	20/7 (3.9%)	0.78	31.30	31.30
						-23.80	0.17					20/7 (3.9%)	0.70		
NE+3.68	2.90	.70	.50	Circ	28	25.20	3.24	-75.98	14.65	4.74	22.05	20/7 (3.9%)	0.68	31.30	31.30
						-4.85	-1.82					20/7 (3.9%)	0.27		
NE+0.08	1.20	.60	.50	Circ	28	-4.85	-1.82	-75.98	14.65	4.74	22.05	20/7 (3.9%)	0.38	75.63	75.63
NE-1.72		1.10				-24.89	-5.20					20/7 (3.9%)	0.68		

C19

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
CUB	2.90	1.77	.50	Circ	28	19.67	-3.80	-63.01	60.95	10.13	22.05	20/7 (3.9%)	0.82	31.30	31.30
						-13.97	18.14					20/7 (3.9%)	0.62		
NE+7.28	2.90	.70	.50	Circ	28	0.18	-24.21	-111.56	4.47	12.84	22.05	20/7 (3.9%)	0.62	31.30	31.30
						0.59	22.01					20/7 (3.9%)	0.57		
NE+3.68	2.90	.70	.50	.50	28	6.38	-44.99	-154.78	10.15	28.00	22.05	20/7 8 (3.5%)	0.83	71.19	70.92
N+0.08		1.70				-9.67	52.56					20/7 8 (3.5%)	0.99		

C17

Son 2

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
NE+7.10	3.00	.60	.50	Circ	28	-5.82	-30.82	-50.56	8.67	15.85	22.05	20/7 (3.9%)	0.89	30.25	30.25
						4.92	26.23					20/7 (3.9%)	0.75		
NE+3.50	3.00	.60	.50	Circ	28	-5.11	-30.12	-97.64	8.46	18.01	22.05	20/7 (3.9%)	0.80	30.25	30.25
NE-0.10		1.70				5.90	34.71					20/7 (3.9%)	0.92		

Memoria de Diseño de Columnas

C20

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB	3.10	.87	.60	1.00	21	10.09	-74.64	-82.96	44.79	36.92	45.83	32/5 (1.1%)	0.92	176.37	108.57
						-9.53	62.95					32/5 (1.1%)	0.77		
NE+7.28	2.90	.70	.60	1.00	28	54.18	23.38	-113.87	16.46	14.89	52.91	32/5 (1.1%)	0.42	226.26	138.20
						0.51	-20.06					32/5 (1.1%)	0.26		
NE+3.68	2.90	.70	.60	1.00	28	-3.12	-34.34	-204.71	16.40	19.15	52.91	32/5 (1.1%)	0.33	226.26	138.20
						7.15	5.67					32/5 (1.1%)	0.14		
NE+0.08	1.20	.60	.60	1.00	28	8.63	7.07	-204.71	16.40	19.15	52.91	32/5 (1.1%)	0.18	546.80	333.98
NE-1.72		1.10				16.47	34.68					32/5 (1.1%)	0.32		

C26

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB	2.00	.70	.80	.50	28	41.98	-27.27	-65.80	10.57	17.03	35.28	20/6 (1.4%)	0.70	117.73	189.00
						5.60	-23.96					20/6 (1.4%)	0.43		
NE+10.88	3.00	.60	.80	.50	28	15.94	30.63	-74.65	12.29	11.54	35.28	20/6 (1.4%)	0.40	78.49	126.00
						-27.67	-10.18					20/6 (1.4%)	0.45		
NE+7.28	2.90	.70	.80	.50	28	21.97	16.72	-110.63	12.09	12.62	35.28	20/6 (1.4%)	0.36	81.19	130.35
						-21.60	-12.91					20/6 (1.4%)	0.35		
NE+3.68	2.90	.70	.80	.50	28	30.26	12.55	-139.17	18.44	20.26	35.28	20/6 (1.4%)	0.48	81.19	130.35
NE+0.08		1.70				-36.12	-34.95					20/6 (1.4%)	0.61		

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
NE+7.28	2.90	.70	.80	.50	28	-35.34	-1.60	-33.43	18.56	12.97	35.28	14/7 (1.4%)	0.73	79.51	130.11
						30.17	-1.69					14/7 (1.4%)	0.62		
NE+3.68	2.90	.70	.80	.50	28	29.10	4.17	-68.29	16.03	11.43	35.28	14/7 (1.4%)	0.52	79.51	130.11
NE+0.08						28.53	3.01					14/7 (1.4%)	0.52		

C27

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB	2.90	1.28	.80	.50	28	-54.84	5.19	-74.78	28.57	36.35	35.28	22/6 (1.6%)	0.90	84.57	132.48
						48.79	-3.50					22/6 (1.6%)	0.80		
NE+7.28	2.90	.70	.80	.50	28	19.61	11.12	-97.27	9.57	12.06	35.28	22/6 (1.6%)	0.31	84.57	132.48
						-15.18	-8.62					22/6 (1.6%)	0.24		
NE+3.68	2.90	.70	.80	.50	28	-24.82	-8.34	-167.35	13.98	16.68	35.28	22/6 (1.6%)	0.38	84.57	132.48
						25.53	-5.66					22/6 (1.6%)	0.38		

Columna C23

Nivel	H Libre	Losa	B	H	f'c	M1 tm	M2 tm	P ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plastico Direc 1	V Plastrico Direc 2
NE+11.08	2.95	.70	.80	.50	28	62.85	8.13	-84.00	26.24	22.83	35.28	22/6 7 (1.8%)	0.94	52.25	85.52
						-32.66	-21.01					22/6 7 (1.8%)	0.48		
NE+7.28	2.90	.70	.80	.50	28	-3.53	45.94	-106.66	67.82	25.47	35.28	22/6 7 (1.8%)	0.40	53.15	87.00
						3.10	-45.92					22/6 7 (1.8%)	0.40		
NE+3.68	2.90	.70	.80	.50	28	1.25	54.94	-176.93	99.96	35.93	35.28	22/6 7 (1.8%)	0.43	53.15	87.00
						-5.33	-74.44					22/6 7 (1.8%)	0.59		

Columna C21

Nivel	H Libre	Losa	B	H	f'c	M1 tm	M2 tm	P ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plastico Direc 1	V Plastrico Direc 2
CUB	2.10	.70	.80	1.00	28	-22.90 -44.38	62.16 10.29	-82.90	21.25	13.52	52.91	32/5 (1.1%) 32/5 (1.1%)	0.68 0.41	141.55	81.30
NE+10.88	2.95	.60	.60	1.00	28	57.81 -13.18	23.50 -29.93	-72.19	17.99	15.89	52.91	32/5 (1.1%) 32/5 (1.1%)	0.49 0.31	100.76	57.88
NE+7.28	2.90	.70	.80	1.00	28	55.25 1.42	12.90 28.32	-112.67	22.06	16.27	52.91	32/5 (1.1%) 32/5 (1.1%)	0.40 0.33	102.50	58.87
NE+3.68	1.45	.70	.80	1.00	28	-2.78 2.04	-31.36 -2.34	-173.93	20.10	17.34	52.91	32/5 (1.1%) 32/5 (1.1%)	0.31 0.15	205.00	117.75
NE+0.08	1.45	.60	.80	1.00	28	3.85	-8.14	-114.60	20.10	17.34	52.91	32/5 (1.1%)	0.19	205.00	117.75
NE-1.72	1.10					-9.40	-30.28					32/5 (1.1%)	0.30		

C22

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB	2.25	.70	.80	.50	28	-19.73 7.17	-40.14 62.50	-51.34	6.83	28.55	35.28	16/7 (1.5%) 16/7 (1.5%)	0.52 0.68	108.31	171.21
NE+10.88	3.00	.60	.80	.50	28	-10.07 24.53	-42.22 0.93	-60.45	13.62	17.76	35.28	16/7 (1.5%) 16/7 (1.5%)	0.47 0.40	81.24	128.41
NE+7.28	2.90	.70	.80	.50	28	-32.44 27.55	-8.58 8.52	-125.43	16.66	6.51	35.28	16/7 (1.5%) 16/7 (1.5%)	0.49 0.42	84.04	132.84
NE+3.68	2.90	.70	.80	.50	28	-31.41 16.27	-9.96 3.38	-161.31	22.08	11.77	35.28	16/7 (1.5%) 16/7 (1.5%)	0.48 0.25	84.04	132.84
NE+0.08	1.20	.60	.80	.50	28	16.27	3.38	-161.31	22.08	11.77	35.28	16/7 (1.5%)	0.46	203.09	321.02
NE-1.72	1.10					48.06	12.28					16/7 (1.5%)	0.73		

Memoria de Diseño de Columnas

C24

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB	2.42	.70	.80	.50	28	-2.70	-61.92					20/6 (1.4%)	0.69		
						1.27	70.47	-63.54	0.72	37.94	35.28	20/6 (1.4%)	0.78	97.10	155.88
NE+10.88	3.00	.70	.80	.50	28	11.94	35.82					20/6 (1.4%)	0.46		
						-23.15	2.49	-45.82	14.17	14.74	35.28	20/6 (1.4%)	0.40	78.49	126.00
NE+7.28	2.90	.70	.80	.50	28	36.69	-3.26					20/6 (1.4%)	0.60		
						-28.31	0.53	-104.67	18.05	6.36	35.28	20/6 7 (1.7%)	0.42	83.67	134.28
NE+3.68	2.90	.70	.80	.50	28	46.49	1.45					20/6 7 (1.7%)	0.65		
						-20.54	0.18	-128.85	31.03	11.65	35.28	20/6 7 (1.7%)	0.29	86.16	138.21
NE+0.08	1.20	.60	.80	.50	28	-20.54	0.18					20/6 7 (1.7%)	0.57		
NE-1.72						-65.22	-0.66	-128.85	31.03	11.65	35.28	20/6 7 (1.7%)	0.91	208.21	334.00

VC00/NE-0.10

B=0.40 H=0.60 L=5.31		B=0.40 H=0.60 L=5.27		B=0.40 H=0.60 L=2.06	
Mu=-9.84 As=7.96 As(r)=7.26	Mu=-4.96 As=7.96 As(r)=7.26	Mu=-4.97 As=7.96 As(r)=7.26	Mu=-12.99 As=7.96 As(r)=7.26	Mu=-9.91 As=7.96 As(r)=7.26	Mu=-1.84 As=7.96 As(r)=7.26
Mu=3.71 As=7.96 As(r)=7.26	Mu=9.71 As=7.96 As(r)=7.26	Mu=1.97 As=7.96 As(r)=7.26	Mu=2.60 As=7.96 As(r)=7.26	Mu=4.33 As=7.96 As(r)=7.26	Mu=1.98 As=7.96 As(r)=7.26
				Mu=0.45 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26
Vu=-8.64	Vu=8.30	Vu=-7.75	Vu=9.11	Vu=-6.38	Vu=2.06

VC01/NE-0.10

B=0.40 H=0.60 L=5.15		B=0.40 H=0.60 L=5.15		B=0.40 H=0.60 L=2.05	
Mu=-24.58 As=13.64 As(r)=12.44	Mu=-21.85 As=11.94 As(r)=10.99	Mu=-18.12 As=11.94 As(r)=9.04	Mu=-31.04 As=16.48 As(r)=15.95	Mu=-29.71 As=16.48 As(r)=15.22	Mu=-0.00 As=7.96 As(r)=7.26
Mu=18.41 As=9.95 As(r)=9.19	Mu=10.20 As=7.96 As(r)=7.26	Mu=7.28 As=7.96 As(r)=7.26	Mu=7.20 As=7.96 As(r)=7.26	Mu=7.85 As=7.96 As(r)=7.26	Mu=13.18 As=7.96 As(r)=7.26
				Mu=5.94 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26
					Mu=1.82 As=7.96 As(r)=7.26
Vu=-13.34	Vu=15.56	Vu=-13.47	Vu=14.93	Vu=-17.25	Vu=-9.24

VC02/NE-0.10

B=0.40 H=0.60 L=4.95		B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=2.05	
Mu=-23.27 As=11.94 As(r)=11.75	Mu=-19.54 As=9.95 As(r)=9.78	Mu=-15.78 As=9.95 As(r)=7.84	Mu=-23.28 As=11.94 As(r)=11.75	Mu=-22.49 As=11.94 As(r)=11.33	Mu=-0.00 As=7.96 As(r)=7.26
Mu=14.58 As=7.96 As(r)=7.26	Mu=9.06 As=7.96 As(r)=7.26	Mu=6.51 As=7.96 As(r)=7.26	Mu=5.26 As=7.96 As(r)=7.26	Mu=6.92 As=7.96 As(r)=7.26	Mu=7.81 As=7.96 As(r)=7.26
				Mu=4.50 As=7.96 As(r)=7.26	Mu=1.01 As=7.96 As(r)=7.26
Vu=-12.95	Vu=14.38	Vu=-12.34	Vu=12.92	Vu=-14.32	Vu=-5.26

VC03/NE-0.10

B=0.40 H=0.60 L=4.95		B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=2.05	
Mu=-22.42 As=11.94 As(r)=11.30	Mu=-20.00 As=10.80 As(r)=10.02	Mu=-17.06 As=10.80 As(r)=8.50	Mu=-15.44 As=7.96 As(r)=7.66	Mu=-13.61 As=7.96 As(r)=7.26	Mu=-0.36 As=7.96 As(r)=7.26
Mu=13.63 As=7.96 As(r)=7.26	Mu=8.37 As=7.96 As(r)=7.26	Mu=6.67 As=7.96 As(r)=7.26	Mu=5.69 As=7.96 As(r)=7.26	Mu=7.95 As=7.96 As(r)=7.26	Mu=8.28 As=7.96 As(r)=7.26
				Mu=2.72 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26
					Mu=0.00 As=7.96 As(r)=7.26
Vu=-12.67	Vu=14.29	Vu=-13.14	Vu=11.07	Vu=-10.08	Vu=-1.44

VC04/NE-0.10

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.25	
Mu=-19.41 As=10.80 As(r)=9.71	Mu=-24.08 As=13.64 As(r)=12.18	Mu=-24.04 As=13.64 As(r)=12.16	Mu=-15.08 As=7.96 As(r)=7.48
Mu=12.93 As=7.96 As(r)=7.26	Mu=6.34 As=7.96 As(r)=7.26	Mu=8.03 As=7.96 As(r)=7.26	Mu=8.01 As=7.96 As(r)=7.26
			Mu=12.90 As=7.96 As(r)=7.26
Vu=-12.62	Vu=15.00	Vu=-15.34	Vu=11.68

VC05/NE-0.10

B=0.65 H=0.60 L=1.65		B=0.65 H=0.60 L=8.30		B=0.65 H=0.60 L=4.60	
Mu=-0.23 As =23.22 As(r)=11.80	Mu=-25.52 As =34.83 As(r)=12.67	Mu=-62.76 As =34.83 As(r)=32.85	Mu=-61.05 As =34.83 As(r)=31.87	Mu=-33.67 As =34.83 As(r)=16.90	Mu=-49.89 As =30.63 As(r)=25.62
Mu=0.00 As =17.58 As(r)=11.80	Mu=0.00 As =17.58 As(r)=11.80	Mu=5.10 As =17.58 As(r)=11.80	Mu=20.92 As =17.58 As(r)=11.80	Mu=34.02 As =20.13 As(r)=17.08	Mu=20.35 As =17.04 As(r)=11.80
Mu=11.22 As =17.04 As(r)=11.80	Mu=9.98 As =17.58 As(r)=11.80	Mu=16.63 As =17.58 As(r)=11.80			
Vu=-6.88	Vu=-15.62	Vu=32.72	Vu=-33.87	Vu=17.89	Vu=-24.05

B=0.65 H=0.60 L=9.00		B=0.65 H=0.60 L=3.22	
Mu=-60.00 As =32.34 As(r)=31.27	Mu=-98.25 As =55.17 As(r)=54.62	Mu=-84.95 As =53.44 As(r)=46.11	Mu=-1.13 As =30.60 As(r)=11.80
Mu=20.00 As =17.58 As(r)=11.80	Mu=36.94 As =17.58 As(r)=18.80	Mu=32.75 As =17.04 As(r)=16.42	Mu=16.99 As =17.04 As(r)=11.80
Mu=0.00 As =17.58 As(r)=11.80	Mu=7.33 As =12.50 As(r)=9.07	Mu=19.53 As =12.50 As(r)=11.49	Mu=37.38 As =24.00 As(r)=19.16
Mu=15.19 As =13.71 As(r)=9.07	Mu=8.24 As =12.50 As(r)=9.07	Mu=7.48 As =12.50 As(r)=9.07	Mu=12.47 As =17.29 As(r)=9.07
Vu=35.09	Vu=-41.70	Vu=33.61	Vu=8.64

VC06/NE-0.10

B=0.50 H=0.60 L=1.65		B=0.50 H=0.60 L=8.25		B=0.50 H=0.60 L=4.60	
Mu=-0.00 As =19.35 As(r)=9.07	Mu=-36.66 As =30.41 As(r)=18.76	Mu=-58.60 As =34.65 As(r)=31.34	Mu=-45.57 As =25.81 As(r)=23.73	Mu=-24.71 As =25.81 As(r)=12.38	Mu=-37.42 As =30.96 As(r)=19.18
Mu=0.47 As =12.50 As(r)=9.07	Mu=0.00 As =12.50 As(r)=9.07	Mu=7.33 As =12.50 As(r)=9.07	Mu=19.53 As =12.50 As(r)=11.49	Mu=37.38 As =24.00 As(r)=19.16	Mu=15.19 As =13.71 As(r)=9.07
Mu=8.24 As =12.50 As(r)=9.07	Mu=7.48 As =12.50 As(r)=9.07	Mu=12.47 As =17.29 As(r)=9.07			
Vu=-15.53	Vu=-17.47	Vu=30.72	Vu=-28.73	Vu=10.04	Vu=-14.30

B=0.50 H=0.60 L=9.10		B=0.50 H=0.60 L=3.13	
Mu=-51.48 As =30.96 As(r)=27.12	Mu=-89.73 As =54.75 As(r)=51.75	Mu=-91.10 As =54.75 As(r)=52.75	Mu=-0.00 As =25.60 As(r)=9.07
Mu=17.95 As =17.58 As(r)=13.54	Mu=41.43 As =24.00 As(r)=22.56	Mu=29.91 As =17.58 As(r)=15.12	Mu=18.22 As =17.58 As(r)=9.07
Mu=0.00 As =12.50 As(r)=9.07	Mu=7.33 As =12.50 As(r)=9.07	Mu=19.53 As =12.50 As(r)=11.49	Mu=37.38 As =24.00 As(r)=19.16
Mu=15.19 As =13.71 As(r)=9.07	Mu=8.24 As =12.50 As(r)=9.07	Mu=7.48 As =12.50 As(r)=9.07	Mu=12.47 As =17.29 As(r)=9.07
Vu=34.61	Vu=-42.85	Vu=35.82	Vu=15.99

VC07/NE-0.10

B=0.85 H=0.60 L=1.65		B=0.85 H=0.60 L=8.20		B=0.50 H=0.60 L=4.70	
Mu=-0.00 As =30.96 As(r)=15.43	Mu=-0.00 As =30.44 As(r)=15.43	Mu=-79.07 As =42.57 As(r)=41.24	Mu=-66.62 As =34.32 As(r)=34.26	Mu=-36.73 As =28.81 As(r)=18.80	Mu=-41.51 As =35.30 As(r)=21.44
Mu=0.00 As =24.11 As(r)=15.43	Mu=0.00 As =24.11 As(r)=15.43	Mu=0.00 As =24.11 As(r)=15.43	Mu=26.36 As =24.11 As(r)=15.43	Mu=49.35 As =24.91 As(r)=15.43	Mu=22.21 As =20.17 As(r)=15.43
Mu=12.24 As =11.65 As(r)=9.07	Mu=8.30 As =26.34 As(r)=9.07	Mu=13.84 As =12.50 As(r)=9.07			
Vu=0.00	Vu=0.00	Vu=44.75	Vu=-44.07	Vu=18.71	Vu=-17.41

B=0.50 H=0.60 L=8.70		B=0.50 H=0.60 L=2.15	
Mu=-68.75 As =40.80 As(r)=37.61	Mu=-90.49 As =54.71 As(r)=52.30	Mu=-81.24 As =52.58 As(r)=45.81	Mu=-0.41 As =25.50 As(r)=9.07
Mu=22.92 As =12.50 As(r)=12.43	Mu=38.90 As =25.81 As(r)=20.72	Mu=30.16 As =16.26 As(r)=15.26	Mu=16.25 As =16.26 As(r)=9.07
Mu=4.01 As =16.26 As(r)=9.07			
Vu=37.19	Vu=-42.85	Vu=36.01	Vu=15.57

V100/N 3.85

B=0.60 H=0.70 L=5.15		B=0.60 H=0.70 L=5.15		B=0.60 H=0.70 L=2.05	
Mu=-48.12 As=21.94 As(r)=20.54	Mu=-30.13 As=14.20 As(r)=13.07	Mu=-25.08 As=14.20 As(r)=13.07	Mu=-62.02 As=27.08 As(r)=27.03	Mu=-48.82 As=26.18 As(r)=20.88	Mu=-0.00 As=19.35 As(r)=13.07
Mu=42.70 As=22.72 As(r)=18.09	Mu=17.75 As=22.72 As(r)=13.07	Mu=17.02 As=14.20 As(r)=13.07	Mu=20.55 As=14.20 As(r)=13.07	Mu=13.95 As=17.32 As(r)=13.07	Mu=31.79 As=19.88 As(r)=13.27
Mu=0.00 As=19.88 As(r)=13.07	Mu=0.00 As=22.72 As(r)=13.07	Mu=1.65 As=14.20 As(r)=13.07			
Vu=-19.60	Vu=20.89	Vu=-17.52	Vu=22.83	Vu=-22.43	Vu=-19.53

V101/NE+3.75

B=0.40 H=0.60 L=4.95		B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=2.05	
Mu=-28.17 As=17.04 As(r)=14.40	Mu=-22.95 As=13.35 As(r)=11.54	Mu=-17.98 As=13.35 As(r)=8.91	Mu=-29.98 As=23.22 As(r)=15.41	Mu=-41.43 As=23.22 As(r)=22.15	Mu=-0.00 As=15.48 As(r)=7.39
Mu=15.54 As=9.95 As(r)=7.85	Mu=8.08 As=9.70 As(r)=7.39	Mu=8.61 As=7.98 As(r)=7.39	Mu=10.83 As=7.98 As(r)=7.39	Mu=4.89 As=7.98 As(r)=7.39	Mu=10.48 As=7.98 As(r)=7.39
Mu=0.00 As=7.98 As(r)=7.39	Mu=0.00 As=9.95 As(r)=7.39	Mu=0.00 As=9.95 As(r)=7.39	Mu=0.00 As=9.95 As(r)=7.39	Mu=0.00 As=9.95 As(r)=7.39	Mu=1.07 As=7.98 As(r)=7.39
Vu=15.10	Vu=-15.32	Vu=-11.44	Vu=13.93	Vu=-18.51	Vu=-16.85

V102/NE+3.75

B=0.40 H=0.60 L=4.95		B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=2.15	
Mu=-26.86 As=17.04 As(r)=13.67	Mu=-22.70 As=11.83 As(r)=11.44	Mu=-18.96 As=11.83 As(r)=9.48	Mu=-21.91 As=11.83 As(r)=11.03	Mu=-12.57 As=11.83 As(r)=7.26	Mu=-0.26 As=7.96 As(r)=7.26
Mu=14.13 As=9.95 As(r)=7.26	Mu=7.49 As=9.78 As(r)=7.26	Mu=7.31 As=7.96 As(r)=7.26	Mu=5.04 As=7.96 As(r)=7.26	Mu=10.55 As=7.96 As(r)=7.26	Mu=2.51 As=9.95 As(r)=7.26
Mu=0.00 As=9.95 As(r)=7.26	Mu=0.00 As=9.95 As(r)=7.26	Mu=0.00 As=9.95 As(r)=7.26	Mu=0.00 As=9.95 As(r)=7.26	Mu=0.00 As=9.95 As(r)=7.26	Mu=0.03 As=7.96 As(r)=7.26
Vu=14.66	Vu=-15.04	Vu=-11.90	Vu=11.80	Vu=-9.07	Vu=-1.38

V103/NE+3.50

B=0.60 H=0.70 L=5.25		B=0.60 H=0.70 L=5.25	
Mu=-35.10 As=17.04 As(r)=14.78	Mu=-39.01 As=17.04 As(r)=16.49	Mu=-39.34 As=17.04 As(r)=16.64	Mu=-35.44 As=17.04 As(r)=14.93
Mu=30.38 As=14.20 As(r)=12.87	Mu=7.80 As=14.20 As(r)=12.87	Mu=20.26 As=14.20 As(r)=12.87	Mu=20.29 As=14.20 As(r)=12.87
Mu=0.00 As=14.20 As(r)=12.87	Mu=0.00 As=14.20 As(r)=12.87	Mu=0.00 As=14.20 As(r)=12.87	Mu=0.00 As=14.20 As(r)=12.87
Vu=-17.65	Vu=20.44	Vu=-20.49	Vu=17.68

V104/NE+3.75

B=0.50 H=0.70 L=1.65		B=0.50 H=0.70 L=8.30		B=0.50 H=0.70 L=4.60	
Mu=-0.23 As=14.20 As(r)=10.73	Mu=-15.17 As=25.81 As(r)=10.73	Mu=-48.29 As=25.81 As(r)=20.83	Mu=-53.43 As=25.81 As(r)=23.21	Mu=-32.77 As=25.81 As(r)=13.86	Mu=-48.71 As=21.94 As(r)=21.03
Mu=0.00 As=11.65 As(r)=10.73	Mu=0.00 As=11.65 As(r)=10.73	Mu=22.40 As=11.65 As(r)=10.73	Mu=18.07 As=16.16 As(r)=10.73	Mu=17.81 As=15.52 As(r)=10.73	Mu=35.15 As=15.52 As(r)=14.91
Mu=9.74 As=11.65 As(r)=10.73	Mu=23.91 As=11.65 As(r)=10.73				
Vu=-5.53	Vu=-7.80	Vu=18.55	Vu=-21.17	Vu=15.16	Vu=-21.54

B=0.50 H=0.70 L=9.00		B=0.50 H=0.70 L=3.36	
Mu=-47.53 As=21.94 As(r)=20.48	Mu=-70.16 As=34.65 As(r)=31.20	Mu=-46.65 As=34.65 As(r)=20.08	Mu=-0.22 As=19.35 As(r)=10.73
Mu=15.84 As=11.65 As(r)=10.73	Mu=18.83 As=11.65 As(r)=10.73	Mu=23.39 As=11.65 As(r)=10.73	Mu=9.33 As=11.65 As(r)=10.73
Mu=0.00 As=11.65 As(r)=10.73	Mu=0.00 As=11.65 As(r)=10.73	Mu=0.00 As=11.65 As(r)=10.73	Mu=0.37 As=11.65 As(r)=10.73
Vu=20.62	Vu=-24.11	Vu=17.08	Vu=6.54

V105/NE+3.50

B=0.50 H=0.70 L=4.70		
Mu=-12.76 As =14.20 As(r)=10.73	Mu=-19.06 As =14.20 As(r)=10.73	
Mu=11.02 As =14.20 As(r)=10.73	Mu=6.75 As =14.20 As(r)=10.73	Mu=7.64 As =14.20 As(r)=10.73
Vu=8.73	Vu=-11.01	

V106/NE+3.50

B=0.50 H=0.70 L=9.00			B=0.50 H=0.70 L=3.41		
Mu=-52.89 As =25.03 As(r)=22.96	Mu=-76.86 As =34.65 As(r)=34.52		Mu=-46.57 As =32.31 As(r)=20.04	Mu=-0.22 As =19.35 As(r)=10.73	
Mu=25.16 As =11.65 As(r)=10.73	Mu=21.45 As =11.65 As(r)=10.73	Mu=25.62 As =11.65 As(r)=10.74	Mu=9.31 As =11.65 As(r)=10.73	Mu=0.00 As =11.65 As(r)=10.73	Mu=0.38 As =11.65 As(r)=10.73
Vu=21.54	Vu=-25.95		Vu=17.06	Vu=6.57	

V107/NE+3.50

B=0.50 H=0.60 L=1.65			B=0.50 H=0.60 L=8.25			B=0.50 H=0.60 L=4.60		
Mu=0.00 As =25.50 As(r)=9.07	Mu=-29.90 As =33.14 As(r)=15.11		Mu=-57.58 As =33.24 As(r)=30.72	Mu=-50.23 As =27.87 As(r)=26.40		Mu=-24.38 As =27.87 As(r)=12.20	Mu=-35.38 As =30.96 As(r)=18.06	
Mu=0.38 As =12.50 As(r)=9.07	Mu=0.00 As =12.50 As(r)=9.07	Mu=5.98 As =12.50 As(r)=9.07	Mu=19.19 As =12.50 As(r)=9.52	Mu=27.32 As =14.82 As(r)=13.75	Mu=16.74 As =12.50 As(r)=9.07	Mu=9.65 As =12.50 As(r)=9.07	Mu=7.08 As =12.50 As(r)=9.07	Mu=11.79 As =12.50 As(r)=9.07
Vu=-11.81	Vu=-15.10		Vu=26.62	Vu=-26.22		Vu=11.35	Vu=-15.18	

B=0.50 H=0.60 L=9.10			B=0.50 H=0.60 L=3.33		
Mu=-53.82 As =30.96 As(r)=28.49	Mu=-75.93 As =44.97 As(r)=42.25		Mu=-61.96 As =43.94 As(r)=33.38	Mu=-0.85 As =25.50 As(r)=9.07	
Mu=17.94 As =14.20 As(r)=9.50	Mu=30.48 As =16.48 As(r)=15.83	Mu=25.31 As =14.20 As(r)=12.69	Mu=12.39 As =14.20 As(r)=9.07	Mu=0.00 As =12.50 As(r)=9.07	Mu=0.84 As =14.20 As(r)=9.07
Vu=28.83	Vu=-33.18		Vu=25.42	Vu=9.50	

V108/NE+3.75

B=0.50 H=0.70 L=1.65			B=0.50 H=0.70 L=8.20			B=0.50 H=0.70 L=4.70		
Mu=-0.67 As =14.20 As(r)=10.73	Mu=-18.15 As =25.81 As(r)=10.73		Mu=-58.34 As =25.81 As(r)=25.51	Mu=-50.10 As =21.94 As(r)=21.67		Mu=-32.15 As =21.94 As(r)=13.59	Mu=-60.02 As =40.80 As(r)=26.31	
Mu=0.00 As =12.50 As(r)=10.73	Mu=0.00 As =12.50 As(r)=10.73	Mu=3.63 As =12.50 As(r)=10.73	Mu=19.45 As =12.50 As(r)=10.73	Mu=25.45 As =14.82 As(r)=10.87	Mu=16.70 As =12.50 As(r)=10.73	Mu=19.50 As =12.50 As(r)=10.73	Mu=12.00 As =12.50 As(r)=10.73	Mu=22.12 As =14.20 As(r)=10.73
Vu=-5.72	Vu=-10.70		Vu=25.22	Vu=-25.40		Vu=18.04	Vu=-24.23	

B=0.50 H=0.70 L=8.70		B=0.50 H=0.70 L=2.36	
Mu=-86.84 As =40.80 As(r)=39.60	Mu=-104.98 As =50.22 As(r)=49.33	Mu=-65.33 As =45.41 As(r)=28.85	Mu=-13.07 As =25.50 As(r)=10.73
Mu=28.95 As =14.20 As(r)=12.18	Mu=38.03 As =12.50 As(r)=16.36	Mu=34.99 As =14.20 As(r)=14.84	Mu=21.78 As =12.50 As(r)=10.73
Mu=13.07 As =12.50 As(r)=10.73	Mu=13.07 As =12.50 As(r)=10.73	Mu=13.07 As =12.50 As(r)=10.73	Mu=13.07 As =12.50 As(r)=10.73
Vu=41.54	Vu=-44.31	Vu=28.06	Vu=11.78

V200/NE+7.10

B=0.60 H=0.70 L=5.15		B=0.60 H=0.70 L=5.15	
Mu=-62.74 As =29.55 As(r)=27.21	Mu=-16.02 As =14.20 As(r)=12.87	Mu=-13.25 As =14.20 As(r)=12.87	Mu=-52.33 As =23.22 As(r)=22.44
Mu=26.42 As =16.19 As(r)=12.87	Mu=15.53 As =14.20 As(r)=12.87	Mu=12.55 As =14.20 As(r)=12.87	Mu=10.47 As =14.20 As(r)=12.87
Mu=17.01 As =14.20 As(r)=12.87	Mu=24.64 As =14.20 As(r)=12.87	Mu=17.01 As =14.20 As(r)=12.87	Mu=24.64 As =14.20 As(r)=12.87
Vu=-23.15	Vu=16.14	Vu=-15.69	Vu=21.01

V201/NE+7.10

B=0.40 H=0.60 L=4.95		B=0.40 H=0.60 L=5.25	
Mu=-30.28 As =19.10 As(r)=15.53	Mu=-6.06 As =7.96 As(r)=7.26	Mu=-14.69 As =7.96 As(r)=7.28	Mu=-30.31 As =19.10 As(r)=15.55
Mu=16.52 As =9.66 As(r)=8.22	Mu=6.06 As =7.96 As(r)=7.26	Mu=6.06 As =7.96 As(r)=7.26	Mu=7.60 As =7.96 As(r)=7.26
Mu=10.10 As =7.96 As(r)=7.26	Mu=10.10 As =7.96 As(r)=7.26	Mu=10.10 As =7.96 As(r)=7.26	Mu=10.10 As =7.96 As(r)=7.26
Vu=-20.95	Vu=0.00	Vu=-12.20	Vu=14.44

V202/NE+7.10

B=0.40 H=0.60 L=4.95		B=0.40 H=0.60 L=5.25	
Mu=-26.90 As =14.20 As(r)=13.69	Mu=-5.38 As =9.95 As(r)=7.26	Mu=-16.92 As =9.95 As(r)=8.42	Mu=-17.77 As =9.95 As(r)=8.86
Mu=16.41 As =9.66 As(r)=8.16	Mu=5.38 As =9.66 As(r)=7.26	Mu=5.64 As =7.96 As(r)=7.26	Mu=8.09 As =9.66 As(r)=7.26
Mu=8.91 As =7.96 As(r)=7.26	Mu=8.91 As =7.96 As(r)=7.26	Mu=8.91 As =7.96 As(r)=7.26	Mu=8.91 As =7.96 As(r)=7.26
Vu=-19.06	Vu=0.00	Vu=-13.13	Vu=11.27

V203/NE+7.10

B=0.60 H=0.70 L=5.25		B=0.60 H=0.70 L=5.25	
Mu=-47.72 As =21.94 As(r)=20.36	Mu=-27.47 As =14.20 As(r)=12.87	Mu=-26.58 As =14.20 As(r)=12.87	Mu=-30.03 As =14.20 As(r)=12.87
Mu=19.73 As =16.19 As(r)=12.87	Mu=9.54 As =14.20 As(r)=12.87	Mu=13.16 As =14.20 As(r)=12.87	Mu=9.18 As =14.20 As(r)=12.87
Mu=11.09 As =14.20 As(r)=12.87	Mu=19.90 As =16.26 As(r)=12.87	Mu=11.09 As =14.20 As(r)=12.87	Mu=19.90 As =16.26 As(r)=12.87
Vu=-20.19	Vu=17.42	Vu=-18.24	Vu=16.29

V204/NE+7.10

B=0.50 H=0.70 L=1.50			B=0.50 H=0.70 L=8.30			B=0.50 H=0.70 L=0.75		
Mu=-0.22 As =19.35 As(r)=10.73	Mu=-18.68 As =22.49 As(r)=10.73	Mu=-56.51 As =27.09 As(r)=24.65	Mu=-54.10 As =25.81 As(r)=23.52	Mu=-56.51 As =25.81 As(r)=24.65	Mu=-54.10 As =25.81 As(r)=23.52			
Mu=0.00 As =11.65 As(r)=10.73	Mu=0.00 As =11.65 As(r)=10.73	Mu=3.74 As =11.65 As(r)=10.73	Mu=19.66 As =11.65 As(r)=10.73	Mu=21.94 As =14.52 As(r)=10.73	Mu=18.03 As =14.20 As(r)=10.73	Mu=19.66 As =14.20 As(r)=10.73	Mu=21.94 As =11.65 As(r)=10.73	Mu=15.93 As =10.65 As(r)=10.73
Vu=-7.08	Vu=-9.35	Vu=22.69	Vu=-22.84	Vu=22.69	Vu=-22.84			

V205/NE+7.10

B=0.50 H=0.70 L=4.70		
Mu=-13.88 As =14.20 As(r)=10.73	Mu=-17.87 As =14.20 As(r)=10.73	
Mu=7.05 As =14.20 As(r)=10.73	Mu=4.99 As =14.20 As(r)=10.73	Mu=5.96 As =14.20 As(r)=10.73
Vu=8.55	Vu=-9.86	

V206/NE+7.10

B=0.50 H=0.70 L=9.00			B=0.50 H=0.70 L=1.30		
Mu=-54.63 As =25.81 As(r)=23.77	Mu=-73.03 As =34.65 As(r)=32.61	Mu=-16.87 As =31.67 As(r)=10.73	Mu=-0.09 As =19.35 As(r)=10.73		
Mu=18.21 As =11.65 As(r)=10.73	Mu=26.57 As =11.65 As(r)=11.25	Mu=24.34 As =11.65 As(r)=10.73	Mu=3.37 As =11.65 As(r)=10.73	Mu=0.00 As =11.65 As(r)=10.73	Mu=0.14 As =11.65 As(r)=10.73
Vu=24.48	Vu=-27.76	Vu=8.64	Vu=6.37		

V207/NE+7.10

B=0.50 H=0.60 L=1.50			B=0.50 H=0.60 L=8.25			B=0.50 H=0.60 L=4.60		
Mu=-0.00 As =25.50 As(r)=9.07	Mu=-36.31 As =31.99 As(r)=18.57	Mu=-60.83 As =33.24 As(r)=32.69	Mu=-43.33 As =22.72 As(r)=22.46	Mu=-22.74 As =22.72 As(r)=11.35	Mu=-40.43 As =37.11 As(r)=20.84			
Mu=0.41 As =12.50 As(r)=9.07	Mu=0.00 As =12.50 As(r)=9.07	Mu=7.26 As =12.50 As(r)=9.07	Mu=20.28 As =12.50 As(r)=11.31	Mu=36.83 As =23.11 As(r)=18.86	Mu=14.44 As =14.20 As(r)=11.31	Mu=8.09 As =14.20 As(r)=9.07	Mu=8.09 As =14.95 As(r)=9.07	Mu=13.48 As =16.26 As(r)=9.07
Vu=-15.35	Vu=-17.29	Vu=31.58	Vu=-28.32	Vu=8.97	Vu=-15.27			

B=0.50 H=0.60 L=9.10			B=0.50 H=0.60 L=1.75		
Mu=-67.59 As =37.11 As(r)=36.87	Mu=-74.01 As =42.74 As(r)=40.99	Mu=-40.10 As =37.93 As(r)=20.66	Mu=-0.22 As =25.50 As(r)=9.07		
Mu=22.53 As =16.26 As(r)=15.99	Mu=50.51 As =27.87 As(r)=26.66	Mu=24.67 As =16.26 As(r)=15.99	Mu=8.02 As =16.26 As(r)=9.07	Mu=0.00 As =12.50 As(r)=9.07	Mu=0.12 As =16.26 As(r)=9.07
Vu=41.57	Vu=-43.29	Vu=18.72	Vu=16.78		

V208/NE+7.10

B=0.50 H=0.70 L=1.50			B=0.50 H=0.70 L=8.20			B=0.50 H=0.70 L=4.70		
Mu=-0.82 As =19.35 As(r)=10.73	Mu=-18.13 As =25.84 As(r)=10.73	Mu=-53.24 As =27.09 As(r)=23.12	Mu=-37.39 As =17.04 As(r)=15.90	Mu=-28.50 As =17.04 As(r)=11.99	Mu=-42.10 As =25.42 As(r)=18.02			
Mu=0.00 As =12.50 As(r)=10.73	Mu=0.00 As =12.50 As(r)=10.73	Mu=3.63 As =12.50 As(r)=10.73	Mu=17.75 As =12.50 As(r)=10.73	Mu=25.91 As =14.16 As(r)=10.87	Mu=12.46 As =12.50 As(r)=10.73	Mu=11.29 As =12.50 As(r)=10.73	Mu=8.42 As =12.50 As(r)=10.73	Mu=22.59 As =12.50 As(r)=10.73
Vu=-6.92		Vu=-9.10		Vu=22.67		Vu=-21.10		Vu=15.40

B=0.50 H=0.70 L=8.70			B=0.50 H=0.70 L=1.30		
Mu=-57.75 As =27.09 As(r)=25.23	Mu=-66.84 As =30.96 As(r)=29.58	Mu=-16.39 As =27.20 As(r)=10.73	Mu=-0.06 As =19.35 As(r)=10.73		
Mu=19.25 As =12.50 As(r)=10.73	Mu=24.12 As =12.50 As(r)=10.73	Mu=22.28 As =12.50 As(r)=10.73	Mu=3.28 As =12.50 As(r)=10.73	Mu=0.00 As =12.50 As(r)=10.73	Mu=0.11 As =12.50 As(r)=10.73
Vu=24.67		Vu=-26.32		Vu=8.46	

V300/NE+10.90

B=0.40 H=0.60 L=10.70		
Mu=-47.83 As =28.14 As(r)=25.64	Mu=-33.73 As =19.46 As(r)=17.44	
Mu=15.94 As =11.72 As(r)=7.92	Mu=23.54 As =13.42 As(r)=11.89	Mu=11.24 As =9.66 As(r)=7.26
Vu=-22.84		Vu=17.05

V301/NE+10.90

B=0.40 H=0.60 L=10.70		
Mu=-48.05 As =28.14 As(r)=25.78	Mu=-27.50 As =15.34 As(r)=14.02	
Mu=16.02 As =9.66 As(r)=7.96	Mu=21.83 As =11.36 As(r)=10.99	Mu=9.61 As =9.66 As(r)=7.26
Vu=-23.09		Vu=14.78

V302/NE+10.90

B=0.50 H=0.70 L=1.60			B=0.50 H=0.70 L=8.30			B=0.50 H=0.70 L=0.60		
Mu=-0.07 As =12.50 As(r)=10.73	Mu=-14.92 As =13.35 As(r)=10.73	Mu=-31.30 As =13.35 As(r)=13.21	Mu=-21.89 As =13.35 As(r)=10.73	Mu=-31.30 As =13.35 As(r)=13.21	Mu=-21.89 As =13.35 As(r)=10.73			
Mu=2.99 As =12.50 As(r)=10.73	Mu=0.00 As =12.50 As(r)=10.73	Mu=2.98 As =12.50 As(r)=10.73	Mu=10.43 As =12.50 As(r)=10.73	Mu=6.26 As =12.50 As(r)=10.73	Mu=9.72 As =12.50 As(r)=10.73	Mu=10.43 As =12.50 As(r)=10.73	Mu=6.26 As =12.50 As(r)=10.73	Mu=9.72 As =12.50 As(r)=10.73
Vu=-6.74		Vu=-9.01		Vu=-10.58		Vu=9.23		Vu=9.23

V303/NE+10.90

B=0.50 H=0.70 L=4.70		
Mu=-7.44 As =14.20 As(r)=10.73	Mu=-4.50 As =14.20 As(r)=10.73	
Mu=3.09 As =14.20 As(r)=10.73	Mu=5.81 As =14.20 As(r)=10.73	Mu=6.29 As =14.20 As(r)=10.73
Vu=-7.28	Vu=5.76	

V304/NE+10.90

B=0.50 H=0.70 L=9.00			B=0.50 H=0.70 L=1.30		
Mu=-24.94 As =14.20 As(r)=10.73	Mu=-34.71 As =17.04 As(r)=14.71	Mu=-13.44 As =17.04 As(r)=10.73	Mu=-0.05 As =14.20 As(r)=10.73		
Mu=8.91 As =11.65 As(r)=10.73	Mu=6.94 As =11.65 As(r)=10.73	Mu=11.57 As =11.65 As(r)=10.73	Mu=2.69 As =11.65 As(r)=10.73	Mu=0.00 As =11.65 As(r)=10.73	Mu=2.51 As =11.65 As(r)=10.73
Vu=-9.84	Vu=10.94	Vu=-8.17	Vu=-5.90		

V305/NE+10.90

B=0.50 H=0.70 L=1.50			B=0.50 H=0.70 L=8.20			B=0.50 H=0.70 L=4.70		
Mu=-0.00 As =14.20 As(r)=10.73	Mu=-4.11 As =14.20 As(r)=10.73	Mu=-19.02 As =14.20 As(r)=10.73	Mu=-9.54 As =14.20 As(r)=10.73	Mu=-8.22 As =14.20 As(r)=10.73	Mu=-31.96 As =16.19 As(r)=13.50			
Mu=0.00 As =11.65 As(r)=10.73	Mu=0.00 As =11.65 As(r)=10.73	Mu=0.82 As =11.65 As(r)=10.73	Mu=6.34 As =11.65 As(r)=10.73	Mu=7.76 As =16.95 As(r)=10.73	Mu=3.80 As =11.65 As(r)=10.73	Mu=6.39 As =11.65 As(r)=10.73	Mu=6.81 As =11.65 As(r)=10.73	Mu=10.65 As =11.65 As(r)=10.73
Vu=0.00	Vu=3.66	Vu=-8.53	Vu=6.98	Vu=-4.78	Vu=-13.30			

B=0.50 H=0.70 L=8.70			B=0.50 H=0.70 L=1.30		
Mu=-16.15 As =16.19 As(r)=10.73	Mu=-25.53 As =14.20 As(r)=10.73	Mu=-4.11 As =14.20 As(r)=10.73	Mu=-0.00 As =14.20 As(r)=10.73		
Mu=6.71 As =11.65 As(r)=10.73	Mu=8.51 As =11.65 As(r)=10.73	Mu=8.51 As =11.65 As(r)=10.73	Mu=0.82 As =11.65 As(r)=10.73	Mu=0.00 As =11.65 As(r)=10.73	Mu=0.00 As =11.65 As(r)=10.73
Vu=-8.07	Vu=10.00	Vu=-3.66	Vu=0.00		

V404/CUB

B=0.30 H=0.70 L=1.84			B=0.30 H=0.70 L=8.50			B=0.30 H=0.70 L=0.84		
Mu=-4.45 As =8.52 As(r)=6.44	Mu=-12.68 As =8.52 As(r)=6.44	Mu=-15.70 As =8.52 As(r)=6.59	Mu=-29.79 As =13.76 As(r)=12.87	Mu=-9.20 As =13.76 As(r)=6.44	Mu=-0.56 As =13.76 As(r)=6.44			
Mu=0.00 As =8.52 As(r)=6.44	Mu=0.00 As =8.52 As(r)=6.44	Mu=2.54 As =8.52 As(r)=6.44	Mu=5.96 As =8.52 As(r)=6.44	Mu=9.09 As =8.52 As(r)=6.44	Mu=9.93 As =8.52 As(r)=6.44	Mu=1.84 As =8.52 As(r)=6.44	Mu=0.00 As =8.52 As(r)=6.44	Mu=0.52 As =8.52 As(r)=6.44
Vu=-6.60	Vu=-8.21	Vu=8.78	Vu=-15.84	Vu=5.70	Vu=2.57			

V405/CUB

B=0.30 H=0.70 L=9.35		B=0.30 H=0.70 L=1.74	
Mu=-9.98 As =8.52 As(r)=8.58	Mu=-36.47 As =17.04 As(r)=15.68	Mu=-8.34 As =17.04 As(r)=8.58	Mu=-0.40 As =6.39 As(r)=8.58
Mu=7.29 As =8.52 As(r)=6.54	Mu=10.94 As =8.52 As(r)=6.54	Mu=12.16 As =8.52 As(r)=6.54	Mu=1.67 As =8.52 As(r)=6.54
Mu=0.00 As =8.52 As(r)=6.54	Mu=0.59 As =6.39 As(r)=6.54		
Vu=-7.38	Vu=17.66	Vu=-5.31	Vu=-2.13

V401/CUB

B=0.30 H=0.70 L=11.45	
Mu=-27.54 As =12.39 As(r)=11.84	Mu=-22.24 As =11.36 As(r)=9.46
Mu=9.18 As =8.52 As(r)=6.44	Mu=21.65 As =11.36 As(r)=9.22
Mu=7.41 As =11.36 As(r)=6.44	
Vu=-11.96	Vu=13.43

V402/CUB

B=0.30 H=0.70 L=11.45	
Mu=-49.32 As =22.44 As(r)=22.33	Mu=-18.35 As =8.52 As(r)=7.74
Mu=16.44 As =8.52 As(r)=6.91	Mu=20.91 As =11.36 As(r)=9.19
Mu=9.86 As =11.36 As(r)=6.44	
Vu=-33.99	Vu=15.61

V400/CUB

B=0.60 H=0.70 L=11.50	
Mu=-62.34 As =27.09 As(r)=27.02	Mu=-51.87 As =25.81 As(r)=22.23
Mu=20.78 As =14.20 As(r)=12.87	Mu=30.08 As =14.20 As(r)=13.83
Mu=17.29 As =14.20 As(r)=12.87	
Vu=-23.21	Vu=35.92

V403/CUB

B=0.60 H=0.70 L=11.60	
Mu=-47.11 As =21.94 As(r)=20.09	Mu=-35.34 As =16.19 As(r)=14.88
Mu=15.70 As =14.20 As(r)=12.87	Mu=33.81 As =17.04 As(r)=15.22
Mu=11.78 As =14.20 As(r)=12.87	
Vu=-21.24	Vu=30.53

B=0.30 H=0.60 L=12.64		B=0.30 H=0.60 L=2.26	
Mu=-0.00 As =5.97 As(r)=5.45	Mu=-6.37 As =5.97 As(r)=5.45	Mu=-1.70 As =5.97 As(r)=5.45	Mu=-5.74 As =5.97 As(r)=5.45
Mu=3.32 As =5.97 As(r)=5.45	Mu=2.26 As =5.97 As(r)=5.45	Mu=1.27 As =5.97 As(r)=5.45	Mu=3.43 As =5.97 As(r)=5.45
		Mu=4.39 As =5.97 As(r)=5.45	Mu=1.91 As =5.97 As(r)=5.45
Vu=0.55	Vu=9.78	Vu=-3.46	Vu=6.62

V407/CUB

B=0.30 H=0.60 L=0.85		B=0.30 H=0.60 L=12.31		B=0.30 H=0.60 L=1.96	
Mu=-0.00 As =5.97 As(r)=5.45	Mu=-5.96 As =5.97 As(r)=5.45	Mu=-0.82 As =5.97 As(r)=5.45	Mu=-2.85 As =5.97 As(r)=5.45	Mu=-2.63 As =5.97 As(r)=5.45	Mu=-0.00 As =5.97 As(r)=5.45
Mu=3.23 As =5.97 As(r)=5.45	Mu=2.33 As =5.97 As(r)=5.45	Mu=1.16 As =5.97 As(r)=5.45	Mu=4.02 As =5.97 As(r)=5.45	Mu=1.16 As =5.97 As(r)=5.45	Mu=4.11 As =5.97 As(r)=5.45
		Mu=0.53 As =5.97 As(r)=5.45	Mu=0.34 As =5.97 As(r)=5.45	Mu=2.89 As =5.97 As(r)=5.45	
Vu=0.38	Vu=10.18	Vu=-2.09	Vu=8.50	Vu=-3.89	Vu=-3.07

V408/CUB

B=0.30 H=0.70 L=1.84		B=0.30 H=0.70 L=8.50		B=0.30 H=0.70 L=0.87	
Mu=-1.67 As =18.75 As(r)=6.44	Mu=-42.10 As =18.75 As(r)=18.72	Mu=-25.59 As =18.75 As(r)=10.96	Mu=-11.42 As =8.52 As(r)=6.44	Mu=-8.80 As =8.52 As(r)=6.44	Mu=-2.90 As =8.52 As(r)=6.44
Mu=0.56 As =8.52 As(r)=6.44	Mu=0.00 As =8.52 As(r)=6.44	Mu=8.42 As =8.52 As(r)=6.44	Mu=8.53 As =8.52 As(r)=6.44	Mu=9.07 As =8.52 As(r)=6.44	Mu=5.12 As =8.52 As(r)=6.44
		Mu=1.76 As =8.52 As(r)=6.44	Mu=0.26 As =8.52 As(r)=6.44	Mu=3.03 As =8.52 As(r)=6.44	
Vu=15.91	Vu=19.31	Vu=-10.79	Vu=10.68	Vu=-7.85	Vu=-6.25

V409/CUB

B=0.30 H=0.70 L=9.20		B=0.30 H=0.70 L=1.74	
Mu=-20.93 As =11.36 As(r)=8.87	Mu=-25.10 As =16.85 As(r)=10.74	Mu=-37.75 As =16.85 As(r)=16.61	Mu=-3.14 As =16.85 As(r)=6.44
Mu=6.98 As =8.52 As(r)=6.44	Mu=12.06 As =8.52 As(r)=6.44	Mu=8.37 As =8.52 As(r)=6.44	Mu=7.55 As =8.52 As(r)=6.44
		Mu=0.00 As =8.52 As(r)=6.44	Mu=0.21 As =8.52 As(r)=6.44
Vu=-11.56	Vu=10.71	Vu=-16.91	Vu=-13.51

VTC00/NE+0.15

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=2.05	
MU=-0.00 As =3.98 As(r)=2.28	MU=-9.00 As =6.34 As(r)=5.57	MU=-9.39 As =6.34 As(r)=5.84	MU=-6.52 As =3.98 As(r)=3.95	MU=-6.85 As =3.98 As(r)=4.16	MU=-0.00 As =3.98 As(r)=2.28
Mu=2.09 As =5.68 As(r)=3.01	Mu=7.78 As =5.68 As(r)=5.20	Mu=0.00 As =5.68 As(r)=2.28	Mu=3.28 As =5.68 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =5.68 As(r)=2.28
Vu=6.44	Vu=-10.67	Vu=9.10	Vu=-8.01	Vu=6.68	Vu=0.00

VTC01/NE+0.15

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25	
MU=-0.00 As =2.58 As(r)=2.28	MU=-11.29 As =8.04 As(r)=7.14	MU=-11.31 As =8.04 As(r)=7.16	MU=-0.00 As =2.58 As(r)=2.28
Mu=1.96 As =23.98 As(r)=2.28	Mu=6.57 As =5.97 As(r)=4.55	Mu=0.00 As =5.97 As(r)=2.28	Mu=6.34 As =5.97 As(r)=4.37
Vu=6.03	Vu=-11.08	Vu=11.00	Vu=-6.11

VTC02/NE+0.15

B=0.20 H=0.60 L=5.30		B=0.20 H=0.60 L=5.30	
MU=-6.12 As =3.87 As(r)=3.70	MU=-6.26 As =5.97 As(r)=4.03	MU=-8.27 As =5.97 As(r)=4.04	MU=-5.79 As =3.87 As(r)=3.70
Mu=1.02 As =5.97 As(r)=3.70	Mu=4.89 As =5.97 As(r)=3.70	Mu=0.00 As =5.97 As(r)=3.70	Mu=5.06 As =5.97 As(r)=3.70
Vu=-6.68	Vu=7.95	Vu=-8.02	Vu=6.61

VT100/NE+3.75

B=0.20 H=0.60 L=5.25		B=0.20 H=0.60 L=5.25		B=0.20 H=0.60 L=2.10	
MU=-8.96 As =5.97 As(r)=4.38	MU=-6.62 As =3.98 As(r)=3.70	MU=-6.97 As =3.98 As(r)=3.70	MU=-12.39 As =7.67 As(r)=6.15	MU=-6.02 As =7.67 As(r)=3.70	MU=-0.64 As =5.68 As(r)=3.70
Mu=4.48 As =3.98 As(r)=3.70	Mu=6.05 As =3.98 As(r)=3.70	Mu=0.00 As =3.98 As(r)=3.70	Mu=5.40 As =3.98 As(r)=3.70	Mu=4.53 As =3.98 As(r)=3.70	Mu=1.04 As =3.98 As(r)=3.70
Vu=-6.11	Vu=6.92	Vu=-6.84	Vu=6.84	Vu=4.48	Vu=2.35

VT101/NE+3.75

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=2.10	
MU=-0.00 As =2.58 As(r)=2.23	MU=-4.51 As =3.98 As(r)=2.75	MU=-4.92 As =3.98 As(r)=3.01	MU=-7.90 As =5.68 As(r)=4.97	MU=-7.59 As =5.68 As(r)=4.75	MU=-0.00 As =5.68 As(r)=2.23
Mu=1.09 As =3.98 As(r)=2.23	Mu=5.38 As =3.98 As(r)=3.49	Mu=0.90 As =2.58 As(r)=2.23	Mu=1.64 As =2.58 As(r)=2.23	Mu=1.52 As =2.58 As(r)=2.23	Mu=0.00 As =3.98 As(r)=2.23
Vu=4.34	Vu=-6.47	Vu=4.84	Vu=-5.97	Vu=7.22	Vu=0.00

VT102/NE+3.75

B=0.15 H=0.50 L=4.37		B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=2.10	
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-4.94 As=3.98 As(r)=2.95	Mu=-5.01 As=3.98 As(r)=3.00	Mu=-4.70 As=3.98 As(r)=2.80	Mu=-4.98 As=3.98 As(r)=2.98	Mu=-0.00 As=3.98 As(r)=2.28
Mu=0.00 As=3.98 As(r)=2.28	Mu=3.38 As=3.98 As(r)=2.28	Mu=0.00 As=3.98 As(r)=2.28	Mu=2.93 As=3.98 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=3.98 As(r)=2.28
Vu=3.60	Vu=-6.27	Vu=5.99	Vu=-5.87	Vu=4.75	Vu=0.00

VT103/NE+3.75

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25	
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-7.74 As=5.68 As(r)=4.74	Mu=-7.74 As=5.68 As(r)=4.74	Mu=-0.00 As=2.58 As(r)=2.28
Mu=1.06 As=3.28 As(r)=2.28	Mu=4.45 As=3.28 As(r)=3.00	Mu=0.00 As=3.28 As(r)=2.28	Mu=0.00 As=3.28 As(r)=3.00
Vu=4.26	Vu=-7.61	Vu=7.61	Vu=-4.26

VT104/NE+3.75

B=0.20 H=0.60 L=5.25		B=0.20 H=0.60 L=5.25	
Mu=-7.41 As=3.98 As(r)=3.70	Mu=-7.19 As=3.98 As(r)=3.70	Mu=-7.27 As=3.98 As(r)=3.70	Mu=-7.28 As=3.98 As(r)=3.70
Mu=2.29 As=3.98 As(r)=3.70	Mu=4.09 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=4.51 As=3.98 As(r)=3.70
Vu=-6.02	Vu=6.62	Vu=-6.65	Vu=5.99

VT121/N 3.85

B=0.20 H=0.84 L=4.70		B=0.20 H=0.84 L=9.10		B=0.20 H=0.84 L=1.90	
Mu=-0.00 As=5.07 As(r)=5.28	Mu=-16.27 As=5.07 As(r)=5.28	Mu=-15.74 As=5.07 As(r)=5.42	Mu=-16.81 As=5.07 As(r)=5.28	Mu=17.36 As=5.07 As(r)=5.00	Mu=-0.01 As=5.07 As(r)=5.28
Mu=0.63 As=5.07 As(r)=5.28	Mu=0.13 As=5.07 As(r)=5.28	Mu=0.00 As=5.07 As(r)=5.28	Mu=13.54 As=5.07 As(r)=5.28	Mu=0.00 As=5.07 As(r)=5.28	Mu=0.00 As=5.07 As(r)=5.28
Vu=3.17	Vu=-10.36	Vu=12.99	Vu=-13.22	Vu=11.39	Vu=5.92

B=0.20 H=0.84 L=0.50	
Mu=-0.36 As=5.07 As(r)=5.28	Mu=-0.00 As=5.07 As(r)=5.28
Mu=0.00 As=5.07 As(r)=5.28	Mu=0.00 As=5.07 As(r)=5.28
Vu=1.44	Vu=0.00

VT200/NE+7.35

B=0.20 H=0.60 L=5.25		B=0.20 H=0.60 L=5.25	
Mu=-10.18 As=5.27 As(r)=5.01	Mu=-9.83 As=5.27 As(r)=4.83	Mu=-9.75 As=5.27 As(r)=4.79	Mu=-8.40 As=3.98 As(r)=4.10
Mu=3.98 As=3.98 As(r)=3.70	Mu=5.86 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=6.16 As=3.98 As(r)=3.70
Vu=-6.80	Vu=8.31	Vu=-8.48	Vu=6.46

VT201/NE+7.35

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25	
Mu=-0.00 As=3.98 As(r)=2.28	Mu=-12.67 As=9.31 As(r)=8.13	Mu=-12.67 As=9.31 As(r)=8.13	Mu=-0.00 As=2.58 As(r)=2.28
Mu=1.74 As=5.68 As(r)=5.05	Mu=7.29 As=5.68 As(r)=5.05	Mu=0.00 As=5.68 As(r)=5.05	Mu=7.29 As=5.68 As(r)=5.05
Vu=6.97	Vu=-12.46	Vu=12.46	Vu=-6.97

VT202/NE+7.35

B=0.15 H=0.50 L=4.65		B=0.15 H=0.50 L=5.25	
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-11.48 As=7.96 As(r)=7.28	Mu=-11.28 As=7.96 As(r)=7.14	Mu=-0.00 As=2.58 As(r)=2.28
Mu=1.46 As=3.98 As(r)=2.28	Mu=4.99 As=3.98 As(r)=3.54	Mu=0.00 As=5.68 As(r)=2.28	Mu=8.01 As=5.68 As(r)=5.45
Vu=5.82	Vu=-11.38	Vu=12.20	Vu=-7.22

VT203/NE+7.35

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25	
Mu=-0.00 As=3.98 As(r)=2.28	Mu=-12.67 As=9.31 As(r)=8.13	Mu=-12.67 As=9.31 As(r)=8.13	Mu=-0.00 As=2.58 As(r)=2.28
Mu=1.74 As=4.83 As(r)=2.92	Mu=7.29 As=5.68 As(r)=5.05	Mu=0.00 As=5.68 As(r)=2.28	Mu=7.29 As=5.68 As(r)=5.05
Vu=6.97	Vu=-12.46	Vu=12.46	Vu=-6.97

VT300/NE+11.15

B=0.15 H=0.50 L=4.85	
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28
Mu=1.16 As=5.68 As(r)=2.28	Mu=8.22 As=5.68 As(r)=5.05
Vu=5.82	Vu=-5.82

VT400/

B=0.15 H=0.50 L=2.59		B=0.15 H=0.50 L=5.22		B=0.15 H=0.50 L=8.26	
Mu=-0.00 As=3.98 As(r)=2.28	Mu=-7.95 As=6.34 As(r)=4.88	Mu=-8.26 As=6.34 As(r)=5.08	Mu=-13.86 As=11.36 As(r)=9.01	Mu=-13.16 As=11.36 As(r)=8.51	Mu=-0.00 As=2.58 As(r)=2.28
Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=5.68 As(r)=2.28	Mu=14.03 As=9.66 As(r)=3.56
Vu=0.00	Vu=-6.14	Vu=5.11	Vu=-7.26	Vu=11.48	Vu=-8.09

VT411/CUB

B=0.15 H=0.50 L=2.21		B=0.15 H=0.50 L=6.12	
Mu=-0.00 As=2.98 As(r)=2.28	Mu=-4859.68 As=3.98 As(r)=2.94	Mu=-4441.83 As=3.98 As(r)=2.68	Mu=-0.00 As=2.58 As(r)=2.28
Mu=0.00 As=1.93 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=7.14 As(r)=2.28	Mu=7690.34 As=6.88 As(r)=4.95
Vu=0.00	Vu=-4397.90	Vu=7009.46	Vu=-5169.34

VT412/CUB

B=0.15 H=0.50 L=3.96		B=0.15 H=0.50 L=4.13	
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-5291.14 As=3.98 As(r)=3.22	Mu=-5461.01 As=3.98 As(r)=3.33	Mu=-0.00 As=2.58 As(r)=2.28
Mu=1313.66 As=3.98 As(r)=2.28	Mu=4038.58 As=3.98 As(r)=3.01	Mu=0.00 As=6.34 As(r)=2.28	Mu=0.00 As=4.07 As(r)=2.28
Vu=6568.32	Vu=-6682.08	Vu=5620.37	Vu=-2598.33

VT401/CUB

B=0.15 H=0.50 L=2.73		B=0.15 H=0.50 L=3.24		B=0.15 H=0.50 L=6.27	
Mu=-0.00 As=4.26 As(r)=2.28	Mu=-8.67 As=5.68 As(r)=5.49	Mu=-9.03 As=5.68 As(r)=5.59	Mu=-7.49 As=5.68 As(r)=4.58	Mu=-7.23 As=5.68 As(r)=4.40	Mu=-0.00 As=2.58 As(r)=2.28
Mu=0.00 As=1.93 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=8.26 As(r)=2.28	Mu=8.39 As=2.58 As(r)=5.38
Vu=0.00	Vu=-6.50	Vu=4.33	Vu=-3.38	Vu=8.71	Vu=-6.21

VT402/CUB

B=0.15 H=0.50 L=2.73		B=0.15 H=0.50 L=1.09		B=0.15 H=0.50 L=4.13	
Mu=-0.00 As=4.26 As(r)=2.28	Mu=-8.87 As=5.68 As(r)=5.49	Mu=-8.77 As=5.68 As(r)=5.42	Mu=-1.64 As=7.18 As(r)=2.28	Mu=-1.12 As=7.38 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28
Mu=0.00 As=1.93 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.69 As(r)=2.28	Mu=4.63 As=2.58 As(r)=2.76
Vu=0.00	Vu=-6.50	Vu=7.84	Vu=5.24	Vu=5.24	Vu=-4.59

VT403/CUB

B=0.15 H=0.50 L=2.30		B=0.15 H=0.50 L=0.13		B=0.15 H=0.50 L=1.25	
Mu=-0.00 As=2.99 As(r)=2.28	Mu=-6.30 As=3.98 As(r)=3.81	Mu=-5.30 As=3.98 As(r)=3.18	Mu=-2.02 As=3.98 As(r)=2.28	Mu=-0.01 As=3.98 As(r)=2.28	Mu=-0.00 As=0.00 As(r)=2.28
Mu=0.00 As=1.93 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.53 As=2.58 As(r)=2.28
Vu=0.00	Vu=-5.47	Vu=25.40	Vu=25.09	Vu=1.61	Vu=-1.37

VT404/CUB

B=0.15 H=0.50 L=3.96		B=0.15 H=0.50 L=4.13	
Mu=-0.00 As=1.93 As(r)=2.28	Mu=-4.82 As=2.58 As(r)=2.88	Mu=-4.81 As=2.58 As(r)=2.87	Mu=-0.00 As=1.93 As(r)=2.28
Mu=0.17 As=0.64 As(r)=2.28	Mu=2.34 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=2.76 As=2.58 As(r)=2.28
Vu=3.45	Vu=-5.97	Vu=6.12	Vu=-3.71

VT405/CUB

B=0.15 H=0.50 L=4.45		B=0.15 H=0.50 L=4.36	
Mu=-0.00 As=0.00 As(r)=2.28	Mu=-6.43 As=0.00 As(r)=3.89	Mu=-6.14 As=0.00 As(r)=3.71	Mu=-1.60 As=0.00 As(r)=2.28
Mu=1.67 As=0.00 As(r)=2.28	Mu=2.81 As=0.00 As(r)=2.28	Mu=0.00 As=0.00 As(r)=2.28	Mu=2.00 As=0.00 As(r)=2.28
Vu=-2.77	Vu=5.99	Vu=-5.56	Vu=3.05

VT406/CUB4

B=0.15 H=0.50 L=1.98		B=0.15 H=0.50 L=1.80	
Mu=-0.00 As=3.98 As(r)=2.28	Mu=-5.19 As=3.98 As(r)=3.15	Mu=-4.91 As=3.98 As(r)=2.97	Mu=-0.00 As=3.98 As(r)=2.28
Mu=1.42 As=2.58 As(r)=2.28	Mu=0.05 As=2.58 As(r)=2.28	Mu=1.04 As=2.58 As(r)=2.28	Mu=0.98 As=2.58 As(r)=2.28
Vu=0.39	Vu=4.91	Vu=-4.68	Vu=-0.51

VT407/CUB

B=0.15 H=0.50 L=2.59		B=0.15 H=0.50 L=5.22		B=0.15 H=0.50 L=8.26	
Mu=-0.00 As=3.98 As(r)=2.28	Mu=-5189.18 As=3.98 As(r)=3.15	Mu=-4073.46 As=3.98 As(r)=2.44	Mu=-15417.62 As=12.93 As(r)=11.98	Mu=-15791.32 As=12.93 As(r)=12.17	Mu=-0.00 As=2.58 As(r)=2.28
Mu=108.48 As=5.68 As(r)=2.28	Mu=0.00 As=5.68 As(r)=2.28	Mu=0.00 As=5.68 As(r)=2.28	Mu=5363.62 As=5.68 As(r)=3.83	Mu=0.00 As=13.42 As(r)=2.28	Mu=0.00 As=13.42 As(r)=2.28
Vu=532.40	Vu=-4621.70	Vu=8340.69	Vu=-12687.11	Vu=10351.52	Vu=-8085.88

VT408/CUB

B=0.15 H=0.50 L=3.05			B=0.15 H=0.50 L=3.30			B=0.15 H=0.50 L=6.76		
Mu=-0.00 As=5.68 As(r)=2.28	Mu=-2.75 As=5.68 As(r)=2.28	Mu=-0.00 As=5.68 As(r)=2.28	Mu=-7.15 As=2.54 As(r)=4.35	Mu=-6.55 As=0.00 As(r)=5.27	Mu=-4.01 As=0.00 As(r)=2.38			
Mu=2.06 As=2.54 As(r)=2.28	Mu=2.64 As=2.54 As(r)=2.28	Mu=0.00 As=2.54 As(r)=2.28	Mu=2.62 As=5.68 As(r)=2.28	Mu=0.61 As=5.68 As(r)=2.28	Mu=0.00 As=2.54 As(r)=2.28	Mu=0.00 As=0.00 As(r)=2.28	Mu=4.94 As=0.00 As(r)=2.95	Mu=0.00 As=2.54 As(r)=2.28
Vu=-1.82	Vu=4.42	Vu=-1.19	Vu=5.80	Vu=-7.10	Vu=5.79			

VT409/CUB

B=0.15 H=0.50 L=3.05			B=0.15 H=0.50 L=1.14			B=0.15 H=0.50 L=4.60		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-5.32 As=2.58 As(r)=3.19	Mu=-0.19 As=2.58 As(r)=2.28	Mu=-6.61 As=5.68 As(r)=4.01	Mu=-7.33 As=5.68 As(r)=4.47	Mu=-1.02 As=5.68 As(r)=2.28			
Mu=2.02 As=2.58 As(r)=2.28	Mu=1.03 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.65 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=1.76 As=2.58 As(r)=2.28	Mu=0.13 As=2.58 As(r)=2.28
Vu=-0.98	Vu=5.30	Vu=3.77	Vu=6.11	Vu=-5.79	Vu=3.08			

VT410/CUB

B=0.15 H=0.50 L=2.43			B=0.15 H=0.50 L=0.47			B=0.15 H=0.50 L=1.46		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-1.36 As=2.58 As(r)=2.28	Mu=-1.50 As=2.58 As(r)=2.28	Mu=-0.79 As=2.58 As(r)=2.28	Mu=-0.19 As=2.58 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28			
Mu=0.22 As=2.58 As(r)=2.28	Mu=1.17 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.68 As=2.58 As(r)=2.28	Mu=0.28 As=2.58 As(r)=2.28
Vu=2.23	Vu=-3.55	Vu=2.06	Vu=0.93	Vu=2.06	Vu=-1.42			

VT413/CUB

B=0.15 H=0.50 L=1.98			B=0.15 H=0.50 L=0.77			B=0.15 H=0.50 L=0.93		
Mu=-1.36 As=3.98 As(r)=2.28	Mu=-4.93 As=3.98 As(r)=2.95	Mu=-4.93 As=3.98 As(r)=2.95	Mu=-1.91 As=3.98 As(r)=3.38	Mu=-4.85 As=3.98 As(r)=3.38	Mu=-0.00 As=3.98 As(r)=2.28			
Mu=0.77 As=2.54 As(r)=2.28	Mu=0.68 As=2.54 As(r)=2.28	Mu=0.68 As=2.54 As(r)=2.28	Mu=1.130 As=2.54 As(r)=2.28	Mu=1.13 As=2.54 As(r)=2.28	Mu=0.56 As=2.54 As(r)=2.28	Mu=0.37 As=2.54 As(r)=2.28	Mu=0.73 As=2.54 As(r)=2.28	Mu=0.56 As=2.54 As(r)=2.28
Vu=-0.87	Vu=4.15	Vu=-4.22	Vu=-2.66	Vu=-4.75	Vu=-1.57			

VT417/CUB

B=0.15 H=0.50 L=3.85		
Mu=-0.00 As=1.93 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28	
Mu=376.93 As=2.90 As(r)=2.28	Mu=6364.40 As=3.98 As(r)=3.92	Mu=376.93 As=3.98 As(r)=2.28
Vu=5025.75	Vu=-5025.75	

VT418/CUB

B=0.15 H=0.50 L=1.95		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28	
Mu=281.00 As=2.58 As(r)=2.28	Mu=1161.64 As=2.58 As(r)=2.28	Mu=150.54 As=2.58 As(r)=2.28
Vu=1873.34	Vu=-2007.16	

Reactions

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
11	31:CIM	3.629	222.473	1.387	0.000	0.000	0.000
	32:CIMX1	12.322	183.014	4.980	0.000	0.000	0.000
	33:CIMX2	-7.372	143.498	0.698	0.000	0.000	0.000
	34:CIMX3	11.311	175.111	-0.248	0.000	0.000	0.000
	35:CIMX4	-8.384	135.594	-4.531	0.000	0.000	0.000
	36:CIMX5	6.609	178.404	9.581	0.000	0.000	0.000
	37:CIMX6	0.701	166.549	8.297	0.000	0.000	0.000
	38:CIMX7	3.238	152.060	-7.847	0.000	0.000	0.000
	39:CIMX8	-3.233	139.076	-9.254	0.000	0.000	0.000
	40:CIMX9	13.982	246.183	6.142	0.000	0.000	0.000
	41:CIMX10	12.970	238.279	0.914	0.000	0.000	0.000
	42:CIMX11	-5.713	206.666	1.860	0.000	0.000	0.000
	43:CIMX12	-6.724	198.763	-3.369	0.000	0.000	0.000
	44:CIMX13	8.269	241.572	10.743	0.000	0.000	0.000
	45:CIMX14	4.897	215.228	-6.685	0.000	0.000	0.000
	46:CIMX15	2.360	229.717	9.459	0.000	0.000	0.000
	47:CIMX16	-1.011	203.373	-7.970	0.000	0.000	0.000
13	31:CIM	2.391	179.932	-3.255	0.000	0.000	0.000
	32:CIMX1	7.670	146.300	3.095	0.000	0.000	0.000
	33:CIMX2	-4.968	113.021	0.288	0.000	0.000	0.000
	34:CIMX3	7.515	144.271	-4.848	0.000	0.000	0.000
	35:CIMX4	-5.122	110.992	-7.655	0.000	0.000	0.000
	36:CIMX5	3.427	137.020	11.379	0.000	0.000	0.000
	37:CIMX6	-0.364	127.036	10.537	0.000	0.000	0.000
	38:CIMX7	2.911	130.255	-15.097	0.000	0.000	0.000
	39:CIMX8	-1.241	119.321	-16.019	0.000	0.000	0.000
	40:CIMX9	8.787	197.586	2.120	0.000	0.000	0.000
	41:CIMX10	8.632	195.557	-5.823	0.000	0.000	0.000
	42:CIMX11	-3.850	164.307	-0.687	0.000	0.000	0.000
	43:CIMX12	-4.005	162.277	-8.630	0.000	0.000	0.000
	44:CIMX13	4.544	188.306	10.404	0.000	0.000	0.000
	45:CIMX14	4.029	181.541	-16.072	0.000	0.000	0.000
	46:CIMX15	0.753	178.322	9.562	0.000	0.000	0.000
	47:CIMX16	0.237	171.558	-16.914	0.000	0.000	0.000
15	31:CIM	2.540	170.171	11.926	0.000	0.000	0.000
	32:CIMX1	7.576	140.236	13.692	0.000	0.000	0.000
	33:CIMX2	-4.453	108.091	10.667	0.000	0.000	0.000
	34:CIMX3	7.250	138.988	5.633	0.000	0.000	0.000
	35:CIMX4	-4.779	106.843	2.609	0.000	0.000	0.000
	36:CIMX5	3.746	130.441	22.034	0.000	0.000	0.000
	37:CIMX6	0.137	120.797	21.127	0.000	0.000	0.000
	38:CIMX7	2.659	126.281	-4.826	0.000	0.000	0.000
	39:CIMX8	-1.293	115.719	-5.820	0.000	0.000	0.000
	40:CIMX9	8.718	186.867	17.468	0.000	0.000	0.000
	41:CIMX10	8.392	185.620	9.410	0.000	0.000	0.000
	42:CIMX11	-3.311	154.722	14.443	0.000	0.000	0.000
	43:CIMX12	-3.637	153.474	6.385	0.000	0.000	0.000
	44:CIMX13	4.888	177.073	25.810	0.000	0.000	0.000
	45:CIMX14	3.801	172.913	-1.050	0.000	0.000	0.000
	46:CIMX15	1.279	167.429	24.903	0.000	0.000	0.000
	47:CIMX16	0.193	163.269	-1.958	0.000	0.000	0.000
17	31:CIM	3.486	168.352	-3.598	0.000	0.000	0.000
	32:CIMX1	8.791	144.362	0.577	0.000	0.000	0.000

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
	33:CIMX2	-3.508	108.515	-0.782	0.000	0.000	0.000
	34:CIMX3	7.689	135.683	-4.112	0.000	0.000	0.000
	35:CIMX4	-4.610	99.837	-5.472	0.000	0.000	0.000
	36:CIMX5	5.772	141.940	5.573	0.000	0.000	0.000
	37:CIMX6	2.082	131.186	5.165	0.000	0.000	0.000
	38:CIMX7	2.099	113.013	-10.059	0.000	0.000	0.000
	39:CIMX8	-1.942	101.235	-10.506	0.000	0.000	0.000
	40:CIMX9	10.187	190.614	-0.573	0.000	0.000	0.000
	41:CIMX10	9.085	181.936	-5.263	0.000	0.000	0.000
	42:CIMX11	-2.112	154.768	-1.933	0.000	0.000	0.000
	43:CIMX12	-3.214	146.090	-6.622	0.000	0.000	0.000
	44:CIMX13	7.168	188.192	4.422	0.000	0.000	0.000
	45:CIMX14	3.495	159.265	-11.210	0.000	0.000	0.000
	46:CIMX15	3.478	177.439	4.014	0.000	0.000	0.000
	47:CIMX16	-0.195	148.511	-11.618	0.000	0.000	0.000
73	31:CIM	0.003	165.283	-2.950	0.000	0.000	0.000
	32:CIMX1	10.436	107.557	1.150	0.000	0.000	0.000
	33:CIMX2	-9.242	106.589	0.630	0.000	0.000	0.000
	34:CIMX3	8.799	103.527	-2.189	0.000	0.000	0.000
	35:CIMX4	-10.879	102.558	-2.708	0.000	0.000	0.000
	36:CIMX5	5.459	111.921	4.863	0.000	0.000	0.000
	37:CIMX6	-0.445	111.630	4.707	0.000	0.000	0.000
	38:CIMX7	0.001	98.485	-6.265	0.000	0.000	0.000
	39:CIMX8	-6.464	98.167	-6.436	0.000	0.000	0.000
	40:CIMX9	10.660	167.783	-1.021	0.000	0.000	0.000
	41:CIMX10	9.023	163.752	-4.359	0.000	0.000	0.000
	42:CIMX11	-9.018	166.814	-1.540	0.000	0.000	0.000
	43:CIMX12	-10.655	162.784	-4.879	0.000	0.000	0.000
	44:CIMX13	5.683	172.146	2.692	0.000	0.000	0.000
	45:CIMX14	0.226	158.711	-8.436	0.000	0.000	0.000
	46:CIMX15	-0.220	171.855	2.536	0.000	0.000	0.000
	47:CIMX16	-5.677	158.420	-8.592	0.000	0.000	0.000
74	31:CIM	-0.340	131.093	7.643	0.000	0.000	0.000
	32:CIMX1	5.248	83.234	6.790	0.000	0.000	0.000
	33:CIMX2	-5.819	78.066	6.356	0.000	0.000	0.000
	34:CIMX3	4.956	81.989	3.100	0.000	0.000	0.000
	35:CIMX4	-6.111	76.821	2.666	0.000	0.000	0.000
	36:CIMX5	1.716	82.877	10.943	0.000	0.000	0.000
	37:CIMX6	-1.604	81.327	10.813	0.000	0.000	0.000
	38:CIMX7	0.741	78.728	-1.357	0.000	0.000	0.000
	39:CIMX8	-2.895	77.030	-1.499	0.000	0.000	0.000
	40:CIMX9	5.340	134.299	9.705	0.000	0.000	0.000
	41:CIMX10	5.048	133.055	6.015	0.000	0.000	0.000
	42:CIMX11	-5.727	129.131	9.271	0.000	0.000	0.000
	43:CIMX12	-6.019	127.887	5.581	0.000	0.000	0.000
	44:CIMX13	1.808	133.943	13.858	0.000	0.000	0.000
	45:CIMX14	0.833	129.794	1.558	0.000	0.000	0.000
	46:CIMX15	-1.512	132.392	13.728	0.000	0.000	0.000
	47:CIMX16	-2.487	128.244	1.428	0.000	0.000	0.000
75	31:CIM	-0.832	156.542	-4.889	0.000	0.000	0.000
	32:CIMX1	5.462	95.556	-0.761	0.000	0.000	0.000
	33:CIMX2	-6.874	93.075	-1.285	0.000	0.000	0.000
	34:CIMX3	5.328	93.261	-4.147	0.000	0.000	0.000

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
	35:CIMX4	-7.008	90.780	-4.671	0.000	0.000	0.000
	36:CIMX5	1.301	97.365	3.006	0.000	0.000	0.000
	37:CIMX6	-2.399	96.621	2.849	0.000	0.000	0.000
	38:CIMX7	0.853	89.715	-8.281	0.000	0.000	0.000
	39:CIMX8	-3.200	88.900	-8.453	0.000	0.000	0.000
	40:CIMX9	5.403	158.930	-2.934	0.000	0.000	0.000
	41:CIMX10	5.269	156.635	-6.320	0.000	0.000	0.000
	42:CIMX11	-6.933	156.450	-3.457	0.000	0.000	0.000
	43:CIMX12	-7.067	154.154	-6.843	0.000	0.000	0.000
	44:CIMX13	1.242	160.740	0.833	0.000	0.000	0.000
	45:CIMX14	0.794	153.089	-10.454	0.000	0.000	0.000
	46:CIMX15	-2.459	159.995	0.676	0.000	0.000	0.000
	47:CIMX16	-2.907	152.345	-10.611	0.000	0.000	0.000
76	31:CIM	-1.438	196.314	-0.592	0.000	0.000	0.000
	32:CIMX1	7.549	123.180	-0.185	0.000	0.000	0.000
	33:CIMX2	-9.222	122.420	-0.455	0.000	0.000	0.000
	34:CIMX3	6.751	119.697	-1.666	0.000	0.000	0.000
	35:CIMX4	-10.019	118.938	-1.936	0.000	0.000	0.000
	36:CIMX5	2.610	126.977	1.449	0.000	0.000	0.000
	37:CIMX6	-2.421	126.749	1.368	0.000	0.000	0.000
	38:CIMX7	-0.049	115.368	-3.489	0.000	0.000	0.000
	39:CIMX8	-5.560	115.119	-3.578	0.000	0.000	0.000
	40:CIMX9	7.346	198.435	0.283	0.000	0.000	0.000
	41:CIMX10	6.549	194.952	-1.198	0.000	0.000	0.000
	42:CIMX11	-9.424	197.676	0.013	0.000	0.000	0.000
	43:CIMX12	-10.222	194.193	-1.468	0.000	0.000	0.000
	44:CIMX13	2.407	202.232	1.917	0.000	0.000	0.000
	45:CIMX14	-0.252	190.623	-3.021	0.000	0.000	0.000
	46:CIMX15	-2.624	202.004	1.836	0.000	0.000	0.000
	47:CIMX16	-5.283	190.396	-3.102	0.000	0.000	0.000
77	31:CIM	-6.716	200.122	-7.871	0.000	0.000	0.000
	32:CIMX1	3.330	165.741	-1.785	0.000	0.000	0.000
	33:CIMX2	-10.043	131.231	-3.218	0.000	0.000	0.000
	34:CIMX3	2.168	155.666	-6.461	0.000	0.000	0.000
	35:CIMX4	-11.205	121.155	-7.893	0.000	0.000	0.000
	36:CIMX5	0.005	165.417	3.168	0.000	0.000	0.000
	37:CIMX6	-4.007	155.064	2.739	0.000	0.000	0.000
	38:CIMX7	-3.868	131.832	-12.417	0.000	0.000	0.000
	39:CIMX8	-8.262	120.493	-12.888	0.000	0.000	0.000
	40:CIMX9	0.551	222.415	-4.817	0.000	0.000	0.000
	41:CIMX10	-0.611	212.339	-9.493	0.000	0.000	0.000
	42:CIMX11	-12.822	187.904	-6.249	0.000	0.000	0.000
	43:CIMX12	-13.984	177.829	-10.925	0.000	0.000	0.000
	44:CIMX13	-2.774	222.091	0.137	0.000	0.000	0.000
	45:CIMX14	-6.646	188.506	-15.449	0.000	0.000	0.000
	46:CIMX15	-6.786	211.738	-0.293	0.000	0.000	0.000
	47:CIMX16	-10.658	178.153	-15.879	0.000	0.000	0.000
78	31:CIM	-2.872	186.808	10.481	0.000	0.000	0.000
	32:CIMX1	3.381	146.440	11.116	0.000	0.000	0.000
	33:CIMX2	-5.848	119.584	9.093	0.000	0.000	0.000
	34:CIMX3	3.161	140.331	4.689	0.000	0.000	0.000
	35:CIMX4	-6.068	113.474	2.666	0.000	0.000	0.000
	36:CIMX5	0.408	144.169	17.906	0.000	0.000	0.000

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
	37:CIMX6	-2.360	136.112	17.299	0.000	0.000	0.000
	38:CIMX7	-0.326	123.802	-3.517	0.000	0.000	0.000
	39:CIMX8	-3.359	114.978	-4.182	0.000	0.000	0.000
	40:CIMX9	1.853	203.291	14.706	0.000	0.000	0.000
	41:CIMX10	1.633	197.181	8.279	0.000	0.000	0.000
	42:CIMX11	-7.376	176.434	12.684	0.000	0.000	0.000
	43:CIMX12	-7.596	170.324	6.257	0.000	0.000	0.000
	44:CIMX13	-1.120	201.019	21.496	0.000	0.000	0.000
	45:CIMX14	-1.854	180.653	0.074	0.000	0.000	0.000
	46:CIMX15	-3.889	192.962	20.889	0.000	0.000	0.000
	47:CIMX16	-4.623	172.596	-0.533	0.000	0.000	0.000
79	31:CIM	0.061	216.826	-11.904	0.000	0.000	0.000
	32:CIMX1	6.709	166.251	-0.502	0.000	0.000	0.000
	33:CIMX2	-5.303	134.568	-4.201	0.000	0.000	0.000
	34:CIMX3	6.585	163.465	-9.814	0.000	0.000	0.000
	35:CIMX4	-5.426	131.782	-13.514	0.000	0.000	0.000
	36:CIMX5	2.649	158.413	9.068	0.000	0.000	0.000
	37:CIMX6	-0.955	148.909	7.958	0.000	0.000	0.000
	38:CIMX7	2.237	149.125	-21.974	0.000	0.000	0.000
	39:CIMX8	-1.709	138.714	-23.189	0.000	0.000	0.000
	40:CIMX9	6.129	234.061	-5.398	0.000	0.000	0.000
	41:CIMX10	6.005	231.274	-14.711	0.000	0.000	0.000
	42:CIMX11	-5.883	202.378	-9.098	0.000	0.000	0.000
	43:CIMX12	-6.006	199.591	-18.411	0.000	0.000	0.000
	44:CIMX13	2.069	226.223	4.172	0.000	0.000	0.000
	45:CIMX14	1.657	216.934	-26.871	0.000	0.000	0.000
	46:CIMX15	-1.535	216.718	3.062	0.000	0.000	0.000
	47:CIMX16	-1.946	207.429	-27.980	0.000	0.000	0.000
80	31:CIM	0.087	284.518	3.621	0.000	0.000	0.000
	32:CIMX1	12.348	224.179	5.920	0.000	0.000	0.000
	33:CIMX2	-10.103	184.331	1.971	0.000	0.000	0.000
	34:CIMX3	11.240	212.397	0.302	0.000	0.000	0.000
	35:CIMX4	-11.211	172.549	-3.647	0.000	0.000	0.000
	36:CIMX5	5.783	223.979	11.091	0.000	0.000	0.000
	37:CIMX6	-0.952	212.025	9.907	0.000	0.000	0.000
	38:CIMX7	2.090	184.704	-7.634	0.000	0.000	0.000
	39:CIMX8	-5.287	171.611	-8.931	0.000	0.000	0.000
	40:CIMX9	11.866	310.334	8.405	0.000	0.000	0.000
	41:CIMX10	10.759	298.551	2.787	0.000	0.000	0.000
	42:CIMX11	-10.585	270.486	4.456	0.000	0.000	0.000
	43:CIMX12	-11.692	258.703	-1.162	0.000	0.000	0.000
	44:CIMX13	5.301	310.133	13.576	0.000	0.000	0.000
	45:CIMX14	1.608	270.858	-5.149	0.000	0.000	0.000
	46:CIMX15	-1.434	298.179	12.392	0.000	0.000	0.000
	47:CIMX16	-5.127	258.904	-6.333	0.000	0.000	0.000



JARDÍN INFANTIL CAMPO VERDE.

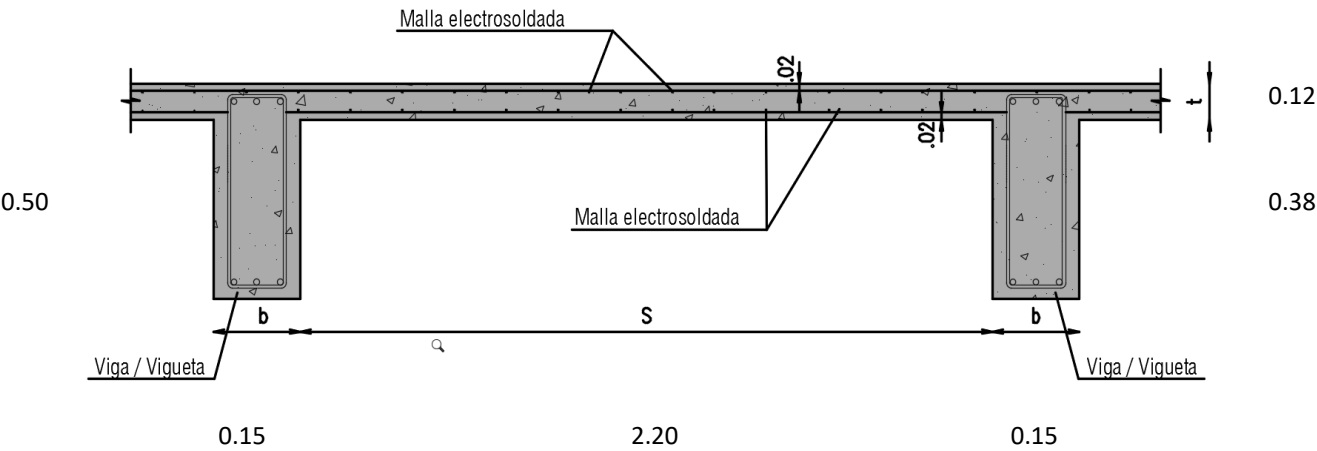
MODULO B

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 18 abril de 2018

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde** **Modulo B** CALCULO: JDH

PISO: Piso 1



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	58	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	346 Kg/m ²	+ 245 Kg/m ²
C. VIVA	200 Kg/m ²	
C. TOTAL =		791 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1029 Kg/m ²
Factor de Carga, F.C.=		1.30

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:
 $q_u / \text{Vigueta} = 1029 \times 2.35 = 2418.6 \text{ Kg/m}$

DISEÑO DE LA LOSA			Materiales (kg/cm ²)		
C. MUERTA =	508.0	Kg/m ²	f'c =	280	b (cm) = 100
C. VIVA =	200.0	Kg/m ²	fy =	4200	d (cm) = 9
C. ULTIMA =	929.6	Kg/m ²			

Diseño a Flexión					
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	449.93	0.062	0.07	0.0017	2.16
M+	321.38	0.044	0.07	0.0012	2.16

Chequeo Cortante		
v _u (kg/m)	φV _c (kg/m)	Check
1022.56	5986.30	Ok

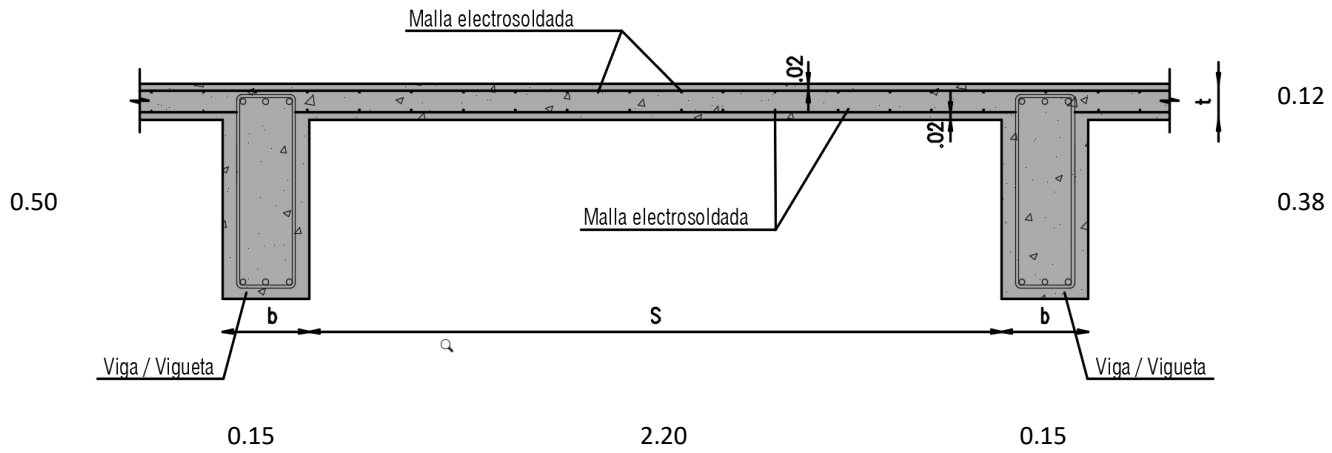
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardin Infantil Campo Verde

Modulo B

CALCULO: JDH

PISO: Piso 1 Z. Comunes



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	58	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	346 Kg/m ²	+ 245 Kg/m ²
C. VIVA	500 Kg/m ²	
C. TOTAL =		1091 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1509 Kg/m ²
Factor de Carga, F.C.=		1.38

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1509 \times 2.35 = 3546.6 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	508.0	Kg/m ²	Materiales	(kg/cm ²)	
C. VIVA =	500.0	Kg/m ²	f'c =	280	b (cm) = 100
C. ULTIMA =	1409.6	Kg/m ²	fy =	4200	d (cm) = 9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	682.25	0.094	0.07	0.0025	2.28
M+	487.32	0.067	0.07	0.0018	2.16

Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1550.56	5986.30	Ok

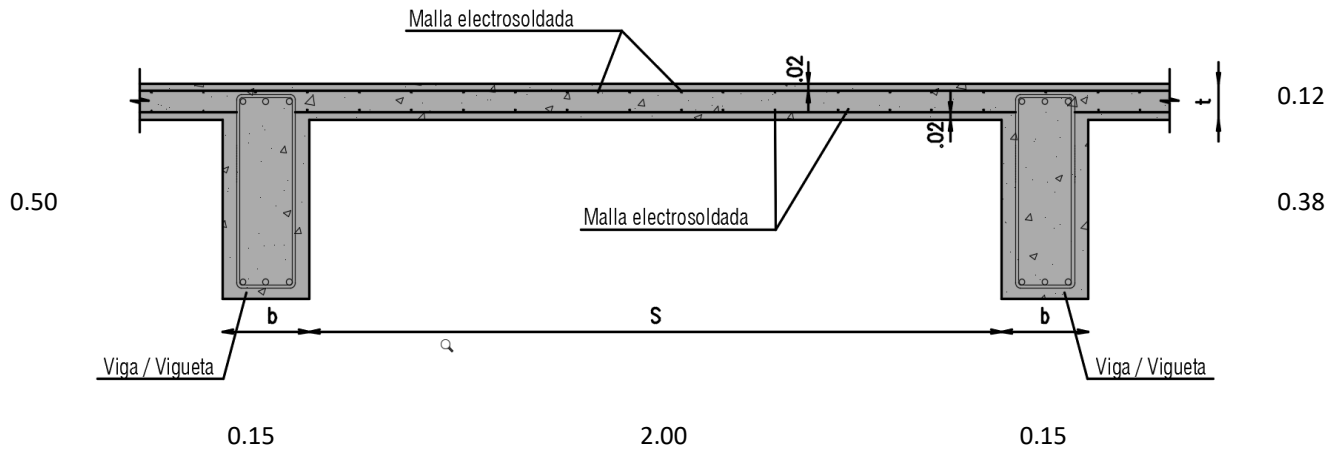
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde**

Modulo B

CALCULO: JDH

PISO: Piso 2



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	64	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	352 Kg/m ²	245 Kg/m ²
C. VIVA	200 Kg/m ²	
C. TOTAL =		797 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1036 Kg/m ²
Factor de Carga, F.C.=		1.30

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1036 \times 2.15 = 2228.3 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	508.0	Kg/m ²	Materiales	(kg/cm ²)	
C. VIVA =	200.0	Kg/m ²	f'c =	280	b (cm) = 100
C. ULTIMA =	929.6	Kg/m ²	fy =	4200	d (cm) = 9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	371.84	0.051	0.07	0.0014	2.16
M+	265.60	0.036	0.07	0.0010	2.16

Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
929.60	5986.30	Ok

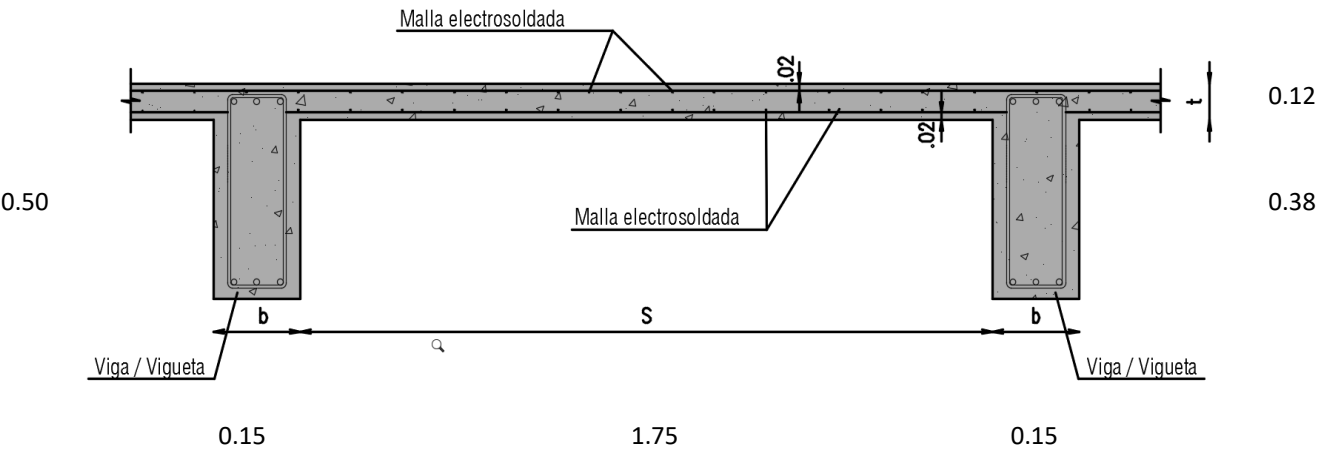
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde**

Modulo B

CALCULO: JDH

PISO: terraza verde no transitable



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	72	
* CIELO RASO		25
* ACABADOS		0
* TERRAZA VERDE		640
C. MUERTA	360 Kg/m ²	665 Kg/m ²
C. VIVA	180 Kg/m ²	
C. TOTAL =		1205 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1518 Kg/m ²
Factor de Carga, F.C.=		1.26

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1518 \times 1.90 = 2884.2 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	928.0	Kg/m ²	Materiales (kg/cm ²)	
C. VIVA =	180.0	Kg/m ²	f'c =	280
C. ULTIMA =	1401.6	Kg/m ²	fy =	4200
			b (cm) =	100
			d (cm) =	9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	429.24	0.059	0.07	0.0016	2.16
M+	306.60	0.042	0.07	0.0011	2.16

Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1226.40	5986.30	Ok

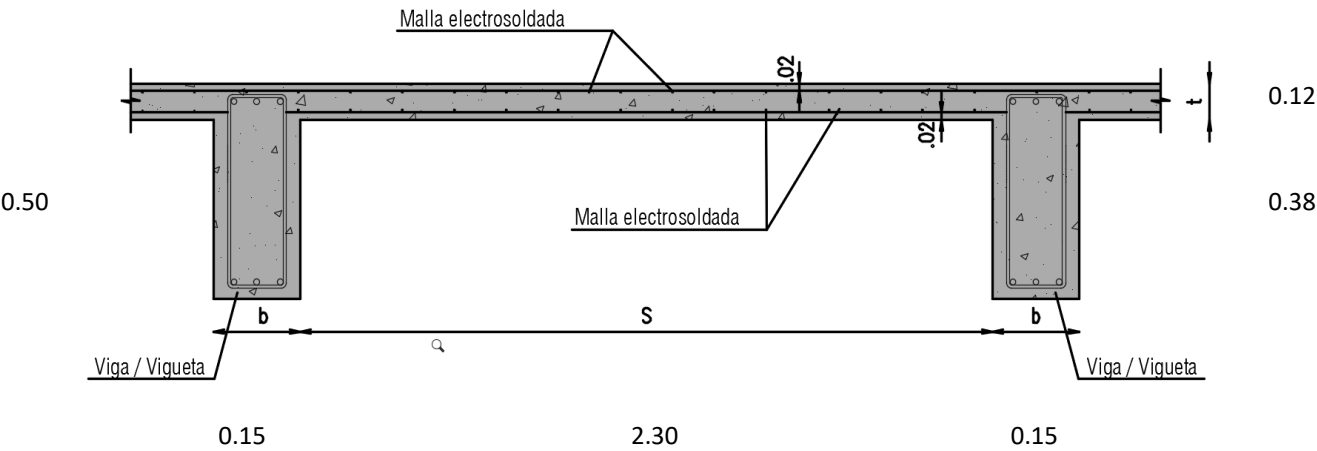
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde**

Modulo B

CALCULO: JDH

PISO: Piso 3



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	56	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	344 Kg/m ²	+ 245 Kg/m ²
C. VIVA	500 Kg/m ²	
C. TOTAL =		1089 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1507 Kg/m ²
Factor de Carga, F.C.=		1.38

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1507 \times 2.45 = 3691.7 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	508.0	Kg/m ²	Materiales	(kg/cm ²)	
C. VIVA =	500.0	Kg/m ²	f'c =	280	b (cm) = 100
C. ULTIMA =	1409.6	Kg/m ²	fy =	4200	d (cm) = 9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	745.68	0.102	0.07	0.0028	2.50
M+	532.63	0.073	0.07	0.0020	2.16

Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1621.04	5986.30	Ok

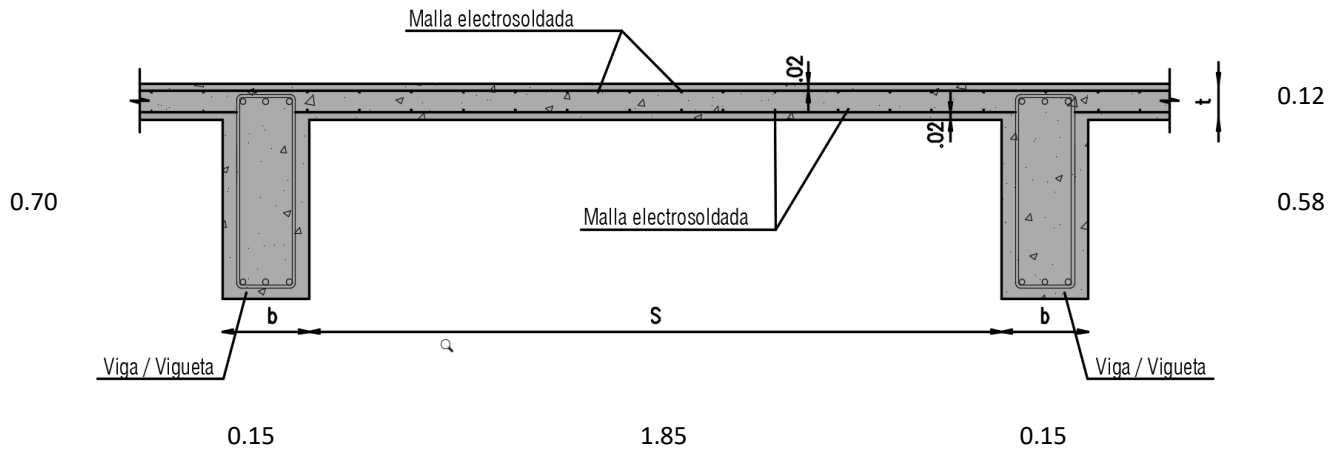
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde**

Modulo B

CALCULO: JDH

PISO: cubierta



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	104	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		0
C. MUERTA	392 Kg/m ²	+ 195 Kg/m ²
C. VIVA	180 Kg/m ²	
C. TOTAL =		767 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		992 Kg/m ²
Factor de Carga, F.C.=		1.29

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 992 \times 2.00 = 1984.8 \text{ Kg/m}$

DISEÑO DE LA LOSA

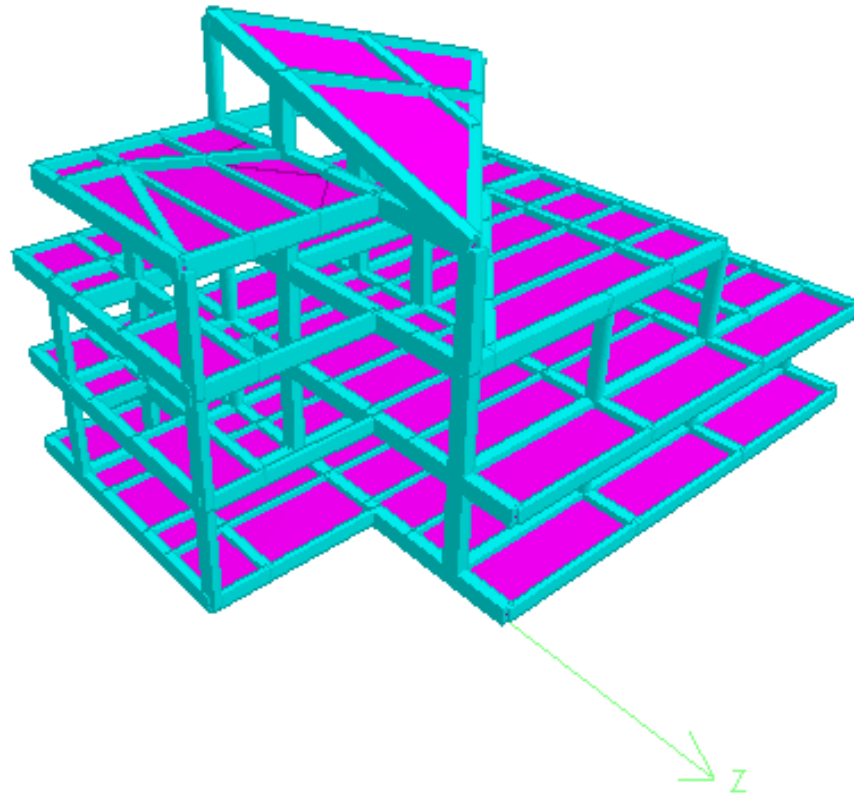
C. MUERTA =	458.0 Kg/m ²	Materiales (kg/cm ²)	
C. VIVA =	180.0 Kg/m ²	f'c = 280	b (cm) = 100
C. ULTIMA =	837.6 Kg/m ²	fy = 4200	d (cm) = 9

Diseño a Flexión

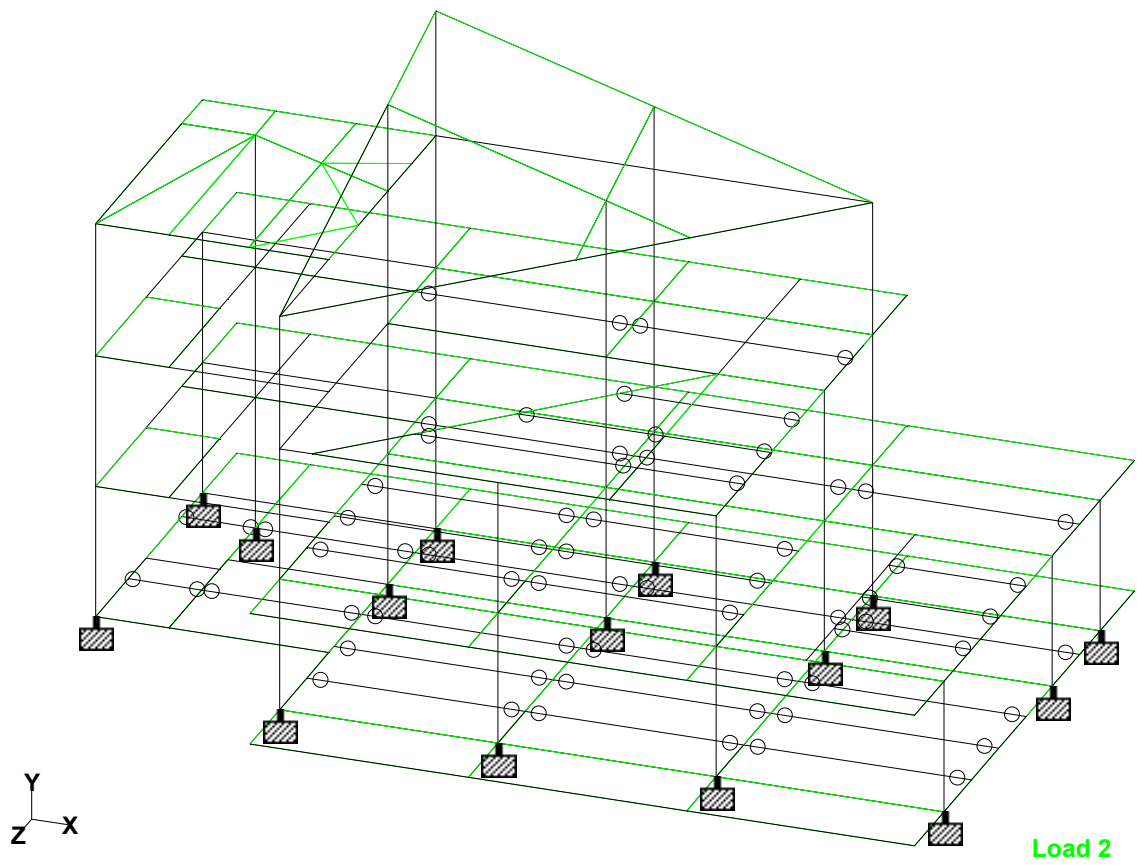
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	286.67	0.039	0.07	0.0011	2.16
M+	204.76	0.028	0.07	0.0007	2.16

Chequeo Cortante

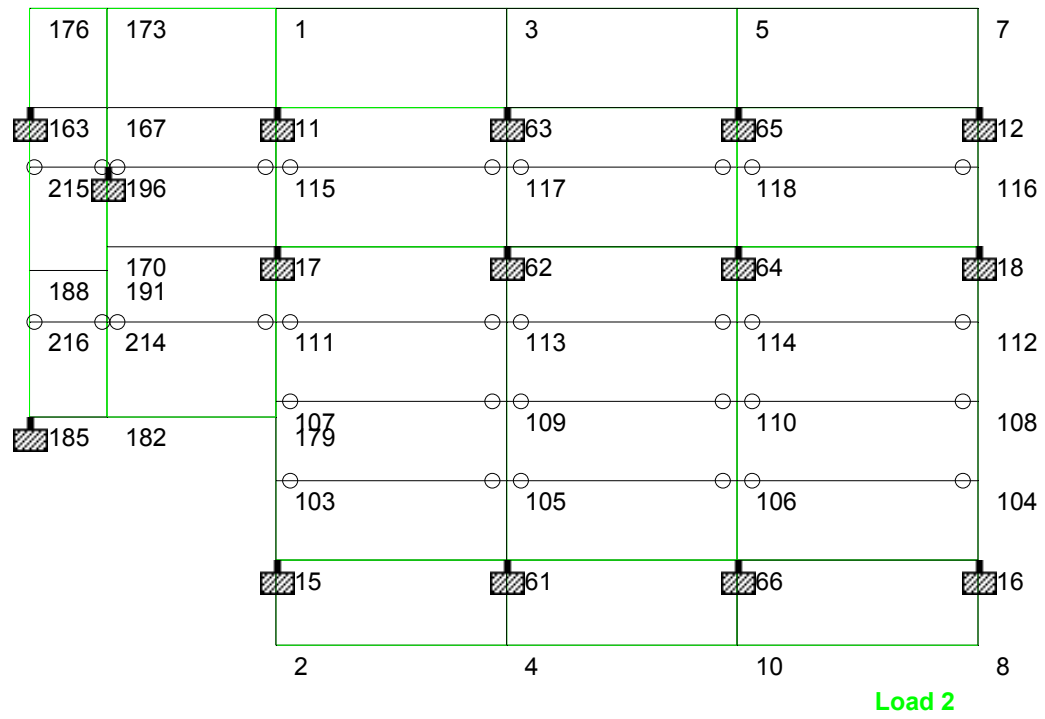
v _u (kg/m)	φV _c (kg/m)	Check
774.78	5986.30	Ok



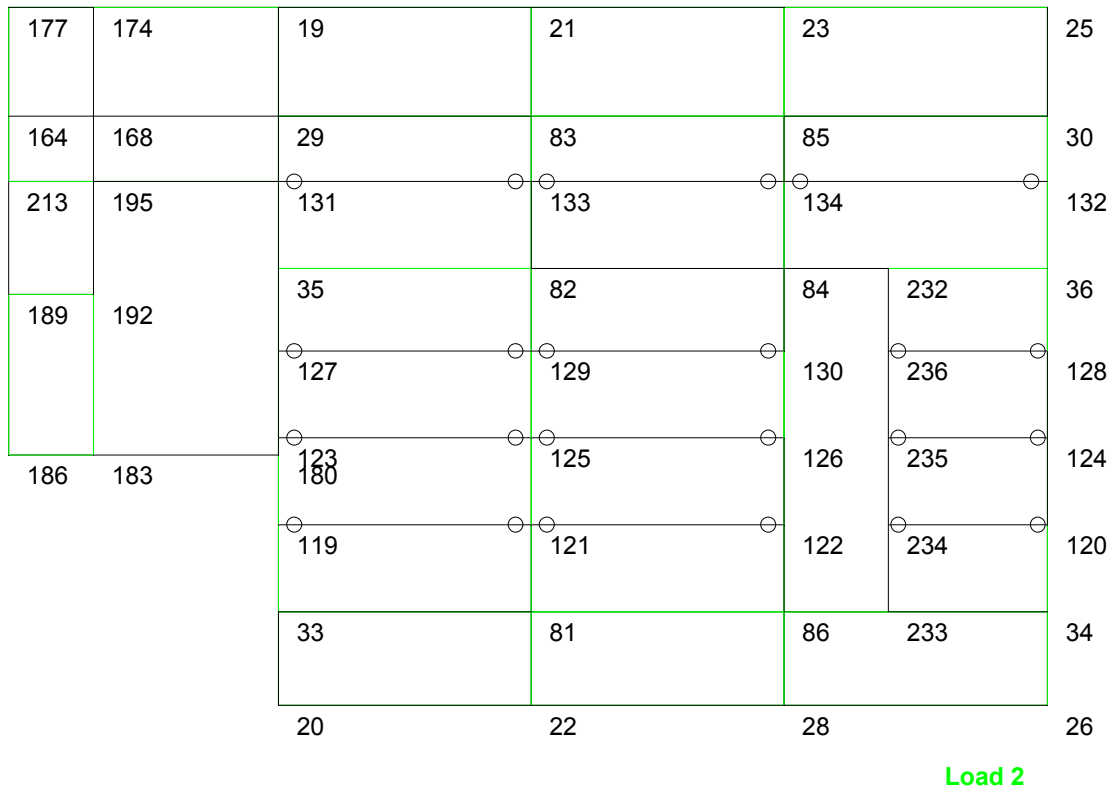
3D MODELO ESTRUCTURAL

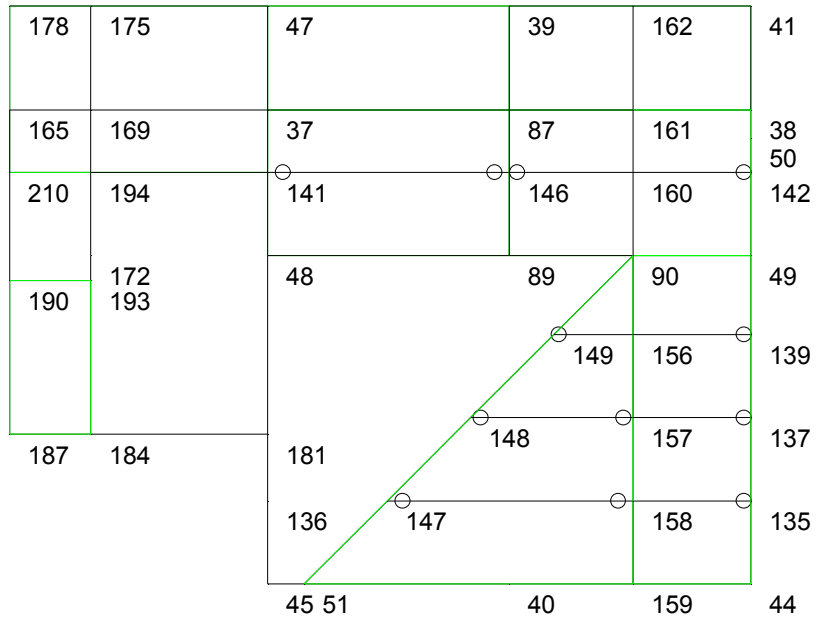


3D MODELO ANALITICO



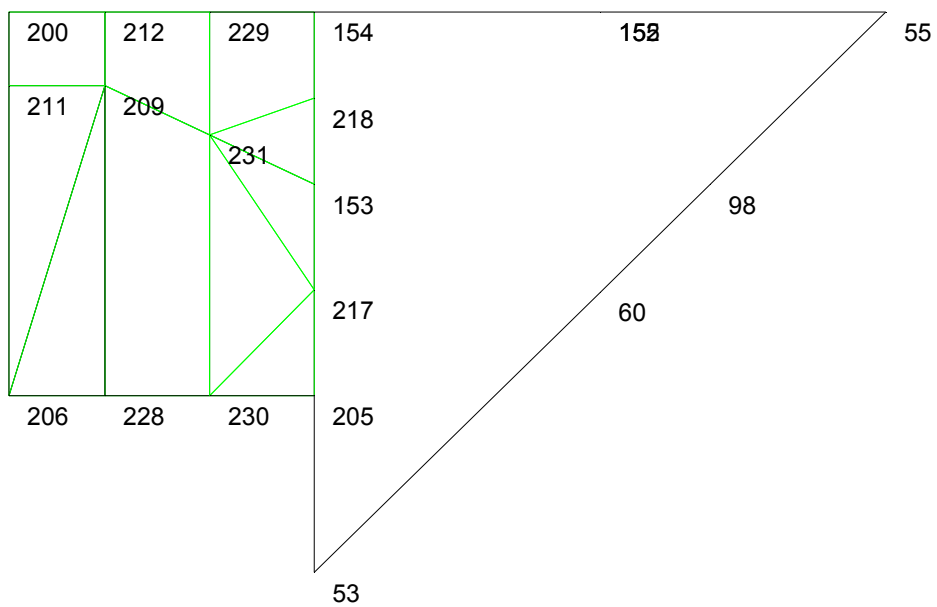
NODOS NE+0.15





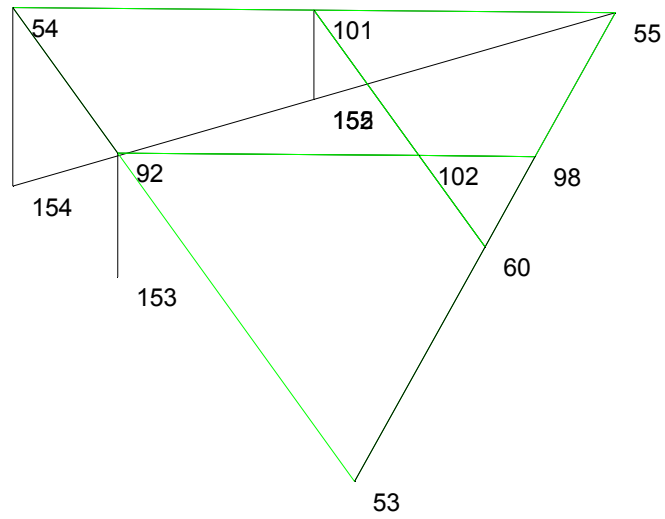
Y-X
Z

Load 2

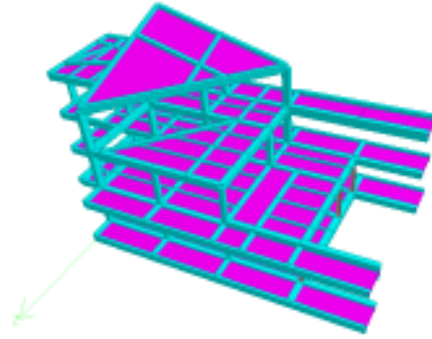


Y-X
Z

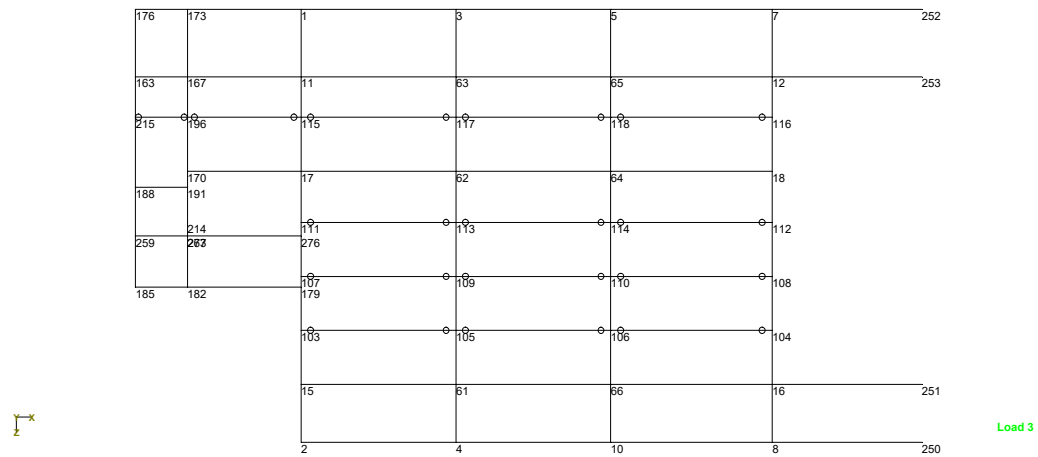
NODOS NE+10.85



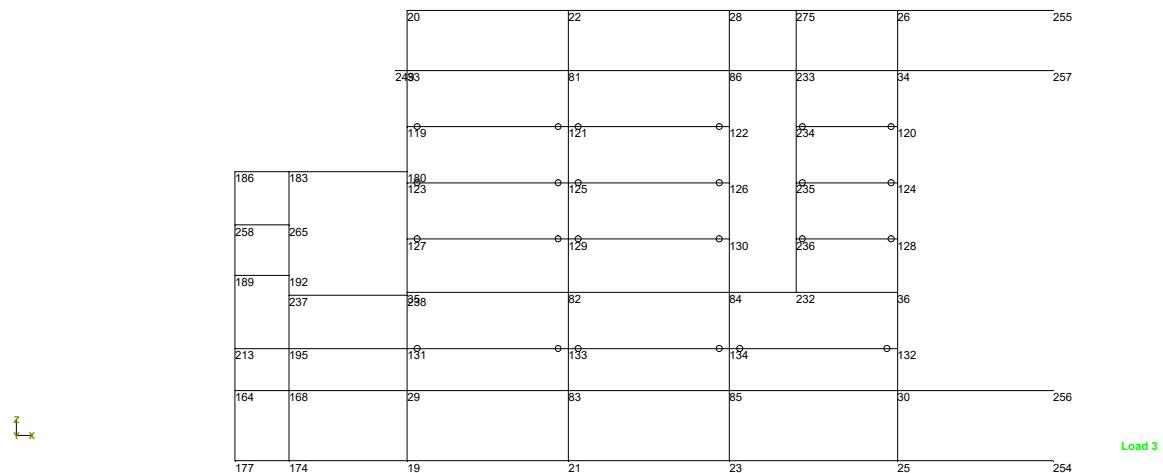
NODOS CUBIERTA



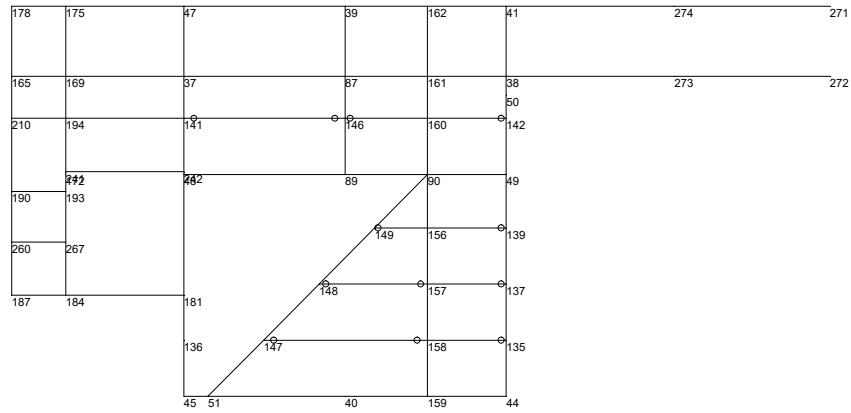
MODELO TRIDIMENSIONAL



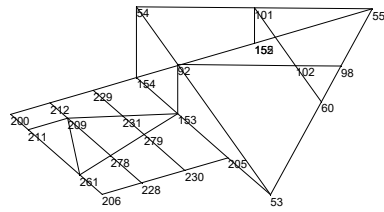
NODOS NE+0.08



NODOS 3.68



NODOS NE+7.28



NODOS CUBIERTA

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*          Version  20.07.11.70                  *
*          Proprietary Program of                 *
*          Bentley Systems, Inc.                  *
*          Date=    OCT 31, 2018                  *
*          Time=    16:40:37                      *
*
*          USER ID: CNI Ingnieros                 *
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3. ENGINEER DATE 19-APR-18

4. JOB NAME CAMPO VERDE MODULO B

5. END JOB INFORMATION

6. INPUT WIDTH 79

7. UNIT METER MTON

8. JOINT COORDINATES

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11. 7 17.65 0.25 -13.9026; 8 17.65 0.25 2.14737; 10 11.5998 0.25 2.14737
12. 11 2.25768E-010 0.25 -11.4026; 12 17.65 0.25 -11.4026; 15 -1.42E-014 0.25 0
13. 16 17.65 0.25 3.49488E-010; 17 1.56476E-010 0.25 -7.90263
14. 18 17.65 0.25 -7.90263; 19 2.75335E-010 3.85 -13.9026
15. 20 -4.25331E-011 3.85 2.14737; 21 5.8 3.85 -13.9026; 22 5.8 3.85 2.14737
16. 23 11.6 3.85 -13.9026; 25 17.65 3.85 -13.9026; 26 17.65 3.85 2.14737
17. 28 11.5998 3.85 2.14737; 29 2.25768E-010 3.85 -11.4026; 30 17.65 3.85 -11.4026
18. 33 -1.42E-014 3.85 0; 34 17.65 3.85 3.49488E-010
19. 35 1.56476E-010 3.85 -7.90263; 36 17.65 3.85 -7.90263
20. 37 2.25782E-010 7.45 -11.4026; 38 11.6 7.45 -11.4026; 39 5.8 7.45 -13.9026
21. 40 5.8 7.45 1.14824E-010; 41 11.6 7.45 -13.9026; 44 11.6 7.45 2.27715E-010
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23. 48 1.56476E-010 7.45 -7.90263; 49 11.6 7.45 -7.90263; 50 11.6 7.45 -10.7319
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31. 92 1.3765E-010 13.4908 -7.90294; 98 8.03779 11.1 -7.903
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33. 104 17.65 0.25 -2; 105 5.8 0.25 -2; 106 11.6 0.25 -2; 107 7.9195E-011 0.25 -4
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133. 549 278 279
134. ELEMENT INCIDENCES SHELL
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145. 452 187 184 193 190; 476 209 231 229 212; 477 231 153 154 229
146. 478 211 209 212 200; 550 254 25 30 256; 551 8 250 251 16; 552 12 253 252 7
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DXF IMPORT OF DRAWING1.DXF

-- PAGE NO. 4

151. 566 261 278 209
152. START GROUP DEFINITION
153. MEMBER
154. _COLS 95 TO 106 127 TO 134 136 TO 140 146 147 329 331 335
155. _VIGASCIM 2 TO 6 9 10 34 TO 46 71 TO 73 75 TO 78 80 82 193 TO 197 199 TO 204 -
156. 206 TO 220 317 TO 319 324 352 355 358 363 364 367 372 373 376 379 382 389 -
157. 390 TO 391 394 397 405 439 TO 442 444 446 528 531 544
158. END GROUP DEFINITION
159. ELEMENT PROPERTY
160. 150 TO 154 156 TO 173 180 TO 182 184 185 189 TO 192 326 350 447 TO 452 476 -
161. 477 TO 478 550 TO 566 THICKNESS 0.12
162. DEFINE MATERIAL START
163. ISOTROPIC CONCRETE
164. E 2.21467E+006
165. POISSON 0.17
166. DENSITY 2.40262
167. ALPHA 1E-005
168. DAMP 0.05
169. TYPE CONCRETE
170. STRENGTH FCU 2812.28
171. ISOTROPIC DIAFRAGMA
172. E 2.487E+006
173. POISSON 0.17
174. DENSITY 0.0001
175. ALPHA 1E-005
176. DAMP 0.05
177. G 946439
178. TYPE CONCRETE
179. STRENGTH FCU 2812.28
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182. POISSON 0.17
183. DENSITY 2.40262
184. ALPHA 1E-005
185. DAMP 0.05
186. G 946439
187. TYPE CONCRETE
188. STRENGTH FCU 2812.28
189. ISOTROPIC STEEL
190. E 2.09042E+007
191. POISSON 0.3
192. DENSITY 7.83341
193. ALPHA 1.2E-005
194. DAMP 0.03
195. TYPE STEEL
196. STRENGTH FY 3.22002E+006 FU 51520 RY 1.5 RT 1.2
197. END DEFINE MATERIAL
198. MEMBER PROPERTY AMERICAN
199. 2 3 5 6 9 10 21 TO 25 27 40 42 43 45 60 61 65 67 69 71 TO 73 75 TO 78 80 82 -
200. 119 122 193 195 196 200 202 203 207 209 210 214 216 217 221 TO 227 -
201. 234 TO 247 249 TO 255 259 TO 262 266 TO 269 273 TO 276 280 281 283 286 290 -
202. 292 293 297 308 317 324 327 333 334 339 341 352 TO 358 373 TO 375 402 403 -
203. 414 418 434 470 485 490 TO 493 495 501 518 520 521 523 540 542 -
204. 544 PRIS YD 0.6 ZD 0.4
205. 34 TO 39 62 64 228 TO 233 342 364 TO 369 519 522 524 525 541 PRIS YD 0.6 ZD 0.2
206. 127 130 136 137 146 335 PRIS YD 0.4 ZD 0.6

DXF IMPORT OF DRAWING1.DXF

-- PAGE NO. 5

207. MEMBER PROPERTY AMERICAN
208. 197 199 204 206 211 TO 213 218 TO 220 256 263 265 270 272 277 TO 279 291 301 -
209. 303 305 307 318 319 336 TO 338 340 351 397 TO 399 439 442 469 472 474 487 -
210. 488 TO 489 546 547 PRIS YD 0.5 ZD 0.15
211. MEMBER PROPERTY AMERICAN
212. 101 102 106 128 129 138 TO 140 147 329 PRIS YD 0.4 ZD 0.6
213. MEMBER PROPERTY AMERICAN
214. 99 100 131 TO 134 331 PRIS YD 0.5
215. MEMBER PROPERTY AMERICAN
216. 103 TO 105 PRIS YD 0.4 ZD 0.6
217. MEMBER PROPERTY AMERICAN
218. 125 126 298 299 343 TO 349 359 TO 363 370 TO 372 376 379 TO 382 385 TO 388 -
219. 392 TO 396 400 405 419 422 423 428 TO 430 432 435 TO 437 440 441 446 468 -
220. 471 473 494 497 TO 500 503 TO 505 509 531 543 545 548 -
221. 549 PRIS YD 0.6 ZD 0.3
222. 404 406 TO 408 412 413 426 427 PRIS YD 0.25 ZD 0.6
223. MEMBER PROPERTY AMERICAN
224. 378 384 PRIS YD 0.6 ZD 0.25
225. MEMBER PROPERTY AMERICAN
226. 389 TO 391 444 528 PRIS YD 0.6 ZD 0.85
227. MEMBER PROPERTY AMERICAN
228. 4 41 44 46 194 201 208 215 PRIS YD 0.6 ZD 0.55
229. 377 383 PRIS YD 0.6 ZD 0.25
230. MEMBER PROPERTY AMERICAN
231. 496 502 PRIS YD 0.5 ZD 0.2
232. MEMBER PROPERTY AMERICAN
233. 248 486 526 PRIS YD 1.24 ZD 0.4
234. 95 TO 97 TABLE ST PIPE OD 0.324 ID 0.304
235. MEMBER PROPERTY AMERICAN
236. 534 538 PRIS YD 0.8 ZD 0.3
237. 30 31 33 70 141 143 TO 145 148 149 188 PRIS YD 0.7 ZD 0.3
238. MEMBER PROPERTY
239. 535 536 PRIS YD 0.8 ZD 0.4
240. 98 PRIS YD 0.5 ZD 0.5
241. CONSTANTS
242. BETA 90 MEMB 106 128 129
243. BETA 0 MEMB 520
244. MATERIAL DIAFRAGMA MEMB 150 TO 154 156 TO 173 180 TO 182 184 185 189 TO 192 -
245. 326 350 447 TO 452 476 TO 478 550 TO 566
246. MATERIAL CONC28 MEMB 2 TO 6 9 10 21 TO 25 27 30 31 33 TO 46 60 TO 62 64 65 -
247. 67 69 TO 73 75 TO 78 80 82 99 TO 106 119 122 125 TO 134 136 TO 141 -
248. 143 TO 149 188 193 TO 197 199 TO 204 206 TO 256 259 TO 263 265 TO 270 272 -
249. 273 TO 281 283 286 290 TO 293 297 TO 299 301 303 305 307 308 317 TO 319 324 -
250. 327 329 331 333 TO 349 351 TO 400 402 TO 408 412 TO 414 418 419 422 423 426 -
251. 427 TO 430 432 434 TO 437 439 TO 442 444 446 468 TO 474 485 TO 505 509 518 -
252. 519 TO 526 528 531 534 TO 536 538 540 TO 549
253. MATERIAL STEEL MEMB 95 TO 97
254. MATERIAL CONCRETE MEMB 98
255. SUPPORTS
256. 11 12 15 TO 18 61 TO 66 163 196 259 PINNED
257. 250 TO 257 271 272 FIXED BUT FX FZ MX MY MZ
258. ELEMENT PLANE STRESS
259. 150 TO 154 156 TO 173 180 TO 182 184 185 189 TO 192 326 350 447 TO 452 476 -
260. 477 TO 478 550 TO 566
261. MEMBER RELEASE
262. 197 199 204 206 211 TO 213 218 TO 220 256 263 265 270 272 277 TO 279 291 305 -

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263. 307 318 319 351 439 442 START MX MY MZ
264. 197 199 204 206 211 TO 213 218 TO 220 256 263 265 270 272 277 TO 279 291 318 -
265. 319 336 TO 338 340 351 439 442 487 TO 489 END MX MY MZ
266. 303 START MX MY MZ
267. 303 END MX MY MZ
268. 301 487 TO 489 START MX MY MZ
269. 301 END MX MY MZ
270. CUT OFF MODE SHAPE 20
271. LOAD 1 LOADTYPE DEAD TITLE DEAD
272. MEMBER LOAD
273. 25 34 TO 39 62 64 228 TO 233 292 293 339 342 364 TO 369 377 378 383 384 -
274. 541 UNI GY -0.64
275. 6 9 10 78 80 82 197 199 204 206 211 213 218 220 225 TO 227 247 249 251 256 -
276. 263 265 270 272 277 279 351 TO 353 355 356 358 359 376 382 397 398 437 439 -
277. 441 442 446 499 UNI GY -1.18
278. 6 10 65 78 82 126 225 227 234 236 237 239 247 251 252 259 266 273 281 298 -
279. 299 361 TO 363 371 372 374 375 379 TO 381 386 TO 388 392 TO 396 400 402 405 -
280. 429 436 440 494 495 500 501 531 UNI GY -0.5
281. 504 UNI GY -0.5 0 1.8
282. 503 UNI GY -0.5 1.8 1.9
283. 503 UNI GY -0.5 0 1.8
284. 498 UNI GY -0.5 1.78 1.9
285. 498 UNI GY -0.5 0 1.78
286. 497 UNI GY -0.5 1.78 1.9
287. 497 UNI GY -0.5 0 1.78
288. 125 UNI GY -0.5 1.31793 2.82843
289. 125 UNI GY -0.5 0 1.31793
290. 40 42 43 45 193 200 207 214 373 544 UNI GY -2
291. 21 27 77 119 212 219 291 305 307 308 317 TO 319 324 336 TO 338 340 341 354 -
292. 357 360 399 403 430 505 UNI GY -1.18
293. 301 UNI GY -1.18 2.97071 5.90263
294. 301 UNI GY -1.18 0 2.97071
295. 303 UNI GY -1.18 2.97071 3.90263
296. 303 UNI GY -1.18 0 2.97071
297. 33 148 UNI GY -1.39
298. 143 149 496 502 UNI GY -1.346
299. 141 UNI GY -1.17
300. 30 UNI GY -1.17 6.58213 8.25379
301. 30 UNI GY -1.17 0 6.58213
302. 31 70 145 UNI GY -0.92
303. SELFWEIGHT Y -1
304. SELFWEIGHT Y -1 LIST 509
305. SELFWEIGHT Y -1 LIST 472
306. SELFWEIGHT Y -1 LIST 469
307. MEMBER LOAD
308. 327 418 422 423 435 474 540 UNI GY -1.06
309. 509 UNI GY -1.06 2.00001 4.4
310. 509 UNI GY -1.06 0 2.00001
311. 547 UNI GY -1.06 0.822577 1.82259
312. 547 UNI GY -1.06 0 0.822577
313. 472 UNI GY -1.06 0 3.47741
314. 546 UNI GY -1.06 0 2.65484
315. 469 UNI GY -1.06 2.00001 3.64516
316. 469 UNI GY -1.06 0 2.00001
317. 246 248 250 278 485 TO 489 UNI GY -1.81
318. MEMBER LOAD

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319. 389 390 444 528 UNI GY -2.3
320. 391 UNI GY -2.3 1.3026 1.79997
321. 391 UNI GY -2.3 0 1.3026
322. JOINT LOAD
323. 249 FY -0.15
324. MEMBER LOAD
325. 519 TO 526 UNI GY -0.67
326. 534 TO 536 538 UNI GY -1.
327. LOAD 2 LOADTYPE LIVE TITLE LIVE
328. MEMBER LOAD
329. 25 62 64 292 293 339 342 UNI GY -0.6
330. 6 9 10 78 80 82 197 199 204 206 211 213 218 220 225 TO 227 247 249 251 256 -
331. 263 265 270 272 277 279 351 TO 360 364 365 367 368 376 TO 378 382 TO 384 -
332. 397 TO 399 430 437 439 441 442 446 499 505 UNI GY -0.44
333. 35 37 UNI GY -0.19
334. 21 27 77 119 212 219 246 248 250 278 291 305 307 308 317 TO 319 324 -
335. 336 TO 338 340 341 403 485 TO 489 UNI GY -0.34
336. 301 UNI GY -1.1 2.97071 5.90263
337. 301 UNI GY -1.1 0 2.97071
338. 303 UNI GY -1.1 2.97071 3.90263
339. 303 UNI GY -1.1 0 2.97071
340. 33 148 UNI GY -0.4
341. 34 36 38 39 143 149 228 230 232 354 357 360 364 TO 369 378 384 399 430 -
342. 505 UNI GY -0.6
343. 141 UNI GY -0.33
344. 30 UNI GY -0.33 6.58213 8.25379
345. 30 UNI GY -0.33 0 6.58213
346. 31 70 145 229 231 233 541 UNI GY -0.26
347. 327 422 423 435 474 UNI GY -0.4
348. 509 UNI GY -0.4 2.00001 4.4
349. 509 UNI GY -0.4 0 2.00001
350. 547 UNI GY -0.4 0.822577 1.82259
351. 547 UNI GY -0.4 0 0.822577
352. 472 UNI GY -0.4 0 3.47741
353. 546 UNI GY -0.4 0 2.65484
354. 469 UNI GY -0.4 2.00001 3.64516
355. 469 UNI GY -0.4 0 2.00001
356. 418 UNI GY -0.4 2.15 4.29999
357. 418 UNI GY -0.4 0 2.15
358. 389 390 444 528 UNI GY -0.86
359. 391 UNI GY -0.86 1.3026 1.79997
360. 391 UNI GY -0.86 0 1.3026
361. 496 502 UNI GY -0.66
362. JOINT LOAD
363. 249 FY -2
364. MEMBER LOAD
365. 519 TO 526 UNI GY -0.63
366. 534 TO 536 538 UNI GY -0.95
367. LOAD 3 LOADTYPE SEISMIC TITLE EQX
368. SPECTRUM CQC X 1.19 ACC SCALE 9.81 DAMP 0.05 LIN
369. 0 0.492; 1.28 0.492; 1.391 0.453; 1.502 0.419; 1.613 0.391; 1.724 0.365
370. 1.835 0.343; 1.946 0.324; 2.057 0.306; 2.168 0.291; 2.279 0.276; 2.39 0.264
371. 2.501 0.252; 2.612 0.241; 2.723 0.231; 2.834 0.222; 2.945 0.214; 3.056 0.206
372. 3.167 0.199; 3.278 0.192; 3.389 0.186; 3.5 0.18; 3.7 0.161; 3.9 0.145
373. 4.1 0.131; 4.3 0.119; 4.5 0.109; 4.7 0.1
374. MEMBER LOAD

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375. 25 62 64 228 TO 233 292 293 339 342 365 366 368 369 377 378 383 384 496 499 -
376. 502 505 541 UNI GX 0.64
377. 534 TO 536 538 UNI GX 1
378. 225 TO 227 247 249 251 256 263 265 270 272 277 279 351 353 356 398 -
379. 437 UNI GX 1.31
380. 65 126 225 227 234 236 237 239 247 251 252 259 266 273 281 298 299 361 362 -
381. 371 374 375 380 381 386 TO 388 392 393 395 396 400 402 429 436 494 495 500 -
382. 501 UNI GX 0.5
383. 504 UNI GX 0.5 1.8 1.9
384. 504 UNI GX 0.5 0 1.8
385. 503 UNI GX 0.5 1.8 1.9
386. 503 UNI GX 0.5 0 1.8
387. 498 UNI GX 0.5 1.78 1.9
388. 498 UNI GX 0.5 0 1.78
389. 497 UNI GX 0.5 1.78 1.9
390. 497 UNI GX 0.5 0 1.78
391. 125 UNI GX 0.5 1.31793 2.82843
392. 125 UNI GX 0.5 0 1.31793
393. 21 27 119 291 305 307 308 336 TO 338 340 341 354 357 399 403 430 UNI GX 1.18
394. 301 UNI GX 1.18 2.97071 5.90263
395. 301 UNI GX 1.18 0 2.97071
396. 303 UNI GX 1.18 2.97071 3.90263
397. 303 UNI GX 1.18 0 2.97071
398. 33 148 UNI GX 1.39
399. 143 149 359 360 UNI GX 2.12
400. 141 414 432 434 435 468 470 UNI GX 1.17
401. 473 UNI GX 1.17 1.76135 2.34854
402. 419 UNI GX 1.17 0 2.06667
403. 471 UNI GX 1.17 2.00833 2.125
404. 471 UNI GX 1.17 0 2.00833
405. 419 UNI GX 1.17 2.06667 2.125
406. 30 UNI GX 1.17 6.58213 8.25379
407. 30 UNI GX 1.17 0 6.58213
408. 31 70 145 UNI GX 0.92
409. 519 TO 526 UNI GX 0.67
410. MEMBER LOAD
411. 25 62 64 228 TO 233 292 293 339 342 365 366 368 369 377 378 383 384 496 499 -
412. 502 505 541 UNI GZ 0.64
413. 225 TO 227 247 249 251 256 263 265 270 272 277 279 351 353 356 398 -
414. 437 UNI GZ 1.31
415. 65 126 225 227 234 236 237 239 247 251 252 259 266 273 281 298 299 361 362 -
416. 371 374 375 380 381 386 TO 388 392 393 395 396 400 402 429 436 494 495 500 -
417. 501 UNI GZ 0.5
418. 504 UNI GZ 0.5 1.8 1.9
419. 504 UNI GZ 0.5 0 1.8
420. 503 UNI GZ 0.5 1.8 1.9
421. 503 UNI GZ 0.5 0 1.8
422. 498 UNI GZ 0.5 1.78 1.9
423. 498 UNI GZ 0.5 0 1.78
424. 497 UNI GZ 0.5 1.78 1.9
425. 497 UNI GZ 0.5 0 1.78
426. 125 UNI GZ 0.5 1.31793 2.82843
427. 125 UNI GZ 0.5 0 1.31793
428. 21 27 119 291 305 307 308 336 TO 338 340 341 354 357 399 403 430 UNI GZ 1.18
429. 301 UNI GZ 1.18 2.97071 5.90263
430. 301 UNI GZ 1.18 0 2.97071

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431. 303 UNI GZ 1.18 2.97071 3.90263
432. 303 UNI GZ 1.18 0 2.97071
433. 33 148 UNI GZ 1.39
434. 143 149 359 360 UNI GZ 2.12
435. 141 414 432 434 435 468 470 UNI GZ 1.17
436. 473 UNI GZ 1.17 1.76135 2.34854
437. 419 UNI GZ 1.17 0 2.06667
438. 471 UNI GZ 1.17 2.00833 2.125
439. 471 UNI GZ 1.17 0 2.00833
440. 419 UNI GZ 1.17 2.06667 2.125
441. 30 UNI GZ 1.17 6.58213 8.25379
442. 30 UNI GZ 1.17 0 6.58213
443. 31 70 145 UNI GZ 0.92
444. 23 UNI GZ 3.09
445. 519 TO 526 UNI GZ 0.67
446. 534 TO 536 538 UNI GZ 1
447. SELFWEIGHT X 1
448. SELFWEIGHT X 1 LIST 509
449. SELFWEIGHT X 1 LIST 472
450. SELFWEIGHT X 1 LIST 469
451. SELFWEIGHT Z 1
452. SELFWEIGHT Z 1 LIST 509
453. SELFWEIGHT Z 1 LIST 472
454. SELFWEIGHT Z 1 LIST 469
455. MEMBER LOAD
456. 246 248 250 278 485 TO 489 UNI GX 1.81
457. MEMBER LOAD
458. 246 248 250 278 485 TO 489 UNI GZ 1.81
459. LOAD 4 LOADTYPE SEISMIC TITLE EQZ
460. SPECTRUM CQC Z 1.35 ACC SCALE 9.81 DAMP 0.05 LIN
461. *COMBINACIONES DERIVAS
462. 0 0.492; 1.28 0.492; 1.391 0.453; 1.502 0.419; 1.613 0.391; 1.724 0.365
463. 1.835 0.343; 1.946 0.324; 2.057 0.306; 2.168 0.291; 2.279 0.276; 2.39 0.264
464. 2.501 0.252; 2.612 0.241; 2.723 0.231; 2.834 0.222; 2.945 0.214; 3.056 0.206
465. 3.167 0.199; 3.278 0.192; 3.389 0.186; 3.5 0.18; 3.7 0.161; 3.9 0.145
466. 4.1 0.131; 4.3 0.119; 4.5 0.109; 4.7 0.1
467. LOAD COMB 5 DERX1
468. 1 1.2 2 1.0 3 0.8
469. LOAD COMB 6 DERX2
470. 1 1.2 2 1.0 3 -0.8
471. LOAD COMB 7 DERZ1
472. 1 1.2 2 1.0 4 0.8
473. LOAD COMB 8 DERZ2
474. 1 1.2 2 1.0 4 -0.8
475. LOAD COMB 9 DERX3
476. 1 0.9 3 0.8
477. LOAD COMB 10 DERX4
478. 1 0.9 3 -0.8
479. LOAD COMB 11 DERZ3
480. 1 0.9 4 0.8
481. LOAD COMB 12 DERZ4
482. 1 0.9 4 -0.8
483. *COMBINACIONES DISENO
484. LOAD COMB 13 COM1
485. 1 1.4
486. LOAD COMB 14 COM2



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Nodes

Node	X (m)	Y (m)	Z (m)
1	0.000	0.250	-13.903
2	-0.000	0.250	2.147
3	5.800	0.250	-13.903
4	5.800	0.250	2.147
5	11.600	0.250	-13.903
7	17.650	0.250	-13.903
8	17.650	0.250	2.147
10	11.600	0.250	2.147
11	0.000	0.250	-11.403
12	17.650	0.250	-11.403
15	-0.000	0.250	0.000
16	17.650	0.250	0.000
17	0.000	0.250	-7.903
18	17.650	0.250	-7.903
19	0.000	3.850	-13.903
20	-0.000	3.850	2.147
21	5.800	3.850	-13.903
22	5.800	3.850	2.147
23	11.600	3.850	-13.903
25	17.650	3.850	-13.903
26	17.650	3.850	2.147
28	11.600	3.850	2.147
29	0.000	3.850	-11.403
30	17.650	3.850	-11.403
33	-0.000	3.850	0.000
34	17.650	3.850	0.000
35	0.000	3.850	-7.903
36	17.650	3.850	-7.903
37	0.000	7.450	-11.403
38	11.600	7.450	-11.403
39	5.800	7.450	-13.903
40	5.800	7.450	0.000
41	11.600	7.450	-13.903
44	11.600	7.450	0.000
45	0.000	7.450	0.000
47	0.000	7.450	-13.903
48	0.000	7.450	-7.903
49	11.600	7.450	-7.903
50	11.600	7.450	-10.732
51	0.868	7.450	0.000
53	0.000	11.100	-0.003
54	0.000	14.550	-11.403
55	11.600	11.100	-11.404
60	5.800	11.100	-5.703
61	5.800	0.250	0.000



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
62	5.800	0.250	-7.903
63	5.800	0.250	-11.403
64	11.600	0.250	-7.903
65	11.600	0.250	-11.403
66	11.600	0.250	0.000
81	5.800	3.850	0.000
82	5.800	3.850	-7.903
83	5.800	3.850	-11.403
84	11.600	3.850	-7.903
85	11.600	3.850	-11.403
86	11.600	3.850	0.000
87	5.800	7.450	-11.403
89	5.800	7.450	-7.903
90	8.771	7.450	-7.903
92	0.000	13.491	-7.903
98	8.038	11.100	-7.903
101	5.800	12.825	-11.403
102	5.800	11.766	-7.903
103	0.000	0.250	-2.000
104	17.650	0.250	-2.000
105	5.800	0.250	-2.000
106	11.600	0.250	-2.000
107	0.000	0.250	-4.000
108	17.650	0.250	-4.000
109	5.800	0.250	-4.000
110	11.600	0.250	-4.000
111	0.000	0.250	-6.000
112	17.650	0.250	-6.000
113	5.800	0.250	-6.000
114	11.600	0.250	-6.000
115	0.000	0.250	-9.903
116	17.650	0.250	-9.903
117	5.800	0.250	-9.903
118	11.600	0.250	-9.903
119	0.000	3.850	-2.000
120	17.650	3.850	-2.000
121	5.800	3.850	-2.000
122	11.600	3.850	-2.000
123	0.000	3.850	-4.000
124	17.650	3.850	-4.000
125	5.800	3.850	-4.000
126	11.600	3.850	-4.000
127	0.000	3.850	-6.000
128	17.650	3.850	-6.000
129	5.800	3.850	-6.000



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
130	11.600	3.850	-6.000
131	0.000	3.850	-9.903
132	17.650	3.850	-9.903
133	5.800	3.850	-9.903
134	11.600	3.850	-9.903
135	11.600	7.450	-2.000
136	0.000	7.450	-2.000
137	11.600	7.450	-4.000
139	11.600	7.450	-6.000
141	0.000	7.450	-9.903
142	11.600	7.450	-9.903
146	5.800	7.450	-9.903
147	2.868	7.450	-2.000
148	4.868	7.450	-4.000
149	6.868	7.450	-6.000
152	5.800	11.100	-11.406
153	0.000	11.100	-7.903
154	0.000	11.100	-11.403
155	5.800	11.100	-11.403
156	8.771	7.450	-6.000
157	8.771	7.450	-4.000
158	8.771	7.450	-2.000
159	8.771	7.450	0.000
160	8.771	7.450	-9.903
161	8.771	7.450	-11.403
162	8.771	7.450	-13.903
163	-6.200	0.250	-11.403
164	-6.200	3.850	-11.403
165	-6.200	7.450	-11.403
167	-4.250	0.250	-11.403
168	-4.250	3.850	-11.403
169	-4.250	7.450	-11.403
170	-4.250	0.250	-7.903
172	-4.250	7.450	-7.903
173	-4.250	0.250	-13.903
174	-4.250	3.850	-13.903
175	-4.250	7.450	-13.903
176	-6.200	0.250	-13.903
177	-6.200	3.850	-13.903
178	-6.200	7.450	-13.903
179	0.000	0.250	-3.603
180	0.000	3.850	-3.603
181	0.000	7.450	-3.603
182	-4.250	0.250	-3.603
183	-4.250	3.850	-3.603



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
184	-4.250	7.450	-3.603
185	-6.200	0.250	-3.603
186	-6.200	3.850	-3.603
187	-6.200	7.450	-3.603
188	-6.200	0.250	-7.303
189	-6.200	3.850	-7.303
190	-6.200	7.450	-7.303
191	-4.250	0.250	-7.303
192	-4.250	3.850	-7.303
193	-4.250	7.450	-7.303
194	-4.250	7.450	-9.903
195	-4.250	3.850	-9.903
196	-4.250	0.250	-9.903
200	-6.200	11.100	-11.403
205	0.000	11.100	-3.603
206	-6.200	11.100	-3.603
209	-4.250	11.100	-9.903
210	-6.200	7.450	-9.903
211	-6.200	11.100	-9.903
212	-4.250	11.100	-11.403
213	-6.200	3.850	-9.903
214	-4.250	0.250	-6.000
215	-6.200	0.250	-9.903
228	-4.250	11.100	-3.603
229	-2.125	11.100	-11.403
230	-2.125	11.100	-3.603
231	-2.125	11.100	-8.903
232	14.000	3.850	-7.903
233	14.000	3.850	0.000
234	14.000	3.850	-2.000
235	14.000	3.850	-4.000
236	14.000	3.850	-6.000
237	-4.250	3.850	-8.003
238	0.000	3.850	-8.003
241	-4.250	7.450	-8.003
242	0.000	7.450	-8.003
249	-0.430	3.850	0.000
250	23.250	0.250	2.147
251	23.250	0.250	0.000
252	23.250	0.250	-13.903
253	23.250	0.250	-11.403
254	23.250	3.850	-13.903
255	23.250	3.850	2.147
256	23.250	3.850	-11.403
257	23.250	3.850	0.000



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Nodes Cont...

Node	X (m)	Y (m)	Z (m)
258	-6.200	3.850	-5.503
259	-6.200	0.250	-5.503
260	-6.200	7.450	-5.503
261	-6.200	11.100	-5.503
263	-4.250	0.250	-5.503
265	-4.250	3.850	-5.503
267	-4.250	7.450	-5.503
271	23.250	7.450	-13.903
272	23.250	7.450	-11.403
273	17.650	7.450	-11.403
274	17.650	7.450	-13.903
275	14.000	3.850	2.147
276	0.000	0.250	-5.503
277	-4.250	0.250	-5.503
278	-4.250	11.100	-6.258
279	-2.125	11.100	-7.080

Beams

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2	3	63	2.500	2	0
3	5	65	2.500	2	0
4	7	12	2.500	13	0
5	66	106	2.000	2	0
6	11	63	5.800	2	0
9	15	61	5.800	2	0
10	17	62	5.800	2	0
21	37	87	5.800	2	0
22	39	87	2.500	2	0
23	41	38	2.500	2	0
24	44	135	2.000	2	0
25	45	51	0.868	2	0
27	48	89	5.800	2	0
30	53	92	8.254	19	0
31	55	98	4.994	19	0
33	54	101	6.051	19	0
34	1	3	5.800	3	0
35	2	4	5.800	3	0
36	3	5	5.800	3	0
37	4	10	5.800	3	0
38	5	7	6.050	3	0
39	10	8	6.050	3	0
40	11	115	1.500	2	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
41	12	116	1.500	13	0
42	1	11	2.500	2	0
43	15	2	2.147	2	0
44	16	8	2.147	13	0
45	17	111	1.903	2	0
46	18	112	1.903	13	0
60	37	141	1.500	2	0
61	38	50	0.671	2	0
62	39	162	2.971	3	0
64	47	39	5.800	3	0
65	48	181	4.300	2	0
67	50	142	0.829	2	0
69	47	37	2.500	2	0
70	60	53	8.132	19	0
71	61	4	2.147	2	0
72	62	113	1.903	2	0
73	63	117	1.500	2	0
75	65	118	1.500	2	0
76	66	10	2.147	2	0
77	65	12	6.050	2	0
78	63	65	5.800	2	0
80	61	66	5.800	2	0
82	62	64	5.800	2	0
95	16	34	3.600	17	0
96	18	36	3.600	17	0
97	12	30	3.600	17	0
98	11	29	3.600	21	0
99	29	37	3.600	7	0
100	37	154	3.650	7	0
101	17	35	3.600	6	0
102	35	48	3.600	6	0
103	15	33	3.600	8	0
104	33	45	3.600	8	0
105	45	53	3.650	8	0
106	38	55	3.650	6	90
119	87	161	2.971	2	0
122	87	146	1.500	2	0
125	148	149	2.828	9	0
126	90	149	2.691	9	0
127	64	84	3.600	4	0
128	65	85	3.600	6	90
129	85	38	3.600	6	90
130	84	49	3.600	4	0
131	66	86	3.600	7	0
132	86	44	3.600	7	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
133	61	81	3.600	7	0
134	81	40	3.600	7	0
136	63	83	3.600	4	0
137	83	87	3.600	4	0
138	62	82	3.600	6	0
139	82	89	3.600	6	0
140	48	153	3.650	6	0
141	92	54	3.657	19	0
143	92	102	6.051	19	0
144	101	102	3.657	19	0
145	98	60	3.138	19	0
146	87	155	3.650	4	0
147	89	102	4.316	6	0
148	101	55	6.051	19	0
149	102	98	2.335	19	0
188	102	60	2.298	19	0
193	103	15	2.000	2	0
194	104	16	2.000	13	0
195	105	61	2.000	2	0
196	106	110	2.000	2	0
197	103	105	5.800	5	0
199	105	106	5.800	5	0
200	107	179	0.397	2	0
201	108	104	2.000	13	0
202	109	105	2.000	2	0
203	110	114	2.000	2	0
204	107	109	5.800	5	0
206	109	110	5.800	5	0
207	111	276	0.497	2	0
208	112	108	2.000	13	0
209	113	109	2.000	2	0
210	114	64	1.903	2	0
211	111	113	5.800	5	0
212	114	112	6.050	5	0
213	113	114	5.800	5	0
214	115	17	2.000	2	0
215	116	18	2.000	13	0
216	117	62	2.000	2	0
217	118	64	2.000	2	0
218	115	117	5.800	5	0
219	118	116	6.050	5	0
220	117	118	5.800	5	0
221	21	83	2.500	2	0
222	23	85	2.500	2	0
223	25	30	2.500	2	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
224	86	122	2.000	2	0
225	29	83	5.800	2	0
226	33	81	5.800	2	0
227	35	82	5.800	2	0
228	19	21	5.800	3	0
229	20	22	5.800	3	0
230	21	23	5.800	3	0
231	22	28	5.800	3	0
232	23	25	6.050	3	0
233	28	275	2.400	3	0
234	29	131	1.500	2	0
235	30	132	1.500	2	0
236	19	29	2.500	2	0
237	33	20	2.147	2	0
238	34	26	2.147	2	0
239	35	127	1.903	2	0
240	36	128	1.903	2	0
241	81	22	2.147	2	0
242	82	129	1.903	2	0
243	83	133	1.500	2	0
244	85	134	1.500	2	0
245	86	28	2.147	2	0
246	85	30	6.050	2	0
247	83	85	5.800	2	0
248	86	233	2.400	16	0
249	81	86	5.800	2	0
250	84	232	2.400	2	0
251	82	84	5.800	2	0
252	119	33	2.000	2	0
253	120	34	2.000	2	0
254	121	81	2.000	2	0
255	122	126	2.000	2	0
256	119	121	5.800	5	0
259	123	180	0.397	2	0
260	124	120	2.000	2	0
261	125	121	2.000	2	0
262	126	130	2.000	2	0
263	123	125	5.800	5	0
265	125	126	5.800	5	0
266	127	123	2.000	2	0
267	128	124	2.000	2	0
268	129	125	2.000	2	0
269	130	84	1.903	2	0
270	127	129	5.800	5	0
272	129	130	5.800	5	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
273	131	238	1.900	2	0
274	132	36	2.000	2	0
275	133	82	2.000	2	0
276	134	84	2.000	2	0
277	131	133	5.800	5	0
278	134	132	6.050	5	0
279	133	134	5.800	5	0
280	135	137	2.000	2	0
281	136	45	2.000	2	0
283	137	139	2.000	2	0
286	139	49	1.903	2	0
290	142	49	2.000	2	0
291	141	146	5.800	5	0
292	40	159	2.971	2	0
293	51	40	4.932	2	0
297	146	89	2.000	2	0
298	147	51	2.828	9	0
299	148	147	2.828	9	0
301	158	147	5.903	5	0
303	157	148	3.903	5	0
305	149	156	1.903	5	0
307	146	160	2.971	5	0
308	89	90	2.971	2	0
317	66	16	6.050	2	0
318	106	104	6.050	5	0
319	110	108	6.050	5	0
324	64	18	6.050	2	0
327	53	205	3.600	2	0
329	153	92	2.391	6	0
331	154	54	3.450	7	0
333	154	152	5.800	2	0
334	152	55	5.800	2	0
335	155	101	1.725	4	0
336	156	139	2.829	5	0
337	157	137	2.829	5	0
338	158	135	2.829	5	0
339	159	44	2.829	2	0
340	160	142	2.829	5	0
341	161	38	2.829	2	0
342	162	41	2.829	3	0
343	162	161	2.500	9	0
344	161	160	1.500	9	0
345	160	90	2.000	9	0
346	90	156	1.903	9	0
347	156	157	2.000	9	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
348	157	158	2.000	9	0
349	158	159	2.000	9	0
351	121	122	5.800	5	0
352	11	167	4.250	2	0
353	29	168	4.250	2	0
354	37	169	4.250	2	0
355	167	163	1.950	2	0
356	168	164	1.950	2	0
357	169	165	1.950	2	0
358	170	17	4.250	2	0
359	195	131	4.250	9	0
360	194	141	4.250	9	0
361	169	194	1.500	9	0
362	168	195	1.500	9	0
363	167	196	1.500	9	0
364	1	173	4.250	3	0
365	19	174	4.250	3	0
366	47	175	4.250	3	0
367	173	176	1.950	3	0
368	174	177	1.950	3	0
369	175	178	1.950	3	0
370	175	169	2.500	9	0
371	174	168	2.500	9	0
372	173	167	2.500	9	0
373	179	103	1.603	2	0
374	180	119	1.603	2	0
375	181	136	1.603	2	0
376	182	179	4.250	9	0
377	183	180	4.250	14	0
378	184	181	4.250	11	0
379	170	191	0.600	9	0
380	192	237	0.700	9	0
381	172	193	0.600	9	0
382	182	185	1.950	9	0
383	183	186	1.950	14	0
384	184	187	1.950	11	0
385	178	165	2.500	9	0
386	165	210	1.500	9	0
387	177	164	2.500	9	0
388	164	213	1.500	9	0
389	176	163	2.500	12	0
390	163	215	1.500	12	0
391	188	259	1.800	12	0
392	189	258	1.800	9	0
393	190	260	1.800	9	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
394	191	214	1.303	9	0
395	192	265	1.800	9	0
396	193	267	1.800	9	0
397	191	188	1.950	5	0
398	192	189	1.950	5	0
399	193	190	1.950	5	0
400	194	241	1.900	9	0
402	141	242	1.900	2	0
403	90	49	2.829	2	0
404	195	194	3.600	10	0
405	196	170	2.000	9	0
406	196	195	3.600	10	0
407	258	260	3.600	10	0
408	259	258	3.600	10	0
412	165	164	3.600	10	0
413	164	163	3.600	10	0
414	154	229	2.125	2	0
418	205	153	4.300	2	0
419	205	230	2.125	9	0
422	200	211	1.500	9	0
423	206	261	1.900	9	0
426	260	261	3.650	10	0
427	194	209	3.650	10	0
428	153	231	2.349	9	0
429	210	190	2.600	9	0
430	194	210	1.950	9	0
432	209	211	1.950	9	0
434	212	200	1.950	2	0
435	212	209	1.500	9	0
436	213	189	2.600	9	0
437	195	213	1.950	9	0
439	196	115	4.250	5	0
440	214	263	0.497	9	0
441	277	276	4.250	9	0
442	215	196	1.950	5	0
444	215	188	2.600	12	0
446	259	263	1.950	9	0
468	228	206	1.950	9	0
469	209	278	3.645	5	0
470	229	212	2.125	2	0
471	230	228	2.125	9	0
472	230	279	3.477	5	0
473	231	209	2.349	9	0
474	231	229	2.500	5	0
485	232	36	3.650	2	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
486	233	34	3.650	16	0
487	234	120	3.650	5	0
488	235	124	3.650	5	0
489	236	128	3.650	5	0
490	233	234	2.000	2	0
491	234	235	2.000	2	0
492	235	236	2.000	2	0
493	236	232	1.903	2	0
494	237	195	1.900	9	0
495	238	35	0.100	2	0
496	237	238	4.250	15	0
497	183	265	1.900	9	0
498	186	258	1.900	9	0
499	265	258	1.950	9	0
500	241	172	0.100	9	0
501	242	48	0.100	2	0
502	241	242	4.250	15	0
503	184	267	1.900	9	0
504	187	260	1.900	9	0
505	267	260	1.950	9	0
509	211	261	4.400	9	0
518	249	33	0.430	2	0
519	8	250	5.600	3	0
520	16	251	5.600	2	0
521	12	253	5.600	2	0
522	7	252	5.600	3	0
523	30	256	5.600	2	0
524	25	254	5.600	3	0
525	26	255	5.600	3	0
526	34	257	5.600	16	0
528	259	185	1.900	12	0
531	263	182	1.900	9	0
534	41	274	6.050	18	0
535	38	273	6.050	20	0
536	273	272	5.600	20	0
538	274	271	5.600	18	0
540	153	154	3.500	2	0
541	275	26	3.650	3	0
542	275	233	2.147	2	0
543	209	261	4.813	9	0
544	276	107	1.503	2	0
545	261	278	2.091	9	0
546	278	228	2.655	5	0
547	279	231	1.823	5	0
548	279	153	2.279	9	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
549	278	279	2.279	9	0

Plates

Plate	Node A	Node B	Node C	Node D	Property
150	2	4	61	15	1
151	4	10	66	61	1
152	10	8	16	66	1
153	15	61	62	17	1
154	61	66	64	62	1
156	17	62	63	11	1
157	11	63	3	1	1
158	63	65	5	3	1
159	64	18	12	65	1
160	62	64	65	63	1
161	65	12	7	5	1
162	20	22	81	33	1
163	22	28	86	81	1
164	28	26	34	86	1
165	33	81	82	35	1
166	81	86	84	82	1
167	86	34	36	84	1
168	35	82	83	29	1
169	29	83	21	19	1
170	83	85	23	21	1
171	84	36	30	85	1
172	82	84	85	83	1
173	85	30	25	23	1
180	48	89	87	37	1
181	37	87	39	47	1
182	87	38	41	39	1
184	89	49	38	87	1
185	159	44	49	90	1
189	92	102	101	54	1
190	102	98	55	101	1
191	53	60	102	92	1
192	60	98	102		1
326	66	16	18	64	1
350	51	159	90		1
447	182	179	1	173	1
448	185	182	173	176	1
449	213	131	19	177	1
450	186	183	192	189	1



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Plates Cont...

Plate	Node A	Node B	Node C	Node D	Property
451	210	141	47	178	1
452	187	184	193	190	1
476	209	231	229	212	1
477	231	153	154	229	1
478	211	209	212	200	1
550	254	25	30	256	1
551	8	250	251	16	1
552	12	253	252	7	1
553	189	192	195	213	1
554	237	238	131	195	1
555	41	274	273	38	1
556	274	271	272	273	1
557	241	242	141	194	1
558	190	193	194	210	1
559	34	257	255	26	1
560	206	228	278	261	1
561	228	230	279	278	1
562	230	205	153	279	1
563	278	279	231	209	1
564	261	209	211		1
565	279	153	231		1
566	261	278	209		1

Section Properties

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{zz} (cm ⁴)	J (cm ⁴)	Material
2	Rect 0.60x0.40	2.4E+3	320E+3	720E+3	751E+3	CONC28
3	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONC28
4	Rect 0.40x0.60	2.4E+3	720E+3	320E+3	751E+3	CONC28
5	Rect 0.50x0.15	750.000	14.1E+3	156E+3	45.6E+3	CONC28
6	Rect 0.40x0.60	2.4E+3	720E+3	320E+3	751E+3	CONC28
7	Cir 0.50	1.96E+3	307E+3	307E+3	614E+3	CONC28
8	Rect 0.40x0.60	2.4E+3	720E+3	320E+3	751E+3	CONC28
9	Rect 0.60x0.30	1.8E+3	135E+3	540E+3	371E+3	CONC28
10	Rect 0.25x0.60	1.5E+3	450E+3	78.1E+3	231E+3	CONC28
11	Rect 0.60x0.25	1.5E+3	78.1E+3	450E+3	231E+3	CONC28
12	Rect 0.60x0.85	5.1E+3	3.07E+6	1.53E+6	3.45E+6	CONC28
13	Rect 0.60x0.55	3.3E+3	832E+3	990E+3	1.52E+6	CONC28
14	Rect 0.60x0.25	1.5E+3	78.1E+3	450E+3	231E+3	CONC28
15	Rect 0.50x0.20	1E+3	33.3E+3	208E+3	99.8E+3	CONC28
16	Rect 1.20x0.40	4.8E+3	640E+3	5.76E+6	2.02E+6	CONC28
17	PIPE	98.646	12.2E+3	12.2E+3	24.3E+3	STEEL
18	Rect 0.76x0.30	2.28E+3	171E+3	1.1E+6	514E+3	CONC28



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Section Properties Cont...

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{zz} (cm ⁴)	J (cm ⁴)	Material
19	Rect 0.70x0.30	2.1E+3	158E+3	857E+3	460E+3	CONC28
20	Rect 0.76x0.40	3.04E+3	405E+3	1.46E+6	1.09E+6	CONC28
21	Rect 0.50x0.50	2.5E+3	521E+3	521E+3	879E+3	CONC28

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	12.000	12.000	12.000	12.000	DIAFRAGMA

Materials

Mat	Name	E (kN/mm ²)	ν	Density (kg/m ³)	α (/°C)
1	DIAFRAGMA	24.389	0.170	0.100	10E -6
2	CONC28	24.389	0.170	2.4E+3	10E -6
3	STEEL	205.000	0.300	7.83E+3	12E -6
4	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
5	ALUMINUM	68.948	0.330	2.71E+3	23E -6
6	CONCRETE	21.718	0.170	2.4E+3	10E -6

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN·m/deg)	rY (kN·m/deg)	rZ (kN·m/deg)
11	Fixed	Fixed	Fixed	-	-	-
12	Fixed	Fixed	Fixed	-	-	-
15	Fixed	Fixed	Fixed	-	-	-
16	Fixed	Fixed	Fixed	-	-	-
17	Fixed	Fixed	Fixed	-	-	-
18	Fixed	Fixed	Fixed	-	-	-
61	Fixed	Fixed	Fixed	-	-	-
62	Fixed	Fixed	Fixed	-	-	-
63	Fixed	Fixed	Fixed	-	-	-
64	Fixed	Fixed	Fixed	-	-	-
65	Fixed	Fixed	Fixed	-	-	-
66	Fixed	Fixed	Fixed	-	-	-
163	Fixed	Fixed	Fixed	-	-	-
196	Fixed	Fixed	Fixed	-	-	-
250	-	Fixed	-	-	-	-
251	-	Fixed	-	-	-	-
252	-	Fixed	-	-	-	-
253	-	Fixed	-	-	-	-



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Supports Cont...

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN·m/deg)	rY (kN·m/deg)	rZ (kN·m/deg)
254	-	Fixed	-	-	-	-
255	-	Fixed	-	-	-	-
256	-	Fixed	-	-	-	-
257	-	Fixed	-	-	-	-
259	Fixed	Fixed	Fixed	-	-	-
271	-	Fixed	-	-	-	-
272	-	Fixed	-	-	-	-

Releases

Beam ends not shown in this table are fixed in all directions.

Beam	Node	x	y	z	rx	ry	rz
197	103	Fixed	Fixed	Fixed	Pin	Pin	Pin
197	105	Fixed	Fixed	Fixed	Pin	Pin	Pin
199	105	Fixed	Fixed	Fixed	Pin	Pin	Pin
199	106	Fixed	Fixed	Fixed	Pin	Pin	Pin
204	107	Fixed	Fixed	Fixed	Pin	Pin	Pin
204	109	Fixed	Fixed	Fixed	Pin	Pin	Pin
206	109	Fixed	Fixed	Fixed	Pin	Pin	Pin
206	110	Fixed	Fixed	Fixed	Pin	Pin	Pin
211	111	Fixed	Fixed	Fixed	Pin	Pin	Pin
211	113	Fixed	Fixed	Fixed	Pin	Pin	Pin
212	114	Fixed	Fixed	Fixed	Pin	Pin	Pin
212	112	Fixed	Fixed	Fixed	Pin	Pin	Pin
213	113	Fixed	Fixed	Fixed	Pin	Pin	Pin
213	114	Fixed	Fixed	Fixed	Pin	Pin	Pin
218	115	Fixed	Fixed	Fixed	Pin	Pin	Pin
218	117	Fixed	Fixed	Fixed	Pin	Pin	Pin
219	118	Fixed	Fixed	Fixed	Pin	Pin	Pin
219	116	Fixed	Fixed	Fixed	Pin	Pin	Pin
220	117	Fixed	Fixed	Fixed	Pin	Pin	Pin
220	118	Fixed	Fixed	Fixed	Pin	Pin	Pin
256	119	Fixed	Fixed	Fixed	Pin	Pin	Pin
256	121	Fixed	Fixed	Fixed	Pin	Pin	Pin
263	123	Fixed	Fixed	Fixed	Pin	Pin	Pin
263	125	Fixed	Fixed	Fixed	Pin	Pin	Pin
265	125	Fixed	Fixed	Fixed	Pin	Pin	Pin
265	126	Fixed	Fixed	Fixed	Pin	Pin	Pin
270	127	Fixed	Fixed	Fixed	Pin	Pin	Pin
270	129	Fixed	Fixed	Fixed	Pin	Pin	Pin
272	129	Fixed	Fixed	Fixed	Pin	Pin	Pin
272	130	Fixed	Fixed	Fixed	Pin	Pin	Pin
277	131	Fixed	Fixed	Fixed	Pin	Pin	Pin



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Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
277	133	Fixed	Fixed	Fixed	Pin	Pin	Pin
278	134	Fixed	Fixed	Fixed	Pin	Pin	Pin
278	132	Fixed	Fixed	Fixed	Pin	Pin	Pin
279	133	Fixed	Fixed	Fixed	Pin	Pin	Pin
279	134	Fixed	Fixed	Fixed	Pin	Pin	Pin
291	141	Fixed	Fixed	Fixed	Pin	Pin	Pin
291	146	Fixed	Fixed	Fixed	Pin	Pin	Pin
301	158	Fixed	Fixed	Fixed	Pin	Pin	Pin
301	147	Fixed	Fixed	Fixed	Pin	Pin	Pin
303	157	Fixed	Fixed	Fixed	Pin	Pin	Pin
303	148	Fixed	Fixed	Fixed	Pin	Pin	Pin
305	149	Fixed	Fixed	Fixed	Pin	Pin	Pin
307	146	Fixed	Fixed	Fixed	Pin	Pin	Pin
318	106	Fixed	Fixed	Fixed	Pin	Pin	Pin
318	104	Fixed	Fixed	Fixed	Pin	Pin	Pin
319	110	Fixed	Fixed	Fixed	Pin	Pin	Pin
319	108	Fixed	Fixed	Fixed	Pin	Pin	Pin
336	139	Fixed	Fixed	Fixed	Pin	Pin	Pin
337	137	Fixed	Fixed	Fixed	Pin	Pin	Pin
338	135	Fixed	Fixed	Fixed	Pin	Pin	Pin
340	142	Fixed	Fixed	Fixed	Pin	Pin	Pin
351	121	Fixed	Fixed	Fixed	Pin	Pin	Pin
351	122	Fixed	Fixed	Fixed	Pin	Pin	Pin
439	196	Fixed	Fixed	Fixed	Pin	Pin	Pin
439	115	Fixed	Fixed	Fixed	Pin	Pin	Pin
442	215	Fixed	Fixed	Fixed	Pin	Pin	Pin
442	196	Fixed	Fixed	Fixed	Pin	Pin	Pin
487	234	Fixed	Fixed	Fixed	Pin	Pin	Pin
487	120	Fixed	Fixed	Fixed	Pin	Pin	Pin
488	235	Fixed	Fixed	Fixed	Pin	Pin	Pin
488	124	Fixed	Fixed	Fixed	Pin	Pin	Pin
489	236	Fixed	Fixed	Fixed	Pin	Pin	Pin
489	128	Fixed	Fixed	Fixed	Pin	Pin	Pin



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Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
5	DERX1	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.80
6	DERX2	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.80
7	DERZ1	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	0.80
8	DERZ2	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	-0.80
9	DERX3	1	DEAD	0.90
		3	EQX	0.80
10	DERX4	1	DEAD	0.90
		3	EQX	-0.80
11	DERZ3	1	DEAD	0.90
		4	EQZ	0.80
12	DERZ4	1	DEAD	0.90
		4	EQZ	-0.80
13	COM1	1	DEAD	1.40
14	COM2	1	DEAD	1.20
		2	LIVE	1.60
15	COM3	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.20
		4	EQZ	0.06
16	COM4	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.20
		4	EQZ	-0.06
17	COM5	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.20
		4	EQZ	-0.06
18	COM6	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.20
		4	EQZ	0.06
19	COM7	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.06
		4	EQZ	0.20
20	COM8	1	DEAD	1.20
		2	LIVE	1.00



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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		3	EQX	0.06
		4	EQZ	-0.20
21	COM9	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.06
		4	EQZ	-0.20
22	COM10	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.06
		4	EQZ	0.20
23	COM11	1	DEAD	0.90
		3	EQX	0.20
		4	EQZ	0.06
24	COM12	1	DEAD	0.90
		3	EQX	0.20
		4	EQZ	-0.06
25	COM13	1	DEAD	0.90
		3	EQX	-0.20
		4	EQZ	-0.06
26	COM14	1	DEAD	0.90
		3	EQX	-0.20
		4	EQZ	0.06
27	COM15	1	DEAD	0.90
		3	EQX	0.06
		4	EQZ	0.20
28	COM16	1	DEAD	0.90
		3	EQX	0.06
		4	EQZ	-0.20
29	COM17	1	DEAD	0.90
		3	EQX	-0.06
		4	EQZ	-0.20
30	COM18	1	DEAD	0.90
		3	EQX	-0.06
		4	EQZ	0.20
31	CIM	1	DEAD	1.00
		2	LIVE	1.00
32	CIMX1	1	DEAD	0.90
		3	EQX	0.14
		4	EQZ	0.04
33	CIMX2	1	DEAD	0.90
		3	EQX	-0.14
		4	EQZ	0.04
34	CIMX3	1	DEAD	0.90
		3	EQX	0.14
		4	EQZ	-0.04



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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
35	CIMX4	1	DEAD	0.90
		3	EQX	-0.14
		4	EQZ	-0.04
36	CIMX5	1	DEAD	0.90
		3	EQX	0.04
		4	EQZ	0.14
37	CIMX6	1	DEAD	0.90
		3	EQX	-0.04
		4	EQZ	0.14
38	CIMX7	1	DEAD	0.90
		3	EQX	0.04
		4	EQZ	-0.14
39	CIMX8	1	DEAD	0.90
		3	EQX	-0.05
		4	EQZ	-0.14
40	CIMX9	3	EQX	0.14
		4	EQZ	0.04
		1	DEAD	1.00
		2	LIVE	1.00
41	CIMX10	3	EQX	0.14
		4	EQZ	-0.04
		1	DEAD	1.00
		2	LIVE	1.00
42	CIMX11	3	EQX	-0.14
		4	EQZ	0.04
		1	DEAD	1.00
		2	LIVE	1.00
43	CIMX12	3	EQX	-0.14
		4	EQZ	-0.04
		1	DEAD	1.00
		2	LIVE	1.00
44	CIMX13	3	EQX	0.04
		4	EQZ	0.14
		1	DEAD	1.00
		2	LIVE	1.00
45	CIMX14	3	EQX	0.04
		4	EQZ	-0.14
		1	DEAD	1.00
		2	LIVE	1.00
46	CIMX15	3	EQX	-0.04
		4	EQZ	0.14
		1	DEAD	1.00
		2	LIVE	1.00
47	CIMX16	3	EQX	-0.04
		4	EQZ	-0.14



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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		1	DEAD	1.00
		2	LIVE	1.00

Load Generators

There is no data of this type.

ESPECTRO DE DISEÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: 181_JARDIN CAMPO VERDE

Ciudad: Bogotá

CALCULÓ: JDH

Sistema Estructural: Porticos en concreto

Zona Microzonificación: ALUVIAL 200

PARÁMETROS SÍSMICOS

$A_a = 0.15$

$F_a = 1.05$

$A_v = 0.20$

$F_v = 2.10$

$A_0 = 0.16$

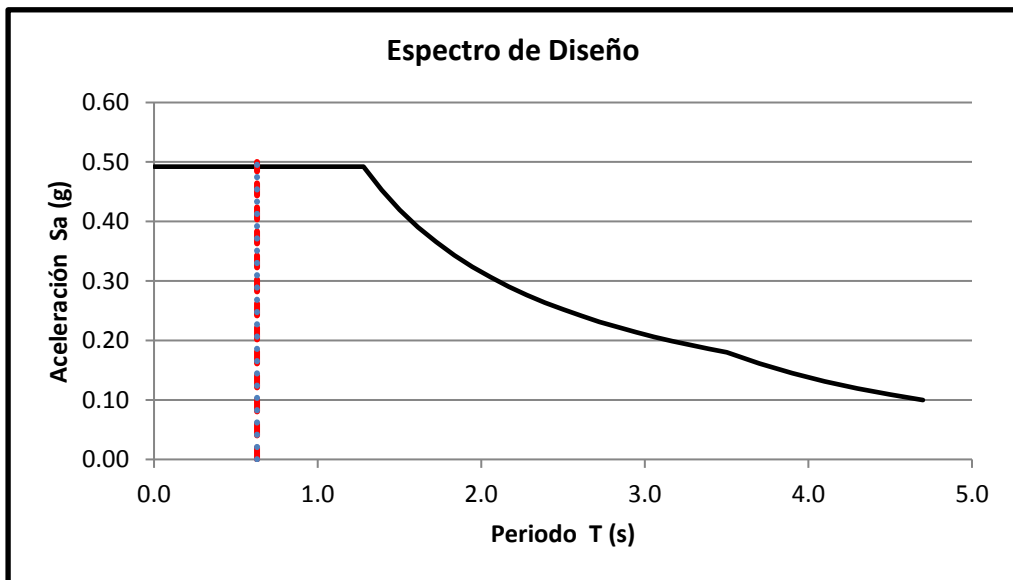
Grupo de Uso III

$T_c (s) = 1.28$

$I = 1.25$

$T_L (s) = 3.50$

$R_0 = 5.0$



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: Pórticos de concreto

$h (m) = 14.0$

$T_a = 0.505$ s

$C_t = 0.047$

$C_u = 1.246$

$a = 0.9$

$C_u * T_a = 0.630$ s

PARA ANÁLISIS DINÁMICO

Periodo calculado, $T_x = 0.726$ s

$T_z = 0.726$ s

Chequeo A.5.4.5 $T < C_u * T_a$: Usar $C_u * T_a$

Usar $C_u * T_a$

$T_x(s) = 0.630$ s

$T_x(s) = 0.630$ s

$S_{ax} = 0.492$

$S_{ax} = 0.492$

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
1	5:DERX1	0.001	-6.245	0.001	6.245	-0.003	0.000	0.000
	6:DERX2	-0.001	-7.623	-0.002	7.623	-0.004	-0.000	-0.000
	7:DERZ1	0.002	-2.224	0.002	2.224	-0.001	0.000	0.000
	8:DERZ2	-0.002	-11.643	-0.002	11.643	-0.005	-0.000	-0.000
	9:DERX3	0.001	-2.843	0.001	2.843	-0.001	0.000	0.000
	10:DERX4	-0.001	-4.221	-0.002	4.221	-0.002	-0.000	-0.000
	11:DERZ3	0.002	1.177	0.002	1.177	0.000	0.000	0.000
	12:DERZ4	-0.002	-8.242	-0.002	8.242	-0.004	-0.000	-0.000
2	5:DERX1	0.002	2.797	0.000	2.797	0.000	0.000	0.000
	6:DERX2	-0.002	0.378	-0.000	0.378	-0.001	-0.000	-0.002
	7:DERZ1	0.003	8.465	0.000	8.465	0.003	0.000	-0.000
	8:DERZ2	-0.003	-5.290	-0.000	5.290	-0.004	-0.000	-0.001
	9:DERX3	0.002	2.079	0.000	2.079	0.000	0.000	0.000
	10:DERX4	-0.002	-0.340	-0.000	0.340	-0.001	-0.000	-0.001
	11:DERZ3	0.003	7.747	0.000	7.747	0.003	0.000	-0.000
	12:DERZ4	-0.003	-6.007	-0.000	6.007	-0.003	-0.000	-0.001
3	5:DERX1	0.001	-4.329	0.002	4.329	-0.002	0.000	0.000
	6:DERX2	-0.001	-6.601	-0.002	6.601	-0.003	-0.000	0.000
	7:DERZ1	0.002	0.487	0.002	0.487	-0.000	0.000	0.000
	8:DERZ2	-0.002	-11.418	-0.002	11.418	-0.005	-0.000	-0.000
	9:DERX3	0.001	-1.638	0.002	1.638	-0.001	0.000	0.000
	10:DERX4	-0.001	-3.910	-0.002	3.910	-0.002	-0.000	-0.000
	11:DERZ3	0.002	3.178	0.002	3.178	0.001	0.000	0.000
	12:DERZ4	-0.002	-8.727	-0.002	8.727	-0.004	-0.000	-0.000
4	5:DERX1	0.001	1.708	0.001	1.708	0.001	0.000	0.000
	6:DERX2	-0.001	-0.472	-0.001	0.472	-0.000	-0.000	-0.000
	7:DERZ1	0.002	6.454	0.001	6.454	0.003	0.000	0.000
	8:DERZ2	-0.002	-5.218	-0.001	5.218	-0.003	-0.000	-0.000
	9:DERX3	0.001	1.301	0.001	1.301	0.001	0.000	0.000
	10:DERX4	-0.001	-0.880	-0.001	0.880	-0.000	-0.000	-0.000
	11:DERZ3	0.002	6.046	0.001	6.046	0.003	0.000	0.000
	12:DERZ4	-0.002	-5.625	-0.001	5.625	-0.003	-0.000	-0.000
5	5:DERX1	0.001	-4.392	0.001	4.392	-0.002	0.000	0.000
	6:DERX2	-0.001	-7.114	-0.001	7.114	-0.003	-0.000	-0.001
	7:DERZ1	0.002	-1.411	0.001	1.411	-0.001	0.000	0.000
	8:DERZ2	-0.002	-10.095	-0.001	10.095	-0.005	-0.000	-0.000
	9:DERX3	0.001	-1.565	0.001	1.565	-0.001	0.000	0.001
	10:DERX4	-0.001	-4.286	-0.001	4.286	-0.002	-0.000	-0.001
	11:DERZ3	0.002	1.417	0.001	1.417	0.000	0.000	0.000
	12:DERZ4	-0.002	-7.267	-0.001	7.267	-0.003	-0.000	-0.000
7	5:DERX1	0.002	-4.596	0.001	4.596	-0.002	0.000	0.000
	6:DERX2	-0.002	-6.321	-0.001	6.321	-0.003	-0.000	0.000
	7:DERZ1	0.002	-3.181	0.002	3.181	-0.002	0.000	0.000
	8:DERZ2	-0.002	-7.736	-0.002	7.736	-0.004	-0.000	-0.000
	9:DERX3	0.002	-1.950	0.001	1.950	-0.001	0.000	0.000
	10:DERX4	-0.002	-3.675	-0.001	3.675	-0.002	-0.000	0.000
	11:DERZ3	0.002	-0.535	0.002	0.535	-0.000	0.000	0.000
	12:DERZ4	-0.002	-5.090	-0.002	5.090	-0.002	-0.000	-0.000
8	5:DERX1	0.003	0.112	0.001	0.112	0.002	0.000	0.000
	6:DERX2	-0.003	-3.417	-0.001	3.417	0.000	-0.000	-0.000
	7:DERZ1	0.003	2.224	0.002	2.224	0.003	0.000	0.000
	8:DERZ2	-0.003	-5.529	-0.002	5.529	-0.001	-0.000	-0.001
	9:DERX3	0.003	1.357	0.001	1.357	0.001	0.000	0.000
	10:DERX4	-0.003	-2.173	-0.001	2.173	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	0.003	3.468	0.002	3.468	0.002	0.000	0.000
	12:DERZ4	-0.003	-4.284	-0.002	4.284	-0.001	-0.000	-0.000
10	5:DERX1	0.001	2.038	0.001	2.038	0.001	0.000	0.000
	6:DERX2	-0.001	-2.038	-0.001	2.038	-0.001	-0.000	-0.001
	7:DERZ1	0.002	6.077	0.001	6.077	0.003	0.000	-0.000
	8:DERZ2	-0.002	-6.077	-0.001	6.077	-0.002	-0.000	-0.001
	9:DERX3	0.001	2.248	0.001	2.248	0.001	0.000	0.000
	10:DERX4	-0.001	-1.828	-0.001	1.828	-0.001	-0.000	-0.000
	11:DERZ3	0.002	6.287	0.001	6.287	0.003	0.000	0.000
	12:DERZ4	-0.001	-5.867	-0.001	5.867	-0.003	-0.000	-0.000
11	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
12	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
	7:DERZ1	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
15	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.004	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.004	-0.000	-0.001
16	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
17	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	0.001	-0.000	-0.001
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.001	-0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
18	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	0.001	-0.000	-0.001
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	-0.000	0.000
19	5:DERX1	24.770	-5.016	1.881	25.343	-0.002	0.001	0.001
	6:DERX2	-24.285	-7.009	-3.402	25.504	-0.003	-0.001	-0.000
	7:DERZ1	5.827	1.947	16.698	17.792	0.000	0.001	0.001
	8:DERZ2	-5.341	-13.972	-18.219	23.573	-0.006	-0.001	-0.000
	9:DERX3	24.649	-1.865	2.338	24.830	-0.001	0.001	0.000
	10:DERX4	-24.406	-3.858	-2.945	24.884	-0.002	-0.001	-0.000
	11:DERZ3	5.706	5.098	17.155	18.784	0.002	0.001	0.000
	12:DERZ4	-5.463	-10.821	-17.762	21.504	-0.004	-0.001	-0.000
20	5:DERX1	18.122	0.965	1.883	18.245	0.001	0.001	0.001
	6:DERX2	-17.510	-2.644	-3.426	18.037	-0.001	-0.001	-0.002
	7:DERZ1	11.587	8.251	16.730	21.960	0.004	0.001	-0.000
	8:DERZ2	-10.976	-9.930	-18.273	23.515	-0.004	-0.001	-0.001
	9:DERX3	18.070	1.188	2.340	18.259	0.001	0.001	0.001
	10:DERX4	-17.562	-2.421	-2.968	17.975	-0.001	-0.001	-0.002
	11:DERZ3	11.536	8.474	17.187	22.367	0.004	0.001	0.000
	12:DERZ4	-11.027	-9.707	-17.815	23.092	-0.004	-0.001	-0.001
21	5:DERX1	24.756	-3.084	2.919	25.117	-0.002	0.001	0.000
	6:DERX2	-24.283	-7.063	-4.477	25.683	-0.003	-0.001	-0.000
	7:DERZ1	5.832	4.846	18.791	20.263	0.001	0.001	0.000
	8:DERZ2	-5.359	-14.993	-20.349	25.838	-0.006	-0.001	-0.000
	9:DERX3	24.638	-0.587	3.347	24.871	-0.000	0.001	0.000
	10:DERX4	-24.401	-4.566	-4.049	25.153	-0.002	-0.001	-0.000
	11:DERZ3	5.714	7.343	19.219	21.353	0.002	0.001	0.000
	12:DERZ4	-5.477	-12.497	-19.921	24.145	-0.005	-0.001	-0.000
22	5:DERX1	18.134	0.195	2.921	18.369	0.001	0.001	0.001
	6:DERX2	-17.510	-2.691	-4.481	18.274	-0.000	-0.001	-0.000
	7:DERZ1	11.598	6.159	18.791	22.925	0.004	0.001	0.000
	8:DERZ2	-10.974	-8.655	-20.351	24.688	-0.003	-0.001	-0.000
	9:DERX3	18.080	0.623	3.350	18.398	0.001	0.001	0.001
	10:DERX4	-17.564	-2.263	-4.053	18.167	-0.000	-0.001	-0.000
	11:DERZ3	11.544	6.587	19.220	23.368	0.004	0.001	0.000
	12:DERZ4	-11.028	-8.227	-19.923	24.212	-0.003	-0.001	-0.000
23	5:DERX1	24.730	-3.348	7.029	25.927	-0.002	0.001	0.001
	6:DERX2	-24.274	-8.152	-8.624	27.020	-0.003	-0.001	-0.001
	7:DERZ1	5.827	2.284	22.013	22.886	0.000	0.001	0.000
	8:DERZ2	-5.372	-13.785	-23.608	27.860	-0.006	-0.001	-0.001
	9:DERX3	24.616	-0.514	7.430	25.718	-0.000	0.001	0.001
	10:DERX4	-24.388	-5.319	-8.223	26.281	-0.002	-0.001	-0.001
	11:DERZ3	5.713	5.118	22.414	23.690	0.002	0.001	0.000
	12:DERZ4	-5.485	-10.951	-23.207	26.241	-0.004	-0.001	-0.001
25	5:DERX1	24.724	-5.895	11.571	27.927	-0.003	0.001	0.000
	6:DERX2	-24.283	-8.578	-13.255	28.965	-0.004	-0.001	0.000
	7:DERZ1	5.841	-3.306	26.097	26.947	-0.002	0.001	0.001
	8:DERZ2	-5.399	-11.167	-27.781	30.425	-0.005	-0.001	-0.000
	9:DERX3	24.614	-2.309	11.955	27.461	-0.001	0.001	0.000
	10:DERX4	-24.393	-4.992	-12.871	28.029	-0.002	-0.001	-0.000
	11:DERZ3	5.731	0.280	26.482	27.096	-0.000	0.001	0.001
	12:DERZ4	-5.509	-7.581	-27.397	28.956	-0.003	-0.001	-0.000
26	5:DERX1	18.163	-0.011	11.599	21.551	0.002	0.001	-0.000
	6:DERX2	-17.518	-3.890	-13.262	22.313	-0.000	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	11.649	2.272	26.146	28.713	0.003	0.001	-0.000
	8:DERZ2	-11.004	-6.173	-27.809	30.537	-0.001	-0.001	-0.001
	9:DERX3	18.106	1.141	11.976	21.738	0.001	0.001	0.000
	10:DERX4	-17.575	-2.738	-12.885	21.964	-0.001	-0.001	-0.000
	11:DERZ3	11.592	3.425	26.523	29.147	0.002	0.001	0.000
	12:DERZ4	-11.061	-5.021	-27.432	30.001	-0.002	-0.001	-0.000
28	5:DERX1	18.154	1.532	7.034	19.530	0.002	0.001	0.000
	6:DERX2	-17.512	-3.483	-8.635	19.834	-0.001	-0.001	0.000
	7:DERZ1	11.612	5.991	22.022	25.607	0.003	0.001	0.001
	8:DERZ2	-10.969	-7.942	-23.624	27.230	-0.003	-0.001	-0.000
	9:DERX3	18.097	1.933	7.436	19.661	0.001	0.001	0.000
	10:DERX4	-17.569	-3.082	-8.233	19.646	-0.001	-0.001	-0.000
	11:DERZ3	11.555	6.392	22.424	26.023	0.003	0.001	0.001
	12:DERZ4	-11.027	-7.541	-23.222	26.790	-0.003	-0.001	-0.000
29	5:DERX1	23.403	-0.658	1.878	23.487	-0.000	0.001	0.003
	6:DERX2	-22.901	-0.834	-3.403	23.168	-0.001	-0.001	-0.003
	7:DERZ1	4.263	-0.086	16.695	17.231	0.002	0.001	0.001
	8:DERZ2	-3.761	-1.405	-18.220	18.657	-0.003	-0.001	-0.000
	9:DERX3	23.294	-0.353	2.336	23.414	0.000	0.001	0.003
	10:DERX4	-23.010	-0.530	-2.945	23.204	-0.001	-0.001	-0.003
	11:DERZ3	4.154	0.218	17.153	17.650	0.003	0.001	0.000
	12:DERZ4	-3.870	-1.101	-17.762	18.212	-0.003	-0.001	-0.000
30	5:DERX1	23.358	-0.479	11.563	26.068	-0.001	0.001	0.000
	6:DERX2	-22.878	-0.865	-13.247	26.450	-0.002	-0.001	0.000
	7:DERZ1	4.253	-0.448	26.083	26.431	0.000	0.001	0.000
	8:DERZ2	-3.772	-0.895	-27.768	28.037	-0.003	-0.001	0.000
	9:DERX3	23.254	-0.187	11.947	26.144	-0.000	0.001	0.000
	10:DERX4	-22.981	-0.573	-12.863	26.343	-0.001	-0.001	0.000
	11:DERZ3	4.149	-0.157	26.467	26.791	0.001	0.001	0.000
	12:DERZ4	-3.876	-0.603	-27.384	27.663	-0.002	-0.001	0.000
33	5:DERX1	18.656	-0.418	1.882	18.756	0.000	0.001	0.003
	6:DERX2	-18.060	-0.704	-3.427	18.396	-0.001	-0.001	-0.003
	7:DERZ1	9.666	-0.262	16.727	19.321	0.004	0.001	0.001
	8:DERZ2	-9.070	-0.860	-18.272	20.417	-0.004	-0.001	-0.002
	9:DERX3	18.596	-0.206	2.340	18.744	0.001	0.001	0.003
	10:DERX4	-18.121	-0.491	-2.969	18.369	-0.001	-0.001	-0.003
	11:DERZ3	9.605	-0.049	17.185	19.687	0.004	0.001	0.001
	12:DERZ4	-9.130	-0.647	-17.814	20.028	-0.004	-0.001	-0.001
34	5:DERX1	18.684	-0.596	11.592	21.996	0.001	0.001	0.000
	6:DERX2	-18.060	-1.141	-13.255	22.432	-0.001	-0.001	0.000
	7:DERZ1	9.677	-0.781	26.131	27.876	0.002	0.001	0.000
	8:DERZ2	-9.053	-0.955	-27.794	29.247	-0.002	-0.001	0.000
	9:DERX3	18.618	-0.280	11.970	22.135	0.001	0.001	0.000
	10:DERX4	-18.127	-0.825	-12.878	22.251	-0.001	-0.001	0.000
	11:DERZ3	9.611	-0.466	26.508	28.201	0.002	0.001	0.000
	12:DERZ4	-9.120	-0.640	-27.417	28.901	-0.002	-0.001	0.000
35	5:DERX1	21.712	-0.595	1.894	21.803	0.001	0.001	0.003
	6:DERX2	-21.188	-0.801	-3.389	21.472	-0.000	-0.001	-0.003
	7:DERZ1	3.956	-0.364	16.723	17.188	0.003	0.001	0.000
	8:DERZ2	-3.432	-1.032	-18.218	18.567	-0.003	-0.001	-0.001
	9:DERX3	21.620	-0.348	2.345	21.750	0.001	0.001	0.003
	10:DERX4	-21.280	-0.554	-2.937	21.489	-0.000	-0.001	-0.003
	11:DERZ3	3.863	-0.117	17.174	17.604	0.003	0.001	0.000
	12:DERZ4	-3.524	-0.785	-17.767	18.130	-0.003	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
36	5:DERX1	21.651	-0.196	11.565	24.547	0.001	0.001	0.001
	6:DERX2	-21.125	-0.575	-13.235	24.935	0.001	-0.001	0.001
	7:DERZ1	3.945	-0.265	26.085	26.383	0.001	0.001	0.001
	8:DERZ2	-3.419	-0.506	-27.755	27.970	0.000	-0.001	0.001
	9:DERX3	21.558	-0.099	11.946	24.647	0.001	0.001	0.001
	10:DERX4	-21.218	-0.478	-12.855	24.813	0.000	-0.001	0.000
	11:DERZ3	3.852	-0.168	26.466	26.745	0.001	0.001	0.001
	12:DERZ4	-3.512	-0.409	-27.375	27.602	0.000	-0.001	0.001
37	5:DERX1	45.861	-1.096	3.564	46.012	-0.000	0.002	0.002
	6:DERX2	-44.148	-1.361	-7.004	44.721	-0.001	-0.001	-0.002
	7:DERZ1	8.554	-0.208	32.764	33.863	0.001	0.002	0.001
	8:DERZ2	-6.841	-2.249	-36.204	36.913	-0.003	-0.002	-0.000
	9:DERX3	45.480	-0.601	4.558	45.712	-0.000	0.002	0.002
	10:DERX4	-44.528	-0.867	-6.011	44.941	-0.001	-0.002	-0.002
	11:DERZ3	8.174	0.286	33.757	34.734	0.002	0.002	0.000
	12:DERZ4	-7.221	-1.755	-35.210	35.986	-0.002	-0.002	-0.000
38	5:DERX1	45.888	-0.996	13.387	47.812	-0.001	0.002	0.003
	6:DERX2	-44.147	-1.775	-17.721	47.604	-0.003	-0.002	-0.004
	7:DERZ1	8.546	-0.650	41.872	42.740	0.001	0.002	-0.000
	8:DERZ2	-6.804	-2.121	-46.205	46.751	-0.005	-0.002	-0.002
	9:DERX3	45.504	-0.411	14.467	47.750	-0.000	0.002	0.003
	10:DERX4	-44.532	-1.191	-16.641	47.554	-0.002	-0.002	-0.004
	11:DERZ3	8.161	-0.066	42.952	43.720	0.002	0.002	0.000
	12:DERZ4	-7.189	-1.536	-45.125	45.720	-0.004	-0.002	-0.001
39	5:DERX1	48.700	-3.237	5.101	49.073	-0.001	0.002	0.000
	6:DERX2	-47.170	-6.409	-9.041	48.455	-0.002	-0.002	-0.000
	7:DERZ1	11.566	2.406	35.969	37.859	0.000	0.002	0.000
	8:DERZ2	-10.037	-12.052	-39.909	42.880	-0.004	-0.002	-0.000
	9:DERX3	48.337	-0.918	6.149	48.735	-0.000	0.002	0.000
	10:DERX4	-47.533	-4.090	-7.994	48.374	-0.001	-0.002	-0.000
	11:DERZ3	11.203	4.725	37.017	38.962	0.001	0.002	0.000
	12:DERZ4	-10.400	-9.733	-38.861	41.390	-0.003	-0.002	-0.000
40	5:DERX1	34.755	-0.699	4.201	35.015	-0.001	0.001	0.000
	6:DERX2	-32.532	-0.852	-9.751	33.973	-0.002	-0.002	-0.001
	7:DERZ1	18.128	-0.671	34.584	39.053	0.003	0.002	0.000
	8:DERZ2	-15.905	-0.880	-40.134	43.179	-0.006	-0.002	-0.000
	9:DERX3	34.366	-0.378	5.581	34.819	0.000	0.001	0.000
	10:DERX4	-32.921	-0.531	-8.371	33.972	-0.002	-0.002	-0.001
	11:DERZ3	17.739	-0.350	35.964	40.102	0.004	0.002	0.000
	12:DERZ4	-16.293	-0.558	-38.754	42.043	-0.005	-0.002	-0.000
41	5:DERX1	48.935	-10.465	13.423	51.811	-0.005	0.002	-0.002
	6:DERX2	-47.382	-14.462	-17.758	52.627	-0.006	-0.002	-0.004
	7:DERZ1	11.824	-5.481	41.946	43.924	-0.003	0.002	-0.003
	8:DERZ2	-10.271	-19.446	-46.281	51.240	-0.008	-0.002	-0.003
	9:DERX3	48.568	-4.402	14.504	50.878	-0.002	0.002	-0.001
	10:DERX4	-47.750	-8.398	-16.678	51.271	-0.003	-0.002	-0.002
	11:DERZ3	11.456	0.582	43.026	44.529	-0.000	0.002	-0.001
	12:DERZ4	-10.638	-13.382	-45.201	48.326	-0.005	-0.002	-0.002
44	5:DERX1	34.647	-0.492	13.317	37.122	-0.000	0.002	0.003
	6:DERX2	-32.485	-0.785	-17.634	36.970	-0.002	-0.002	-0.001
	7:DERZ1	18.023	-0.430	41.620	45.357	0.001	0.002	0.002
	8:DERZ2	-15.861	-0.847	-45.937	48.605	-0.004	-0.002	-0.000
	9:DERX3	34.273	-0.256	14.390	37.172	0.000	0.002	0.003
	10:DERX4	-32.859	-0.548	-16.561	36.801	-0.002	-0.002	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	17.649	-0.194	42.692	46.197	0.002	0.002	0.002
	12:DERZ4	-16.235	-0.611	-44.864	47.715	-0.003	-0.002	-0.001
45	5:DERX1	34.970	-0.718	3.671	35.170	-0.000	0.002	0.002
	6:DERX2	-32.666	-1.103	-7.020	33.430	-0.001	-0.001	-0.004
	7:DERZ1	18.300	-0.409	33.022	37.756	0.003	0.002	0.001
	8:DERZ2	-15.996	-1.412	-36.371	39.758	-0.004	-0.002	-0.002
	9:DERX3	34.564	-0.374	4.649	34.877	0.000	0.002	0.002
	10:DERX4	-33.072	-0.759	-6.041	33.628	-0.001	-0.001	-0.003
	11:DERZ3	17.894	-0.065	34.001	38.422	0.003	0.002	0.001
	12:DERZ4	-16.402	-1.068	-35.393	39.024	-0.004	-0.002	-0.002
47	5:DERX1	48.562	-5.141	3.561	48.963	-0.002	0.002	0.000
	6:DERX2	-47.068	-6.784	-6.998	48.066	-0.003	-0.001	-0.000
	7:DERZ1	11.507	0.523	32.761	34.727	-0.000	0.002	0.000
	8:DERZ2	-10.013	-12.448	-36.198	39.566	-0.005	-0.002	-0.000
	9:DERX3	48.206	-2.250	4.554	48.473	-0.001	0.002	0.000
	10:DERX4	-47.423	-3.893	-6.005	47.960	-0.001	-0.001	-0.000
	11:DERZ3	11.151	3.414	33.754	35.712	0.001	0.002	0.000
	12:DERZ4	-10.369	-9.557	-35.205	37.924	-0.003	-0.002	-0.000
48	5:DERX1	42.413	-1.028	3.564	42.575	0.000	0.002	0.003
	6:DERX2	-40.384	-1.302	-6.982	41.003	-0.000	-0.001	-0.003
	7:DERZ1	7.936	-0.699	32.811	33.764	0.003	0.002	0.000
	8:DERZ2	-5.907	-1.631	-36.229	36.744	-0.003	-0.002	-0.000
	9:DERX3	41.997	-0.613	4.553	42.247	0.000	0.002	0.003
	10:DERX4	-40.800	-0.886	-5.993	41.247	-0.000	-0.001	-0.003
	11:DERZ3	7.520	-0.283	33.800	34.627	0.003	0.002	0.000
	12:DERZ4	-6.323	-1.216	-35.240	35.824	-0.003	-0.002	-0.000
49	5:DERX1	42.040	-0.211	13.344	44.107	0.001	0.002	0.004
	6:DERX2	-40.137	-0.849	-17.621	43.842	-0.000	-0.002	-0.001
	7:DERZ1	7.860	-0.016	41.699	42.433	0.003	0.002	0.002
	8:DERZ2	-5.957	-1.044	-45.976	46.372	-0.002	-0.002	0.001
	9:DERX3	41.650	-0.048	14.411	44.072	0.001	0.002	0.003
	10:DERX4	-40.526	-0.686	-16.554	43.782	-0.000	-0.002	-0.002
	11:DERZ3	7.471	0.147	42.766	43.413	0.002	0.002	0.001
	12:DERZ4	-6.347	-0.881	-44.909	45.364	-0.002	-0.002	0.000
50	5:DERX1	45.182	-0.048	13.379	47.122	-0.001	0.002	0.003
	6:DERX2	-43.394	-0.819	-17.702	46.873	-0.001	-0.002	-0.004
	7:DERZ1	8.024	-0.074	41.840	42.602	-0.000	0.002	0.000
	8:DERZ2	-6.236	-0.793	-46.162	46.588	-0.002	-0.002	-0.001
	9:DERX3	44.793	0.069	14.457	47.068	-0.000	0.002	0.003
	10:DERX4	-43.784	-0.701	-16.625	46.839	-0.001	-0.002	-0.004
	11:DERZ3	7.635	0.044	42.917	43.591	0.000	0.002	0.000
	12:DERZ4	-6.625	-0.676	-45.085	45.574	-0.001	-0.002	-0.001
51	5:DERX1	34.961	-0.408	2.975	35.090	-0.002	0.002	0.000
	6:DERX2	-32.661	-3.478	-6.594	33.501	-0.003	-0.001	-0.002
	7:DERZ1	18.292	-1.175	33.500	38.187	0.000	0.002	-0.001
	8:DERZ2	-15.992	-2.710	-37.119	40.508	-0.006	-0.002	-0.002
	9:DERX3	34.556	0.396	3.999	34.789	-0.001	0.002	0.001
	10:DERX4	-33.066	-2.674	-5.570	33.638	-0.002	-0.001	-0.002
	11:DERZ3	17.887	-0.372	34.524	38.884	0.001	0.002	-0.000
	12:DERZ4	-16.397	-1.906	-36.095	39.690	-0.004	-0.002	-0.001
53	5:DERX1	54.772	-0.916	4.023	54.927	-0.000	0.003	0.003
	6:DERX2	-47.124	-1.295	-8.844	47.964	-0.001	-0.001	-0.004
	7:DERZ1	30.338	-0.493	45.117	54.371	0.000	0.004	0.001
	8:DERZ2	-22.690	-1.719	-49.938	54.878	-0.002	-0.002	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	53.107	-0.504	5.380	53.381	-0.000	0.002	0.003
	10:DERX4	-48.788	-0.883	-7.487	49.367	-0.001	-0.001	-0.004
	11:DERZ3	28.673	-0.081	46.474	54.608	0.001	0.003	0.001
	12:DERZ4	-24.355	-1.306	-48.581	54.360	-0.002	-0.003	-0.002
54	5:DERX1	63.337	-1.302	4.111	63.483	0.000	0.002	-0.000
	6:DERX2	-60.180	-1.593	-8.922	60.858	-0.000	-0.002	-0.001
	7:DERZ1	11.908	-0.345	46.012	47.529	0.000	0.003	-0.000
	8:DERZ2	-8.751	-2.551	-50.823	51.634	-0.000	-0.002	-0.000
	9:DERX3	62.623	-0.741	5.476	62.867	0.000	0.002	0.000
	10:DERX4	-60.893	-1.032	-7.558	61.369	-0.000	-0.002	-0.000
	11:DERZ3	11.194	0.216	47.376	48.681	0.000	0.003	-0.000
	12:DERZ4	-9.464	-1.990	-49.459	50.395	-0.000	-0.002	-0.000
55	5:DERX1	62.806	-0.987	15.882	64.791	0.002	0.002	0.003
	6:DERX2	-59.806	-2.011	-25.525	65.056	-0.001	-0.002	-0.002
	7:DERZ1	11.793	-0.749	59.072	60.242	0.005	0.003	0.001
	8:DERZ2	-8.793	-2.248	-68.715	69.311	-0.004	-0.003	-0.000
	9:DERX3	62.134	-0.365	18.274	64.766	0.002	0.002	0.002
	10:DERX4	-60.478	-1.389	-23.133	64.766	-0.001	-0.002	-0.002
	11:DERZ3	11.120	-0.128	61.464	62.462	0.005	0.003	0.001
	12:DERZ4	-9.465	-1.627	-66.323	67.015	-0.004	-0.003	-0.001
60	5:DERX1	56.772	-2.935	5.405	57.104	0.003	0.002	-0.000
	6:DERX2	-53.293	-6.485	-14.483	55.605	0.001	-0.002	-0.001
	7:DERZ1	15.400	-1.758	49.002	51.395	0.002	0.002	0.000
	8:DERZ2	-11.921	-7.663	-58.080	59.784	0.001	-0.002	-0.002
	9:DERX3	55.896	-1.317	7.572	56.422	0.002	0.002	0.000
	10:DERX4	-54.168	-4.867	-12.317	55.763	0.000	-0.002	-0.001
	11:DERZ3	14.525	-0.140	51.168	53.190	0.002	0.002	0.001
	12:DERZ4	-12.797	-6.044	-55.913	57.676	0.000	-0.002	-0.002
61	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.001
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.004	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
62	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
63	5:DERX1	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
64	5:DERX1	0.000	0.000	0.000	0.000	0.002	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
65	5:DERX1	0.000	0.000	0.000	0.000	-0.000	0.000	0.003
	6:DERX2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
66	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.004	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.004	-0.000	-0.001
81	5:DERX1	18.680	-0.495	2.922	18.914	0.000	0.001	0.002
	6:DERX2	-18.066	-0.624	-4.481	18.624	-0.001	-0.001	-0.002
	7:DERZ1	9.682	-0.470	18.789	21.142	0.003	0.001	0.001
	8:DERZ2	-9.068	-0.649	-20.348	22.286	-0.004	-0.001	-0.001
	9:DERX3	18.616	-0.271	3.350	18.917	0.000	0.001	0.002
	10:DERX4	-18.130	-0.399	-4.053	18.582	-0.001	-0.001	-0.002
	11:DERZ3	9.618	-0.245	19.217	21.491	0.003	0.001	0.001
	12:DERZ4	-9.132	-0.425	-19.919	21.917	-0.004	-0.001	-0.001
82	5:DERX1	21.692	-0.615	2.926	21.897	0.001	0.001	0.003
	6:DERX2	-21.163	-0.829	-4.469	21.646	-0.000	-0.001	-0.002
	7:DERZ1	3.952	-0.170	18.793	19.204	0.003	0.001	0.001
	8:DERZ2	-3.423	-1.274	-20.335	20.661	-0.003	-0.001	-0.000
	9:DERX3	21.599	-0.361	3.351	21.861	0.001	0.001	0.002
	10:DERX4	-21.256	-0.574	-4.044	21.645	-0.000	-0.001	-0.002
	11:DERZ3	3.859	0.085	19.218	19.601	0.003	0.001	0.000
	12:DERZ4	-3.516	-1.019	-19.910	20.244	-0.003	-0.001	-0.000
83	5:DERX1	23.409	-0.455	2.917	23.595	0.000	0.001	0.002
	6:DERX2	-22.917	-0.820	-4.478	23.365	-0.001	-0.001	-0.002
	7:DERZ1	4.263	0.001	18.789	19.266	0.003	0.001	0.000
	8:DERZ2	-3.771	-1.276	-20.349	20.735	-0.004	-0.001	-0.000
	9:DERX3	23.303	-0.207	3.346	23.543	0.001	0.001	0.002
	10:DERX4	-23.024	-0.573	-4.049	23.384	-0.001	-0.001	-0.002
	11:DERZ3	4.157	0.248	19.218	19.664	0.004	0.001	0.000
	12:DERZ4	-3.878	-1.028	-19.920	20.320	-0.004	-0.001	-0.000
84	5:DERX1	21.682	-0.194	7.032	22.794	0.001	0.001	0.002
	6:DERX2	-21.140	-0.614	-8.632	22.843	-0.001	-0.001	-0.003
	7:DERZ1	3.955	-0.043	22.016	22.368	0.004	0.001	-0.000
	8:DERZ2	-3.413	-0.766	-23.616	23.873	-0.004	-0.001	-0.001
	9:DERX3	21.586	-0.067	7.434	22.830	0.001	0.001	0.002
	10:DERX4	-21.236	-0.487	-8.230	22.780	-0.001	-0.001	-0.003
	11:DERZ3	3.859	0.084	22.418	22.748	0.004	0.001	0.000
	12:DERZ4	-3.509	-0.639	-23.214	23.486	-0.004	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
85	5:DERX1	23.379	-0.621	7.032	24.422	0.000	0.001	0.004
	6:DERX2	-22.905	-1.051	-8.624	24.497	-0.002	-0.001	-0.004
	7:DERZ1	4.255	-0.316	22.015	22.424	0.002	0.001	0.001
	8:DERZ2	-3.781	-1.356	-23.606	23.946	-0.004	-0.001	-0.001
	9:DERX3	23.277	-0.273	7.432	24.436	0.001	0.001	0.004
	10:DERX4	-23.007	-0.703	-8.224	24.443	-0.001	-0.001	-0.004
	11:DERZ3	4.153	0.032	22.415	22.796	0.003	0.001	0.001
	12:DERZ4	-3.883	-1.008	-23.206	23.551	-0.003	-0.001	-0.001
86	5:DERX1	18.688	-0.429	7.034	19.973	0.001	0.001	0.000
	6:DERX2	-18.061	-0.580	-8.634	20.027	-0.002	-0.001	-0.001
	7:DERZ1	9.688	-0.344	22.021	24.061	0.003	0.001	0.000
	8:DERZ2	-9.061	-0.665	-23.621	25.308	-0.004	-0.001	-0.001
	9:DERX3	18.621	-0.247	7.436	20.052	0.001	0.001	0.001
	10:DERX4	-18.128	-0.398	-8.233	19.914	-0.001	-0.001	-0.001
	11:DERZ3	9.621	-0.162	22.423	24.400	0.003	0.001	0.000
	12:DERZ4	-9.128	-0.483	-23.220	24.954	-0.004	-0.001	-0.001
87	5:DERX1	45.869	-0.715	5.091	46.156	0.000	0.002	0.001
	6:DERX2	-44.152	-1.313	-9.038	45.087	-0.001	-0.002	-0.002
	7:DERZ1	8.561	-0.029	35.951	36.956	0.002	0.002	0.000
	8:DERZ2	-6.844	-2.000	-39.899	40.531	-0.003	-0.002	-0.000
	9:DERX3	45.488	-0.325	6.140	45.902	0.000	0.002	0.001
	10:DERX4	-44.533	-0.923	-7.989	45.253	-0.001	-0.002	-0.002
	11:DERZ3	8.181	0.361	37.000	37.895	0.002	0.002	0.000
	12:DERZ4	-7.225	-1.610	-38.849	39.548	-0.003	-0.002	-0.000
89	5:DERX1	42.210	-1.006	5.101	42.529	0.000	0.002	0.001
	6:DERX2	-40.240	-1.345	-9.046	41.266	-0.001	-0.002	-0.003
	7:DERZ1	7.914	-0.306	35.962	36.824	0.003	0.002	-0.000
	8:DERZ2	-5.943	-2.045	-39.908	40.400	-0.004	-0.002	-0.001
	9:DERX3	41.806	-0.593	6.148	42.260	0.000	0.002	0.001
	10:DERX4	-40.644	-0.931	-7.998	41.434	-0.001	-0.002	-0.002
	11:DERZ3	7.510	0.108	37.010	37.765	0.003	0.002	-0.000
	12:DERZ4	-6.348	-1.631	-38.860	39.409	-0.003	-0.002	-0.001
90	5:DERX1	42.111	-4.075	9.178	43.292	0.003	0.002	0.001
	6:DERX2	-40.188	-4.974	-13.363	42.643	0.002	-0.002	-0.000
	7:DERZ1	7.882	-3.783	38.953	39.923	0.003	0.002	0.001
	8:DERZ2	-5.959	-5.266	-43.138	43.865	0.002	-0.002	0.000
	9:DERX3	41.717	-2.393	10.250	43.024	0.002	0.002	0.001
	10:DERX4	-40.582	-3.292	-12.292	42.531	0.001	-0.002	-0.000
	11:DERZ3	7.488	-2.101	40.025	40.773	0.002	0.002	0.000
	12:DERZ4	-6.354	-3.584	-42.066	42.694	0.001	-0.002	0.000
92	5:DERX1	60.024	-1.413	4.004	60.174	0.000	0.002	-0.000
	6:DERX2	-55.560	-1.716	-8.889	56.292	0.000	-0.002	-0.000
	7:DERZ1	12.072	-1.161	45.485	47.074	0.000	0.003	-0.000
	8:DERZ2	-7.607	-1.967	-50.369	50.978	0.000	-0.002	-0.000
	9:DERX3	59.020	-0.852	5.369	59.270	0.000	0.002	-0.000
	10:DERX4	-56.563	-1.155	-7.524	57.073	0.000	-0.002	-0.000
	11:DERZ3	11.068	-0.601	46.849	48.143	0.000	0.003	-0.000
	12:DERZ4	-8.611	-1.406	-49.004	49.775	0.000	-0.002	-0.000
98	5:DERX1	59.019	-2.309	9.159	59.770	0.002	0.002	-0.001
	6:DERX2	-55.773	-4.991	-18.505	58.974	0.000	-0.002	-0.002
	7:DERZ1	11.805	-0.377	52.124	53.445	0.003	0.003	0.000
	8:DERZ2	-8.559	-6.923	-61.469	62.447	-0.000	-0.002	-0.002
	9:DERX3	58.226	-1.025	11.417	59.343	0.002	0.002	-0.000
	10:DERX4	-56.566	-3.707	-16.248	58.970	0.000	-0.002	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	11.012	0.907	54.381	55.492	0.002	0.003	0.001
	12:DERZ4	-9.352	-5.639	-59.212	60.211	-0.000	-0.002	-0.002
101	5:DERX1	63.388	-0.802	6.838	63.761	0.000	0.002	0.000
	6:DERX2	-60.125	-1.586	-13.799	61.709	-0.000	-0.002	-0.000
	7:DERZ1	12.008	-0.049	51.273	52.660	0.001	0.003	-0.000
	8:DERZ2	-8.745	-2.339	-58.234	58.933	-0.002	-0.003	-0.000
	9:DERX3	62.652	-0.347	8.655	63.248	0.000	0.002	0.000
	10:DERX4	-60.862	-1.132	-11.982	62.040	-0.000	-0.002	-0.000
	11:DERZ3	11.271	0.405	53.090	54.275	0.001	0.003	0.000
	12:DERZ4	-9.482	-1.884	-56.417	57.239	-0.002	-0.003	-0.000
102	5:DERX1	59.957	-1.273	6.610	60.334	0.001	0.002	0.001
	6:DERX2	-55.421	-1.661	-13.728	57.120	0.000	-0.002	-0.001
	7:DERZ1	12.175	-0.489	50.549	51.997	0.002	0.003	0.000
	8:DERZ2	-7.639	-2.445	-57.667	58.222	-0.001	-0.003	-0.001
	9:DERX3	58.938	-0.754	8.445	59.545	0.001	0.002	0.001
	10:DERX4	-56.440	-1.142	-11.894	57.691	-0.000	-0.002	-0.001
	11:DERZ3	11.156	0.030	52.383	53.558	0.002	0.003	0.000
	12:DERZ4	-8.658	-1.926	-55.832	56.533	-0.001	-0.003	-0.001
103	5:DERX1	0.010	-4.292	0.000	4.292	-0.002	0.000	0.002
	6:DERX2	-0.011	-5.494	-0.000	5.494	-0.003	-0.000	-0.000
	7:DERZ1	0.013	-2.012	0.000	2.012	-0.002	0.000	0.001
	8:DERZ2	-0.013	-7.774	-0.000	7.774	-0.003	-0.000	-0.000
	9:DERX3	0.010	-2.532	0.000	2.532	-0.001	0.000	0.002
	10:DERX4	-0.011	-3.733	-0.000	3.733	-0.002	-0.000	-0.001
	11:DERZ3	0.013	-0.252	0.000	0.252	-0.002	0.000	0.001
	12:DERZ4	-0.013	-6.013	-0.000	6.013	-0.002	-0.000	-0.000
104	5:DERX1	0.012	-0.420	0.000	0.420	-0.001	0.000	0.001
	6:DERX2	-0.012	-2.143	-0.000	2.143	-0.001	-0.000	-0.000
	7:DERZ1	0.015	0.628	0.000	0.628	-0.001	0.000	0.000
	8:DERZ2	-0.015	-3.191	-0.000	3.191	-0.001	-0.000	-0.000
	9:DERX3	0.012	-0.193	0.000	0.193	-0.000	0.000	0.001
	10:DERX4	-0.012	-1.916	-0.000	1.916	-0.001	-0.000	-0.000
	11:DERZ3	0.015	0.855	0.000	0.855	-0.000	0.000	0.000
	12:DERZ4	-0.015	-2.964	-0.000	2.964	-0.001	-0.000	-0.000
105	5:DERX1	0.013	-3.406	0.000	3.406	-0.002	0.000	0.001
	6:DERX2	-0.013	-4.238	-0.000	4.238	-0.002	-0.000	-0.001
	7:DERZ1	0.016	-1.565	0.000	1.565	-0.002	0.000	0.000
	8:DERZ2	-0.016	-6.079	-0.000	6.079	-0.002	-0.000	-0.000
	9:DERX3	0.013	-1.848	0.000	1.848	-0.001	0.000	0.001
	10:DERX4	-0.013	-2.681	-0.000	2.681	-0.001	-0.000	-0.001
	11:DERZ3	0.016	-0.008	0.000	0.018	-0.001	0.000	0.000
	12:DERZ4	-0.016	-4.521	-0.000	4.521	-0.001	-0.000	-0.000
106	5:DERX1	0.013	-2.889	0.000	2.889	-0.002	0.000	0.002
	6:DERX2	-0.013	-4.435	-0.000	4.435	-0.002	-0.000	-0.002
	7:DERZ1	0.016	-1.345	0.000	1.345	-0.002	0.000	0.001
	8:DERZ2	-0.016	-5.979	-0.000	5.979	-0.002	-0.000	-0.001
	9:DERX3	0.013	-1.551	0.000	1.551	-0.001	0.000	0.002
	10:DERX4	-0.013	-3.097	-0.000	3.097	-0.001	-0.000	-0.002
	11:DERZ3	0.016	-0.007	0.000	0.017	-0.001	0.000	0.001
	12:DERZ4	-0.016	-4.641	-0.000	4.641	-0.001	-0.000	-0.001
107	5:DERX1	0.001	-7.289	0.000	7.289	0.000	0.000	0.003
	6:DERX2	-0.001	-8.383	-0.000	8.383	-0.000	-0.000	0.001
	7:DERZ1	0.015	-6.383	0.000	6.383	0.001	0.000	0.003
	8:DERZ2	-0.015	-9.289	-0.000	9.289	-0.001	-0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	0.001	-4.499	0.000	4.499	0.000	0.000	0.002
	10:DERX4	-0.001	-5.594	-0.000	5.594	-0.000	-0.000	0.001
	11:DERZ3	0.015	-3.594	0.000	3.594	0.001	0.000	0.002
	12:DERZ4	-0.015	-6.500	-0.000	6.500	-0.001	-0.000	0.001
108	5:DERX1	0.002	-1.757	0.000	1.757	0.000	0.000	0.001
	6:DERX2	-0.001	-3.116	-0.000	3.116	-0.000	-0.000	-0.000
	7:DERZ1	0.004	-0.915	0.000	0.915	0.000	0.000	0.000
	8:DERZ2	-0.004	-3.957	-0.000	3.957	-0.001	-0.000	-0.000
	9:DERX3	0.002	-1.093	0.000	1.093	0.000	0.000	0.001
	10:DERX4	-0.001	-2.453	-0.000	2.453	-0.000	-0.000	-0.001
	11:DERZ3	0.004	-0.252	0.000	0.252	0.000	0.000	0.000
	12:DERZ4	-0.004	-3.294	-0.000	3.294	-0.001	-0.000	-0.000
109	5:DERX1	0.001	-5.678	0.000	5.678	0.000	0.000	0.001
	6:DERX2	-0.001	-5.940	-0.000	5.940	-0.000	-0.000	-0.001
	7:DERZ1	0.008	-5.066	0.000	5.066	0.001	0.000	0.000
	8:DERZ2	-0.008	-6.553	-0.000	6.553	-0.001	-0.000	-0.000
	9:DERX3	0.001	-3.345	0.000	3.345	0.000	0.000	0.001
	10:DERX4	-0.001	-3.607	-0.000	3.607	-0.000	-0.000	-0.001
	11:DERZ3	0.008	-2.732	0.000	2.732	0.001	0.000	0.000
	12:DERZ4	-0.008	-4.219	-0.000	4.219	-0.001	-0.000	-0.000
110	5:DERX1	0.001	-5.557	0.000	5.557	0.001	0.000	0.002
	6:DERX2	-0.001	-5.855	-0.000	5.855	-0.000	-0.000	-0.002
	7:DERZ1	0.005	-5.218	0.000	5.218	0.001	0.000	0.000
	8:DERZ2	-0.005	-6.194	-0.000	6.194	-0.001	-0.000	-0.000
	9:DERX3	0.001	-3.433	0.000	3.433	0.000	0.000	0.002
	10:DERX4	-0.001	-3.731	-0.000	3.731	-0.000	-0.000	-0.002
	11:DERZ3	0.005	-3.094	0.000	3.094	0.001	0.000	0.000
	12:DERZ4	-0.005	-4.070	-0.000	4.071	-0.001	-0.000	-0.000
111	5:DERX1	0.015	-4.561	0.000	4.561	0.003	0.000	0.005
	6:DERX2	-0.015	-4.929	-0.000	4.929	0.002	-0.000	0.002
	7:DERZ1	0.025	-4.100	0.001	4.100	0.003	0.000	0.004
	8:DERZ2	-0.025	-5.389	-0.001	5.389	0.002	-0.000	0.003
	9:DERX3	0.015	-2.875	0.000	2.875	0.002	0.000	0.003
	10:DERX4	-0.015	-3.243	-0.000	3.243	0.002	-0.000	0.001
	11:DERZ3	0.025	-2.415	0.001	2.415	0.002	0.000	0.003
	12:DERZ4	-0.024	-3.704	-0.001	3.704	0.001	-0.000	0.002
112	5:DERX1	0.014	-1.555	0.000	1.555	0.001	0.000	0.001
	6:DERX2	-0.014	-1.878	-0.000	1.878	0.001	-0.000	-0.001
	7:DERZ1	0.017	-1.338	0.000	1.338	0.001	0.000	0.000
	8:DERZ2	-0.017	-2.095	-0.000	2.095	0.000	-0.000	0.000
	9:DERX3	0.014	-1.016	0.000	1.016	0.001	0.000	0.001
	10:DERX4	-0.014	-1.339	-0.000	1.339	0.000	-0.000	-0.001
	11:DERZ3	0.017	-0.799	0.000	0.799	0.001	0.000	0.000
	12:DERZ4	-0.017	-1.556	-0.000	1.556	0.000	-0.000	-0.000
113	5:DERX1	0.016	-3.163	0.000	3.163	0.002	0.000	0.001
	6:DERX2	-0.015	-3.592	-0.000	3.592	0.002	-0.000	-0.001
	7:DERZ1	0.020	-2.281	0.000	2.281	0.002	0.000	0.000
	8:DERZ2	-0.020	-4.474	-0.000	4.474	0.002	-0.000	-0.000
	9:DERX3	0.016	-1.815	0.000	1.815	0.001	0.000	0.001
	10:DERX4	-0.015	-2.243	-0.000	2.244	0.001	-0.000	-0.001
	11:DERZ3	0.020	-0.933	0.000	0.933	0.002	0.000	0.000
	12:DERZ4	-0.020	-3.125	-0.000	3.126	0.001	-0.000	-0.000
114	5:DERX1	0.015	-2.855	0.000	2.855	0.002	0.000	0.002
	6:DERX2	-0.015	-3.915	-0.000	3.916	0.002	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.019	-1.857	0.000	1.857	0.002	0.000	0.000
	8:DERZ2	-0.018	-4.913	-0.000	4.913	0.002	-0.000	-0.000
	9:DERX3	0.015	-1.581	0.000	1.582	0.001	0.000	0.002
	10:DERX4	-0.015	-2.642	-0.000	2.642	0.001	-0.000	-0.002
	11:DERZ3	0.019	-0.584	0.000	0.584	0.002	0.000	0.000
	12:DERZ4	-0.018	-3.640	-0.000	3.640	0.001	-0.000	-0.000
115	5:DERX1	0.001	0.768	0.000	0.768	-0.000	0.000	0.002
	6:DERX2	-0.001	0.644	-0.000	0.644	-0.000	-0.000	-0.002
	7:DERZ1	0.001	0.999	0.000	0.999	0.000	0.000	0.001
	8:DERZ2	-0.001	0.413	-0.000	0.413	-0.001	-0.000	-0.000
	9:DERX3	0.001	0.444	0.000	0.444	0.000	0.000	0.002
	10:DERX4	-0.001	0.320	-0.000	0.320	-0.000	-0.000	-0.002
	11:DERZ3	0.001	0.675	0.000	0.675	0.001	0.000	0.000
	12:DERZ4	-0.001	0.089	-0.000	0.089	-0.001	-0.000	-0.000
116	5:DERX1	0.000	0.867	0.000	0.867	0.000	0.000	0.001
	6:DERX2	-0.000	0.591	-0.000	0.591	-0.000	-0.000	-0.000
	7:DERZ1	0.001	1.077	0.000	1.077	0.000	0.000	0.000
	8:DERZ2	-0.001	0.381	-0.000	0.381	-0.000	-0.000	0.000
	9:DERX3	0.000	0.538	0.000	0.538	0.000	0.000	0.001
	10:DERX4	-0.000	0.263	-0.000	0.263	-0.000	-0.000	-0.000
	11:DERZ3	0.001	0.749	0.000	0.749	0.000	0.000	0.000
	12:DERZ4	-0.001	0.052	-0.000	0.052	-0.000	-0.000	0.000
117	5:DERX1	0.001	0.535	0.000	0.535	0.000	0.000	0.001
	6:DERX2	-0.001	0.345	-0.000	0.345	-0.000	-0.000	-0.001
	7:DERZ1	0.002	0.950	0.000	0.950	0.001	0.000	0.000
	8:DERZ2	-0.002	-0.069	-0.000	0.069	-0.001	-0.000	-0.000
	9:DERX3	0.001	0.321	0.000	0.321	0.000	0.000	0.001
	10:DERX4	-0.001	0.131	-0.000	0.131	-0.000	-0.000	-0.001
	11:DERZ3	0.002	0.736	0.000	0.736	0.001	0.000	0.000
	12:DERZ4	-0.002	-0.283	-0.000	0.283	-0.001	-0.000	-0.000
118	5:DERX1	0.001	0.586	0.000	0.586	0.000	0.000	0.002
	6:DERX2	-0.001	0.530	-0.000	0.530	-0.000	-0.000	-0.002
	7:DERZ1	0.001	0.603	0.000	0.603	0.001	0.000	0.000
	8:DERZ2	-0.001	0.513	-0.000	0.513	-0.001	-0.000	-0.000
	9:DERX3	0.001	0.320	0.000	0.320	0.000	0.000	0.002
	10:DERX4	-0.001	0.264	-0.000	0.264	-0.000	-0.000	-0.002
	11:DERZ3	0.001	0.337	0.000	0.337	0.001	0.000	0.000
	12:DERZ4	-0.001	0.247	-0.000	0.247	-0.001	-0.000	-0.000
119	5:DERX1	19.911	-2.264	1.887	20.128	-0.001	0.001	0.002
	6:DERX2	-19.286	-3.606	-3.419	19.915	-0.002	-0.001	-0.001
	7:DERZ1	8.164	0.103	16.736	18.621	-0.001	0.001	0.001
	8:DERZ2	-7.539	-5.973	-18.268	20.645	-0.002	-0.001	-0.001
	9:DERX3	19.838	-1.126	2.343	20.007	-0.001	0.001	0.002
	10:DERX4	-19.359	-2.469	-2.962	19.739	-0.001	-0.001	-0.002
	11:DERZ3	8.091	1.240	17.192	19.041	-0.001	0.001	0.001
	12:DERZ4	-7.612	-4.835	-17.811	19.964	-0.001	-0.001	-0.001
120	5:DERX1	19.814	-1.689	11.589	23.016	-0.001	0.001	0.000
	6:DERX2	-19.210	-3.303	-13.254	23.571	-0.001	-0.001	0.000
	7:DERZ1	8.115	-0.369	26.128	27.362	-0.001	0.001	0.000
	8:DERZ2	-7.511	-4.623	-27.793	29.159	-0.001	-0.001	0.000
	9:DERX3	19.739	-0.994	11.967	23.105	-0.001	0.001	0.000
	10:DERX4	-19.284	-2.609	-12.876	23.334	-0.001	-0.001	0.000
	11:DERZ3	8.040	0.326	26.506	27.701	-0.000	0.001	0.000
	12:DERZ4	-7.585	-3.928	-27.415	28.715	-0.001	-0.001	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
121	5:DERX1	19.929	-3.198	2.925	20.395	-0.002	0.001	0.002
	6:DERX2	-19.304	-4.072	-4.480	20.231	-0.002	-0.001	-0.002
	7:DERZ1	8.171	-1.265	18.803	20.541	-0.001	0.001	0.001
	8:DERZ2	-7.547	-6.006	-20.358	22.527	-0.002	-0.001	-0.001
	9:DERX3	19.855	-1.757	3.353	20.213	-0.001	0.001	0.002
	10:DERX4	-19.378	-2.630	-4.053	19.971	-0.001	-0.001	-0.002
	11:DERZ3	8.098	0.177	19.230	20.867	-0.001	0.001	0.001
	12:DERZ4	-7.621	-4.564	-19.930	21.820	-0.001	-0.001	-0.001
122	5:DERX1	19.923	-1.301	7.036	21.169	-0.001	0.001	0.001
	6:DERX2	-19.298	-2.857	-8.636	21.335	-0.001	-0.001	-0.002
	7:DERZ1	8.168	0.174	22.028	23.495	-0.000	0.001	-0.000
	8:DERZ2	-7.543	-4.332	-23.628	25.179	-0.001	-0.001	-0.001
	9:DERX3	19.849	-0.543	7.438	21.204	-0.000	0.001	0.001
	10:DERX4	-19.372	-2.099	-8.235	21.154	-0.001	-0.001	-0.002
	11:DERZ3	8.094	0.932	22.430	23.864	0.000	0.001	0.000
	12:DERZ4	-7.617	-3.574	-23.227	24.704	-0.001	-0.001	-0.001
123	5:DERX1	21.089	-3.893	1.890	21.529	0.000	0.001	0.002
	6:DERX2	-20.451	-5.008	-3.409	21.330	-0.000	-0.001	-0.001
	7:DERZ1	6.698	-3.785	16.738	18.421	0.002	0.001	0.002
	8:DERZ2	-6.060	-5.117	-18.257	19.906	-0.002	-0.001	-0.000
	9:DERX3	21.005	-2.209	2.344	21.251	0.000	0.001	0.001
	10:DERX4	-20.535	-3.324	-2.955	21.011	-0.000	-0.001	-0.001
	11:DERZ3	6.614	-2.101	17.192	18.540	0.002	0.001	0.001
	12:DERZ4	-6.144	-3.433	-17.803	19.143	-0.002	-0.001	-0.001
124	5:DERX1	20.902	-2.981	11.583	24.082	0.000	0.001	0.001
	6:DERX2	-20.322	-4.140	-13.250	24.611	-0.000	-0.001	0.000
	7:DERZ1	6.624	-1.946	26.119	27.016	0.001	0.001	0.001
	8:DERZ2	-6.044	-5.175	-27.786	28.903	-0.001	-0.001	0.001
	9:DERX3	20.820	-1.934	11.962	24.090	0.000	0.001	0.001
	10:DERX4	-20.403	-3.093	-12.871	24.321	-0.000	-0.001	0.000
	11:DERZ3	6.543	-0.899	26.498	27.309	0.001	0.001	0.000
	12:DERZ4	-6.125	-4.129	-27.407	28.385	-0.001	-0.001	0.000
125	5:DERX1	21.118	-5.419	2.927	21.998	0.000	0.001	0.002
	6:DERX2	-20.489	-5.522	-4.478	21.687	-0.000	-0.001	-0.002
	7:DERZ1	6.706	-5.296	18.808	20.658	0.002	0.001	0.001
	8:DERZ2	-6.076	-5.645	-20.359	21.984	-0.002	-0.001	-0.001
	9:DERX3	21.035	-3.285	3.354	21.552	0.000	0.001	0.002
	10:DERX4	-20.572	-3.388	-4.051	21.239	-0.000	-0.001	-0.002
	11:DERZ3	6.623	-3.162	19.235	20.587	0.002	0.001	0.001
	12:DERZ4	-6.160	-3.511	-19.932	21.156	-0.002	-0.001	-0.001
126	5:DERX1	21.113	-2.633	7.037	22.410	0.001	0.001	0.001
	6:DERX2	-20.488	-3.117	-8.637	22.452	-0.000	-0.001	-0.002
	7:DERZ1	6.703	-2.251	22.029	23.136	0.002	0.001	-0.000
	8:DERZ2	-6.078	-3.500	-23.630	24.649	-0.002	-0.001	-0.001
	9:DERX3	21.030	-1.595	7.438	22.364	0.001	0.001	0.001
	10:DERX4	-20.571	-2.080	-8.235	22.255	-0.001	-0.001	-0.002
	11:DERZ3	6.620	-1.213	22.431	23.419	0.002	0.001	0.000
	12:DERZ4	-6.161	-2.462	-23.228	24.157	-0.002	-0.001	-0.001
127	5:DERX1	21.449	-2.385	1.892	21.664	0.002	0.001	0.002
	6:DERX2	-20.868	-2.959	-3.399	21.349	0.001	-0.001	-0.002
	7:DERZ1	5.108	-0.554	16.733	17.504	0.002	0.001	0.001
	8:DERZ2	-4.527	-4.789	-18.240	19.394	0.001	-0.001	-0.001
	9:DERX3	21.360	-1.406	2.345	21.535	0.001	0.001	0.002
	10:DERX4	-20.957	-1.981	-2.946	21.256	0.001	-0.001	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	5.019	0.424	17.186	17.909	0.001	0.001	0.001
	12:DERZ4	-4.616	-3.811	-17.787	18.767	0.000	-0.001	-0.001
128	5:DERX1	21.315	-2.279	11.575	24.362	0.001	0.001	0.001
	6:DERX2	-20.762	-2.579	-13.244	24.761	0.001	-0.001	0.000
	7:DERZ1	5.066	-2.153	26.105	26.679	0.002	0.001	0.001
	8:DERZ2	-4.513	-2.706	-27.773	28.267	0.000	-0.001	0.001
	9:DERX3	21.227	-1.537	11.955	24.411	0.001	0.001	0.001
	10:DERX4	-20.849	-1.836	-12.864	24.567	0.000	-0.001	0.000
	11:DERZ3	4.979	-1.410	26.484	26.985	0.001	0.001	0.001
	12:DERZ4	-4.600	-1.963	-27.393	27.846	0.000	-0.001	0.000
129	5:DERX1	21.451	-2.879	2.927	21.841	0.002	0.001	0.002
	6:DERX2	-20.872	-3.897	-4.474	21.699	0.002	-0.001	-0.002
	7:DERZ1	5.108	-0.697	18.805	19.499	0.002	0.001	0.001
	8:DERZ2	-4.529	-6.079	-20.351	21.717	0.001	-0.001	-0.000
	9:DERX3	21.362	-1.590	3.353	21.682	0.001	0.001	0.002
	10:DERX4	-20.960	-2.607	-4.048	21.506	0.001	-0.001	-0.002
	11:DERZ3	5.019	0.592	19.230	19.884	0.001	0.001	0.001
	12:DERZ4	-4.617	-4.789	-19.925	21.007	0.001	-0.001	-0.000
130	5:DERX1	21.437	-0.468	7.035	22.566	0.001	0.001	0.002
	6:DERX2	-20.857	-2.808	-8.635	22.748	0.001	-0.001	-0.003
	7:DERZ1	5.105	1.582	22.025	22.664	0.001	0.001	-0.000
	8:DERZ2	-4.525	-4.858	-23.625	24.540	0.001	-0.001	-0.001
	9:DERX3	21.348	0.097	7.437	22.606	0.001	0.001	0.002
	10:DERX4	-20.946	-2.243	-8.233	22.617	0.000	-0.001	-0.003
	11:DERZ3	5.016	2.147	22.427	23.081	0.001	0.001	0.000
	12:DERZ4	-4.614	-4.293	-23.223	24.063	0.000	-0.001	-0.001
131	5:DERX1	22.770	-0.488	1.887	22.853	0.000	0.001	0.001
	6:DERX2	-22.250	-0.761	-3.400	22.521	-0.000	-0.001	-0.001
	7:DERZ1	3.800	-0.574	16.711	17.147	0.001	0.001	0.000
	8:DERZ2	-3.280	-0.675	-18.224	18.529	-0.001	-0.001	0.000
	9:DERX3	22.667	-0.296	2.342	22.789	0.000	0.001	0.001
	10:DERX4	-22.353	-0.569	-2.944	22.553	-0.000	-0.001	-0.001
	11:DERZ3	3.697	-0.382	17.166	17.564	0.001	0.001	0.000
	12:DERZ4	-3.383	-0.483	-17.768	18.094	-0.001	-0.001	-0.000
132	5:DERX1	22.690	0.530	11.565	25.473	-0.000	0.001	0.001
	6:DERX2	-22.185	-0.084	-13.244	25.837	-0.000	-0.001	0.000
	7:DERZ1	3.784	0.709	26.088	26.370	-0.000	0.001	0.001
	8:DERZ2	-3.279	-0.264	-27.766	27.960	-0.000	-0.001	0.000
	9:DERX3	22.590	0.367	11.948	25.558	-0.000	0.001	0.001
	10:DERX4	-22.285	-0.247	-12.861	25.731	-0.000	-0.001	0.000
	11:DERZ3	3.684	0.547	26.470	26.731	0.000	0.001	0.001
	12:DERZ4	-3.379	-0.426	-27.383	27.594	-0.000	-0.001	0.000
133	5:DERX1	22.740	-0.475	2.922	22.932	0.000	0.001	0.002
	6:DERX2	-22.228	-0.664	-4.475	22.684	-0.000	-0.001	-0.002
	7:DERZ1	3.793	-0.014	18.794	19.173	0.001	0.001	0.000
	8:DERZ2	-3.281	-1.125	-20.347	20.641	-0.001	-0.001	-0.000
	9:DERX3	22.639	-0.286	3.349	22.887	0.000	0.001	0.002
	10:DERX4	-22.329	-0.475	-4.047	22.698	-0.000	-0.001	-0.002
	11:DERZ3	3.692	0.174	19.221	19.574	0.001	0.001	0.000
	12:DERZ4	-3.383	-0.936	-19.920	20.227	-0.001	-0.001	-0.000
134	5:DERX1	22.719	-0.516	7.033	23.788	0.000	0.001	0.003
	6:DERX2	-22.211	-0.854	-8.629	23.844	-0.000	-0.001	-0.004
	7:DERZ1	3.790	-0.559	22.020	22.351	0.001	0.001	0.000
	8:DERZ2	-3.282	-0.811	-23.615	23.856	-0.001	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	22.618	-0.284	7.434	23.810	0.000	0.001	0.003
	10:DERX4	-22.312	-0.623	-8.228	23.789	-0.000	-0.001	-0.004
	11:DERZ3	3.689	-0.328	22.421	22.725	0.001	0.001	0.000
	12:DERZ4	-3.382	-0.579	-23.215	23.467	-0.001	-0.001	-0.001
135	5:DERX1	37.642	-2.475	13.326	40.008	-0.001	0.002	0.003
	6:DERX2	-35.544	-3.735	-17.633	39.852	-0.001	-0.002	-0.001
	7:DERZ1	15.137	-1.288	41.647	44.331	-0.001	0.002	0.002
	8:DERZ2	-13.038	-4.922	-45.954	48.021	-0.001	-0.002	-0.000
	9:DERX3	37.262	-1.280	14.397	39.967	-0.000	0.002	0.003
	10:DERX4	-35.924	-2.540	-16.562	39.639	-0.001	-0.002	-0.002
	11:DERZ3	14.756	-0.092	42.718	45.195	-0.000	0.002	0.001
	12:DERZ4	-13.418	-3.727	-44.883	46.994	-0.001	-0.002	-0.000
136	5:DERX1	37.266	-2.569	3.644	37.532	-0.001	0.002	0.002
	6:DERX2	-35.075	-3.280	-7.011	35.919	-0.001	-0.002	-0.002
	7:DERZ1	15.252	-0.570	32.976	36.337	-0.001	0.002	0.001
	8:DERZ2	-13.061	-5.279	-36.342	38.977	-0.001	-0.002	-0.001
	9:DERX3	36.861	-1.317	4.625	37.174	-0.000	0.002	0.002
	10:DERX4	-35.480	-2.028	-6.030	36.046	-0.001	-0.002	-0.002
	11:DERZ3	14.847	0.682	33.957	37.067	-0.000	0.002	0.001
	12:DERZ4	-13.466	-4.027	-35.361	38.052	-0.001	-0.002	-0.001
137	5:DERX1	40.423	-3.739	13.334	42.729	0.001	0.002	0.003
	6:DERX2	-38.393	-3.840	-17.630	42.422	-0.000	-0.002	-0.001
	7:DERZ1	12.391	-3.675	41.670	43.628	0.001	0.002	0.002
	8:DERZ2	-10.361	-3.905	-45.966	47.281	-0.001	-0.002	0.000
	9:DERX3	40.040	-2.308	14.403	42.614	0.001	0.002	0.003
	10:DERX4	-38.776	-2.409	-16.561	42.233	-0.000	-0.002	-0.002
	11:DERZ3	12.008	-2.244	42.739	44.451	0.001	0.002	0.001
	12:DERZ4	-10.744	-2.473	-44.897	46.231	-0.001	-0.002	-0.000
139	5:DERX1	41.297	-1.579	13.340	43.427	0.001	0.001	0.004
	6:DERX2	-39.327	-3.071	-17.626	43.206	0.001	-0.001	-0.001
	7:DERZ1	9.662	-0.511	41.687	42.795	0.001	0.002	0.002
	8:DERZ2	-7.692	-4.138	-45.974	46.796	0.001	-0.002	0.001
	9:DERX3	40.910	-0.723	14.408	43.379	0.001	0.001	0.003
	10:DERX4	-39.715	-2.215	-16.558	43.085	0.000	-0.001	-0.002
	11:DERZ3	9.274	0.345	42.755	43.751	0.001	0.002	0.001
	12:DERZ4	-8.079	-3.282	-44.906	45.744	0.000	-0.002	0.000
141	5:DERX1	44.444	-1.002	3.564	44.598	0.000	0.002	0.001
	6:DERX2	-42.600	-1.221	-6.992	43.187	0.000	-0.001	-0.000
	7:DERZ1	7.633	-0.739	32.793	33.677	0.000	0.002	0.001
	8:DERZ2	-5.788	-1.485	-36.221	36.710	-0.000	-0.002	0.000
	9:DERX3	44.049	-0.607	4.555	44.289	0.000	0.002	0.001
	10:DERX4	-42.995	-0.826	-6.001	43.419	0.000	-0.001	-0.001
	11:DERZ3	7.238	-0.344	33.784	34.552	0.000	0.002	0.000
	12:DERZ4	-6.183	-1.089	-35.230	35.785	-0.000	-0.002	0.000
142	5:DERX1	44.320	0.284	13.369	46.293	-0.000	0.002	0.003
	6:DERX2	-42.489	-0.242	-17.678	46.021	-0.000	-0.002	-0.003
	7:DERZ1	7.618	0.389	41.800	42.490	0.000	0.002	0.001
	8:DERZ2	-5.787	-0.347	-46.109	46.472	-0.001	-0.002	-0.000
	9:DERX3	43.928	0.182	14.443	46.242	0.000	0.002	0.003
	10:DERX4	-42.881	-0.343	-16.604	45.985	-0.000	-0.002	-0.003
	11:DERZ3	7.226	0.288	42.874	43.479	0.000	0.002	0.001
	12:DERZ4	-6.178	-0.449	-45.035	45.459	-0.000	-0.002	-0.000
146	5:DERX1	44.379	-1.035	5.096	44.682	0.000	0.002	0.001
	6:DERX2	-42.546	-1.201	-9.042	43.513	0.000	-0.002	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	7.620	-0.969	35.960	36.772	0.001	0.002	-0.000
	8:DERZ2	-5.787	-1.266	-39.907	40.345	-0.000	-0.002	-0.001
	9:DERX3	43.986	-0.656	6.144	44.418	0.000	0.002	0.001
	10:DERX4	-42.938	-0.822	-7.994	43.684	0.000	-0.002	-0.002
	11:DERZ3	7.228	-0.590	37.009	37.713	0.000	0.002	0.000
	12:DERZ4	-6.180	-0.888	-38.859	39.357	-0.000	-0.002	-0.001
147	5:DERX1	37.726	-10.766	2.708	39.325	-0.003	0.002	-0.002
	6:DERX2	-35.626	-16.270	-6.574	39.713	-0.003	-0.002	-0.003
	7:DERZ1	15.136	-10.339	35.177	39.666	-0.002	0.002	-0.002
	8:DERZ2	-13.036	-16.697	-39.044	44.420	-0.004	-0.002	-0.003
	9:DERX3	37.345	-4.894	3.765	37.852	-0.001	0.002	-0.001
	10:DERX4	-36.007	-10.397	-5.517	37.882	-0.002	-0.002	-0.002
	11:DERZ3	14.755	-4.466	36.234	39.377	-0.000	0.002	-0.001
	12:DERZ4	-13.417	-10.825	-37.986	41.715	-0.003	-0.002	-0.002
148	5:DERX1	40.488	-16.773	5.060	44.116	0.001	0.002	0.000
	6:DERX2	-38.460	-21.582	-9.047	45.019	-0.000	-0.002	-0.000
	7:DERZ1	12.383	-16.780	36.615	42.137	0.001	0.002	0.001
	8:DERZ2	-10.355	-21.575	-40.601	47.129	-0.000	-0.002	-0.001
	9:DERX3	40.105	-8.607	6.125	41.473	0.001	0.002	0.000
	10:DERX4	-38.842	-13.415	-7.982	41.862	-0.000	-0.002	-0.000
	11:DERZ3	12.000	-8.613	37.679	40.471	0.000	0.002	0.001
	12:DERZ4	-10.737	-13.408	-39.536	43.107	-0.000	-0.002	-0.001
149	5:DERX1	41.331	-12.090	7.059	43.638	0.003	0.001	0.002
	6:DERX2	-39.361	-14.471	-11.151	43.394	0.003	-0.001	0.001
	7:DERZ1	9.657	-12.967	37.621	40.948	0.003	0.002	0.003
	8:DERZ2	-7.686	-13.594	-41.712	44.539	0.003	-0.002	0.001
	9:DERX3	40.944	-6.646	8.129	42.269	0.002	0.001	0.001
	10:DERX4	-39.748	-9.027	-10.081	41.988	0.001	-0.001	0.001
	11:DERZ3	9.269	-7.523	38.690	40.490	0.002	0.002	0.002
	12:DERZ4	-8.073	-8.150	-40.643	42.231	0.001	-0.002	0.000
152	5:DERX1	62.640	-3.339	6.640	63.079	0.001	0.002	0.001
	6:DERX2	-59.721	-5.431	-14.468	61.689	-0.001	-0.002	-0.001
	7:DERZ1	11.733	-2.549	51.640	53.018	0.003	0.003	0.000
	8:DERZ2	-8.815	-6.222	-59.469	60.440	-0.003	-0.002	-0.000
	9:DERX3	61.986	-1.935	8.607	62.611	0.001	0.002	0.001
	10:DERX4	-60.375	-4.027	-12.501	61.787	-0.001	-0.002	-0.001
	11:DERZ3	11.080	-1.145	53.608	54.753	0.003	0.003	0.000
	12:DERZ4	-9.469	-4.818	-57.501	58.474	-0.003	-0.002	-0.000
153	5:DERX1	58.819	-1.348	3.968	58.968	0.000	0.002	0.002
	6:DERX2	-54.736	-1.605	-8.836	55.468	0.000	-0.002	-0.001
	7:DERZ1	11.587	-1.025	44.731	46.219	0.001	0.003	0.001
	8:DERZ2	-7.504	-1.929	-49.599	50.201	-0.001	-0.002	-0.000
	9:DERX3	57.911	-0.820	5.328	58.161	0.000	0.002	0.002
	10:DERX4	-55.645	-1.077	-7.476	56.155	-0.000	-0.002	-0.001
	11:DERZ3	10.678	-0.497	46.091	47.315	0.001	0.003	0.001
	12:DERZ4	-8.412	-1.401	-48.239	48.987	-0.001	-0.002	-0.000
154	5:DERX1	62.447	-1.239	3.961	62.585	0.000	0.002	0.001
	6:DERX2	-59.609	-1.523	-8.832	60.279	-0.000	-0.002	-0.001
	7:DERZ1	11.664	-0.277	44.704	46.202	0.001	0.003	0.000
	8:DERZ2	-8.826	-2.485	-49.575	50.416	-0.001	-0.002	-0.000
	9:DERX3	61.812	-0.700	5.322	62.045	0.000	0.002	0.001
	10:DERX4	-60.243	-0.985	-7.471	60.713	-0.000	-0.002	-0.001
	11:DERZ3	11.030	0.261	46.065	47.368	0.001	0.003	0.000
	12:DERZ4	-9.461	-1.946	-48.214	49.172	-0.001	-0.002	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
155	5:DERX1	59.427	-0.778	6.299	59.765	0.000	0.002	0.004
	6:DERX2	-56.538	-1.502	-12.666	57.959	-0.001	-0.002	-0.004
	7:DERZ1	11.165	-0.046	47.383	48.680	0.003	0.003	0.001
	8:DERZ2	-8.275	-2.233	-53.749	54.429	-0.003	-0.002	-0.001
	9:DERX3	58.777	-0.343	7.980	59.317	0.001	0.002	0.004
	10:DERX4	-57.188	-1.067	-10.984	58.244	-0.001	-0.002	-0.004
	11:DERZ3	10.514	0.388	49.064	50.179	0.003	0.003	0.001
	12:DERZ4	-8.926	-1.799	-52.068	52.858	-0.003	-0.002	-0.001
156	5:DERX1	41.321	-9.634	9.177	43.411	0.003	0.001	0.002
	6:DERX2	-39.351	-10.055	-13.368	42.758	0.002	-0.001	0.002
	7:DERZ1	9.662	-9.349	38.967	41.221	0.003	0.002	0.002
	8:DERZ2	-7.691	-10.340	-43.159	45.042	0.002	-0.002	0.002
	9:DERX3	40.934	-5.598	10.249	42.567	0.001	0.001	0.001
	10:DERX4	-39.738	-6.019	-12.295	42.030	0.001	-0.001	0.001
	11:DERZ3	9.274	-5.313	40.040	41.442	0.002	0.002	0.001
	12:DERZ4	-8.079	-6.304	-42.086	43.315	0.001	-0.002	0.001
157	5:DERX1	40.456	-12.596	9.172	43.353	0.000	0.002	0.002
	6:DERX2	-38.427	-13.087	-13.371	42.740	-0.000	-0.002	0.002
	7:DERZ1	12.393	-12.333	38.970	42.712	0.001	0.002	0.002
	8:DERZ2	-10.363	-13.350	-43.169	46.359	-0.000	-0.002	0.002
	9:DERX3	40.073	-7.087	10.246	41.965	0.000	0.002	0.001
	10:DERX4	-38.810	-7.579	-12.297	41.411	-0.000	-0.002	0.001
	11:DERZ3	12.010	-6.825	40.044	42.360	0.000	0.002	0.001
	12:DERZ4	-10.746	-7.841	-42.095	44.147	-0.000	-0.002	0.001
158	5:DERX1	37.679	-9.204	9.163	39.855	-0.003	0.002	0.002
	6:DERX2	-35.581	-10.621	-13.370	39.466	-0.003	-0.002	0.001
	7:DERZ1	15.143	-9.016	38.958	42.759	-0.003	0.002	0.002
	8:DERZ2	-13.045	-10.808	-43.165	46.370	-0.003	-0.002	0.001
	9:DERX3	37.299	-4.854	10.239	38.982	-0.001	0.002	0.001
	10:DERX4	-35.961	-6.271	-12.294	38.518	-0.002	-0.002	0.001
	11:DERZ3	14.763	-4.666	40.034	42.923	-0.001	0.002	0.001
	12:DERZ4	-13.425	-6.458	-42.089	44.648	-0.002	-0.002	0.001
159	5:DERX1	34.725	-1.579	9.151	35.945	-0.003	0.002	0.001
	6:DERX2	-32.540	-3.895	-13.365	35.392	-0.004	-0.002	-0.001
	7:DERZ1	18.078	-1.887	38.928	42.963	-0.002	0.002	0.000
	8:DERZ2	-15.893	-3.587	-43.143	46.117	-0.005	-0.002	-0.000
	9:DERX3	34.345	-0.370	10.228	35.837	-0.002	0.002	0.001
	10:DERX4	-32.920	-2.686	-12.288	35.241	-0.002	-0.002	-0.001
	11:DERZ3	17.698	-0.678	40.006	43.751	-0.000	0.002	0.000
	12:DERZ4	-16.273	-2.378	-42.066	45.166	-0.003	-0.002	-0.000
160	5:DERX1	44.353	-0.767	9.185	45.301	0.001	0.002	0.001
	6:DERX2	-42.522	-2.699	-13.368	44.656	0.000	-0.002	0.000
	7:DERZ1	7.619	-1.535	38.978	39.745	0.001	0.002	0.000
	8:DERZ2	-5.788	-1.930	-43.161	43.590	-0.000	-0.002	0.000
	9:DERX3	43.962	-0.261	10.256	45.143	0.001	0.002	0.000
	10:DERX4	-42.914	-2.193	-12.297	44.695	0.000	-0.002	-0.000
	11:DERZ3	7.227	-1.029	40.049	40.709	0.001	0.002	0.000
	12:DERZ4	-6.180	-1.425	-42.089	42.564	-0.000	-0.002	0.000
161	5:DERX1	45.889	-0.442	9.188	46.801	-0.000	0.002	0.001
	6:DERX2	-44.159	-3.245	-13.370	46.252	-0.001	-0.002	-0.001
	7:DERZ1	8.555	-0.330	38.985	39.914	0.001	0.002	0.000
	8:DERZ2	-6.825	-3.358	-43.167	43.832	-0.003	-0.002	-0.000
	9:DERX3	45.506	0.238	10.259	46.648	0.000	0.002	0.001
	10:DERX4	-44.542	-2.565	-12.299	46.280	-0.001	-0.002	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	8.172	0.351	40.056	40.883	0.001	0.002	0.000
	12:DERZ4	-7.208	-2.677	-42.096	42.793	-0.002	-0.002	-0.000
162	5:DERX1	48.828	-4.349	9.190	49.875	-0.002	0.002	-0.001
	6:DERX2	-47.287	-8.572	-13.372	49.883	-0.003	-0.002	-0.001
	7:DERZ1	11.697	0.405	38.993	40.712	0.000	0.002	-0.001
	8:DERZ2	-10.156	-13.326	-43.175	46.312	-0.005	-0.002	-0.001
	9:DERX3	48.463	-1.261	10.261	49.553	-0.001	0.002	-0.000
	10:DERX4	-47.652	-5.484	-12.301	49.518	-0.002	-0.002	-0.001
	11:DERZ3	11.332	3.493	40.064	41.782	0.001	0.002	-0.000
	12:DERZ4	-10.521	-10.238	-42.104	44.590	-0.003	-0.002	-0.001
163	5:DERX1	0.000	0.000	0.000	0.000	-0.000	0.000	-0.000
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.002
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.001
164	5:DERX1	23.430	-0.197	5.839	24.147	0.001	0.001	0.001
	6:DERX2	-22.921	-0.605	-7.321	24.070	-0.002	-0.001	-0.002
	7:DERZ1	4.269	0.128	16.139	16.695	0.003	0.001	0.001
	8:DERZ2	-3.760	-0.930	-17.622	18.042	-0.004	-0.001	-0.002
	9:DERX3	23.319	-0.029	6.329	24.163	0.001	0.001	0.001
	10:DERX4	-23.032	-0.437	-6.831	24.027	-0.002	-0.001	-0.002
	11:DERZ3	4.159	0.296	16.629	17.144	0.004	0.001	0.001
	12:DERZ4	-3.871	-0.762	-17.131	17.580	-0.004	-0.001	-0.002
165	5:DERX1	45.832	-0.293	11.797	47.327	0.001	0.001	-0.000
	6:DERX2	-44.098	-0.872	-14.671	46.483	-0.001	-0.001	-0.002
	7:DERZ1	8.561	0.156	32.371	33.484	0.002	0.002	0.000
	8:DERZ2	-6.828	-1.321	-35.245	35.924	-0.003	-0.002	-0.002
	9:DERX3	45.446	-0.049	12.726	47.195	0.001	0.001	0.000
	10:DERX4	-44.483	-0.628	-13.743	46.562	-0.001	-0.001	-0.001
	11:DERZ3	8.176	0.400	33.299	34.291	0.002	0.002	0.001
	12:DERZ4	-7.213	-1.078	-34.316	35.083	-0.003	-0.002	-0.001
167	5:DERX1	0.000	-1.025	0.000	1.025	-0.001	0.000	0.000
	6:DERX2	-0.000	-1.713	-0.000	1.713	-0.002	-0.000	-0.001
	7:DERZ1	0.001	0.132	0.000	0.132	-0.000	0.000	0.000
	8:DERZ2	-0.001	-2.870	-0.000	2.870	-0.002	-0.000	-0.001
	9:DERX3	0.000	-0.375	0.000	0.375	-0.000	0.000	0.000
	10:DERX4	-0.000	-1.063	-0.000	1.063	-0.001	-0.000	-0.000
	11:DERZ3	0.001	0.782	0.000	0.782	0.000	0.000	0.000
	12:DERZ4	-0.001	-2.220	-0.000	2.220	-0.002	-0.000	-0.001
168	5:DERX1	23.426	-0.975	4.542	23.882	-0.000	0.001	0.000
	6:DERX2	-22.920	-2.534	-6.055	23.841	-0.002	-0.001	-0.001
	7:DERZ1	4.268	1.263	16.147	16.749	0.001	0.001	0.000
	8:DERZ2	-3.762	-4.772	-17.659	18.676	-0.003	-0.001	-0.001
	9:DERX3	23.316	-0.155	5.025	23.852	0.000	0.001	0.000
	10:DERX4	-23.029	-1.715	-5.572	23.756	-0.001	-0.001	-0.001
	11:DERZ3	4.158	2.083	16.630	17.268	0.002	0.001	0.000
	12:DERZ4	-3.872	-3.953	-17.177	18.046	-0.003	-0.001	-0.001
169	5:DERX1	45.848	-1.527	9.079	46.763	-0.001	0.002	-0.000
	6:DERX2	-44.122	-2.724	-12.086	45.828	-0.001	-0.001	-0.001
	7:DERZ1	8.560	0.467	32.243	33.363	0.001	0.002	-0.000
	8:DERZ2	-6.833	-4.719	-35.250	36.215	-0.003	-0.002	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	45.465	-0.571	10.017	46.559	-0.000	0.002	0.000
	10:DERX4	-44.505	-1.768	-11.147	45.914	-0.001	-0.001	-0.001
	11:DERZ3	8.176	1.423	33.182	34.204	0.001	0.002	0.000
	12:DERZ4	-7.217	-3.763	-34.312	35.264	-0.002	-0.002	-0.001
170	5:DERX1	0.001	-1.159	0.000	1.159	0.001	0.000	0.000
	6:DERX2	-0.001	-1.984	-0.000	1.984	0.001	-0.000	-0.000
	7:DERZ1	0.001	-0.337	0.000	0.337	0.001	0.000	-0.000
	8:DERZ2	-0.001	-2.806	-0.000	2.806	0.001	-0.000	-0.000
	9:DERX3	0.001	-0.639	0.000	0.639	0.001	0.000	0.000
	10:DERX4	-0.001	-1.464	-0.000	1.464	0.001	-0.000	-0.000
	11:DERZ3	0.001	0.183	0.000	0.183	0.001	0.000	0.000
	12:DERZ4	-0.001	-2.286	-0.000	2.286	0.001	-0.000	-0.000
172	5:DERX1	42.592	-2.190	9.077	43.603	0.001	0.001	-0.000
	6:DERX2	-40.560	-3.348	-12.086	42.454	0.001	-0.001	-0.001
	7:DERZ1	7.982	-0.530	32.228	33.206	0.001	0.002	-0.000
	8:DERZ2	-5.950	-5.008	-35.237	36.085	0.001	-0.002	-0.001
	9:DERX3	42.175	-1.063	10.016	43.361	0.001	0.001	-0.000
	10:DERX4	-40.977	-2.220	-11.146	42.524	0.000	-0.001	-0.001
	11:DERZ3	7.564	0.598	33.167	34.024	0.001	0.002	-0.000
	12:DERZ4	-6.367	-3.881	-34.298	35.099	0.000	-0.002	-0.001
173	5:DERX1	0.000	-4.807	0.000	4.807	-0.002	0.000	-0.001
	6:DERX2	-0.000	-6.817	-0.000	6.817	-0.002	-0.000	-0.001
	7:DERZ1	0.003	-1.930	0.000	1.930	-0.001	0.000	-0.001
	8:DERZ2	-0.003	-9.694	-0.000	9.694	-0.003	-0.000	-0.002
	9:DERX3	0.000	-1.874	0.000	1.874	-0.001	0.000	-0.000
	10:DERX4	-0.000	-3.884	-0.000	3.884	-0.001	-0.000	-0.001
	11:DERZ3	0.003	1.003	0.000	1.003	0.000	0.000	-0.000
	12:DERZ4	-0.003	-6.761	-0.000	6.761	-0.002	-0.000	-0.001
174	5:DERX1	24.779	-3.556	4.543	25.441	-0.001	0.001	-0.000
	6:DERX2	-24.288	-8.391	-6.055	26.401	-0.003	-0.001	-0.001
	7:DERZ1	5.827	2.713	16.153	17.385	0.000	0.001	-0.000
	8:DERZ2	-5.337	-14.660	-17.665	23.568	-0.004	-0.001	-0.001
	9:DERX3	24.656	-0.372	5.025	25.166	-0.000	0.001	0.000
	10:DERX4	-24.411	-5.207	-5.572	25.575	-0.002	-0.001	-0.001
	11:DERZ3	5.705	5.897	16.635	18.548	0.002	0.001	0.000
	12:DERZ4	-5.460	-11.475	-17.182	21.371	-0.003	-0.001	-0.001
175	5:DERX1	48.546	-3.895	9.080	49.541	-0.001	0.002	-0.000
	6:DERX2	-47.053	-6.994	-12.087	49.082	-0.002	-0.001	-0.001
	7:DERZ1	11.506	1.309	32.251	34.268	0.000	0.002	-0.001
	8:DERZ2	-10.013	-12.197	-35.259	38.629	-0.003	-0.002	-0.001
	9:DERX3	48.191	-1.231	10.019	49.236	-0.000	0.002	-0.000
	10:DERX4	-47.409	-4.331	-11.149	48.894	-0.001	-0.002	-0.001
	11:DERZ3	11.151	3.972	33.190	35.238	0.001	0.002	-0.000
	12:DERZ4	-10.369	-9.534	-34.320	37.098	-0.002	-0.002	-0.001
176	5:DERX1	0.000	-2.125	0.000	2.125	-0.001	0.000	-0.001
	6:DERX2	-0.000	-3.985	-0.000	3.985	-0.002	-0.000	-0.002
	7:DERZ1	0.003	0.085	0.001	0.085	-0.000	0.000	-0.001
	8:DERZ2	-0.003	-6.196	-0.000	6.196	-0.003	-0.000	-0.002
	9:DERX3	0.000	-0.576	0.000	0.576	-0.000	0.000	-0.000
	10:DERX4	-0.000	-2.436	-0.000	2.436	-0.001	-0.000	-0.001
	11:DERZ3	0.003	1.635	0.001	1.635	0.001	0.000	-0.000
	12:DERZ4	-0.003	-4.647	-0.000	4.647	-0.002	-0.000	-0.001
177	5:DERX1	24.777	-0.422	5.844	25.460	-0.000	0.001	-0.001
	6:DERX2	-24.284	-6.910	-7.325	26.289	-0.003	-0.001	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	5.825	5.420	16.147	18.001	0.002	0.001	-0.001
	8:DERZ2	-5.333	-12.751	-17.627	22.400	-0.005	-0.001	-0.002
	9:DERX3	24.653	1.506	6.334	25.498	0.000	0.001	-0.000
	10:DERX4	-24.408	-4.982	-6.835	25.831	-0.002	-0.001	-0.001
	11:DERZ3	5.702	7.347	16.636	19.059	0.003	0.001	-0.000
	12:DERZ4	-5.456	-10.824	-17.138	20.991	-0.004	-0.001	-0.001
178	5:DERX1	48.529	-1.147	11.812	49.959	-0.001	0.002	-0.001
	6:DERX2	-47.037	-5.321	-14.685	49.562	-0.002	-0.001	-0.002
	7:DERZ1	11.503	3.328	32.386	34.529	0.001	0.002	-0.001
	8:DERZ2	-10.011	-9.796	-35.258	37.938	-0.004	-0.002	-0.002
	9:DERX3	48.174	0.455	12.740	49.832	0.000	0.002	-0.000
	10:DERX4	-47.392	-3.719	-13.757	49.488	-0.001	-0.001	-0.001
	11:DERZ3	11.148	4.930	33.314	35.474	0.002	0.002	-0.000
	12:DERZ4	-10.366	-8.194	-34.331	36.786	-0.003	-0.002	-0.001
179	5:DERX1	0.001	-7.112	0.000	7.112	-0.000	0.000	0.002
	6:DERX2	-0.001	-8.315	-0.000	8.315	-0.001	-0.000	0.001
	7:DERZ1	0.009	-5.818	0.000	5.818	0.000	0.000	0.002
	8:DERZ2	-0.009	-9.610	-0.000	9.610	-0.002	-0.000	0.001
	9:DERX3	0.001	-4.363	0.000	4.363	-0.000	0.000	0.001
	10:DERX4	-0.001	-5.567	-0.000	5.567	-0.001	-0.000	0.000
	11:DERZ3	0.009	-3.069	0.000	3.069	0.001	0.000	0.002
	12:DERZ4	-0.009	-6.861	-0.000	6.861	-0.001	-0.000	0.000
180	5:DERX1	20.909	-3.783	1.889	21.332	-0.000	0.001	0.001
	6:DERX2	-20.265	-5.062	-3.411	21.164	-0.000	-0.001	-0.000
	7:DERZ1	6.999	-3.111	16.738	18.407	0.001	0.001	0.002
	8:DERZ2	-6.356	-5.734	-18.260	20.167	-0.002	-0.001	-0.000
	9:DERX3	20.826	-2.102	2.344	21.063	0.000	0.001	0.001
	10:DERX4	-20.347	-3.381	-2.956	20.837	-0.000	-0.001	-0.000
	11:DERZ3	6.917	-1.429	17.193	18.587	0.001	0.001	0.001
	12:DERZ4	-6.438	-4.053	-17.805	19.362	-0.002	-0.001	-0.001
181	5:DERX1	39.566	-3.467	3.623	39.882	0.000	0.002	0.002
	6:DERX2	-37.206	-4.221	-7.003	38.094	-0.000	-0.002	0.000
	7:DERZ1	13.313	-2.990	32.936	35.650	0.001	0.002	0.002
	8:DERZ2	-10.953	-4.699	-36.316	38.222	-0.001	-0.002	0.000
	9:DERX3	39.111	-1.820	4.606	39.424	0.000	0.002	0.001
	10:DERX4	-37.660	-2.575	-6.020	38.225	-0.000	-0.002	-0.000
	11:DERZ3	12.858	-1.343	33.919	36.299	0.001	0.002	0.001
	12:DERZ4	-11.407	-3.052	-35.333	37.254	-0.001	-0.002	-0.000
182	5:DERX1	0.002	-6.089	0.000	6.089	0.001	0.000	-0.002
	6:DERX2	-0.002	-6.959	-0.000	6.959	0.001	-0.000	-0.002
	7:DERZ1	0.008	-5.569	0.001	5.569	0.001	0.000	-0.002
	8:DERZ2	-0.008	-7.479	-0.001	7.479	0.001	-0.000	-0.003
	9:DERX3	0.002	-3.667	0.000	3.667	0.001	0.000	-0.001
	10:DERX4	-0.002	-4.537	-0.000	4.537	0.000	-0.000	-0.002
	11:DERZ3	0.008	-3.147	0.001	3.147	0.001	0.000	-0.001
	12:DERZ4	-0.008	-5.057	-0.001	5.057	0.000	-0.000	-0.002
183	5:DERX1	20.886	-3.416	4.554	21.648	0.001	0.001	-0.001
	6:DERX2	-20.236	-6.002	-6.065	21.962	-0.000	-0.001	-0.002
	7:DERZ1	6.992	-0.550	16.139	17.597	0.001	0.001	-0.000
	8:DERZ2	-6.343	-8.867	-17.650	20.746	-0.000	-0.001	-0.002
	9:DERX3	20.803	-1.620	5.036	21.465	0.001	0.001	-0.000
	10:DERX4	-20.319	-4.206	-5.583	21.488	-0.000	-0.001	-0.001
	11:DERZ3	6.910	1.246	16.621	18.043	0.001	0.001	0.000
	12:DERZ4	-6.426	-7.072	-17.168	19.648	-0.001	-0.001	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
184	5:DERX1	39.595	-4.954	9.086	40.925	0.001	0.001	-0.001
	6:DERX2	-37.222	-7.280	-12.092	39.808	0.000	-0.001	-0.001
	7:DERZ1	13.333	-2.442	32.234	34.968	0.001	0.002	-0.000
	8:DERZ2	-10.959	-9.792	-35.240	38.182	-0.000	-0.002	-0.002
	9:DERX3	39.138	-1.951	10.025	40.449	0.001	0.001	-0.000
	10:DERX4	-37.679	-4.277	-11.153	39.527	-0.000	-0.001	-0.001
	11:DERZ3	12.876	0.561	33.173	35.589	0.001	0.002	0.000
	12:DERZ4	-11.417	-6.789	-34.301	36.783	-0.000	-0.002	-0.001
185	5:DERX1	0.003	-0.935	0.000	0.935	0.001	0.000	-0.002
	6:DERX2	-0.003	-2.378	-0.000	2.378	0.001	-0.000	-0.003
	7:DERZ1	0.008	-0.008	0.000	0.011	0.002	0.000	-0.002
	8:DERZ2	-0.008	-3.305	-0.000	3.305	0.000	-0.000	-0.003
	9:DERX3	0.003	-0.294	0.000	0.294	0.001	0.000	-0.001
	10:DERX4	-0.003	-1.738	-0.000	1.738	0.000	-0.000	-0.002
	11:DERZ3	0.008	0.633	0.000	0.633	0.001	0.000	-0.001
	12:DERZ4	-0.008	-2.664	-0.000	2.664	-0.000	-0.000	-0.002
186	5:DERX1	20.886	0.641	5.826	21.692	0.002	0.001	-0.001
	6:DERX2	-20.235	-4.047	-7.293	21.886	-0.000	-0.001	-0.003
	7:DERZ1	6.992	4.559	16.137	18.168	0.004	0.001	-0.001
	8:DERZ2	-6.341	-7.966	-17.604	20.337	-0.002	-0.001	-0.003
	9:DERX3	20.803	1.239	6.314	21.775	0.001	0.001	-0.000
	10:DERX4	-20.317	-3.449	-6.805	21.703	-0.001	-0.001	-0.002
	11:DERZ3	6.910	5.157	16.625	18.728	0.003	0.001	-0.000
	12:DERZ4	-6.424	-7.368	-17.116	19.711	-0.002	-0.001	-0.002
187	5:DERX1	39.601	-1.050	11.795	41.334	0.002	0.001	-0.001
	6:DERX2	-37.226	-4.913	-14.633	40.299	0.000	-0.001	-0.003
	7:DERZ1	13.336	2.472	32.444	35.165	0.003	0.002	-0.001
	8:DERZ2	-10.961	-8.435	-35.282	37.896	-0.001	-0.002	-0.003
	9:DERX3	39.144	0.371	12.712	41.158	0.001	0.001	-0.000
	10:DERX4	-37.683	-3.492	-13.715	40.253	-0.000	-0.001	-0.002
	11:DERZ3	12.879	3.893	33.362	35.973	0.003	0.002	-0.000
	12:DERZ4	-11.418	-7.014	-34.365	36.885	-0.002	-0.002	-0.002
188	5:DERX1	0.002	0.331	0.000	0.331	0.000	0.000	-0.001
	6:DERX2	-0.002	0.051	-0.000	0.051	-0.000	-0.000	-0.002
	7:DERZ1	0.004	0.434	0.000	0.434	0.000	0.000	-0.002
	8:DERZ2	-0.004	-0.053	-0.000	0.053	-0.000	-0.000	-0.002
	9:DERX3	0.002	0.213	0.000	0.213	0.000	0.000	-0.001
	10:DERX4	-0.002	-0.067	-0.000	0.067	-0.000	-0.000	-0.002
	11:DERZ3	0.004	0.316	0.000	0.316	0.000	0.000	-0.001
	12:DERZ4	-0.004	-0.171	-0.000	0.171	-0.000	-0.000	-0.001
189	5:DERX1	21.815	-0.433	5.836	22.586	0.000	0.001	-0.000
	6:DERX2	-21.247	-1.139	-7.307	22.497	-0.000	-0.001	-0.002
	7:DERZ1	4.321	0.209	16.145	16.715	0.001	0.001	0.001
	8:DERZ2	-3.753	-1.782	-17.616	18.100	-0.001	-0.001	-0.002
	9:DERX3	21.721	-0.167	6.325	22.624	0.000	0.001	0.000
	10:DERX4	-21.340	-0.873	-6.818	22.420	-0.000	-0.001	-0.001
	11:DERZ3	4.228	0.475	16.634	17.169	0.001	0.001	0.001
	12:DERZ4	-3.847	-1.515	-17.128	17.620	-0.001	-0.001	-0.002
190	5:DERX1	42.225	-0.450	11.804	43.846	0.000	0.002	-0.001
	6:DERX2	-40.155	-1.535	-14.650	42.771	-0.000	-0.001	-0.002
	7:DERZ1	8.478	-0.177	32.439	33.529	0.000	0.002	-0.000
	8:DERZ2	-6.408	-1.808	-35.285	35.907	-0.000	-0.002	-0.003
	9:DERX3	41.804	-0.147	12.724	43.698	0.000	0.001	0.000
	10:DERX4	-40.576	-1.232	-13.730	42.854	-0.000	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	8.057	0.126	33.359	34.318	0.000	0.002	0.001
	12:DERZ4	-6.829	-1.505	-34.364	35.069	-0.000	-0.002	-0.002
191	5:DERX1	0.002	-2.024	0.000	2.024	0.002	0.000	-0.000
	6:DERX2	-0.002	-2.638	-0.000	2.638	0.001	-0.000	-0.001
	7:DERZ1	0.004	-1.209	0.000	1.209	0.001	0.000	-0.000
	8:DERZ2	-0.004	-3.453	-0.000	3.453	0.001	-0.000	-0.001
	9:DERX3	0.002	-1.224	0.000	1.224	0.001	0.000	-0.000
	10:DERX4	-0.003	-1.838	-0.000	1.838	0.001	-0.000	-0.001
	11:DERZ3	0.004	-0.409	0.000	0.409	0.001	0.000	-0.000
	12:DERZ4	-0.004	-2.653	-0.000	2.653	0.001	-0.000	-0.001
192	5:DERX1	21.792	-1.757	4.544	22.330	0.001	0.001	-0.000
	6:DERX2	-21.226	-3.210	-6.057	22.306	0.000	-0.001	-0.001
	7:DERZ1	4.313	0.161	16.136	16.703	0.001	0.001	0.000
	8:DERZ2	-3.747	-5.127	-17.649	18.756	0.001	-0.001	-0.002
	9:DERX3	21.699	-0.879	5.027	22.291	0.001	0.001	-0.000
	10:DERX4	-21.320	-2.332	-5.574	22.160	-0.000	-0.001	-0.001
	11:DERZ3	4.220	1.039	16.619	17.177	0.001	0.001	0.001
	12:DERZ4	-3.841	-4.249	-17.166	18.096	0.000	-0.001	-0.002
193	5:DERX1	42.210	-2.721	9.078	43.261	0.001	0.001	-0.001
	6:DERX2	-40.138	-4.002	-12.087	42.109	0.000	-0.001	-0.001
	7:DERZ1	8.474	-1.071	32.226	33.339	0.001	0.002	0.000
	8:DERZ2	-6.401	-5.652	-35.235	36.255	0.001	-0.002	-0.002
	9:DERX3	41.789	-1.312	10.017	42.992	0.001	0.001	-0.000
	10:DERX4	-40.559	-2.593	-11.148	42.143	0.000	-0.001	-0.001
	11:DERZ3	8.052	0.338	33.165	34.131	0.001	0.002	0.000
	12:DERZ4	-6.823	-4.243	-34.296	35.224	0.000	-0.002	-0.002
194	5:DERX1	44.433	-0.994	9.077	45.362	0.001	0.002	0.000
	6:DERX2	-42.581	-1.591	-12.083	44.291	-0.001	-0.001	-0.001
	7:DERZ1	7.631	-1.193	32.231	33.143	0.003	0.002	-0.000
	8:DERZ2	-5.778	-1.393	-35.237	35.734	-0.003	-0.002	-0.001
	9:DERX3	44.037	-0.495	10.015	45.164	0.001	0.001	0.001
	10:DERX4	-42.977	-1.093	-11.145	44.412	-0.001	-0.001	-0.001
	11:DERZ3	7.234	-0.694	33.169	33.956	0.003	0.002	0.000
	12:DERZ4	-6.175	-0.894	-34.298	34.861	-0.003	-0.002	-0.001
195	5:DERX1	22.759	-0.587	4.542	23.215	0.001	0.001	0.001
	6:DERX2	-22.238	-0.932	-6.055	23.067	-0.001	-0.001	-0.001
	7:DERZ1	3.796	-0.636	16.138	16.591	0.003	0.001	0.000
	8:DERZ2	-3.275	-0.883	-17.651	17.974	-0.003	-0.001	-0.001
	9:DERX3	22.656	-0.299	5.025	23.208	0.001	0.001	0.001
	10:DERX4	-22.342	-0.645	-5.572	23.035	-0.001	-0.001	-0.001
	11:DERZ3	3.692	-0.349	16.621	17.029	0.003	0.001	0.000
	12:DERZ4	-3.378	-0.596	-17.168	17.508	-0.003	-0.001	-0.001
196	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.003
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.001
200	5:DERX1	62.449	-2.345	15.352	64.351	-0.000	0.002	0.001
	6:DERX2	-59.621	-4.644	-17.966	62.442	-0.000	-0.002	0.001
	7:DERZ1	11.662	-0.831	44.171	45.692	0.001	0.003	0.001
	8:DERZ2	-8.835	-6.158	-46.785	48.009	-0.001	-0.002	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	61.817	-1.077	16.214	63.917	0.000	0.002	0.001
	10:DERX4	-60.253	-3.376	-17.103	62.724	-0.000	-0.002	0.000
	11:DERZ3	11.030	0.437	45.034	46.367	0.001	0.003	0.001
	12:DERZ4	-9.466	-4.890	-45.923	47.143	-0.001	-0.003	0.000
205	5:DERX1	55.344	-4.159	3.998	55.644	0.000	0.002	0.001
	6:DERX2	-49.709	-4.967	-8.843	50.733	-0.000	-0.002	-0.000
	7:DERZ1	20.246	-4.331	44.915	49.458	0.000	0.003	0.001
	8:DERZ2	-14.612	-4.794	-49.761	52.083	-0.001	-0.002	-0.000
	9:DERX3	54.090	-2.512	5.356	54.413	0.000	0.002	0.001
	10:DERX4	-50.963	-3.320	-7.484	51.617	-0.000	-0.002	-0.001
	11:DERZ3	18.993	-2.684	46.274	50.092	0.000	0.003	0.001
	12:DERZ4	-15.866	-3.147	-48.402	51.033	-0.001	-0.003	-0.000
206	5:DERX1	55.346	-1.066	15.338	57.442	0.001	0.002	-0.001
	6:DERX2	-49.695	-3.331	-17.948	52.942	0.000	-0.002	-0.001
	7:DERZ1	20.244	1.070	44.143	48.575	0.002	0.003	-0.001
	8:DERZ2	-14.593	-5.467	-46.753	49.281	-0.001	-0.002	-0.002
	9:DERX3	54.090	-0.279	16.199	56.464	0.001	0.002	-0.001
	10:DERX4	-50.952	-2.543	-17.087	53.801	0.000	-0.002	-0.001
	11:DERZ3	18.987	1.857	45.004	48.880	0.002	0.003	-0.001
	12:DERZ4	-15.849	-4.679	-45.892	48.776	-0.001	-0.003	-0.001
209	5:DERX1	60.830	-1.176	11.342	61.889	0.000	0.002	0.001
	6:DERX2	-57.462	-1.957	-14.664	59.336	-0.000	-0.002	0.000
	7:DERZ1	10.553	-1.433	43.732	45.010	0.001	0.003	0.001
	8:DERZ2	-7.185	-1.700	-47.054	47.630	-0.001	-0.002	-0.000
	9:DERX3	60.079	-0.582	12.361	61.340	0.000	0.002	0.001
	10:DERX4	-58.213	-1.363	-13.645	59.806	-0.000	-0.002	-0.000
	11:DERZ3	9.802	-0.839	44.752	45.820	0.001	0.003	0.001
	12:DERZ4	-7.936	-1.106	-46.035	46.727	-0.001	-0.002	-0.000
210	5:DERX1	44.456	0.483	11.812	46.001	0.000	0.002	-0.000
	6:DERX2	-42.601	-1.546	-14.673	45.084	-0.000	-0.001	-0.001
	7:DERZ1	7.636	0.299	32.414	33.303	0.000	0.002	-0.000
	8:DERZ2	-5.781	-1.362	-35.275	35.772	-0.000	-0.002	-0.001
	9:DERX3	44.059	0.614	12.737	45.867	0.000	0.002	-0.000
	10:DERX4	-42.998	-1.415	-13.749	45.165	-0.000	-0.001	-0.001
	11:DERZ3	7.239	0.430	33.339	34.118	0.000	0.002	0.000
	12:DERZ4	-6.179	-1.231	-34.350	34.923	-0.000	-0.002	-0.001
211	5:DERX1	60.838	-2.213	15.350	62.783	-0.000	0.002	0.001
	6:DERX2	-57.469	-4.148	-17.964	60.354	-0.000	-0.002	0.001
	7:DERZ1	10.555	-1.443	44.168	45.435	0.000	0.003	0.002
	8:DERZ2	-7.186	-4.917	-46.782	47.585	-0.001	-0.002	0.000
	9:DERX3	60.087	-1.043	16.212	62.244	-0.000	0.002	0.001
	10:DERX4	-58.221	-2.978	-17.101	60.753	-0.000	-0.002	0.000
	11:DERZ3	9.804	-0.274	45.031	46.086	0.000	0.003	0.001
	12:DERZ4	-7.937	-3.748	-45.919	46.751	-0.001	-0.003	-0.000
212	5:DERX1	62.448	-1.068	11.344	63.479	0.000	0.002	0.001
	6:DERX2	-59.620	-3.105	-14.666	61.476	-0.001	-0.002	0.000
	7:DERZ1	11.661	-0.106	43.739	45.267	0.001	0.003	0.001
	8:DERZ2	-8.834	-4.067	-47.061	48.055	-0.002	-0.002	0.000
	9:DERX3	61.816	-0.298	12.364	63.041	0.000	0.002	0.000
	10:DERX4	-60.252	-2.335	-13.647	61.822	-0.001	-0.002	0.000
	11:DERZ3	11.030	0.664	44.758	46.102	0.001	0.003	0.001
	12:DERZ4	-9.465	-3.297	-46.042	47.120	-0.001	-0.003	-0.000
213	5:DERX1	22.761	0.885	5.844	23.516	0.000	0.001	0.000
	6:DERX2	-22.242	-1.564	-7.322	23.468	-0.000	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	3.798	1.373	16.150	16.647	0.000	0.001	0.001
	8:DERZ2	-3.279	-2.051	-17.627	18.047	0.000	-0.001	-0.001
	9:DERX3	22.658	0.943	6.333	23.546	0.000	0.001	0.000
	10:DERX4	-22.345	-1.506	-6.832	23.414	-0.000	-0.001	-0.001
	11:DERZ3	3.695	1.430	16.639	17.104	0.000	0.001	0.001
	12:DERZ4	-3.382	-1.993	-17.138	17.582	0.000	-0.001	-0.001
214	5:DERX1	0.001	-3.579	0.000	3.579	0.001	0.000	-0.002
	6:DERX2	-0.001	-4.253	-0.000	4.253	0.001	-0.000	-0.002
	7:DERZ1	0.002	-3.098	0.000	3.098	0.001	0.000	-0.001
	8:DERZ2	-0.002	-4.734	-0.000	4.734	0.001	-0.000	-0.002
	9:DERX3	0.001	-2.181	0.000	2.181	0.001	0.000	-0.001
	10:DERX4	-0.001	-2.854	-0.000	2.854	0.001	-0.000	-0.001
	11:DERZ3	0.002	-1.700	0.000	1.700	0.001	0.000	-0.001
	12:DERZ4	-0.002	-3.335	-0.000	3.335	0.001	-0.000	-0.002
215	5:DERX1	0.000	0.547	0.000	0.547	0.000	0.000	-0.001
	6:DERX2	-0.000	0.040	-0.000	0.040	-0.000	-0.000	-0.002
	7:DERZ1	0.001	1.116	0.000	1.116	0.000	0.000	-0.001
	8:DERZ2	-0.001	-0.529	-0.000	0.529	-0.000	-0.000	-0.002
	9:DERX3	0.000	0.355	0.000	0.355	0.000	0.000	-0.000
	10:DERX4	-0.000	-0.152	-0.000	0.152	0.000	-0.000	-0.001
	11:DERZ3	0.001	0.924	0.000	0.924	0.000	0.000	-0.000
	12:DERZ4	-0.001	-0.721	-0.000	0.721	0.000	-0.000	-0.001
228	5:DERX1	55.345	-3.326	11.344	56.593	0.001	0.002	-0.001
	6:DERX2	-49.695	-5.615	-14.662	52.116	0.000	-0.002	-0.001
	7:DERZ1	20.243	-1.942	43.747	48.243	0.001	0.003	-0.000
	8:DERZ2	-14.593	-6.999	-47.066	49.771	-0.000	-0.002	-0.001
	9:DERX3	54.088	-1.732	12.362	55.510	0.000	0.002	-0.000
	10:DERX4	-50.951	-4.020	-13.644	52.900	-0.000	-0.002	-0.001
	11:DERZ3	18.987	-0.348	44.765	48.627	0.001	0.003	-0.000
	12:DERZ4	-15.850	-5.405	-46.048	48.998	-0.000	-0.003	-0.001
229	5:DERX1	62.446	-0.235	7.260	62.867	0.000	0.002	0.000
	6:DERX2	-59.615	-2.630	-11.356	60.744	-0.000	-0.002	0.000
	7:DERZ1	11.662	-0.014	43.920	45.442	0.001	0.003	0.000
	8:DERZ2	-8.831	-2.852	-48.017	48.905	-0.001	-0.002	-0.000
	9:DERX3	61.813	0.317	8.450	62.389	0.000	0.002	0.000
	10:DERX4	-60.248	-2.078	-10.166	61.134	-0.000	-0.002	0.000
	11:DERZ3	11.029	0.538	45.111	46.442	0.001	0.003	0.000
	12:DERZ4	-9.463	-2.300	-46.826	47.828	-0.001	-0.003	-0.000
230	5:DERX1	55.344	-4.109	7.263	55.970	0.000	0.002	0.000
	6:DERX2	-49.700	-6.565	-11.353	51.401	-0.000	-0.002	-0.000
	7:DERZ1	20.244	-3.961	43.954	48.554	0.000	0.003	0.001
	8:DERZ2	-14.599	-6.713	-48.045	50.661	-0.000	-0.002	-0.001
	9:DERX3	54.089	-2.203	8.452	54.790	0.000	0.002	0.000
	10:DERX4	-50.955	-4.658	-10.164	52.167	-0.000	-0.002	-0.000
	11:DERZ3	18.988	-2.054	45.144	49.018	0.000	0.003	0.001
	12:DERZ4	-15.855	-4.807	-46.856	49.699	-0.000	-0.003	-0.001
231	5:DERX1	59.809	-0.899	7.260	60.255	0.001	0.002	0.000
	6:DERX2	-56.080	-2.569	-11.357	57.276	0.000	-0.002	-0.000
	7:DERZ1	10.704	-1.062	43.925	45.223	0.001	0.003	0.001
	8:DERZ2	-6.974	-2.406	-48.022	48.585	-0.000	-0.002	-0.000
	9:DERX3	58.979	-0.259	8.450	59.581	0.000	0.002	0.000
	10:DERX4	-56.911	-1.928	-10.166	57.844	0.000	-0.002	-0.000
	11:DERZ3	9.873	-0.422	45.115	46.185	0.001	0.003	0.000
	12:DERZ4	-7.805	-1.765	-46.831	47.510	-0.000	-0.002	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
232	5:DERX1	21.678	-0.375	9.008	23.478	0.001	0.001	-0.000
	6:DERX2	-21.142	-4.926	-10.635	24.174	0.001	-0.001	-0.001
	7:DERZ1	3.953	-2.187	24.078	24.498	0.002	0.001	-0.000
	8:DERZ2	-3.417	-3.115	-25.705	26.117	0.001	-0.001	-0.001
	9:DERX3	21.583	0.468	9.401	23.546	0.001	0.001	0.000
	10:DERX4	-21.237	-4.083	-10.242	23.928	0.001	-0.001	-0.001
	11:DERZ3	3.858	-1.343	24.471	24.809	0.001	0.001	-0.000
	12:DERZ4	-3.512	-2.272	-25.312	25.655	0.001	-0.001	-0.000
233	5:DERX1	18.692	-0.474	9.004	20.753	0.000	0.001	-0.000
	6:DERX2	-18.066	-2.149	-10.631	21.072	-0.001	-0.001	-0.000
	7:DERZ1	9.686	-1.037	24.062	25.959	0.001	0.001	-0.000
	8:DERZ2	-9.060	-1.586	-25.689	27.286	-0.003	-0.001	-0.000
	9:DERX3	18.625	-0.027	9.397	20.861	0.000	0.001	-0.000
	10:DERX4	-18.133	-1.702	-10.238	20.893	-0.001	-0.001	-0.000
	11:DERZ3	9.619	-0.590	24.455	26.285	0.002	0.001	-0.000
	12:DERZ4	-9.127	-1.139	-25.296	26.916	-0.003	-0.001	-0.000
234	5:DERX1	19.818	-2.876	9.008	21.958	-0.001	0.001	-0.000
	6:DERX2	-19.214	-4.942	-10.635	22.510	-0.002	-0.001	-0.000
	7:DERZ1	8.113	-1.590	24.074	25.454	-0.001	0.001	-0.000
	8:DERZ2	-7.510	-6.228	-25.701	27.490	-0.002	-0.001	-0.000
	9:DERX3	19.743	-1.666	9.401	21.930	-0.001	0.001	-0.000
	10:DERX4	-19.288	-3.731	-10.242	22.155	-0.001	-0.001	-0.000
	11:DERZ3	8.039	-0.379	24.467	25.756	-0.001	0.001	-0.000
	12:DERZ4	-7.584	-5.018	-25.308	26.892	-0.001	-0.001	-0.000
235	5:DERX1	20.899	-4.575	9.010	23.214	0.000	0.001	-0.000
	6:DERX2	-20.320	-7.186	-10.637	24.035	-0.001	-0.001	-0.001
	7:DERZ1	6.623	-3.860	24.080	25.271	0.000	0.001	-0.000
	8:DERZ2	-6.044	-7.901	-25.708	27.565	-0.001	-0.001	-0.000
	9:DERX3	20.818	-2.744	9.403	23.007	0.000	0.001	-0.000
	10:DERX4	-20.401	-5.355	-10.244	23.448	-0.001	-0.001	-0.000
	11:DERZ3	6.542	-2.029	24.473	25.414	0.000	0.001	-0.000
	12:DERZ4	-6.125	-6.070	-25.315	26.743	-0.001	-0.001	-0.000
236	5:DERX1	21.325	-3.329	9.010	23.388	0.001	0.001	-0.000
	6:DERX2	-20.771	-6.990	-10.637	24.360	0.001	-0.001	-0.001
	7:DERZ1	5.073	-4.325	24.082	24.987	0.002	0.001	-0.000
	8:DERZ2	-4.519	-5.995	-25.709	26.782	0.000	-0.001	-0.001
	9:DERX3	21.237	-1.710	9.402	23.289	0.001	0.001	-0.000
	10:DERX4	-20.858	-5.371	-10.244	23.851	0.000	-0.001	-0.001
	11:DERZ3	4.985	-2.706	24.475	25.123	0.001	0.001	-0.000
	12:DERZ4	-4.606	-4.376	-25.316	26.101	0.000	-0.001	-0.000
237	5:DERX1	21.877	-1.219	4.542	22.377	0.001	0.001	-0.000
	6:DERX2	-21.349	-2.568	-6.054	22.338	0.000	-0.001	-0.001
	7:DERZ1	3.960	0.718	16.138	16.632	0.001	0.001	-0.000
	8:DERZ2	-3.431	-4.504	-17.649	18.535	0.001	-0.001	-0.001
	9:DERX3	21.785	-0.559	5.025	22.364	0.001	0.001	0.000
	10:DERX4	-21.441	-1.908	-5.571	22.235	0.000	-0.001	-0.001
	11:DERZ3	3.867	1.378	16.620	17.120	0.001	0.001	-0.000
	12:DERZ4	-3.523	-3.844	-17.167	17.941	0.000	-0.001	-0.000
238	5:DERX1	21.763	-0.632	1.893	21.854	0.000	0.001	0.003
	6:DERX2	-21.241	-0.761	-3.389	21.524	-0.000	-0.001	-0.003
	7:DERZ1	3.924	-0.610	16.722	17.187	0.003	0.001	0.000
	8:DERZ2	-3.402	-0.783	-18.218	18.550	-0.002	-0.001	-0.001
	9:DERX3	21.671	-0.384	2.345	21.801	0.000	0.001	0.003
	10:DERX4	-21.334	-0.513	-2.938	21.541	-0.000	-0.001	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	3.832	-0.363	17.174	17.600	0.003	0.001	0.000
	12:DERZ4	-3.495	-0.535	-17.767	18.115	-0.002	-0.001	-0.001
241	5:DERX1	42.663	-2.090	9.076	43.668	0.001	0.001	-0.000
	6:DERX2	-40.640	-3.246	-12.085	42.523	0.001	-0.001	-0.001
	7:DERZ1	7.916	-0.450	32.228	33.189	0.001	0.002	-0.000
	8:DERZ2	-5.892	-4.886	-35.237	36.059	0.001	-0.002	-0.001
	9:DERX3	42.247	-1.009	10.016	43.430	0.001	0.001	-0.000
	10:DERX4	-41.056	-2.165	-11.146	42.597	0.000	-0.001	-0.001
	11:DERZ3	7.499	0.631	33.167	34.011	0.001	0.002	-0.000
	12:DERZ4	-6.308	-3.805	-34.298	35.080	0.000	-0.002	-0.001
242	5:DERX1	42.514	-1.056	3.563	42.676	0.000	0.002	0.003
	6:DERX2	-40.494	-1.283	-6.982	41.111	-0.000	-0.001	-0.002
	7:DERZ1	7.877	-0.928	32.809	33.754	0.002	0.002	0.001
	8:DERZ2	-5.857	-1.410	-36.229	36.726	-0.002	-0.002	-0.000
	9:DERX3	42.099	-0.638	4.552	42.349	0.000	0.002	0.002
	10:DERX4	-40.909	-0.865	-5.993	41.355	-0.000	-0.001	-0.002
	11:DERZ3	7.462	-0.510	33.799	34.616	0.002	0.002	0.000
	12:DERZ4	-6.272	-0.992	-35.239	35.807	-0.002	-0.002	-0.000
249	5:DERX1	18.656	0.815	2.090	18.791	0.000	0.001	0.003
	6:DERX2	-18.060	-1.806	-3.633	18.511	-0.001	-0.001	-0.003
	7:DERZ1	9.666	0.305	16.631	19.238	0.004	0.001	0.001
	8:DERZ2	-9.070	-1.296	-18.174	20.353	-0.004	-0.001	-0.002
	9:DERX3	18.596	1.018	2.550	18.798	0.001	0.001	0.003
	10:DERX4	-18.121	-1.602	-3.174	18.466	-0.001	-0.001	-0.003
	11:DERZ3	9.605	0.508	17.091	19.611	0.004	0.001	0.001
	12:DERZ4	-9.130	-1.092	-17.714	19.959	-0.004	-0.001	-0.001
250	5:DERX1	0.003	0.000	0.010	0.011	0.002	0.000	0.002
	6:DERX2	-0.003	0.000	-0.011	0.011	0.000	-0.000	0.001
	7:DERZ1	0.004	0.000	0.013	0.013	0.003	0.000	0.002
	8:DERZ2	-0.004	0.000	-0.013	0.013	-0.001	-0.000	0.000
	9:DERX3	0.003	0.000	0.010	0.011	0.001	0.000	0.001
	10:DERX4	-0.003	0.000	-0.011	0.011	-0.000	-0.000	0.000
	11:DERZ3	0.004	0.000	0.013	0.013	0.002	0.000	0.001
	12:DERZ4	-0.004	0.000	-0.013	0.013	-0.001	-0.000	-0.000
251	5:DERX1	0.000	0.000	0.007	0.007	0.001	0.000	0.001
	6:DERX2	-0.000	0.000	-0.007	0.007	-0.001	-0.000	0.000
	7:DERZ1	0.000	0.000	0.009	0.009	0.002	0.000	0.001
	8:DERZ2	-0.000	0.000	-0.009	0.009	-0.002	-0.000	0.000
	9:DERX3	0.000	0.000	0.007	0.007	0.001	0.000	0.000
	10:DERX4	-0.000	0.000	-0.007	0.007	-0.001	-0.000	0.000
	11:DERZ3	0.000	0.000	0.009	0.009	0.002	0.000	0.000
	12:DERZ4	-0.000	0.000	-0.009	0.009	-0.002	-0.000	0.000
252	5:DERX1	0.002	0.000	0.007	0.008	-0.002	0.000	0.002
	6:DERX2	-0.002	0.000	-0.007	0.008	-0.003	-0.000	0.002
	7:DERZ1	0.003	0.000	0.009	0.009	-0.002	0.000	0.003
	8:DERZ2	-0.003	0.000	-0.009	0.009	-0.004	-0.000	0.002
	9:DERX3	0.002	0.000	0.007	0.008	-0.001	0.000	0.001
	10:DERX4	-0.002	0.000	-0.007	0.008	-0.002	-0.000	0.001
	11:DERZ3	0.003	0.000	0.009	0.009	-0.000	0.000	0.002
	12:DERZ4	-0.003	0.000	-0.009	0.009	-0.002	-0.000	0.001
253	5:DERX1	0.000	0.000	0.004	0.004	-0.001	0.000	0.001
	6:DERX2	-0.000	0.000	-0.004	0.004	-0.002	-0.000	0.000
	7:DERZ1	0.000	0.000	0.005	0.005	-0.000	0.000	0.000
	8:DERZ2	-0.000	0.000	-0.005	0.005	-0.002	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	0.000	0.000	0.004	0.004	-0.000	0.000	0.000
	10:DERX4	-0.000	0.000	-0.004	0.004	-0.001	-0.000	0.000
	11:DERZ3	0.000	0.000	0.005	0.005	0.000	0.000	0.000
	12:DERZ4	-0.000	0.000	-0.005	0.005	-0.002	-0.000	0.000
254	5:DERX1	24.741	0.000	15.968	29.447	-0.003	0.001	0.003
	6:DERX2	-24.300	0.000	-17.741	30.087	-0.004	-0.001	0.002
	7:DERZ1	5.866	0.000	30.531	31.090	-0.002	0.001	0.003
	8:DERZ2	-5.424	0.000	-32.304	32.756	-0.005	-0.001	0.002
	9:DERX3	24.631	0.000	16.339	29.558	-0.001	0.001	0.002
	10:DERX4	-24.410	0.000	-17.370	29.959	-0.002	-0.001	0.001
	11:DERZ3	5.756	0.000	30.902	31.433	-0.000	0.001	0.002
	12:DERZ4	-5.535	0.000	-31.933	32.409	-0.003	-0.001	0.000
255	5:DERX1	18.168	0.000	16.021	24.223	0.002	0.001	0.002
	6:DERX2	-17.522	0.000	-17.740	24.935	-0.000	-0.001	0.001
	7:DERZ1	11.700	0.000	30.713	32.866	0.003	0.001	0.002
	8:DERZ2	-11.054	0.000	-32.432	34.264	-0.001	-0.001	0.000
	9:DERX3	18.110	0.000	16.375	24.416	0.001	0.001	0.001
	10:DERX4	-17.580	0.000	-17.386	24.725	-0.001	-0.001	0.000
	11:DERZ3	11.642	0.000	31.067	33.177	0.002	0.001	0.002
	12:DERZ4	-11.112	0.000	-32.078	33.948	-0.002	-0.001	-0.000
256	5:DERX1	23.359	0.000	15.964	28.293	-0.001	0.001	0.001
	6:DERX2	-22.878	0.000	-17.738	28.948	-0.002	-0.001	0.000
	7:DERZ1	4.246	0.000	30.525	30.819	0.000	0.001	0.001
	8:DERZ2	-3.765	0.000	-32.299	32.517	-0.003	-0.001	0.001
	9:DERX3	23.255	0.000	16.335	28.419	-0.000	0.001	0.000
	10:DERX4	-22.982	0.000	-17.367	28.806	-0.001	-0.001	0.000
	11:DERZ3	4.142	0.000	30.896	31.173	0.001	0.001	0.000
	12:DERZ4	-3.870	0.000	-31.928	32.161	-0.002	-0.001	0.000
257	5:DERX1	18.690	0.000	16.019	24.615	0.001	0.001	0.000
	6:DERX2	-18.066	0.000	-17.738	25.319	-0.001	-0.001	0.000
	7:DERZ1	9.662	0.000	30.709	32.193	0.002	0.001	0.000
	8:DERZ2	-9.039	0.000	-32.428	33.664	-0.002	-0.001	0.000
	9:DERX3	18.624	0.000	16.373	24.797	0.001	0.001	0.000
	10:DERX4	-18.133	0.000	-17.384	25.120	-0.001	-0.001	0.000
	11:DERZ3	9.596	0.000	31.063	32.511	0.002	0.001	0.000
	12:DERZ4	-9.105	0.000	-32.074	33.341	-0.002	-0.001	0.000
258	5:DERX1	21.335	-0.350	5.829	22.119	0.001	0.001	0.001
	6:DERX2	-20.668	-0.969	-7.295	21.939	-0.001	-0.001	-0.003
	7:DERZ1	5.492	-0.180	16.129	17.039	0.003	0.001	-0.000
	8:DERZ2	-4.826	-1.138	-17.595	18.280	-0.003	-0.001	-0.002
	9:DERX3	21.241	-0.104	6.317	22.161	0.001	0.001	0.001
	10:DERX4	-20.762	-0.723	-6.807	21.861	-0.001	-0.001	-0.003
	11:DERZ3	5.399	0.066	16.617	17.472	0.003	0.001	0.000
	12:DERZ4	-4.919	-0.892	-17.107	17.822	-0.003	-0.001	-0.002
259	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	-0.001
	6:DERX2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	-0.002
	8:DERZ2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	-0.001
	10:DERX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	-0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
260	5:DERX1	40.969	-0.656	11.796	42.639	0.001	0.001	-0.000
	6:DERX2	-38.697	-1.591	-14.629	41.400	-0.001	-0.001	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	10.596	-0.388	32.439	34.128	0.003	0.002	-0.001
	8:DERZ2	-8.323	-1.859	-35.272	36.288	-0.003	-0.002	-0.002
	9:DERX3	40.518	-0.227	12.713	42.466	0.001	0.001	0.001
	10:DERX4	-39.148	-1.163	-13.713	41.496	-0.001	-0.001	-0.002
	11:DERZ3	10.145	0.040	33.355	34.864	0.003	0.002	-0.000
	12:DERZ4	-8.774	-1.430	-34.355	35.487	-0.003	-0.002	-0.002
261	5:DERX1	56.758	-0.847	15.338	58.800	0.000	0.002	-0.000
	6:DERX2	-51.786	-1.878	-17.947	54.840	-0.001	-0.002	-0.002
	7:DERZ1	15.840	-0.538	44.139	46.898	0.001	0.003	0.000
	8:DERZ2	-10.867	-2.186	-46.748	48.044	-0.001	-0.002	-0.002
	9:DERX3	55.652	-0.334	16.199	57.963	0.000	0.002	0.000
	10:DERX4	-52.892	-1.365	-17.086	55.600	-0.000	-0.002	-0.001
	11:DERZ3	14.734	-0.025	45.000	47.351	0.001	0.003	0.000
	12:DERZ4	-11.973	-1.673	-45.887	47.453	-0.001	-0.003	-0.002
263	5:DERX1	0.000	-4.072	0.000	4.072	0.001	0.000	-0.002
	6:DERX2	-0.000	-4.891	-0.000	4.891	0.001	-0.000	-0.002
	7:DERZ1	0.000	-3.718	0.000	3.718	0.001	0.000	-0.002
	8:DERZ2	-0.000	-5.244	-0.000	5.244	0.001	-0.000	-0.003
	9:DERX3	0.000	-2.455	0.000	2.455	0.001	0.000	-0.001
	10:DERX4	-0.000	-3.273	-0.000	3.273	0.001	-0.000	-0.002
	11:DERZ3	0.000	-2.101	0.000	2.101	0.001	0.000	-0.001
	12:DERZ4	-0.000	-3.627	-0.000	3.627	0.001	-0.000	-0.002
265	5:DERX1	21.337	-2.380	4.549	21.946	0.001	0.001	-0.001
	6:DERX2	-20.673	-4.954	-6.062	22.106	0.000	-0.001	-0.002
	7:DERZ1	5.492	-0.793	16.139	17.066	0.001	0.001	-0.000
	8:DERZ2	-4.828	-6.541	-17.651	19.433	0.000	-0.001	-0.003
	9:DERX3	21.244	-1.040	5.032	21.856	0.001	0.001	-0.001
	10:DERX4	-20.766	-3.614	-5.579	21.804	0.000	-0.001	-0.001
	11:DERZ3	5.398	0.547	16.621	17.485	0.001	0.001	0.000
	12:DERZ4	-4.921	-5.201	-17.168	18.602	-0.000	-0.001	-0.002
267	5:DERX1	40.970	-3.701	9.083	42.128	0.001	0.002	-0.001
	6:DERX2	-38.700	-5.923	-12.090	40.975	0.001	-0.001	-0.002
	7:DERZ1	10.594	-2.238	32.233	34.003	0.001	0.002	-0.001
	8:DERZ2	-8.324	-7.386	-35.240	36.956	0.000	-0.002	-0.003
	9:DERX3	40.520	-1.519	10.022	41.768	0.000	0.001	-0.001
	10:DERX4	-39.150	-3.740	-11.151	40.879	0.000	-0.001	-0.001
	11:DERZ3	10.144	-0.055	33.172	34.688	0.001	0.002	-0.000
	12:DERZ4	-8.775	-5.203	-34.301	35.786	-0.000	-0.002	-0.002
271	5:DERX1	49.112	0.000	33.941	59.699	-0.005	0.002	0.006
	6:DERX2	-47.560	0.000	-39.155	61.604	-0.006	-0.002	0.006
	7:DERZ1	12.080	0.000	62.943	64.091	-0.003	0.002	0.007
	8:DERZ2	-10.527	0.000	-68.157	68.965	-0.008	-0.002	0.005
	9:DERX3	48.745	0.000	35.103	60.069	-0.002	0.002	0.003
	10:DERX4	-47.927	0.000	-37.993	61.159	-0.003	-0.002	0.003
	11:DERZ3	11.713	0.000	64.105	65.166	-0.000	0.002	0.004
	12:DERZ4	-10.895	0.000	-66.995	67.875	-0.005	-0.002	0.002
272	5:DERX1	45.846	0.000	33.960	57.054	-0.001	0.002	0.005
	6:DERX2	-44.105	0.000	-39.173	58.990	-0.003	-0.002	0.001
	7:DERZ1	8.479	0.000	62.983	63.551	0.001	0.002	0.003
	8:DERZ2	-6.738	0.000	-68.196	68.528	-0.005	-0.002	0.003
	9:DERX3	45.462	0.000	35.122	57.448	-0.000	0.002	0.003
	10:DERX4	-44.490	0.000	-38.011	58.517	-0.002	-0.002	-0.000
	11:DERZ3	8.094	0.000	64.145	64.653	0.002	0.002	0.002
	12:DERZ4	-7.123	0.000	-67.034	67.412	-0.004	-0.002	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
273	5:DERX1	45.851	-2.119	23.864	51.733	-0.001	0.002	0.000
	6:DERX2	-44.110	-17.994	-28.653	55.592	-0.003	-0.002	-0.001
	7:DERZ1	8.490	-8.624	52.058	53.446	0.001	0.002	-0.000
	8:DERZ2	-6.748	-11.489	-56.848	58.389	-0.005	-0.002	-0.000
	9:DERX3	45.467	2.711	24.986	51.951	-0.000	0.002	0.000
	10:DERX4	-44.495	-13.164	-27.531	53.954	-0.002	-0.002	-0.001
	11:DERZ3	8.105	-3.794	53.180	53.928	0.002	0.002	0.000
	12:DERZ4	-7.133	-6.659	-55.726	56.574	-0.004	-0.002	-0.000
274	5:DERX1	49.081	-22.168	23.851	58.900	-0.005	0.002	0.001
	6:DERX2	-47.528	-25.730	-28.643	61.167	-0.006	-0.002	0.001
	7:DERZ1	12.039	-19.757	52.034	56.946	-0.003	0.002	0.002
	8:DERZ2	-10.486	-28.141	-56.826	64.273	-0.008	-0.002	0.000
	9:DERX3	48.714	-10.293	24.974	55.701	-0.002	0.002	0.001
	10:DERX4	-47.896	-13.855	-27.520	56.950	-0.003	-0.002	0.000
	11:DERZ3	11.672	-7.882	53.157	54.991	-0.000	0.002	0.001
	12:DERZ4	-10.854	-16.265	-55.703	59.035	-0.005	-0.002	-0.000
275	5:DERX1	18.161	1.347	9.005	20.315	0.001	0.001	-0.000
	6:DERX2	-17.517	-3.187	-10.632	20.737	-0.001	-0.001	-0.000
	7:DERZ1	11.630	4.405	24.064	27.088	0.003	0.001	0.000
	8:DERZ2	-10.987	-6.245	-25.691	28.631	-0.003	-0.001	-0.001
	9:DERX3	18.103	1.837	9.398	20.480	0.001	0.001	0.000
	10:DERX4	-17.574	-2.697	-10.239	20.517	-0.001	-0.001	-0.000
	11:DERZ3	11.573	4.895	24.457	27.496	0.003	0.001	0.000
	12:DERZ4	-11.044	-5.755	-25.298	28.197	-0.003	-0.001	-0.001
276	5:DERX1	0.011	-5.753	0.000	5.753	0.002	0.000	0.005
	6:DERX2	-0.011	-6.276	-0.000	6.276	0.002	-0.000	0.003
	7:DERZ1	0.015	-5.741	0.001	5.741	0.003	0.000	0.005
	8:DERZ2	-0.015	-6.288	-0.001	6.288	0.001	-0.000	0.004
	9:DERX3	0.011	-3.616	0.000	3.616	0.002	0.000	0.004
	10:DERX4	-0.011	-4.138	-0.000	4.138	0.001	-0.000	0.002
	11:DERZ3	0.015	-3.604	0.001	3.604	0.002	0.000	0.003
	12:DERZ4	-0.015	-4.150	-0.001	4.150	0.001	-0.000	0.002
277	5:DERX1	0.011	-27.408	0.102	27.408	0.002	0.000	0.007
	6:DERX2	-0.011	-35.105	-0.102	35.105	0.002	-0.000	0.006
	7:DERZ1	0.015	-28.995	4.062	29.279	0.003	0.001	0.007
	8:DERZ2	-0.015	-33.518	-4.062	33.763	0.001	-0.001	0.006
	9:DERX3	0.011	-15.414	0.101	15.414	0.002	0.000	0.005
	10:DERX4	-0.011	-23.111	-0.102	23.111	0.001	-0.000	0.003
	11:DERZ3	0.015	-17.001	4.062	17.480	0.002	0.001	0.004
	12:DERZ4	-0.015	-21.524	-4.062	21.904	0.001	-0.001	0.003
278	5:DERX1	57.381	-2.760	11.341	58.556	0.001	0.002	-0.000
	6:DERX2	-52.689	-3.858	-14.662	54.827	0.000	-0.002	-0.001
	7:DERZ1	14.280	-1.850	43.740	46.049	0.001	0.003	-0.000
	8:DERZ2	-9.588	-4.768	-47.061	48.264	0.000	-0.002	-0.001
	9:DERX3	56.338	-1.545	12.360	57.698	0.000	0.002	-0.000
	10:DERX4	-53.733	-2.643	-13.644	55.501	0.000	-0.002	-0.001
	11:DERZ3	13.237	-0.635	44.759	46.679	0.001	0.003	-0.000
	12:DERZ4	-10.632	-3.553	-46.042	47.387	-0.000	-0.003	-0.001
279	5:DERX1	58.090	-2.054	7.260	58.578	0.001	0.002	0.000
	6:DERX2	-53.699	-4.276	-11.352	55.052	0.001	-0.002	0.000
	7:DERZ1	12.782	-1.729	43.944	45.798	0.001	0.003	0.000
	8:DERZ2	-8.391	-4.601	-48.036	48.980	0.001	-0.002	0.000
	9:DERX3	57.114	-0.908	8.450	57.742	0.001	0.002	0.000
	10:DERX4	-54.676	-3.129	-10.163	55.700	0.001	-0.002	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	11.806	-0.582	45.133	46.655	0.001	0.003	0.000
	12:DERZ4	-9.368	-3.455	-46.846	47.898	0.000	-0.003	0.000

JARDIN CAMPO VERDE

VERIFICACION DE DERIVAS MAXIMAS NSR-10

EJE: D-5

COMBO DERX_1

COMBO DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	59.737	17.204	0.239%	49.098	14.559	0.202%
N+7.35	37	7.35	42.533	19.826	0.551%	34.539	16.869	0.469%
N+3.75	29	3.75	22.707	22.707	0.631%	17.67	17.67	0.491%
N+0.15	11	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	-59.507	-17.251	0.240%	-53.545	-15.828	0.220%
N+7.35	37	7.35	-42.256	-19.928	0.554%	-37.717	-18.664	0.518%
N+3.75	29	3.75	-22.328	-22.328	0.620%	-19.053	-19.053	0.529%
N+0.15	11	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	59.721	17.236	0.239%	50.388	14.919	0.207%
N+7.35	37	7.35	42.485	19.868	0.552%	35.469	17.379	0.483%
N+3.75	29	3.75	22.617	22.617	0.628%	18.09	18.09	0.503%
N+0.15	11	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	-59.523	-17.219	0.239%	-52.255	-15.467	0.215%
N+7.35	37	7.35	-42.304	-19.886	0.552%	-36.788	-18.155	0.504%
N+3.75	29	3.75	-22.418	-22.418	0.623%	-18.633	-18.633	0.518%
N+0.15	11	0.15	0			0		

EJE: D-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	56.316	21.036	0.561%	48.115	13.404	0.357%
N+7.35	45	7.35	35.28	16.388	0.455%	34.711	17.026	0.473%
N+3.75	33	3.75	18.892	18.892	0.525%	17.685	17.685	0.491%
N+0.15	15	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	-48.649	-15.927	0.425%	-52.558	-14.776	0.394%
N+7.35	45	7.35	-32.722	-14.527	0.404%	-37.782	-18.674	0.519%
N+3.75	33	3.75	-18.195	-18.195	0.505%	-19.108	-19.108	0.531%
N+0.15	15	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	54.607	19.832	0.529%	49.393	13.77	0.367%
N+7.35	45	7.35	34.775	15.981	0.444%	35.623	17.513	0.486%
N+3.75	33	3.75	18.794	18.794	0.522%	18.11	18.11	0.503%
N+0.15	15	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	-50.358	-17.131	0.457%	-51.279	-14.409	0.384%
N+7.35	45	7.35	-33.227	-14.934	0.415%	-36.87	-18.187	0.505%
N+3.75	33	3.75	-18.293	-18.293	0.508%	-18.683	-18.683	0.519%
N+0.15	15	0.15	0			0		

EJE: F-5
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	59.261	16.738	0.446%	40.314	13.806	0.368%
N+7.35	38	7.35	42.523	19.848	0.551%	26.508	12.405	0.345%
N+3.75	85	3.75	22.675	22.675	0.630%	14.103	14.103	0.392%
N+0.15	65	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	-59.072	-16.862	0.450%	-52.399	-19.971	0.533%
N+7.35	38	7.35	-42.21	-19.915	0.553%	-32.428	-16.621	0.462%
N+3.75	85	3.75	-22.295	-22.295	0.619%	-15.807	-15.807	0.439%
N+0.15	65	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	59.258	16.789	0.448%	43.343	15.347	0.409%
N+7.35	38	7.35	42.469	19.884	0.552%	27.996	13.468	0.374%
N+3.75	85	3.75	22.585	22.585	0.627%	14.528	14.528	0.404%
N+0.15	65	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	-59.075	-16.81	0.448%	-49.371	-18.431	0.491%
N+7.35	38	7.35	-42.265	-19.88	0.552%	-30.94	-15.558	0.432%
N+3.75	85	3.75	-22.385	-22.385	0.622%	-15.382	-15.382	0.427%
N+0.15	65	0.15	0			0		

EJE: F-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	34.965	16.062	0.446%	26.504	12.395	0.344%
N+3.75	86	3.75	18.903	18.903	0.525%	14.109	14.109	0.392%
N+0.15	66	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	-32.552	-14.363	0.399%	-32.325	-16.514	0.459%
N+3.75	86	3.75	-18.189	-18.189	0.505%	-15.811	-15.811	0.439%
N+0.15	66	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	34.493	15.692	0.436%	27.963	13.429	0.373%
N+3.75	86	3.75	18.801	18.801	0.522%	14.534	14.534	0.404%
N+0.15	66	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	-33.023	-14.733	0.409%	-30.866	-15.479	0.430%
N+3.75	86	3.75	-18.29	-18.29	0.508%	-15.387	-15.387	0.427%
N+0.15	66	0.15	0			0		

ESPECTRO PARA UMBRAL DE DAÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: **181_JARDIN CAMPO VERDE**

Ciudad: **Bogotá**

CALCULÓ: **JDH**

Sistema Estructural: **PÓRTICOS EN CONCRETO**

Zona Microzonificación: **ALUVIAL 200**

PARÁMETROS SÍSMICOS

$A_d = 0.06$

$F_a = 1.2$

$A_v = 0.20$

$F_v = 2.9$

$A_{0d} = 0.07$

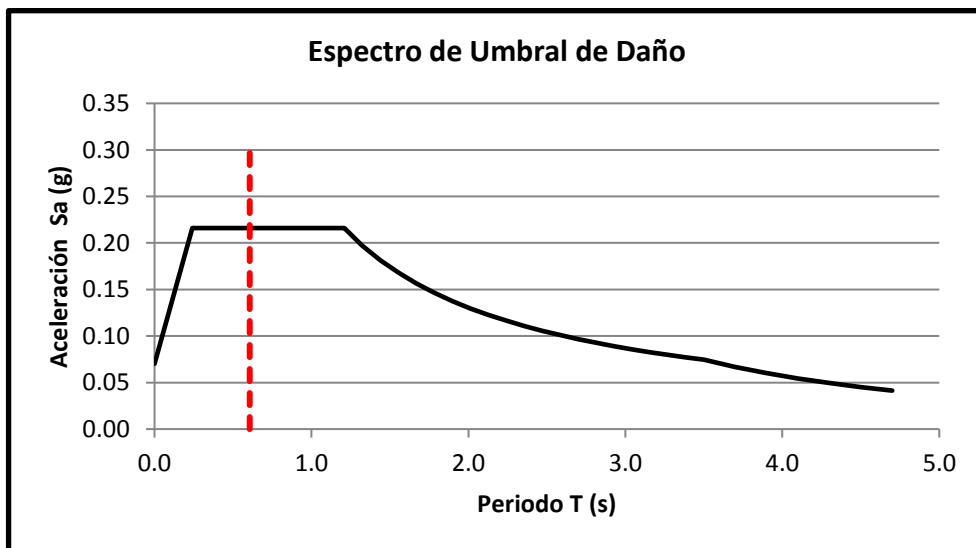
Grupo de Uso **III**

$T_{0d} (s) = 0.242$

$I = 1.25$

$T_{cd} (s) = 1.21$

$T_{ld} (s) = 3.5$



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: **Porticos de concreto**

$h (m) = 14$

$T_a (s) = 0.505$

$C_t = 0.047$

$C_u = 1.2$

$\alpha = 0.9$

$C_u * T_a = 0.606 s$

PARA ANÁLISIS DINÁMICO

Periodo calculado, $T_x = 0.710 s$

$T_z = 0.624 s$

Chequeo A.5.4.5 $T < C_u * T_a$: Usar $C_u * T_a$

Usar $C_u * T_a$

$T_x (s) = 0.606$

$T_z (s) = 0.606$

$S_{adx} = 0.216$

$S_{adz} = 0.216$



JARDÍN INFANTIL CAMPO VERDE.
MODULO B, UMBRAL DE DAÑO

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 18 abril de 2018

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*****
*
*          STAAD.Pro V8i SELECTseries6          *
*          Version  20.07.11.90                  *
*          Proprietary Program of                 *
*          Bentley Systems, Inc.                  *
*          Date=    JUL 12, 2018                  *
*          Time=    9:31:31                      *
*
*          USER ID:                             *
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1. STAAD SPACE DXF IMPORT OF DRAWING1.DXF

INPUT FILE: X:\PROYECTOS 2018\181_JARDIN CAMPO VERDE\2. MODELOS\1.CURADURIA\MODULO B_mayo05_18 UMBRAL.STD

2. START JOB INFORMATION

3. ENGINEER DATE 19-APR-18

4. END JOB INFORMATION

5. INPUT WIDTH 79

6. UNIT METER MTON

7. JOINT COORDINATES

```

8. 1 2.75335E-010 0.25 -13.9026; 2 -4.25331E-011 0.25 2.14737
9. 3 5.8 0.25 -13.9026; 4 5.8 0.25 2.14737; 5 11.6 0.25 -13.9026
10. 7 17.65 0.25 -13.9026; 8 17.65 0.25 2.14737; 10 11.5998 0.25 2.14737
11. 11 2.25768E-010 0.25 -11.4026; 12 17.65 0.25 -11.4026; 15 -1.42E-014 0.25 0
12. 16 17.65 0.25 3.49488E-010; 17 1.56476E-010 0.25 -7.90263
13. 18 17.65 0.25 -7.90263; 19 2.75335E-010 3.85 -13.9026
14. 20 -4.25331E-011 3.85 2.14737; 21 5.8 3.85 -13.9026; 22 5.8 3.85 2.14737
15. 23 11.6 3.85 -13.9026; 25 17.65 3.85 -13.9026; 26 17.65 3.85 2.14737
16. 28 11.5998 3.85 2.14737; 29 2.25768E-010 3.85 -11.4026; 30 17.65 3.85 -11.4026
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316. 473 UNI GX 1.17 1.76135 2.34854
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360. SELFWEIGHT Z 1
361. SELFWEIGHT Z 1 LIST 433
362. SELFWEIGHT Z 1 LIST 428 473
363. SELFWEIGHT Z 1 LIST 423
364. SELFWEIGHT Z 1 LIST 419 471
365. LOAD 4 LOADTYPE SEISMIC TITLE EQZ
366. SPECTRUM CQC Z 1 ACC SCALE 9.81 DAMP 0.05 LIN
367. *COMBINACIONES DERIVAS
368. 0 0.07; 0.242 0.216; 1.21 0.216; 1.325 0.197; 1.439 0.181; 1.554 0.168
369. 1.668 0.156; 1.783 0.146; 1.897 0.138; 2.012 0.13; 2.126 0.123; 2.241 0.116
370. 2.355 0.111; 2.47 0.106; 2.584 0.101; 2.699 0.097; 2.813 0.093; 2.928 0.089
371. 3.042 0.086; 3.157 0.083; 3.271 0.08; 3.386 0.077; 3.5 0.075; 3.7 0.067
372. 3.9 0.06; 4.1 0.054; 4.3 0.049; 4.5 0.045; 4.7 0.041
373. LOAD COMB 5 DEX1
374. 1 1.2 2 1.0 3 0.8

375. LOAD COMB 6 DERX2
376. 1 1.2 2 1.0 3 -0.8
377. LOAD COMB 7 DERZ1
378. 1 1.2 2 1.0 4 0.8
379. LOAD COMB 8 DERZ2
380. 1 1.2 2 1.0 4 -0.8
381. LOAD COMB 9 DERX3
382. 1 0.9 3 0.8
383. LOAD COMB 10 DERX4
384. 1 0.9 3 -0.8
385. LOAD COMB 11 DERZ3
386. 1 0.9 4 0.8
387. LOAD COMB 12 DERZ4
388. 1 0.9 4 -0.8
389. *COMBINACIONES DISENO
390. LOAD COMB 13 COM1
391. 1 1.4
392. LOAD COMB 14 COM2
393. 1 1.2 2 1.6
394. LOAD COMB 15 COM3
395. 1 1.2 2 1.0 3 0.2 4 0.06
396. LOAD COMB 16 COM4
397. 1 1.2 2 1.0 3 0.2 4 -0.06
398. LOAD COMB 17 COM5
399. 1 1.2 2 1.0 3 -0.2 4 -0.06
400. LOAD COMB 18 COM6
401. 1 1.2 2 1.0 3 -0.2 4 0.06
402. LOAD COMB 19 COM7
403. 1 1.2 2 1.0 3 0.06 4 0.2
404. LOAD COMB 20 COM8
405. 1 1.2 2 1.0 3 0.06 4 -0.2
406. LOAD COMB 21 COM9
407. 1 1.2 2 1.0 3 -0.06 4 -0.2
408. LOAD COMB 22 COM10
409. 1 1.2 2 1.0 3 -0.06 4 0.2
410. LOAD COMB 23 COM11
411. 1 0.9 3 0.2 4 0.06
412. LOAD COMB 24 COM12
413. 1 0.9 3 0.2 4 -0.06
414. LOAD COMB 25 COM13
415. 1 0.9 3 -0.2 4 -0.06
416. LOAD COMB 26 COM14
417. 1 0.9 3 -0.2 4 0.06
418. LOAD COMB 27 COM15
419. 1 0.9 3 0.06 4 0.2
420. LOAD COMB 28 COM16
421. 1 0.9 3 0.06 4 -0.2
422. LOAD COMB 29 COM17
423. 1 0.9 3 -0.06 4 -0.2
424. LOAD COMB 30 COM18
425. 1 0.9 3 -0.06 4 0.2
426. *COMBINACIONES CIMENTACION
427. LOAD COMB 31 CIM
428. 1 1.0 2 1.0
429. LOAD COMB 32 CIMX1
430. 1 0.9 3 0.14 4 0.042

DXF IMPORT OF DRAWING1.DXF

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431. LOAD COMB 33 CIMX2
432. 1 0.9 3 -0.14 4 0.042
433. LOAD COMB 34 CIMX3
434. 1 0.9 3 0.14 4 -0.042
435. LOAD COMB 35 CIMX4
436. 1 0.9 3 -0.14 4 -0.042
437. LOAD COMB 36 CIMX5
438. 1 0.9 3 0.042 4 0.14
439. LOAD COMB 37 CIMX6
440. 1 0.9 3 -0.042 4 0.14
441. LOAD COMB 38 CIMX7
442. 1 0.9 3 0.042 4 -0.14
443. LOAD COMB 39 CIMX8
444. 1 0.9 3 -0.05 4 -0.14
445. LOAD COMB 40 CIMX9
446. 3 0.14 4 0.042 1 1.0 2 1.0
447. LOAD COMB 41 CIMX10
448. 3 0.14 4 -0.042 1 1.0 2 1.0
449. LOAD COMB 42 CIMX11
450. 3 -0.14 4 0.042 1 1.0 2 1.0
451. LOAD COMB 43 CIMX12
452. 3 -0.14 4 -0.042 1 1.0 2 1.0
453. LOAD COMB 44 CIMX13
454. 3 0.042 4 0.14 1 1.0 2 1.0
455. LOAD COMB 45 CIMX14
456. 3 0.042 4 -0.14 1 1.0 2 1.0
457. LOAD COMB 46 CIMX15
458. 3 -0.042 4 0.14 1 1.0 2 1.0
459. LOAD COMB 47 CIMX16
460. 3 -0.042 4 -0.14 1 1.0 2 1.0
461. PERFORM ANALYSIS

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P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	178	NUMBER OF MEMBERS	318
NUMBER OF PLATES	50	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	15

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

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ORIGINAL/FINAL BAND-WIDTH= 145/ 34/ 204 DOF
TOTAL PRIMARY LOAD CASES = 4, TOTAL DEGREES OF FREEDOM = 978
TOTAL LOAD COMBINATION CASES = 43 SO FAR.
SIZE OF STIFFNESS MATRIX = 200 DOUBLE KILO-WORDS
REQRD/AVAIL. DISK SPACE = 16.1/ 293868.6 MB

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Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
1	5:DERX1	0.006	-3.795	0.003	3.795	-0.002	0.000	0.000
	6:DERX2	-0.006	-3.795	-0.003	3.795	-0.002	-0.000	0.000
	7:DERZ1	0.000	-3.795	0.000	3.795	-0.002	0.000	0.000
	8:DERZ2	-0.000	-3.795	-0.000	3.795	-0.002	-0.000	0.000
	9:DERX3	0.006	-1.911	0.003	1.911	-0.001	0.000	0.000
	10:DERX4	-0.006	-1.911	-0.003	1.911	-0.001	-0.000	0.000
	11:DERZ3	0.000	-1.911	0.000	1.911	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.911	-0.000	1.911	-0.001	-0.000	0.000
2	5:DERX1	0.000	-1.145	0.000	1.145	0.001	0.000	-0.001
	6:DERX2	-0.000	-1.145	-0.000	1.145	0.001	-0.000	-0.001
	7:DERZ1	0.000	-1.145	0.000	1.145	0.001	0.000	-0.001
	8:DERZ2	-0.000	-1.145	-0.000	1.145	0.001	-0.000	-0.001
	9:DERX3	0.000	-0.783	0.000	0.783	0.000	0.000	-0.000
	10:DERX4	-0.000	-0.783	-0.000	0.783	0.000	-0.000	-0.000
	11:DERZ3	0.000	-0.783	0.000	0.783	0.000	0.000	-0.000
	12:DERZ4	-0.000	-0.783	-0.000	0.783	0.000	-0.000	-0.000
3	5:DERX1	0.001	-3.124	0.002	3.124	-0.002	0.000	0.000
	6:DERX2	-0.001	-3.124	-0.002	3.124	-0.002	-0.000	0.000
	7:DERZ1	0.000	-3.124	0.000	3.124	-0.002	0.000	0.000
	8:DERZ2	-0.000	-3.124	-0.000	3.124	-0.002	-0.000	0.000
	9:DERX3	0.001	-1.558	0.002	1.558	-0.001	0.000	0.000
	10:DERX4	-0.001	-1.558	-0.002	1.558	-0.001	-0.000	0.000
	11:DERZ3	0.000	-1.558	0.000	1.558	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.558	-0.000	1.558	-0.001	-0.000	0.000
4	5:DERX1	0.000	-1.568	0.000	1.568	0.001	0.000	0.000
	6:DERX2	-0.000	-1.568	-0.000	1.568	0.001	-0.000	0.000
	7:DERZ1	0.000	-1.568	0.000	1.568	0.001	0.000	0.000
	8:DERZ2	-0.000	-1.568	-0.000	1.568	0.001	-0.000	0.000
	9:DERX3	0.000	-1.019	0.000	1.019	0.001	0.000	0.000
	10:DERX4	-0.000	-1.019	-0.000	1.019	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.019	0.000	1.019	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.019	-0.000	1.019	0.001	-0.000	0.000
5	5:DERX1	0.000	-3.266	0.001	3.266	-0.002	0.000	-0.000
	6:DERX2	-0.000	-3.266	-0.001	3.266	-0.002	-0.000	-0.000
	7:DERZ1	0.000	-3.266	0.000	3.266	-0.002	0.000	-0.000
	8:DERZ2	-0.000	-3.266	-0.000	3.266	-0.002	-0.000	-0.000
	9:DERX3	0.000	-1.615	0.001	1.615	-0.001	0.000	-0.000
	10:DERX4	-0.000	-1.615	-0.001	1.615	-0.001	-0.000	-0.000
	11:DERZ3	0.000	-1.615	0.000	1.615	-0.001	0.000	-0.000
	12:DERZ4	-0.000	-1.615	-0.000	1.615	-0.001	-0.000	-0.000
7	5:DERX1	0.000	-1.642	0.000	1.642	-0.001	0.000	0.001
	6:DERX2	-0.000	-1.642	-0.000	1.642	-0.001	-0.000	0.001
	7:DERZ1	0.000	-1.642	0.000	1.642	-0.001	0.000	0.001
	8:DERZ2	-0.000	-1.642	-0.000	1.642	-0.001	-0.000	0.001
	9:DERX3	0.000	-0.840	0.000	0.840	-0.000	0.000	0.001
	10:DERX4	-0.000	-0.840	-0.000	0.840	-0.000	-0.000	0.001
	11:DERZ3	0.000	-0.840	0.000	0.840	-0.000	0.000	0.001
	12:DERZ4	-0.000	-0.840	-0.000	0.840	-0.000	-0.000	0.001
8	5:DERX1	0.000	-1.039	0.000	1.039	0.001	0.000	0.001
	6:DERX2	-0.000	-1.039	-0.000	1.039	0.001	-0.000	0.001
	7:DERZ1	0.000	-1.039	0.000	1.039	0.001	0.000	0.001
	8:DERZ2	-0.000	-1.039	-0.000	1.039	0.001	-0.000	0.001
	9:DERX3	0.000	-0.524	0.000	0.524	0.000	0.000	0.000
	10:DERX4	-0.000	-0.524	-0.000	0.524	0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X	Y	Z	Resultant	rX	rY	rZ
		(mm)	(mm)	(mm)	(mm)	(rad)	(rad)	(rad)
10	11:DERZ3	0.000	-0.524	0.000	0.524	0.000	0.000	0.000
	12:DERZ4	-0.000	-0.524	-0.000	0.524	0.000	-0.000	0.000
	5:DERX1	0.000	-1.860	0.000	1.860	0.001	0.000	-0.000
	6:DERX2	-0.000	-1.860	-0.000	1.860	0.001	-0.000	-0.000
	7:DERZ1	0.000	-1.860	0.000	1.860	0.001	0.000	-0.000
	8:DERZ2	-0.000	-1.860	-0.000	1.860	0.001	-0.000	-0.000
	9:DERX3	0.000	-1.029	0.000	1.029	0.001	0.000	-0.000
	10:DERX4	-0.000	-1.029	-0.000	1.029	0.001	-0.000	-0.000
11	11:DERZ3	0.000	-1.029	0.000	1.029	0.001	0.000	-0.000
	12:DERZ4	-0.000	-1.029	-0.000	1.029	0.001	-0.000	-0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
19	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	6.722	-6.154	-0.030	9.113	-0.003	0.000	0.000
	6:DERX2	-6.440	-6.414	-0.855	9.129	-0.003	-0.000	0.000
	7:DERZ1	1.930	-3.993	4.180	6.095	-0.002	0.000	0.000
	8:DERZ2	-1.649	-8.574	-5.066	10.094	-0.004	-0.000	0.000
	9:DERX3	6.652	-2.907	0.225	7.263	-0.001	0.000	0.000
	10:DERX4	-6.510	-3.168	-0.600	7.265	-0.001	-0.000	-0.000
	11:DERZ3	1.861	-0.747	4.436	4.868	-0.000	0.000	0.000
	12:DERZ4	-1.719	-5.328	-4.810	7.381	-0.002	-0.000	-0.000
20	5:DERX1	5.631	0.172	-0.014	5.634	0.000	0.000	-0.000
	6:DERX2	-5.560	-0.800	-0.840	5.680	-0.000	-0.000	-0.001
	7:DERZ1	2.913	2.610	4.184	5.728	0.001	0.000	-0.001
	8:DERZ2	-2.843	-3.239	-5.038	6.630	-0.001	-0.000	-0.001
	9:DERX3	5.611	0.245	0.233	5.621	0.000	0.000	0.000
	10:DERX4	-5.581	-0.727	-0.593	5.659	-0.000	-0.000	-0.001
	11:DERZ3	2.893	2.684	4.432	5.934	0.001	0.000	-0.000
	12:DERZ4	-2.863	-3.166	-4.791	6.417	-0.001	-0.000	-0.001
	5:DERX1	6.705	-5.004	-0.127	8.368	-0.002	0.000	0.000
	6:DERX2	-6.434	-5.437	-0.682	8.451	-0.002	-0.000	-0.000
	7:DERZ1	1.927	-2.937	3.258	4.791	-0.002	0.000	0.000
	8:DERZ2	-1.656	-7.504	-4.066	8.694	-0.003	-0.000	-0.000
21	9:DERX3	6.638	-2.394	0.110	7.058	-0.001	0.000	0.000
	10:DERX4	-6.501	-2.827	-0.444	7.103	-0.001	-0.000	-0.000
	11:DERZ3	1.860	-0.327	3.495	3.972	-0.000	0.000	0.000
	12:DERZ4	-1.723	-4.894	-3.829	6.448	-0.002	-0.000	-0.000
	5:DERX1	5.634	-0.354	-0.123	5.647	0.000	0.000	0.000
	6:DERX2	-5.562	-0.658	-0.680	5.642	0.000	-0.000	0.000
	7:DERZ1	2.914	1.268	3.259	4.552	0.001	0.000	0.000
	8:DERZ2	-2.842	-2.281	-4.061	5.456	-0.001	-0.000	0.000
	9:DERX3	5.613	-0.150	0.112	5.616	0.000	0.000	0.000
	10:DERX4	-5.583	-0.454	-0.445	5.619	0.000	-0.000	-0.000
	11:DERZ3	2.893	1.473	3.494	4.769	0.001	0.000	0.000
	12:DERZ4	-2.863	-2.076	-3.826	5.210	-0.001	-0.000	-0.000
22	5:DERX1	6.687	-5.596	0.277	8.724	-0.003	0.000	0.000
	6:DERX2	-6.416	-5.893	-1.030	8.772	-0.003	-0.000	-0.001
	7:DERZ1	1.924	-4.357	2.953	5.604	-0.002	0.000	-0.000
	8:DERZ2	-1.652	-7.133	-3.706	8.206	-0.003	-0.000	-0.000
	9:DERX3	6.620	-2.719	0.502	7.174	-0.001	0.000	0.000
	10:DERX4	-6.483	-3.017	-0.805	7.195	-0.001	-0.000	-0.001
	11:DERZ3	1.857	-1.480	3.178	3.967	-0.001	0.000	0.000
	12:DERZ4	-1.719	-4.256	-3.481	5.761	-0.002	-0.000	-0.000
	5:DERX1	6.678	-3.630	0.775	7.640	-0.002	0.000	0.002
	6:DERX2	-6.405	-3.920	-1.457	7.649	-0.002	-0.000	0.001
	7:DERZ1	1.923	-3.139	3.469	5.058	-0.001	0.000	0.002
	8:DERZ2	-1.649	-4.412	-4.152	6.278	-0.002	-0.000	0.001
23	9:DERX3	6.610	-1.780	0.983	6.916	-0.001	0.000	0.001
	10:DERX4	-6.472	-2.070	-1.249	6.909	-0.001	-0.000	0.001
	11:DERZ3	1.855	-1.288	3.678	4.316	-0.001	0.000	0.001
	12:DERZ4	-1.717	-2.561	-3.943	5.006	-0.001	-0.000	0.001
	5:DERX1	5.641	2.655	0.772	6.283	-0.001	0.000	0.001
	6:DERX2	-5.553	1.868	-1.467	6.040	-0.001	-0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
28	7:DERZ1	2.918	3.220	3.467	5.559	-0.001	0.000	0.002
	8:DERZ2	-2.829	1.303	-4.163	5.199	-0.001	-0.000	0.001
	9:DERX3	5.616	1.092	0.985	5.805	-0.000	0.000	0.001
	10:DERX4	-5.578	0.305	-1.254	5.726	-0.000	-0.000	0.001
	11:DERZ3	2.892	1.657	3.680	4.965	0.000	0.000	0.001
	12:DERZ4	-2.854	-0.260	-3.950	4.880	-0.001	-0.000	0.001
	5:DERX1	5.641	0.088	0.288	5.650	0.000	0.000	0.000
	6:DERX2	-5.557	-0.677	-1.023	5.691	0.000	-0.000	-0.000
	7:DERZ1	2.918	1.286	2.964	4.353	0.001	0.000	-0.000
	8:DERZ2	-2.833	-1.875	-3.698	5.022	-0.001	-0.000	-0.000
	9:DERX3	5.617	-0.060	0.509	5.641	0.000	0.000	0.000
	10:DERX4	-5.581	-0.825	-0.803	5.699	0.000	-0.000	-0.000
29	11:DERZ3	2.894	1.138	3.184	4.450	0.001	0.000	-0.000
	12:DERZ4	-2.858	-2.023	-3.478	4.935	-0.000	-0.000	-0.000
	5:DERX1	6.541	-0.905	-0.029	6.604	-0.001	0.000	0.001
	6:DERX2	-6.303	-0.934	-0.854	6.429	-0.001	-0.000	-0.001
	7:DERZ1	1.201	-0.667	4.182	4.402	0.000	0.000	0.000
	8:DERZ2	-0.963	-1.171	-5.066	5.288	-0.002	-0.000	0.000
	9:DERX3	6.482	-0.500	0.225	6.505	-0.000	0.000	0.001
	10:DERX4	-6.362	-0.528	-0.599	6.412	-0.000	-0.000	-0.001
	11:DERZ3	1.142	-0.262	4.437	4.589	0.000	0.000	0.000
	12:DERZ4	-1.022	-0.766	-4.811	4.978	-0.001	-0.000	-0.000
	5:DERX1	6.500	-0.179	0.773	6.548	-0.001	0.000	0.001
	6:DERX2	-6.260	-0.274	-1.457	6.434	-0.001	-0.000	0.001
30	7:DERZ1	1.194	-0.202	3.467	3.672	-0.001	0.000	0.001
	8:DERZ2	-0.955	-0.252	-4.150	4.266	-0.001	-0.000	0.001
	9:DERX3	6.440	-0.071	0.982	6.515	-0.000	0.000	0.001
	10:DERX4	-6.320	-0.166	-1.248	6.444	-0.000	-0.000	0.000
	11:DERZ3	1.134	-0.094	3.676	3.848	-0.000	0.000	0.000
	12:DERZ4	-1.014	-0.143	-3.942	4.073	-0.001	-0.000	0.000
	5:DERX1	5.758	-0.465	-0.013	5.777	-0.000	0.000	0.001
	6:DERX2	-5.675	-0.569	-0.841	5.765	-0.001	-0.000	-0.001
	7:DERZ1	2.301	-0.442	4.183	4.795	0.001	0.000	0.000
	8:DERZ2	-2.218	-0.593	-5.037	5.536	-0.002	-0.000	-0.001
	9:DERX3	5.735	-0.280	0.234	5.746	-0.000	0.000	0.001
	10:DERX4	-5.698	-0.384	-0.593	5.742	-0.000	-0.000	-0.001
33	11:DERZ3	2.278	-0.256	4.431	4.988	0.001	0.000	0.000
	12:DERZ4	-2.241	-0.407	-4.790	5.304	-0.002	-0.000	-0.001
	5:DERX1	5.762	-0.297	0.773	5.821	-0.001	0.000	0.001
	6:DERX2	-5.663	-0.371	-1.467	5.861	-0.002	-0.000	0.001
	7:DERZ1	2.304	-0.320	3.467	4.175	-0.001	0.000	0.001
	8:DERZ2	-2.205	-0.348	-4.161	4.722	-0.002	-0.000	0.001
	9:DERX3	5.735	-0.136	0.985	5.821	-0.000	0.000	0.001
	10:DERX4	-5.690	-0.210	-1.254	5.830	-0.001	-0.000	0.000
	11:DERZ3	2.277	-0.159	3.679	4.330	-0.000	0.000	0.001
	12:DERZ4	-2.232	-0.187	-3.948	4.539	-0.001	-0.000	0.000
	5:DERX1	6.291	-0.587	-0.029	6.318	0.000	0.000	0.001
	6:DERX2	-6.099	-0.692	-0.854	6.198	0.000	-0.000	-0.001
34	7:DERZ1	0.337	-0.543	4.180	4.229	0.001	0.000	-0.000
	8:DERZ2	-0.145	-0.737	-5.063	5.118	-0.001	-0.000	-0.000
	9:DERX3	6.243	-0.350	0.226	6.257	0.000	0.000	0.001
	10:DERX4	-6.147	-0.455	-0.600	6.193	0.000	-0.000	-0.001
	11:DERZ3	0.288	-0.306	4.435	4.454	0.001	0.000	-0.000
	12:DERZ4	-0.193	-0.499	-4.809	4.838	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
36	5:DERX1	6.272	-0.339	0.777	6.329	0.001	0.000	0.001
	6:DERX2	-6.074	-0.416	-1.453	6.259	0.001	-0.000	0.001
	7:DERZ1	0.338	-0.360	3.473	3.508	0.001	0.000	0.001
	8:DERZ2	-0.141	-0.394	-4.149	4.170	0.001	-0.000	0.001
	9:DERX3	6.222	-0.141	0.984	6.301	0.001	0.000	0.001
	10:DERX4	-6.124	-0.218	-1.246	6.253	0.000	-0.000	0.000
	11:DERZ3	0.289	-0.162	3.680	3.695	0.001	0.000	0.000
	12:DERZ4	-0.191	-0.196	-3.942	3.952	0.000	-0.000	0.000
	5:DERX1	14.444	-1.431	-0.673	14.530	-0.001	0.000	0.001
	6:DERX2	-13.654	-1.480	-2.458	13.953	-0.001	-0.000	-0.001
	7:DERZ1	2.717	-1.072	8.925	9.391	0.000	0.001	0.000
	8:DERZ2	-1.927	-1.839	-12.055	12.346	-0.001	-0.001	0.000
37	9:DERX3	14.246	-0.789	0.199	14.269	-0.000	0.000	0.001
	10:DERX4	-13.852	-0.838	-1.586	13.968	-0.000	-0.000	-0.001
	11:DERZ3	2.519	-0.430	9.797	10.125	0.000	0.001	0.000
	12:DERZ4	-2.125	-1.197	-11.184	11.446	-0.001	-0.001	-0.000
	5:DERX1	14.453	-0.634	0.171	14.468	-0.000	0.000	0.002
	6:DERX2	-13.646	-1.032	-2.781	13.964	-0.001	-0.000	-0.001
	7:DERZ1	2.720	-0.694	5.908	6.541	0.000	0.001	0.001
	8:DERZ2	-1.912	-0.972	-8.518	8.784	-0.001	-0.001	0.000
	9:DERX3	14.252	-0.281	0.895	14.283	-0.000	0.000	0.002
	10:DERX4	-13.847	-0.678	-2.057	14.015	-0.000	-0.000	-0.002
	11:DERZ3	2.518	-0.341	6.631	7.102	0.000	0.001	0.000
	12:DERZ4	-2.113	-0.619	-7.794	8.099	-0.001	-0.001	-0.000
38	5:DERX1	14.916	-4.318	-0.894	15.555	-0.002	0.000	0.000
	6:DERX2	-14.012	-5.122	-2.019	15.055	-0.002	-0.000	0.000
	7:DERZ1	4.394	-2.841	6.698	8.500	-0.001	0.001	0.000
	8:DERZ2	-3.490	-6.600	-9.611	12.170	-0.003	-0.001	0.000
	9:DERX3	14.686	-2.011	-0.087	14.823	-0.001	0.000	0.000
	10:DERX4	-14.242	-2.814	-1.213	14.568	-0.001	-0.000	0.000
	11:DERZ3	4.164	-0.533	7.505	8.599	-0.000	0.001	0.000
	12:DERZ4	-3.720	-4.292	-8.805	10.478	-0.002	-0.001	0.000
	5:DERX1	11.873	-0.773	-1.967	12.059	-0.001	-0.000	-0.000
	6:DERX2	-11.928	-0.822	-3.036	12.336	-0.001	-0.000	-0.000
	7:DERZ1	4.935	-0.764	5.419	7.369	-0.000	0.000	-0.000
	8:DERZ2	-4.991	-0.830	-10.422	11.585	-0.003	-0.001	-0.000
39	9:DERX3	11.881	-0.435	-0.696	11.910	-0.001	0.000	0.000
	10:DERX4	-11.919	-0.484	-1.765	12.059	-0.001	-0.000	-0.000
	11:DERZ3	4.944	-0.427	6.690	8.330	0.000	0.000	0.000
	12:DERZ4	-4.982	-0.493	-9.151	10.431	-0.002	-0.001	-0.000
	5:DERX1	14.939	-2.510	0.171	15.149	-0.001	0.000	0.002
	6:DERX2	-14.015	-3.478	-2.782	14.705	-0.001	-0.000	-0.000
	7:DERZ1	4.391	-1.332	5.908	7.481	-0.000	0.001	0.001
	8:DERZ2	-3.467	-4.657	-8.519	10.309	-0.002	-0.001	0.001
	9:DERX3	14.705	-1.159	0.894	14.777	-0.000	0.000	0.001
	10:DERX4	-14.249	-2.127	-2.058	14.553	-0.001	-0.000	-0.001
	11:DERZ3	4.157	0.019	6.632	7.827	0.000	0.001	0.000
	12:DERZ4	-3.701	-3.306	-7.796	9.241	-0.001	-0.001	0.000
40	5:DERX1	11.823	-0.644	0.180	11.842	-0.001	0.000	0.002
	6:DERX2	-11.932	-0.783	-2.840	12.290	-0.001	-0.000	0.000
	7:DERZ1	4.898	-0.663	5.882	7.683	-0.001	0.001	0.001
	8:DERZ2	-5.007	-0.765	-8.542	9.930	-0.002	-0.001	0.001
	9:DERX3	11.844	-0.319	0.919	11.884	-0.001	0.000	0.001
	10:DERX4	-11.911	-0.458	-2.102	12.104	-0.001	-0.000	-0.000
	5:DERX1	14.939	-2.510	0.171	15.149	-0.001	0.000	0.002
	6:DERX2	-14.015	-3.478	-2.782	14.705	-0.001	-0.000	-0.000
	7:DERZ1	4.391	-1.332	5.908	7.481	-0.000	0.001	0.001
	8:DERZ2	-3.467	-4.657	-8.519	10.309	-0.002	-0.001	0.001
	9:DERX3	14.705	-1.159	0.894	14.777	-0.000	0.000	0.001
	10:DERX4	-14.249	-2.127	-2.058	14.553	-0.001	-0.000	-0.001
	11:DERZ3	4.157	0.019	6.632	7.827	0.000	0.001	0.000
41	12:DERZ4	-3.701	-3.306	-7.796	9.241	-0.001	-0.001	0.000
	5:DERX1	11.823	-0.644	0.180	11.842	-0.001	0.000	0.002
	6:DERX2	-11.932	-0.783	-2.840	12.290	-0.001	-0.000	0.000
	7:DERZ1	4.898	-0.663	5.882	7.683	-0.001	0.001	0.001
	8:DERZ2	-5.007	-0.765	-8.542	9.930	-0.002	-0.001	0.001
	9:DERX3	11.844	-0.319	0.919	11.884	-0.001	0.000	0.001
	10:DERX4	-11.911	-0.458	-2.102	12.104	-0.001	-0.000	-0.000
	5:DERX1	14.939	-2.510	0.171	15.149	-0.001	0.000	0.002
	6:DERX2	-14.015	-3.478	-2.782	14.705	-0.001	-0.000	-0.000
	7:DERZ1	4.391	-1.332	5.908	7.481	-0.000	0.001	0.001
	8:DERZ2	-3.467	-4.657	-8.519	10.309	-0.002	-0.001	0.001
	9:DERX3	14.705	-1.159	0.894	14.777	-0.000	0.000	0.001
	10:DERX4	-14.249	-2.127	-2.058	14.553	-0.001	-0.000	-0.001
44	11:DERZ3	4.157	0.019	6.632	7.827	0.000	0.001	0.000
	12:DERZ4	-3.701	-3.306	-7.796	9.241	-0.001	-0.001	0.000
	5:DERX1	11.823	-0.644	0.180	11.842	-0.001	0.000	0.002
	6:DERX2	-11.932	-0.783	-2.840	12.290	-0.001	-0.000	0.000
	7:DERZ1	4.898	-0.663	5.882	7.683	-0.001	0.001	0.001
	8:DERZ2	-5.007	-0.765	-8.542	9.930	-0.002	-0.001	0.001
	9:DERX3	11.844	-0.319	0.919	11.884	-0.001	0.000	0.001
	10:DERX4	-11.911	-0.458	-2.102	12.104	-0.001	-0.000	-0.000
	5:DERX1	14.939	-2.510	0.171	15.149	-0.001	0.000	0.002
	6:DERX2	-14.015	-3.478	-2.782	14.705	-0.001	-0.000	-0.000
	7:DERZ1	4.391	-1.332	5.908	7.481	-0.000	0.001	0.001
	8:DERZ2	-3.467	-4.657	-8.519	10.309	-0.002	-0.001	0.001
	9:DERX3	14.705	-1.159	0.894	14.777	-0.000	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
45	11:DERZ3	4.919	-0.338	6.620	8.255	-0.000	0.001	0.001
	12:DERZ4	-4.986	-0.439	-7.803	9.270	-0.001	-0.001	0.000
	5:DERX1	11.968	-0.768	-0.593	12.008	-0.001	0.000	0.001
	6:DERX2	-11.969	-0.910	-2.470	12.255	-0.001	-0.000	-0.002
	7:DERZ1	4.991	-0.703	8.972	10.291	0.001	0.001	-0.000
	8:DERZ2	-4.992	-0.974	-12.035	13.066	-0.002	-0.001	-0.001
	9:DERX3	11.965	-0.463	0.265	11.977	-0.000	0.000	0.001
	10:DERX4	-11.972	-0.605	-1.612	12.095	-0.000	-0.000	-0.002
	11:DERZ3	4.988	-0.399	9.830	11.031	0.001	0.001	0.000
	12:DERZ4	-4.995	-0.669	-11.177	12.261	-0.002	-0.001	-0.001
	5:DERX1	14.870	-5.752	-0.672	15.958	-0.002	0.000	0.000
	6:DERX2	-13.996	-6.062	-2.454	15.449	-0.002	-0.000	-0.000
47	7:DERZ1	4.401	-3.604	8.927	10.585	-0.001	0.001	0.000
	8:DERZ2	-3.528	-8.210	-12.053	15.004	-0.003	-0.001	-0.000
	9:DERX3	14.645	-2.881	0.199	14.927	-0.001	0.000	0.000
	10:DERX4	-14.221	-3.191	-1.583	14.660	-0.001	-0.000	-0.000
	11:DERZ3	4.177	-0.733	9.798	10.676	-0.000	0.001	0.000
	12:DERZ4	-3.752	-5.339	-11.182	12.947	-0.002	-0.001	-0.000
	5:DERX1	13.826	-0.998	-0.658	13.877	-0.000	0.000	0.001
	6:DERX2	-13.167	-1.148	-2.448	13.441	-0.000	-0.000	-0.001
	7:DERZ1	0.569	-0.933	8.942	9.008	0.001	0.001	0.000
	8:DERZ2	0.090	-1.213	-12.047	12.109	-0.001	-0.001	-0.000
	9:DERX3	13.667	-0.593	0.208	13.681	0.000	0.000	0.001
	10:DERX4	-13.325	-0.742	-1.581	13.439	-0.000	-0.000	-0.001
48	11:DERZ3	0.411	-0.527	9.808	9.831	0.001	0.001	0.000
	12:DERZ4	-0.069	-0.807	-11.181	11.210	-0.001	-0.001	-0.000
	5:DERX1	13.683	-0.685	0.207	13.702	0.000	0.000	0.003
	6:DERX2	-13.136	-0.852	-2.774	13.452	0.000	-0.000	0.001
	7:DERZ1	0.516	-0.660	5.921	5.980	0.001	0.001	0.002
	8:DERZ2	0.032	-0.877	-8.488	8.533	-0.000	-0.001	0.002
	9:DERX3	13.548	-0.327	0.921	13.583	0.000	0.000	0.002
	10:DERX4	-13.271	-0.494	-2.060	13.439	0.000	-0.000	-0.000
	11:DERZ3	0.380	-0.302	6.635	6.653	0.001	0.001	0.001
	12:DERZ4	-0.104	-0.519	-7.774	7.792	-0.000	-0.001	0.001
	5:DERX1	14.346	-0.483	0.178	14.355	-0.000	0.000	0.002
	6:DERX2	-13.572	-0.790	-2.780	13.877	-0.000	-0.000	-0.001
49	7:DERZ1	2.273	-0.499	5.911	6.352	0.000	0.001	0.001
	8:DERZ2	-1.499	-0.774	-8.512	8.678	-0.000	-0.001	0.000
	9:DERX3	14.154	-0.216	0.900	14.184	-0.000	0.000	0.002
	10:DERX4	-13.765	-0.523	-2.058	13.928	-0.000	-0.000	-0.001
	11:DERZ3	2.080	-0.232	6.632	6.955	0.000	0.001	0.000
	12:DERZ4	-1.691	-0.507	-7.791	7.988	-0.000	-0.001	0.000
	5:DERX1	11.964	-1.083	-0.756	12.037	-0.003	0.000	-0.001
	6:DERX2	-11.965	-2.396	-2.477	12.451	-0.003	-0.000	-0.002
	7:DERZ1	4.991	-1.340	8.471	9.923	-0.002	0.001	-0.001
	8:DERZ2	-4.992	-2.139	-11.704	12.902	-0.004	-0.001	-0.001
	9:DERX3	11.962	-0.359	0.129	11.968	-0.001	0.000	-0.000
	10:DERX4	-11.967	-1.672	-1.592	12.188	-0.002	-0.000	-0.001
50	11:DERZ3	4.988	-0.616	9.356	10.621	-0.000	0.001	-0.000
	12:DERZ4	-4.994	-1.415	-10.818	11.999	-0.002	-0.001	-0.001
	5:DERX1	20.511	-0.939	-1.504	20.588	-0.001	0.001	0.001
	6:DERX2	-18.907	-1.077	-3.353	19.232	-0.001	0.000	-0.002
	7:DERZ1	9.229	-0.835	12.933	15.910	-0.000	0.002	0.000
	8:DERZ2	-7.624	-1.181	-17.790	19.391	-0.002	-0.001	-0.001

Node Displacements Cont...

[illegible]

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
81	5:DERX1	5.770	-0.556	-0.123	5.798	-0.001	0.000	0.001
	6:DERX2	-5.674	-0.589	-0.680	5.745	-0.001	-0.000	-0.001
	7:DERZ1	2.309	-0.545	3.258	4.030	-0.000	0.000	0.000
	8:DERZ2	-2.214	-0.600	-4.061	4.664	-0.002	-0.000	-0.000
	9:DERX3	5.744	-0.327	0.112	5.754	-0.000	0.000	0.001
	10:DERX4	-5.700	-0.359	-0.445	5.729	-0.001	-0.000	-0.001
	11:DERZ3	2.283	-0.316	3.493	4.185	0.000	0.000	0.000
	12:DERZ4	-2.240	-0.370	-3.826	4.448	-0.001	-0.000	-0.000
82	5:DERX1	6.288	-0.825	-0.124	6.343	0.001	0.000	0.001
	6:DERX2	-6.099	-0.857	-0.680	6.196	0.000	-0.000	-0.001
	7:DERZ1	0.335	-0.701	3.258	3.349	0.001	0.000	0.000
	8:DERZ2	-0.146	-0.981	-4.062	4.182	-0.000	-0.000	0.000
	9:DERX3	6.240	-0.500	0.112	6.261	0.000	0.000	0.001
	10:DERX4	-6.147	-0.533	-0.444	6.186	0.000	-0.000	-0.001
	11:DERZ3	0.287	-0.377	3.494	3.526	0.001	0.000	0.000
	12:DERZ4	-0.193	-0.656	-3.826	3.887	-0.000	-0.000	0.000
83	5:DERX1	6.531	-0.637	-0.126	6.564	-0.000	0.000	0.001
	6:DERX2	-6.291	-0.738	-0.681	6.371	-0.001	-0.000	-0.001
	7:DERZ1	1.199	-0.531	3.257	3.511	0.000	0.000	0.000
	8:DERZ2	-0.958	-0.844	-4.065	4.261	-0.001	-0.000	-0.000
	9:DERX3	6.472	-0.344	0.111	6.482	-0.000	0.000	0.001
	10:DERX4	-6.351	-0.445	-0.444	6.382	-0.000	-0.000	-0.001
	11:DERZ3	1.139	-0.238	3.494	3.683	0.001	0.000	0.000
	12:DERZ4	-1.018	-0.550	-3.828	3.999	-0.001	-0.000	-0.000
84	5:DERX1	6.290	-0.500	0.275	6.316	0.001	0.000	0.001
	6:DERX2	-6.079	-0.603	-1.035	6.196	0.000	-0.000	-0.001
	7:DERZ1	0.345	-0.478	2.950	3.009	0.001	0.000	-0.000
	8:DERZ2	-0.134	-0.625	-3.710	3.765	-0.000	-0.000	-0.000
	9:DERX3	6.237	-0.247	0.501	6.262	0.000	0.000	0.001
	10:DERX4	-6.132	-0.351	-0.808	6.195	0.000	-0.000	-0.001
	11:DERZ3	0.292	-0.226	3.177	3.198	0.001	0.000	-0.000
	12:DERZ4	-0.187	-0.372	-3.484	3.508	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
85	5:DERX1	6.514	-0.461	0.277	6.536	-0.001	0.000	0.001
	6:DERX2	-6.264	-0.665	-1.031	6.383	-0.001	-0.000	-0.002
	7:DERZ1	1.201	-0.467	2.953	3.222	-0.000	0.000	0.000
	8:DERZ2	-0.951	-0.659	-3.706	3.883	-0.001	-0.000	-0.000
	9:DERX3	6.451	-0.217	0.503	6.474	-0.000	0.000	0.001
	10:DERX4	-6.326	-0.422	-0.806	6.391	-0.000	-0.000	-0.001
	11:DERZ3	1.138	-0.223	3.178	3.383	0.000	0.000	0.000
	12:DERZ4	-1.013	-0.416	-3.481	3.649	-0.001	-0.000	-0.000
86	5:DERX1	5.774	-0.520	0.289	5.804	-0.001	0.000	0.000
	6:DERX2	-5.665	-0.605	-1.023	5.789	-0.001	-0.000	-0.001
	7:DERZ1	2.313	-0.528	2.964	3.797	-0.000	0.000	0.000
	8:DERZ2	-2.204	-0.596	-3.698	4.346	-0.002	-0.000	-0.001
	9:DERX3	5.744	-0.267	0.509	5.773	-0.000	0.000	0.001
	10:DERX4	-5.695	-0.352	-0.803	5.762	-0.001	-0.000	-0.001
	11:DERZ3	2.283	-0.276	3.184	3.928	0.000	0.000	0.000
	12:DERZ4	-2.234	-0.344	-3.478	4.148	-0.001	-0.000	-0.000
87	5:DERX1	14.432	-1.031	-0.898	14.497	-0.000	0.000	0.000
	6:DERX2	-13.645	-1.212	-2.020	13.847	-0.000	-0.000	-0.001
	7:DERZ1	2.713	-0.871	6.692	7.273	0.000	0.001	-0.000
	8:DERZ2	-1.926	-1.372	-9.610	9.897	-0.001	-0.001	-0.000
	9:DERX3	14.235	-0.543	-0.091	14.246	-0.000	0.000	0.000
	10:DERX4	-13.843	-0.723	-1.213	13.915	-0.000	-0.000	-0.001
	11:DERZ3	2.516	-0.382	7.499	7.919	0.001	0.001	-0.000
	12:DERZ4	-2.124	-0.883	-8.803	9.098	-0.001	-0.001	-0.000
89	5:DERX1	13.762	-1.369	-0.893	13.859	-0.000	0.000	-0.000
	6:DERX2	-13.150	-1.424	-2.018	13.380	-0.000	-0.000	-0.002
	7:DERZ1	0.546	-1.168	6.696	6.819	0.001	0.001	-0.001
	8:DERZ2	0.067	-1.624	-9.607	9.743	-0.001	-0.001	-0.001
	9:DERX3	13.613	-0.812	-0.088	13.638	-0.000	0.000	0.000
	10:DERX4	-13.299	-0.867	-1.213	13.383	-0.000	-0.000	-0.001
	11:DERZ3	0.396	-0.611	7.501	7.536	0.001	0.001	-0.000
	12:DERZ4	-0.083	-1.068	-8.802	8.867	-0.001	-0.001	-0.000
90	5:DERX1	13.714	-5.599	-0.453	14.820	0.003	0.000	0.001
	6:DERX2	-13.149	-5.997	-2.380	14.646	0.002	-0.000	0.000
	7:DERZ1	0.524	-5.637	6.068	8.299	0.002	0.001	0.001
	8:DERZ2	0.041	-5.959	-8.901	10.712	0.002	-0.001	0.000
	9:DERX3	13.575	-2.794	0.327	13.863	0.001	0.000	0.001
	10:DERX4	-13.288	-3.192	-1.600	13.760	0.001	-0.000	-0.000
	11:DERZ3	0.385	-2.832	6.848	7.421	0.001	0.001	0.000
	12:DERZ4	-0.099	-3.154	-8.122	8.713	0.001	-0.001	0.000
92	5:DERX1	21.542	-1.387	-1.574	21.644	0.000	0.000	-0.000
	6:DERX2	-20.363	-1.556	-3.402	20.704	0.000	-0.000	-0.001
	7:DERZ1	1.222	-1.355	13.006	13.133	0.000	0.001	-0.000
	8:DERZ2	-0.043	-1.588	-17.982	18.052	0.000	-0.001	-0.001
	9:DERX3	21.253	-0.838	-0.224	21.271	0.000	0.000	-0.000
	10:DERX4	-20.652	-1.006	-2.052	20.778	0.000	-0.000	-0.000
	11:DERZ3	0.934	-0.806	14.356	14.409	0.000	0.001	-0.000
	12:DERZ4	-0.332	-1.039	-16.632	16.667	0.000	-0.001	-0.000
98	5:DERX1	20.686	-3.056	-1.954	21.002	0.002	0.000	-0.001
	6:DERX2	-20.798	-4.239	-4.575	21.714	0.001	-0.000	-0.001
	7:DERZ1	0.502	-2.648	8.875	9.275	0.002	0.001	-0.001
	8:DERZ2	-0.614	-4.648	-15.405	16.102	0.001	-0.001	-0.001
	9:DERX3	20.610	-1.792	-0.338	20.690	0.001	0.000	-0.000
	10:DERX4	-20.875	-2.975	-2.958	21.293	0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
101	11:DERZ3	0.425	-1.384	10.492	10.591	0.001	0.001	-0.000
	12:DERZ4	-0.691	-3.384	-13.788	14.214	0.000	-0.001	-0.001
	5:DERX1	22.016	-1.172	-1.456	22.095	-0.000	0.000	0.000
	6:DERX2	-20.882	-1.423	-3.591	21.236	-0.000	-0.000	-0.000
	7:DERZ1	3.773	-0.999	10.412	11.119	0.000	0.001	0.000
	8:DERZ2	-2.640	-1.597	-15.458	15.763	-0.001	-0.001	0.000
	9:DERX3	21.759	-0.622	-0.068	21.768	0.000	0.000	0.000
	10:DERX4	-21.139	-0.873	-2.203	21.272	-0.000	-0.000	-0.000
	11:DERZ3	3.516	-0.448	11.799	12.320	0.000	0.001	0.000
	12:DERZ4	-2.897	-1.047	-14.071	14.404	-0.000	-0.001	-0.000
	5:DERX1	21.417	-1.686	-1.613	21.544	0.001	0.000	0.000
	6:DERX2	-20.389	-1.755	-3.686	20.794	0.000	-0.000	-0.001
102	7:DERZ1	1.126	-1.459	10.115	10.282	0.001	0.001	0.000
	8:DERZ2	-0.099	-1.982	-15.414	15.542	0.000	-0.001	-0.000
	9:DERX3	21.163	-1.020	-0.191	21.189	0.001	0.000	0.000
	10:DERX4	-20.643	-1.089	-2.264	20.795	0.000	-0.000	-0.001
	11:DERZ3	0.873	-0.793	11.537	11.597	0.001	0.001	0.000
	12:DERZ4	-0.352	-1.316	-13.993	14.059	-0.000	-0.001	-0.000
	5:DERX1	0.070	-2.828	0.002	2.829	-0.002	0.000	0.000
	6:DERX2	-0.070	-2.828	-0.002	2.829	-0.002	-0.000	0.000
	7:DERZ1	0.000	-2.828	0.000	2.828	-0.002	0.000	0.000
	8:DERZ2	-0.000	-2.828	-0.000	2.828	-0.002	-0.000	0.000
	9:DERX3	0.070	-1.901	0.002	1.902	-0.001	0.000	0.000
	10:DERX4	-0.070	-1.901	-0.002	1.902	-0.001	-0.000	0.000
103	11:DERZ3	0.000	-1.901	0.000	1.901	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.901	-0.000	1.901	-0.001	-0.000	0.000
	5:DERX1	0.123	-1.785	0.000	1.789	-0.001	0.000	0.000
	6:DERX2	-0.123	-1.785	-0.000	1.789	-0.001	-0.000	0.000
	7:DERZ1	0.000	-1.785	0.000	1.785	-0.001	0.000	0.000
	8:DERZ2	-0.000	-1.785	-0.000	1.785	-0.001	-0.000	0.000
	9:DERX3	0.123	-0.842	0.000	0.851	-0.001	0.000	0.000
	10:DERX4	-0.123	-0.842	-0.000	0.851	-0.001	-0.000	0.000
	11:DERZ3	0.000	-0.842	0.000	0.842	-0.001	0.000	0.000
	12:DERZ4	-0.000	-0.842	-0.000	0.842	-0.001	-0.000	0.000
	5:DERX1	0.096	-2.471	0.000	2.473	-0.001	0.000	0.000
	6:DERX2	-0.096	-2.471	-0.000	2.473	-0.001	-0.000	0.000
104	7:DERZ1	0.000	-2.471	0.000	2.471	-0.001	0.000	0.000
	8:DERZ2	-0.000	-2.471	-0.000	2.471	-0.001	-0.000	0.000
	9:DERX3	0.096	-1.567	0.000	1.570	-0.001	0.000	0.000
	10:DERX4	-0.096	-1.567	-0.000	1.570	-0.001	-0.000	0.000
	11:DERZ3	0.000	-1.567	0.000	1.567	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.567	-0.000	1.567	-0.001	-0.000	0.000
	5:DERX1	0.117	-2.897	0.000	2.900	-0.002	0.000	0.000
	6:DERX2	-0.117	-2.897	-0.000	2.900	-0.002	-0.000	0.000
	7:DERZ1	0.000	-2.897	0.000	2.897	-0.002	0.000	0.000
	8:DERZ2	-0.000	-2.897	-0.000	2.897	-0.002	-0.000	0.000
	9:DERX3	0.117	-1.534	0.000	1.538	-0.001	0.000	0.000
	10:DERX4	-0.117	-1.534	-0.000	1.538	-0.001	-0.000	0.000
105	11:DERZ3	0.000	-1.534	0.000	1.534	-0.001	0.000	0.000
	12:DERZ4	-0.000	-1.534	-0.000	1.534	-0.001	-0.000	0.000
	5:DERX1	0.062	-4.955	0.004	4.956	0.000	0.000	0.000
	6:DERX2	-0.062	-4.955	-0.004	4.956	0.000	-0.000	0.000
	7:DERZ1	0.000	-4.955	0.000	4.955	0.000	0.000	0.000
	8:DERZ2	-0.000	-4.955	-0.000	4.955	0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
108	9:DERX3	0.062	-3.325	0.004	3.325	0.000	0.000	0.000
	10:DERX4	-0.062	-3.325	-0.004	3.325	0.000	-0.000	0.000
	11:DERZ3	0.000	-3.325	0.000	3.325	0.000	0.000	0.000
	12:DERZ4	-0.000	-3.325	-0.000	3.325	0.000	-0.000	0.000
	5:DERX1	0.218	-3.058	0.000	3.066	0.000	0.000	0.000
	6:DERX2	-0.218	-3.058	-0.000	3.066	0.000	-0.000	0.000
	7:DERZ1	0.001	-3.058	0.000	3.058	0.000	0.000	0.000
	8:DERZ2	-0.001	-3.058	-0.000	3.058	0.000	-0.000	0.000
	9:DERX3	0.218	-1.443	0.000	1.460	0.000	0.000	0.000
	10:DERX4	-0.218	-1.443	-0.000	1.460	0.000	-0.000	0.000
	11:DERZ3	0.001	-1.443	0.000	1.443	0.000	0.000	0.000
	12:DERZ4	-0.001	-1.443	-0.000	1.443	0.000	-0.000	0.000
109	5:DERX1	0.150	-4.234	0.000	4.237	0.000	0.000	0.000
	6:DERX2	-0.150	-4.234	-0.000	4.237	0.000	-0.000	0.000
	7:DERZ1	0.001	-4.234	0.000	4.234	0.000	0.000	0.000
	8:DERZ2	-0.001	-4.234	-0.000	4.234	0.000	-0.000	0.000
	9:DERX3	0.150	-2.685	0.000	2.689	0.000	0.000	0.000
	10:DERX4	-0.150	-2.685	-0.000	2.689	0.000	-0.000	0.000
	11:DERZ3	0.001	-2.685	0.000	2.685	0.000	0.000	0.000
	12:DERZ4	-0.001	-2.685	-0.000	2.685	0.000	-0.000	0.000
110	5:DERX1	0.203	-4.965	0.000	4.969	0.000	0.000	0.000
	6:DERX2	-0.203	-4.965	-0.000	4.969	0.000	-0.000	0.000
	7:DERZ1	0.001	-4.965	0.000	4.965	0.000	0.000	0.000
	8:DERZ2	-0.001	-4.965	-0.000	4.965	0.000	-0.000	0.000
	9:DERX3	0.203	-2.628	0.000	2.636	0.000	0.000	0.000
	10:DERX4	-0.203	-2.628	-0.000	2.636	0.000	-0.000	0.000
	11:DERZ3	0.001	-2.628	0.000	2.628	0.000	0.000	0.000
	12:DERZ4	-0.001	-2.628	-0.000	2.628	0.000	-0.000	0.000
111	5:DERX1	0.088	-2.736	0.002	2.737	0.002	0.000	0.000
	6:DERX2	-0.088	-2.736	-0.002	2.737	0.002	-0.000	0.000
	7:DERZ1	0.000	-2.736	0.000	2.736	0.002	0.000	0.000
	8:DERZ2	-0.000	-2.736	-0.000	2.736	0.002	-0.000	0.000
	9:DERX3	0.088	-1.834	0.002	1.836	0.001	0.000	0.000
	10:DERX4	-0.088	-1.834	-0.002	1.836	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.834	0.000	1.834	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.834	-0.000	1.834	0.001	-0.000	0.000
112	5:DERX1	0.121	-1.680	0.000	1.685	0.001	0.000	0.000
	6:DERX2	-0.121	-1.680	-0.000	1.685	0.001	-0.000	0.000
	7:DERZ1	0.000	-1.680	0.000	1.680	0.001	0.000	0.000
	8:DERZ2	-0.000	-1.680	-0.000	1.680	0.001	-0.000	0.000
	9:DERX3	0.121	-0.793	0.000	0.802	0.001	0.000	0.000
	10:DERX4	-0.121	-0.793	-0.000	0.802	0.001	-0.000	0.000
	11:DERZ3	0.000	-0.793	0.000	0.793	0.001	0.000	0.000
	12:DERZ4	-0.000	-0.793	-0.000	0.793	0.001	-0.000	0.000
113	5:DERX1	0.104	-2.327	0.000	2.329	0.002	0.000	0.000
	6:DERX2	-0.104	-2.327	-0.000	2.329	0.002	-0.000	0.000
	7:DERZ1	0.000	-2.327	0.000	2.327	0.002	0.000	0.000
	8:DERZ2	-0.000	-2.327	-0.000	2.327	0.002	-0.000	0.000
	9:DERX3	0.104	-1.476	0.000	1.479	0.001	0.000	0.000
	10:DERX4	-0.104	-1.476	-0.000	1.479	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.476	0.000	1.476	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.476	-0.000	1.476	0.001	-0.000	0.000
114	5:DERX1	0.118	-2.729	0.000	2.731	0.002	0.000	0.000
	6:DERX2	-0.118	-2.729	-0.000	2.731	0.002	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.000	-2.729	0.000	2.729	0.002	0.000	0.000
	8:DERZ2	-0.000	-2.729	-0.000	2.729	0.002	-0.000	0.000
	9:DERX3	0.118	-1.444	0.000	1.449	0.001	0.000	0.000
	10:DERX4	-0.118	-1.444	-0.000	1.449	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.444	0.000	1.444	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.444	-0.000	1.444	0.001	-0.000	0.000
115	5:DERX1	0.000	-0.264	0.000	0.264	0.000	0.000	0.000
	6:DERX2	-0.000	-0.264	-0.000	0.264	0.000	-0.000	0.000
	7:DERZ1	0.000	-0.264	0.000	0.264	0.000	0.000	0.000
	8:DERZ2	-0.000	-0.264	-0.000	0.264	0.000	-0.000	0.000
	9:DERX3	0.000	-0.176	0.000	0.176	0.000	0.000	0.000
	10:DERX4	-0.000	-0.176	-0.000	0.176	0.000	-0.000	0.000
	11:DERZ3	0.000	-0.176	0.000	0.176	0.000	0.000	0.000
	12:DERZ4	-0.000	-0.176	-0.000	0.176	0.000	-0.000	0.000
116	5:DERX1	0.000	-0.160	0.000	0.160	0.000	0.000	0.000
	6:DERX2	-0.000	-0.160	-0.000	0.160	0.000	-0.000	0.000
	7:DERZ1	0.000	-0.160	0.000	0.160	0.000	0.000	0.000
	8:DERZ2	-0.000	-0.160	-0.000	0.160	0.000	-0.000	0.000
	9:DERX3	0.000	-0.075	0.000	0.075	0.000	0.000	0.000
	10:DERX4	-0.000	-0.075	-0.000	0.075	0.000	-0.000	0.000
	11:DERZ3	0.000	-0.075	0.000	0.075	0.000	0.000	0.000
	12:DERZ4	-0.000	-0.075	-0.000	0.075	0.000	-0.000	0.000
117	5:DERX1	0.000	-0.222	0.000	0.222	0.000	0.000	0.000
	6:DERX2	-0.000	-0.222	-0.000	0.222	0.000	-0.000	0.000
	7:DERZ1	0.000	-0.222	0.000	0.222	0.000	0.000	0.000
	8:DERZ2	-0.000	-0.222	-0.000	0.222	0.000	-0.000	0.000
	9:DERX3	0.000	-0.141	0.000	0.141	0.000	0.000	0.000
	10:DERX4	-0.000	-0.141	-0.000	0.141	0.000	-0.000	0.000
	11:DERZ3	0.000	-0.141	0.000	0.141	0.000	0.000	0.000
	12:DERZ4	-0.000	-0.141	-0.000	0.141	0.000	-0.000	0.000
118	5:DERX1	0.000	-0.261	0.000	0.261	0.000	0.000	0.000
	6:DERX2	-0.000	-0.261	-0.000	0.261	0.000	-0.000	0.000
	7:DERZ1	0.000	-0.261	0.000	0.261	0.000	0.000	0.000
	8:DERZ2	-0.000	-0.261	-0.000	0.261	0.000	-0.000	0.000
	9:DERX3	0.000	-0.138	0.000	0.138	0.000	0.000	0.000
	10:DERX4	-0.000	-0.138	-0.000	0.138	0.000	-0.000	0.000
	11:DERZ3	0.000	-0.138	0.000	0.138	0.000	0.000	0.000
	12:DERZ4	-0.000	-0.138	-0.000	0.138	0.000	-0.000	0.000
119	5:DERX1	6.148	-2.911	-0.017	6.802	-0.001	0.000	0.001
	6:DERX2	-6.125	-3.308	-0.844	7.012	-0.001	-0.000	-0.000
	7:DERZ1	1.748	-2.092	4.185	4.995	-0.001	0.000	0.000
	8:DERZ2	-1.725	-4.127	-5.046	6.744	-0.001	-0.000	0.000
	9:DERX3	6.143	-1.787	0.232	6.402	-0.001	0.000	0.001
	10:DERX4	-6.130	-2.184	-0.595	6.534	-0.001	-0.000	-0.001
	11:DERZ3	1.744	-0.968	4.434	4.862	-0.001	0.000	0.000
	12:DERZ4	-1.730	-3.003	-4.797	5.918	-0.001	-0.000	-0.000
120	5:DERX1	6.151	-4.203	0.774	7.490	-0.002	0.000	0.001
	6:DERX2	-6.099	-4.461	-1.464	7.697	-0.002	-0.000	0.001
	7:DERZ1	1.766	-3.882	3.471	5.498	-0.002	0.000	0.001
	8:DERZ2	-1.714	-4.783	-4.161	6.567	-0.002	-0.000	0.001
	9:DERX3	6.138	-1.806	0.986	6.474	-0.001	0.000	0.001
	10:DERX4	-6.111	-2.064	-1.253	6.571	-0.001	-0.000	0.000
	11:DERZ3	1.753	-1.484	3.682	4.340	-0.001	0.000	0.000
	12:DERZ4	-1.726	-2.386	-3.949	4.926	-0.001	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
121	5:DERX1	6.155	-4.119	-0.123	7.407	-0.002	0.000	0.001
	6:DERX2	-6.118	-4.197	-0.680	7.451	-0.002	-0.000	-0.001
	7:DERZ1	1.759	-3.591	3.261	5.160	-0.002	0.000	0.000
	8:DERZ2	-1.722	-4.726	-4.064	6.466	-0.002	-0.000	-0.000
	9:DERX3	6.147	-2.575	0.113	6.665	-0.001	0.000	0.001
	10:DERX4	-6.127	-2.653	-0.445	6.691	-0.001	-0.000	-0.001
	11:DERZ3	1.751	-2.046	3.497	4.413	-0.001	0.000	0.000
	12:DERZ4	-1.730	-3.181	-3.829	5.270	-0.001	-0.000	-0.000
122	5:DERX1	6.156	-4.572	0.286	7.674	-0.002	0.000	0.001
	6:DERX2	-6.109	-4.750	-1.027	7.806	-0.002	-0.000	-0.001
	7:DERZ1	1.765	-4.140	2.964	5.389	-0.002	0.000	-0.000
	8:DERZ2	-1.718	-5.182	-3.704	6.597	-0.002	-0.000	-0.001
	9:DERX3	6.145	-2.318	0.508	6.587	-0.001	0.000	0.001
	10:DERX4	-6.120	-2.496	-0.805	6.658	-0.001	-0.000	-0.001
	11:DERZ3	1.754	-1.886	3.186	4.096	-0.001	0.000	0.000
	12:DERZ4	-1.729	-2.928	-3.483	4.867	-0.001	-0.000	-0.000
123	5:DERX1	6.464	-4.418	-0.021	7.830	0.000	0.000	0.001
	6:DERX2	-6.492	-4.839	-0.848	8.141	0.000	-0.000	-0.000
	7:DERZ1	1.181	-4.416	4.185	6.198	0.001	0.000	0.001
	8:DERZ2	-1.209	-4.841	-5.054	7.102	-0.000	-0.000	0.000
	9:DERX3	6.476	-2.773	0.230	7.048	0.000	0.000	0.001
	10:DERX4	-6.480	-3.193	-0.597	7.249	-0.000	-0.000	-0.000
	11:DERZ3	1.193	-2.771	4.436	5.364	0.001	0.000	0.000
	12:DERZ4	-1.197	-3.195	-4.803	5.892	-0.000	-0.000	0.000
124	5:DERX1	6.470	-5.997	0.776	8.856	0.000	0.000	0.001
	6:DERX2	-6.445	-6.188	-1.461	9.053	0.000	-0.000	0.001
	7:DERZ1	1.218	-5.747	3.473	6.825	0.000	0.000	0.001
	8:DERZ2	-1.192	-6.437	-4.158	7.756	0.000	-0.000	0.001
	9:DERX3	6.467	-2.675	0.985	7.067	0.000	0.000	0.001
	10:DERX4	-6.448	-2.866	-1.251	7.167	0.000	-0.000	0.000
	11:DERZ3	1.214	-2.426	3.683	4.574	0.000	0.000	0.000
	12:DERZ4	-1.196	-3.116	-3.949	5.170	-0.000	-0.000	0.000
125	5:DERX1	6.474	-6.168	-0.123	8.943	0.000	0.000	0.001
	6:DERX2	-6.474	-6.206	-0.681	8.994	0.000	-0.000	-0.001
	7:DERZ1	1.202	-6.159	3.262	7.073	0.000	0.000	0.000
	8:DERZ2	-1.202	-6.215	-4.066	7.523	-0.000	-0.000	-0.000
	9:DERX3	6.478	-3.894	0.113	7.559	0.000	0.000	0.001
	10:DERX4	-6.470	-3.932	-0.445	7.584	0.000	-0.000	-0.001
	11:DERZ3	1.206	-3.885	3.498	5.365	0.000	0.000	0.000
	12:DERZ4	-1.198	-3.940	-3.830	5.624	-0.000	-0.000	-0.000
126	5:DERX1	6.476	-6.885	0.283	9.456	0.000	0.000	0.001
	6:DERX2	-6.459	-6.934	-1.030	9.532	0.000	-0.000	-0.001
	7:DERZ1	1.213	-6.881	2.962	7.589	0.001	0.000	-0.000
	8:DERZ2	-1.197	-6.938	-3.709	7.958	-0.000	-0.000	-0.000
	9:DERX3	6.475	-3.582	0.506	7.417	0.000	0.000	0.001
	10:DERX4	-6.460	-3.631	-0.807	7.455	-0.000	-0.000	-0.001
	11:DERZ3	1.212	-3.578	3.185	4.941	0.000	0.000	0.000
	12:DERZ4	-1.198	-3.635	-3.485	5.176	-0.000	-0.000	-0.000
127	5:DERX1	6.397	-2.769	-0.025	6.970	0.001	0.000	0.001
	6:DERX2	-6.293	-2.855	-0.851	6.962	0.001	-0.000	-0.001
	7:DERZ1	0.662	-2.129	4.183	4.740	0.002	0.000	0.000
	8:DERZ2	-0.558	-3.495	-5.059	6.174	0.001	-0.000	0.000
	9:DERX3	6.372	-1.790	0.228	6.623	0.001	0.000	0.001
	10:DERX4	-6.317	-1.876	-0.599	6.617	0.001	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
128	11:DERZ3	0.638	-1.150	4.436	4.627	0.001	0.000	0.000
	12:DERZ4	-0.583	-2.516	-4.807	5.456	0.001	-0.000	-0.000
	5:DERX1	6.391	-3.821	0.777	7.486	0.002	0.000	0.001
	6:DERX2	-6.277	-3.848	-1.457	7.505	0.002	-0.000	0.001
	7:DERZ1	0.668	-3.771	3.474	5.171	0.002	0.000	0.001
	8:DERZ2	-0.554	-3.898	-4.154	5.724	0.002	-0.000	0.001
	9:DERX3	6.364	-1.753	0.985	6.674	0.001	0.000	0.001
	10:DERX4	-6.304	-1.781	-1.248	6.669	0.001	-0.000	0.000
	11:DERZ3	0.641	-1.703	3.683	4.108	0.001	0.000	0.000
	12:DERZ4	-0.581	-1.831	-3.946	4.389	0.001	-0.000	0.000
	5:DERX1	6.400	-3.862	-0.123	7.476	0.002	0.000	0.001
	6:DERX2	-6.293	-3.961	-0.681	7.467	0.002	-0.000	-0.001
129	7:DERZ1	0.664	-3.311	3.261	4.695	0.002	0.000	0.000
	8:DERZ2	-0.558	-4.511	-4.065	6.098	0.002	-0.000	0.000
	9:DERX3	6.375	-2.428	0.113	6.822	0.001	0.000	0.001
	10:DERX4	-6.318	-2.527	-0.445	6.820	0.001	-0.000	-0.001
	11:DERZ3	0.639	-1.878	3.497	4.020	0.001	0.000	0.000
	12:DERZ4	-0.583	-3.078	-3.829	4.947	0.001	-0.000	0.000
	5:DERX1	6.398	-4.016	0.279	7.560	0.002	0.000	0.001
	6:DERX2	-6.286	-4.281	-1.033	7.675	0.002	-0.000	-0.001
	7:DERZ1	0.668	-3.605	2.957	4.710	0.002	0.000	-0.000
	8:DERZ2	-0.555	-4.692	-3.711	6.008	0.002	-0.000	-0.000
	9:DERX3	6.372	-2.052	0.504	6.713	0.001	0.000	0.001
	10:DERX4	-6.313	-2.317	-0.807	6.773	0.001	-0.000	-0.001
130	11:DERZ3	0.641	-1.641	3.182	3.637	0.001	0.000	-0.000
	12:DERZ4	-0.582	-2.728	-3.486	4.464	0.001	-0.000	-0.000
	5:DERX1	6.466	-0.644	-0.030	6.498	-0.000	0.000	0.001
	6:DERX2	-6.291	-0.677	-0.854	6.385	-0.000	-0.000	0.000
	7:DERZ1	0.773	-0.567	4.182	4.290	0.000	0.000	0.001
	8:DERZ2	-0.598	-0.754	-5.066	5.156	-0.000	-0.000	0.001
	9:DERX3	6.424	-0.375	0.225	6.438	-0.000	0.000	0.001
	10:DERX4	-6.334	-0.409	-0.599	6.375	-0.000	-0.000	-0.000
	11:DERZ3	0.730	-0.299	4.437	4.506	0.000	0.000	0.000
	12:DERZ4	-0.641	-0.485	-4.811	4.878	-0.000	-0.000	0.000
	5:DERX1	6.428	0.399	0.775	6.487	-0.000	0.000	0.001
	6:DERX2	-6.209	0.301	-1.455	6.384	-0.000	-0.000	0.001
131	7:DERZ1	0.776	0.432	3.471	3.582	-0.000	0.000	0.001
	8:DERZ2	-0.557	0.268	-4.151	4.196	-0.000	-0.000	0.001
	9:DERX3	6.374	0.218	0.983	6.453	-0.000	0.000	0.001
	10:DERX4	-6.264	0.121	-1.247	6.388	-0.000	-0.000	0.000
	11:DERZ3	0.721	0.251	3.678	3.757	-0.000	0.000	0.000
	12:DERZ4	-0.611	0.087	-3.943	3.991	-0.000	-0.000	0.000
	5:DERX1	6.454	-0.513	-0.125	6.475	0.000	0.000	0.001
	6:DERX2	-6.250	-0.556	-0.681	6.312	0.000	-0.000	-0.001
	7:DERZ1	0.776	-0.397	3.258	3.373	0.000	0.000	0.000
	8:DERZ2	-0.573	-0.672	-4.065	4.160	-0.000	-0.000	0.000
	9:DERX3	6.403	-0.323	0.111	6.412	0.000	0.000	0.001
	10:DERX4	-6.301	-0.367	-0.444	6.327	0.000	-0.000	-0.001
132	11:DERZ3	0.726	-0.208	3.495	3.576	0.000	0.000	0.000
	12:DERZ4	-0.623	-0.482	-3.828	3.908	-0.000	-0.000	-0.000
	5:DERX1	6.442	-0.195	0.276	6.451	0.000	0.000	0.001
	6:DERX2	-6.223	-0.350	-1.033	6.318	-0.000	-0.000	-0.001
	7:DERZ1	0.779	-0.236	2.953	3.063	0.000	0.000	-0.000
	8:DERZ2	-0.560	-0.309	-3.709	3.764	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
135	9:DERX3	6.387	-0.095	0.502	6.408	0.000	0.000	0.001
	10:DERX4	-6.278	-0.251	-0.807	6.334	-0.000	-0.000	-0.001
	11:DERZ3	0.724	-0.137	3.178	3.263	0.000	0.000	0.000
	12:DERZ4	-0.614	-0.209	-3.483	3.543	-0.000	-0.000	-0.000
	5:DERX1	12.807	-3.350	0.187	13.239	-0.001	0.000	0.002
	6:DERX2	-12.756	-3.448	-2.824	13.512	-0.001	-0.001	0.000
	7:DERZ1	3.972	-3.065	5.893	7.739	-0.001	0.000	0.001
	8:DERZ2	-3.921	-3.734	-8.530	10.103	-0.001	-0.001	0.001
	9:DERX3	12.788	-1.680	0.920	12.931	-0.001	0.001	0.001
	10:DERX4	-12.775	-1.778	-2.091	13.066	-0.001	-0.001	-0.000
	11:DERZ3	3.953	-1.395	6.626	7.841	-0.000	0.000	0.001
	12:DERZ4	-3.940	-2.064	-7.797	8.977	-0.001	-0.001	0.000
136	5:DERX1	12.853	-2.496	-0.609	13.107	-0.001	0.001	0.001
	6:DERX2	-12.962	-2.691	-2.464	13.466	-0.001	-0.001	-0.001
	7:DERZ1	3.716	-1.764	8.967	9.865	-0.001	0.001	0.000
	8:DERZ2	-3.826	-3.423	-12.041	13.089	-0.001	-0.001	-0.000
	9:DERX3	12.858	-1.383	0.251	12.935	-0.000	0.001	0.001
	10:DERX4	-12.957	-1.578	-1.604	13.151	-0.001	-0.001	-0.001
	11:DERZ3	3.721	-0.651	9.827	10.528	-0.000	0.001	0.000
	12:DERZ4	-3.820	-2.310	-11.180	12.039	-0.001	-0.001	-0.000
	5:DERX1	13.631	-4.208	0.194	14.267	0.000	0.000	0.002
	6:DERX2	-13.420	-4.270	-2.807	14.359	0.000	-0.000	0.000
	7:DERZ1	2.938	-4.205	5.904	7.821	0.000	0.001	0.002
	8:DERZ2	-2.726	-4.273	-8.517	9.911	0.000	-0.001	0.001
137	9:DERX3	13.576	-2.116	0.920	13.770	0.000	0.000	0.002
	10:DERX4	-13.475	-2.178	-2.081	13.808	0.000	-0.000	-0.000
	11:DERZ3	2.883	-2.114	6.630	7.532	0.000	0.001	0.001
	12:DERZ4	-2.782	-2.181	-7.791	8.555	-0.000	-0.001	0.001
	5:DERX1	13.696	-2.513	0.201	13.926	0.001	0.000	0.002
	6:DERX2	-13.311	-2.750	-2.790	13.875	0.001	-0.000	0.001
	7:DERZ1	1.557	-2.295	5.913	6.531	0.001	0.001	0.002
	8:DERZ2	-1.172	-2.967	-8.503	9.081	0.001	-0.001	0.001
	9:DERX3	13.600	-1.223	0.921	13.686	0.001	0.000	0.002
	10:DERX4	-13.407	-1.460	-2.070	13.644	0.001	-0.000	-0.000
	11:DERZ3	1.461	-1.005	6.633	6.866	0.001	0.001	0.001
	12:DERZ4	-1.268	-1.678	-7.783	8.062	0.000	-0.001	0.001
141	5:DERX1	14.328	-1.400	-0.668	14.412	0.000	0.000	0.001
	6:DERX2	-13.570	-1.417	-2.451	13.862	-0.000	-0.000	0.000
	7:DERZ1	1.723	-1.254	8.935	9.185	0.000	0.001	0.001
	8:DERZ2	-0.965	-1.563	-12.054	12.193	-0.000	-0.001	0.001
	9:DERX3	14.141	-0.775	0.201	14.164	0.000	0.000	0.001
	10:DERX4	-13.756	-0.793	-1.581	13.870	-0.000	-0.000	-0.000
	11:DERZ3	1.536	-0.629	9.804	9.944	0.000	0.001	0.000
	12:DERZ4	-1.151	-0.939	-11.184	11.283	-0.000	-0.001	0.000
	5:DERX1	14.196	-0.456	0.186	14.204	0.000	0.000	0.002
	6:DERX2	-13.475	-0.649	-2.778	13.774	-0.000	-0.000	-0.000
	7:DERZ1	1.717	-0.397	5.914	6.171	0.000	0.001	0.001
	8:DERZ2	-0.997	-0.707	-8.506	8.593	-0.000	-0.001	0.001
142	9:DERX3	14.017	-0.220	0.906	14.048	0.000	0.000	0.002
	10:DERX4	-13.654	-0.412	-2.058	13.814	-0.000	-0.000	-0.001
	11:DERZ3	1.538	-0.161	6.634	6.811	0.000	0.001	0.001
	12:DERZ4	-1.175	-0.471	-7.786	7.888	-0.000	-0.001	0.000
	5:DERX1	14.235	-1.378	-0.896	14.329	0.000	0.000	0.000
	6:DERX2	-13.505	-1.423	-2.019	13.730	0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
147	7:DERZ1	1.718	-1.357	6.695	7.044	0.000	0.001	-0.000
	8:DERZ2	-0.989	-1.443	-9.610	9.768	0.000	-0.001	-0.001
	9:DERX3	14.054	-0.777	-0.089	14.076	0.000	0.000	0.000
	10:DERX4	-13.686	-0.822	-1.213	13.764	0.000	-0.000	-0.001
	11:DERZ3	1.538	-0.756	7.501	7.694	0.000	0.001	-0.000
	12:DERZ4	-1.170	-0.842	-8.803	8.921	0.000	-0.001	-0.000
	5:DERX1	12.839	-12.770	-0.890	18.130	-0.003	0.001	-0.002
	6:DERX2	-12.788	-15.077	-2.333	19.907	-0.003	-0.001	-0.003
	7:DERZ1	4.002	-13.224	7.912	15.921	-0.003	0.000	-0.002
	8:DERZ2	-3.951	-14.623	-11.135	18.800	-0.004	-0.001	-0.003
	9:DERX3	12.821	-6.266	-0.013	14.270	-0.002	0.001	-0.001
	10:DERX4	-12.807	-8.573	-1.456	15.480	-0.002	-0.001	-0.002
148	11:DERZ3	3.983	-6.720	8.789	11.759	-0.001	0.001	-0.001
	12:DERZ4	-3.970	-8.119	-10.258	13.671	-0.002	-0.001	-0.002
	5:DERX1	13.655	-19.352	-0.378	23.687	0.000	0.000	-0.000
	6:DERX2	-13.445	-21.382	-2.728	25.405	-0.000	-0.000	-0.000
	7:DERZ1	2.956	-19.801	7.351	21.328	0.000	0.001	0.000
	8:DERZ2	-2.746	-20.933	-10.457	23.560	-0.000	-0.001	-0.000
	9:DERX3	13.600	-9.805	0.470	16.772	0.000	0.000	-0.000
	10:DERX4	-13.500	-11.835	-1.880	18.052	-0.000	-0.000	-0.000
	11:DERZ3	2.901	-10.254	8.199	13.446	0.000	0.001	0.000
	12:DERZ4	-2.802	-11.386	-9.609	15.160	-0.000	-0.001	-0.000
	5:DERX1	13.708	-14.252	-0.465	19.780	0.003	0.000	0.002
	6:DERX2	-13.322	-15.250	-2.507	20.404	0.003	-0.000	0.002
149	7:DERZ1	1.563	-14.669	6.588	16.156	0.003	0.001	0.002
	8:DERZ2	-1.177	-14.832	-9.560	17.685	0.003	-0.001	0.002
	9:DERX3	13.612	-7.285	0.351	15.443	0.002	0.000	0.001
	10:DERX4	-13.418	-8.283	-1.692	15.859	0.001	-0.000	0.001
	11:DERZ3	1.467	-7.702	7.403	10.783	0.002	0.001	0.001
	12:DERZ4	-1.273	-7.865	-8.744	11.830	0.001	-0.001	0.001
	5:DERX1	21.788	-3.355	-1.507	22.096	0.000	0.000	0.000
	6:DERX2	-20.602	-4.047	-4.037	21.380	-0.000	-0.000	-0.000
	7:DERZ1	3.796	-3.200	11.065	12.128	0.001	0.001	0.000
	8:DERZ2	-2.610	-4.201	-16.609	17.330	-0.001	-0.001	-0.000
	9:DERX3	21.514	-2.227	-0.069	21.630	0.000	0.000	0.000
	10:DERX4	-20.876	-2.919	-2.599	21.238	-0.000	-0.000	-0.000
152	11:DERZ3	3.523	-2.072	12.503	13.154	0.001	0.001	0.000
	12:DERZ4	-2.884	-3.073	-15.172	15.746	-0.001	-0.001	-0.000
	5:DERX1	21.035	-1.293	-1.549	21.132	0.000	0.000	0.001
	6:DERX2	-20.120	-1.437	-3.391	20.454	0.000	-0.000	-0.000
	7:DERZ1	1.239	-1.229	12.719	12.838	0.001	0.001	0.001
	8:DERZ2	-0.325	-1.501	-17.658	17.725	-0.000	-0.001	0.000
	9:DERX3	20.776	-0.783	-0.219	20.792	0.000	0.000	0.001
	10:DERX4	-20.379	-0.926	-2.061	20.504	0.000	-0.000	-0.000
	11:DERZ3	0.981	-0.719	14.048	14.101	0.001	0.001	0.000
	12:DERZ4	-0.583	-0.990	-16.329	16.369	-0.000	-0.001	0.000
	5:DERX1	21.683	-1.583	-1.550	21.796	0.000	0.000	0.001
	6:DERX2	-20.556	-1.644	-3.400	20.900	-0.000	-0.000	-0.001
153	7:DERZ1	3.763	-1.202	12.718	13.317	0.000	0.001	0.000
	8:DERZ2	-2.637	-2.026	-17.668	17.978	-0.000	-0.001	-0.000
	9:DERX3	21.421	-0.891	-0.217	21.440	0.000	0.000	0.001
	10:DERX4	-20.818	-0.952	-2.067	20.942	-0.000	-0.000	-0.001
	11:DERZ3	3.501	-0.509	14.051	14.489	0.000	0.001	0.000
	12:DERZ4	-2.899	-1.333	-16.335	16.644	-0.000	-0.001	-0.000
154	5:DERX1	21.683	-1.583	-1.550	21.796	0.000	0.000	0.001
	6:DERX2	-20.556	-1.644	-3.400	20.900	-0.000	-0.000	-0.001
	7:DERZ1	3.763	-1.202	12.718	13.317	0.000	0.001	0.000
	8:DERZ2	-2.637	-2.026	-17.668	17.978	-0.000	-0.001	-0.000
	9:DERX3	21.421	-0.891	-0.217	21.440	0.000	0.000	0.001
	10:DERX4	-20.818	-0.952	-2.067	20.942	-0.000	-0.000	-0.001
	11:DERZ3	3.501	-0.509	14.051	14.489	0.000	0.001	0.000
	12:DERZ4	-2.899	-1.333	-16.335	16.644	-0.000	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
155	5:DERX1	20.316	-1.131	-1.406	20.396	-0.000	0.000	0.002
	6:DERX2	-18.997	-1.359	-3.244	19.320	-0.000	-0.000	-0.002
	7:DERZ1	3.645	-0.961	9.365	10.095	0.001	0.001	0.000
	8:DERZ2	-2.325	-1.528	-14.015	14.289	-0.001	-0.001	-0.000
	9:DERX3	20.001	-0.599	-0.127	20.010	0.000	0.000	0.002
	10:DERX4	-19.312	-0.828	-1.964	19.430	-0.000	-0.000	-0.002
	11:DERZ3	3.329	-0.430	10.644	11.161	0.001	0.001	0.000
	12:DERZ4	-2.641	-0.997	-12.736	13.045	-0.001	-0.001	-0.000
156	5:DERX1	13.705	-11.431	-0.459	17.852	0.003	0.000	0.002
	6:DERX2	-13.318	-11.544	-2.383	17.785	0.003	-0.000	0.002
	7:DERZ1	1.561	-11.388	6.067	12.998	0.003	0.001	0.002
	8:DERZ2	-1.175	-11.586	-8.908	14.662	0.003	-0.001	0.002
	9:DERX3	13.608	-5.708	0.323	14.761	0.001	0.000	0.001
	10:DERX4	-13.415	-5.821	-1.601	14.710	0.001	-0.000	0.001
	11:DERZ3	1.465	-5.665	6.849	9.008	0.001	0.001	0.001
	12:DERZ4	-1.271	-5.863	-8.127	10.101	0.001	-0.001	0.001
157	5:DERX1	13.644	-14.606	-0.465	19.993	0.000	0.000	0.002
	6:DERX2	-13.432	-14.704	-2.386	20.058	-0.000	-0.000	0.002
	7:DERZ1	2.946	-14.484	6.063	15.976	0.000	0.001	0.002
	8:DERZ2	-2.734	-14.826	-8.913	17.514	-0.000	-0.001	0.002
	9:DERX3	13.588	-7.138	0.319	15.352	0.000	0.000	0.001
	10:DERX4	-13.488	-7.236	-1.602	15.390	-0.000	-0.000	0.001
	11:DERZ3	2.890	-7.016	6.846	10.220	0.000	0.001	0.001
	12:DERZ4	-2.790	-7.358	-8.129	11.314	-0.000	-0.001	0.001
158	5:DERX1	12.821	-11.015	-0.472	16.909	-0.003	0.000	0.002
	6:DERX2	-12.771	-11.373	-2.388	17.266	-0.003	-0.001	0.002
	7:DERZ1	3.981	-10.905	6.055	13.093	-0.003	0.000	0.002
	8:DERZ2	-3.931	-11.483	-8.914	15.059	-0.003	-0.001	0.002
	9:DERX3	12.803	-5.262	0.314	13.845	-0.001	0.001	0.001
	10:DERX4	-12.789	-5.620	-1.602	14.061	-0.002	-0.001	0.001
	11:DERZ3	3.963	-5.152	6.840	9.436	-0.002	0.000	0.001
	12:DERZ4	-3.949	-5.730	-8.129	10.700	-0.002	-0.001	0.001
159	5:DERX1	11.853	-2.771	-0.479	12.183	-0.004	0.000	0.000
	6:DERX2	-11.948	-3.520	-2.390	12.683	-0.004	-0.000	-0.000
	7:DERZ1	4.916	-2.981	6.042	8.340	-0.003	0.001	0.000
	8:DERZ2	-5.010	-3.311	-8.911	10.746	-0.004	-0.001	-0.000
	9:DERX3	11.871	-1.197	0.309	11.935	-0.002	0.000	0.000
	10:DERX4	-11.930	-1.946	-1.602	12.194	-0.002	-0.000	-0.000
	11:DERZ3	4.934	-1.406	6.830	8.542	-0.002	0.001	0.000
	12:DERZ4	-4.993	-1.736	-8.123	9.692	-0.002	-0.001	-0.000
160	5:DERX1	14.214	-2.483	-0.450	14.436	0.001	0.000	0.000
	6:DERX2	-13.490	-3.547	-2.380	14.150	0.001	-0.000	0.000
	7:DERZ1	1.718	-2.939	6.077	6.965	0.001	0.001	0.000
	8:DERZ2	-0.994	-3.091	-8.907	9.481	0.001	-0.001	0.000
	9:DERX3	14.034	-1.014	0.329	14.075	0.001	0.000	0.000
	10:DERX4	-13.669	-2.078	-1.601	13.919	0.000	-0.000	0.000
	11:DERZ3	1.539	-1.470	6.856	7.179	0.001	0.001	0.000
	12:DERZ4	-1.174	-1.622	-8.128	8.371	0.000	-0.001	0.000
161	5:DERX1	14.447	-1.732	-0.448	14.557	-0.000	0.000	0.000
	6:DERX2	-13.649	-3.282	-2.380	14.238	-0.000	-0.000	-0.000
	7:DERZ1	2.717	-2.149	6.081	6.998	0.000	0.001	0.000
	8:DERZ2	-1.919	-2.864	-8.909	9.553	-0.001	-0.001	0.000
	9:DERX3	14.247	-0.520	0.331	14.261	0.000	0.000	0.000
	10:DERX4	-13.848	-2.070	-1.602	14.094	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
162	11:DERZ3	2.518	-0.938	6.859	7.367	0.000	0.001	0.000
	12:DERZ4	-2.119	-1.653	-8.130	8.563	-0.000	-0.001	-0.000
	5:DERX1	14.931	-3.638	-0.448	15.374	-0.001	0.000	0.000
	6:DERX2	-14.016	-5.328	-2.381	15.183	-0.001	-0.000	0.000
	7:DERZ1	4.394	-2.933	6.083	8.056	-0.001	0.001	0.000
	8:DERZ2	-3.479	-6.033	-8.911	11.310	-0.002	-0.001	0.000
	9:DERX3	14.699	-1.481	0.331	14.777	-0.000	0.000	0.000
	10:DERX4	-14.249	-3.171	-1.602	14.685	-0.001	-0.000	0.000
	11:DERZ3	4.161	-0.776	6.862	8.062	-0.000	0.001	0.000
	12:DERZ4	-3.711	-3.876	-8.132	9.743	-0.001	-0.001	-0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	6.546	-0.334	0.253	6.560	-0.000	0.000	-0.000
	6:DERX2	-6.327	-0.516	-1.335	6.487	-0.001	-0.000	-0.001
	7:DERZ1	1.193	-0.239	5.427	5.562	0.001	0.000	-0.000
	8:DERZ2	-0.974	-0.610	-6.509	6.610	-0.002	-0.000	-0.001
	9:DERX3	6.492	-0.165	0.558	6.518	0.000	0.000	0.000
	10:DERX4	-6.382	-0.347	-1.030	6.474	-0.000	-0.000	-0.001
164	11:DERZ3	1.139	-0.071	5.732	5.845	0.001	0.000	0.000
	12:DERZ4	-1.029	-0.442	-6.204	6.304	-0.002	-0.000	-0.001
	5:DERX1	14.457	-0.492	0.010	14.465	-0.000	0.000	-0.001
	6:DERX2	-13.633	-0.755	-3.284	14.044	-0.000	-0.000	-0.001
	7:DERZ1	2.736	-0.356	12.043	12.355	0.001	0.001	-0.001
	8:DERZ2	-1.912	-0.891	-15.317	15.462	-0.001	-0.001	-0.002
	9:DERX3	14.251	-0.243	0.934	14.284	0.000	0.000	-0.000
	10:DERX4	-13.839	-0.506	-2.359	14.048	-0.000	-0.000	-0.001
	11:DERZ3	2.530	-0.108	12.967	13.212	0.001	0.001	-0.000
	12:DERZ4	-2.118	-0.642	-14.392	14.562	-0.001	-0.001	-0.001
	5:DERX1	0.000	-0.681	0.000	0.681	-0.001	0.000	-0.000
	6:DERX2	-0.000	-0.681	-0.000	0.681	-0.001	-0.000	-0.000
165	7:DERZ1	0.000	-0.681	0.000	0.681	-0.001	0.000	-0.000
	8:DERZ2	-0.000	-0.681	-0.000	0.681	-0.001	-0.000	-0.000
	9:DERX3	0.000	-0.370	0.000	0.370	-0.000	0.000	-0.000
	10:DERX4	-0.000	-0.370	-0.000	0.370	-0.000	-0.000	-0.000
	11:DERZ3	0.000	-0.370	0.000	0.370	-0.000	0.000	-0.000
	12:DERZ4	-0.000	-0.370	-0.000	0.370	-0.000	-0.000	-0.000
	5:DERX1	6.546	-1.945	0.156	6.831	-0.001	0.000	-0.000
	6:DERX2	-6.321	-2.142	-1.212	6.783	-0.001	-0.000	-0.001
	7:DERZ1	1.197	-0.794	5.015	5.216	-0.000	0.000	-0.000
	8:DERZ2	-0.972	-3.293	-6.071	6.975	-0.002	-0.000	-0.001
	9:DERX3	6.490	-0.986	0.454	6.580	-0.000	0.000	-0.000
	10:DERX4	-6.377	-1.183	-0.914	6.550	-0.001	-0.000	-0.000
166	11:DERZ3	1.141	0.164	5.313	5.436	0.000	0.000	-0.000
	12:DERZ4	-1.028	-2.334	-5.773	6.311	-0.001	-0.000	-0.000
	5:DERX1	14.456	-2.239	-0.203	14.630	-0.001	0.000	-0.000
	6:DERX2	-13.643	-2.687	-2.947	14.214	-0.001	-0.000	-0.001
	7:DERZ1	2.731	-1.313	11.226	11.628	-0.000	0.001	-0.000
	8:DERZ2	-1.917	-3.613	-14.376	14.947	-0.002	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
170	9:DERX3	14.253	-1.140	0.683	14.315	-0.000	0.000	-0.000
	10:DERX4	-13.846	-1.588	-2.060	14.089	-0.000	-0.000	-0.000
	11:DERZ3	2.527	-0.214	12.112	12.375	0.000	0.001	-0.000
	12:DERZ4	-2.121	-2.514	-13.489	13.885	-0.001	-0.001	-0.001
	5:DERX1	0.005	-1.704	0.002	1.704	0.001	0.000	0.000
	6:DERX2	-0.005	-1.704	-0.002	1.704	0.001	-0.000	0.000
	7:DERZ1	0.000	-1.704	0.000	1.704	0.001	0.000	0.000
	8:DERZ2	-0.000	-1.704	-0.000	1.704	0.001	-0.000	0.000
	9:DERX3	0.005	-1.130	0.002	1.130	0.001	0.000	0.000
	10:DERX4	-0.005	-1.130	-0.002	1.130	0.001	-0.000	0.000
	11:DERZ3	0.000	-1.130	0.000	1.130	0.001	0.000	0.000
	12:DERZ4	-0.000	-1.130	-0.000	1.130	0.001	-0.000	0.000
172	5:DERX1	14.323	-2.472	-0.198	14.537	0.001	0.000	-0.000
	6:DERX2	-13.907	-2.815	-2.939	14.490	0.001	-0.000	-0.001
	7:DERZ1	0.565	-1.343	11.229	11.323	0.001	0.001	-0.000
	8:DERZ2	-0.149	-3.944	-14.366	14.898	0.001	-0.001	-0.001
	9:DERX3	14.202	-1.428	0.686	14.290	0.001	0.000	0.000
	10:DERX4	-14.029	-1.770	-2.055	14.289	0.000	-0.000	-0.001
	11:DERZ3	0.444	-0.299	12.113	12.125	0.001	0.001	0.000
	12:DERZ4	-0.271	-2.899	-13.482	13.792	0.000	-0.001	-0.001
173	5:DERX1	0.002	-4.107	0.001	4.107	-0.002	0.000	-0.001
	6:DERX2	-0.002	-4.107	-0.001	4.107	-0.002	-0.000	-0.001
	7:DERZ1	0.000	-4.107	0.000	4.107	-0.002	0.000	-0.001
	8:DERZ2	-0.000	-4.107	-0.000	4.107	-0.002	-0.000	-0.001
	9:DERX3	0.002	-1.991	0.001	1.991	-0.001	0.000	-0.000
	10:DERX4	-0.002	-1.991	-0.001	1.991	-0.001	-0.000	-0.000
	11:DERZ3	0.000	-1.991	0.000	1.991	-0.001	0.000	-0.000
	12:DERZ4	-0.000	-1.991	-0.000	1.991	-0.001	-0.000	-0.000
174	5:DERX1	6.726	-6.117	0.156	9.092	-0.002	0.000	-0.001
	6:DERX2	-6.437	-6.758	-1.212	9.411	-0.002	-0.000	-0.001
	7:DERZ1	1.932	-2.933	5.016	6.124	-0.001	0.000	-0.001
	8:DERZ2	-1.644	-9.942	-6.073	11.765	-0.003	-0.000	-0.001
	9:DERX3	6.654	-2.717	0.454	7.202	-0.001	0.000	-0.000
	10:DERX4	-6.509	-3.358	-0.914	7.381	-0.001	-0.000	-0.001
	11:DERZ3	1.861	0.467	5.314	5.650	0.000	0.000	-0.000
	12:DERZ4	-1.716	-6.542	-5.774	8.893	-0.002	-0.000	-0.001
175	5:DERX1	14.855	-5.332	-0.203	15.784	-0.001	0.000	-0.001
	6:DERX2	-13.984	-5.881	-2.948	15.454	-0.001	-0.000	-0.001
	7:DERZ1	4.403	-2.612	11.228	12.340	-0.001	0.001	-0.001
	8:DERZ2	-3.533	-8.601	-14.378	17.123	-0.002	-0.001	-0.001
	9:DERX3	14.630	-2.576	0.684	14.871	-0.001	0.000	-0.000
	10:DERX4	-14.209	-3.124	-2.061	14.693	-0.001	-0.000	-0.001
	11:DERZ3	4.179	0.144	12.114	12.816	0.000	0.001	-0.000
	12:DERZ4	-3.757	-5.845	-13.492	15.176	-0.001	-0.001	-0.001
176	5:DERX1	0.004	-1.763	0.006	1.763	-0.001	0.000	-0.001
	6:DERX2	-0.004	-1.763	-0.006	1.763	-0.001	-0.000	-0.001
	7:DERZ1	0.000	-1.763	0.000	1.763	-0.001	0.000	-0.001
	8:DERZ2	-0.000	-1.763	-0.000	1.763	-0.001	-0.000	-0.001
	9:DERX3	0.004	-0.829	0.006	0.829	-0.000	0.000	-0.001
	10:DERX4	-0.004	-0.829	-0.006	0.829	-0.000	-0.000	-0.001
	11:DERZ3	0.000	-0.829	0.000	0.829	-0.000	0.000	-0.001
	12:DERZ4	-0.000	-0.829	-0.000	0.829	-0.000	-0.000	-0.001
177	5:DERX1	6.725	-3.177	0.256	7.442	-0.001	0.000	-0.001
	6:DERX2	-6.433	-4.082	-1.336	7.735	-0.002	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
178	7:DERZ1	1.933	0.313	5.430	5.772	-0.000	0.000	-0.001
	8:DERZ2	-1.641	-7.572	-6.510	10.120	-0.003	-0.000	-0.002
	9:DERX3	6.653	-1.272	0.561	6.797	-0.001	0.000	-0.001
	10:DERX4	-6.506	-2.178	-1.031	6.938	-0.001	-0.000	-0.001
	11:DERZ3	1.860	2.217	5.735	6.424	0.001	0.000	-0.001
	12:DERZ4	-1.713	-5.667	-6.205	8.576	-0.002	-0.000	-0.001
	5:DERX1	14.844	-2.688	0.016	15.085	-0.001	0.000	-0.001
	6:DERX2	-13.976	-3.174	-3.291	14.704	-0.001	-0.000	-0.002
	7:DERZ1	4.403	0.123	12.047	12.827	-0.000	0.001	-0.001
	8:DERZ2	-3.535	-5.985	-15.323	16.825	-0.002	-0.001	-0.002
	9:DERX3	14.620	-1.210	0.940	14.700	-0.000	0.000	-0.001
	10:DERX4	-14.200	-1.696	-2.366	14.495	-0.001	-0.000	-0.001
179	11:DERZ3	4.179	1.601	12.972	13.722	0.001	0.001	-0.001
	12:DERZ4	-3.759	-4.506	-14.398	15.548	-0.002	-0.001	-0.001
	5:DERX1	0.045	-4.876	0.004	4.877	-0.000	0.000	0.001
	6:DERX2	-0.045	-4.876	-0.004	4.877	-0.000	-0.000	0.001
	7:DERZ1	0.000	-4.876	0.000	4.876	-0.000	0.000	0.001
	8:DERZ2	-0.000	-4.876	-0.000	4.876	-0.000	-0.000	0.001
	9:DERX3	0.045	-3.273	0.004	3.273	-0.000	0.000	0.000
	10:DERX4	-0.045	-3.273	-0.004	3.273	-0.000	-0.000	0.000
	11:DERZ3	0.000	-3.273	0.000	3.273	-0.000	0.000	0.000
	12:DERZ4	-0.000	-3.273	-0.000	3.273	-0.000	-0.000	0.000
	5:DERX1	6.429	-4.365	-0.020	7.771	-0.000	0.000	0.001
	6:DERX2	-6.471	-4.831	-0.847	8.120	-0.000	-0.000	0.000
180	7:DERZ1	1.284	-4.168	4.185	6.045	0.000	0.000	0.001
	8:DERZ2	-1.326	-5.028	-5.053	7.250	-0.001	-0.000	0.000
	9:DERX3	6.444	-2.725	0.230	7.000	-0.000	0.000	0.001
	10:DERX4	-6.455	-3.191	-0.597	7.226	-0.000	-0.000	-0.000
	11:DERZ3	1.299	-2.528	4.436	5.268	0.000	0.000	0.000
	12:DERZ4	-1.311	-3.387	-4.802	6.021	-0.001	-0.000	0.000
	5:DERX1	13.700	-3.129	-0.623	14.066	0.000	0.000	0.001
	6:DERX2	-13.603	-3.467	-2.460	14.252	-0.000	-0.000	0.000
	7:DERZ1	2.869	-3.034	8.962	9.887	0.000	0.001	0.001
	8:DERZ2	-2.773	-3.562	-12.044	12.862	-0.000	-0.001	0.001
	9:DERX3	13.658	-1.722	0.239	13.768	0.000	0.000	0.001
	10:DERX4	-13.645	-2.060	-1.598	13.892	-0.000	-0.000	-0.000
181	11:DERZ3	2.827	-1.627	9.823	10.351	0.000	0.001	0.000
	12:DERZ4	-2.814	-2.155	-11.182	11.730	-0.001	-0.001	0.000
	5:DERX1	0.017	-3.261	0.005	3.261	0.000	0.000	-0.002
	6:DERX2	-0.017	-3.261	-0.005	3.261	0.000	-0.000	-0.002
	7:DERZ1	0.000	-3.261	0.000	3.261	0.000	0.000	-0.002
	8:DERZ2	-0.000	-3.261	-0.000	3.261	0.000	-0.000	-0.002
	9:DERX3	0.017	-2.124	0.005	2.124	-0.000	0.000	-0.001
	10:DERX4	-0.017	-2.124	-0.005	2.124	-0.000	-0.000	-0.001
	11:DERZ3	0.000	-2.124	0.000	2.124	-0.000	0.000	-0.001
	12:DERZ4	-0.000	-2.124	-0.000	2.124	-0.000	-0.000	-0.001
	5:DERX1	6.419	-2.864	0.156	7.031	0.000	0.000	-0.002
	6:DERX2	-6.491	-4.873	-1.209	8.206	-0.000	-0.000	-0.002
182	7:DERZ1	1.262	-3.338	5.014	6.154	0.000	0.000	-0.001
	8:DERZ2	-1.334	-4.399	-6.066	7.611	-0.000	-0.000	-0.002
	9:DERX3	6.443	-1.450	0.453	6.619	0.000	0.000	-0.001
	10:DERX4	-6.467	-3.459	-0.911	7.391	-0.000	-0.000	-0.001
	11:DERZ3	1.286	-1.924	5.311	5.793	0.000	0.000	-0.001
	12:DERZ4	-1.310	-2.985	-5.769	6.626	-0.000	-0.000	-0.001
183	5:DERX1	6.419	-2.864	0.156	7.031	0.000	0.000	-0.002
	6:DERX2	-6.491	-4.873	-1.209	8.206	-0.000	-0.000	-0.002
	7:DERZ1	1.262	-3.338	5.014	6.154	0.000	0.000	-0.001
	8:DERZ2	-1.334	-4.399	-6.066	7.611	-0.000	-0.000	-0.002
	9:DERX3	6.443	-1.450	0.453	6.619	0.000	0.000	-0.001
	10:DERX4	-6.467	-3.459	-0.911	7.391	-0.000	-0.000	-0.001
	11:DERZ3	1.286	-1.924	5.311	5.793	0.000	0.000	-0.001
	12:DERZ4	-1.310	-2.985	-5.769	6.626	-0.000	-0.000	-0.001
	5:DERX1	6.419	-2.864	0.156	7.031	0.000	0.000	-0.002
	6:DERX2	-6.491	-4.873	-1.209	8.206	-0.000	-0.000	-0.002
	7:DERZ1	1.262	-3.338	5.014	6.154	0.000	0.000	-0.001
	8:DERZ2	-1.334	-4.399	-6.066	7.611	-0.000	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
184	5:DERX1	13.733	-3.366	-0.195	14.141	0.000	0.000	-0.002
	6:DERX2	-13.633	-5.333	-2.936	14.931	-0.000	-0.000	-0.002
	7:DERZ1	2.872	-3.677	11.229	12.160	0.000	0.001	-0.001
	8:DERZ2	-2.772	-5.021	-14.361	15.464	-0.000	-0.001	-0.002
	9:DERX3	13.691	-1.201	0.688	13.761	0.000	0.000	-0.001
	10:DERX4	-13.676	-3.168	-2.053	14.187	-0.000	-0.000	-0.001
	11:DERZ3	2.830	-1.512	12.113	12.531	0.000	0.001	-0.001
	12:DERZ4	-2.815	-2.856	-13.477	14.061	-0.000	-0.001	-0.001
185	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
186	5:DERX1	6.412	-0.389	0.253	6.429	-0.000	0.000	0.000
	6:DERX2	-6.494	-0.492	-1.341	6.649	-0.001	-0.000	-0.002
	7:DERZ1	1.254	-0.310	5.408	5.560	0.001	0.000	-0.001
	8:DERZ2	-1.336	-0.571	-6.497	6.657	-0.002	-0.000	-0.002
	9:DERX3	6.439	-0.233	0.563	6.467	-0.000	0.000	0.000
	10:DERX4	-6.467	-0.336	-1.032	6.558	-0.000	-0.000	-0.002
	11:DERZ3	1.280	-0.154	5.718	5.861	0.001	0.000	-0.000
	12:DERZ4	-1.309	-0.415	-6.187	6.337	-0.002	-0.000	-0.001
187	5:DERX1	13.739	-0.679	0.017	13.756	-0.000	0.000	0.000
	6:DERX2	-13.638	-0.839	-3.250	14.045	-0.000	-0.000	-0.002
	7:DERZ1	2.875	-0.553	12.108	12.457	0.001	0.001	-0.001
	8:DERZ2	-2.773	-0.965	-15.341	15.619	-0.002	-0.001	-0.002
	9:DERX3	13.696	-0.405	0.929	13.734	-0.000	0.000	0.001
	10:DERX4	-13.681	-0.564	-2.339	13.891	-0.000	-0.000	-0.002
	11:DERZ3	2.832	-0.278	13.020	13.327	0.001	0.001	-0.000
	12:DERZ4	-2.816	-0.691	-14.430	14.718	-0.002	-0.001	-0.001
188	5:DERX1	0.036	-1.800	0.000	1.800	-0.000	0.000	-0.000
	6:DERX2	-0.036	-1.800	-0.000	1.800	-0.000	-0.000	-0.000
	7:DERZ1	0.000	-1.800	0.000	1.800	-0.000	0.000	-0.000
	8:DERZ2	-0.000	-1.800	-0.000	1.800	-0.000	-0.000	-0.000
	9:DERX3	0.036	-1.227	0.000	1.228	-0.000	0.000	-0.000
	10:DERX4	-0.036	-1.227	-0.000	1.228	-0.000	-0.000	-0.000
	11:DERZ3	0.000	-1.227	0.000	1.227	-0.000	0.000	-0.000
	12:DERZ4	-0.000	-1.227	-0.000	1.227	-0.000	-0.000	-0.000
189	5:DERX1	6.522	-1.062	0.253	6.613	0.000	0.000	-0.000
	6:DERX2	-6.528	-1.743	-1.340	6.888	0.000	-0.000	-0.001
	7:DERZ1	0.377	-1.290	5.420	5.584	0.001	0.000	-0.000
	8:DERZ2	-0.383	-1.515	-6.507	6.692	-0.000	-0.000	-0.001
	9:DERX3	6.524	-0.766	0.561	6.593	0.000	0.000	-0.000
	10:DERX4	-6.526	-1.448	-1.032	6.763	-0.000	-0.000	-0.001
	11:DERZ3	0.379	-0.994	5.728	5.826	0.001	0.000	0.000
	12:DERZ4	-0.380	-1.220	-6.199	6.329	-0.001	-0.000	-0.001
190	5:DERX1	14.273	-1.465	0.011	14.348	0.000	0.000	-0.000
	6:DERX2	-13.940	-2.308	-3.267	14.503	0.000	-0.000	-0.001
	7:DERZ1	0.838	-1.633	12.089	12.227	0.001	0.001	-0.000
	8:DERZ2	-0.505	-2.139	-15.344	15.501	-0.000	-0.001	-0.001
	9:DERX3	14.169	-0.877	0.929	14.226	0.000	0.000	0.000
	10:DERX4	-14.045	-1.720	-2.349	14.344	-0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
191	11:DERZ3	0.733	-1.045	13.006	13.069	0.001	0.001	0.000
	12:DERZ4	-0.610	-1.552	-14.426	14.522	-0.000	-0.001	-0.001
	5:DERX1	0.033	-2.355	0.002	2.356	0.001	0.000	-0.000
	6:DERX2	-0.033	-2.355	-0.002	2.356	0.001	-0.000	-0.000
	7:DERZ1	0.000	-2.355	0.000	2.355	0.001	0.000	-0.000
	8:DERZ2	-0.000	-2.355	-0.000	2.355	0.001	-0.000	-0.000
	9:DERX3	0.033	-1.560	0.002	1.560	0.001	0.000	-0.000
	10:DERX4	-0.033	-1.560	-0.002	1.560	0.001	-0.000	-0.000
	11:DERZ3	0.000	-1.560	0.000	1.560	0.001	0.000	-0.000
	12:DERZ4	-0.000	-1.560	-0.000	1.560	0.001	-0.000	-0.000
	5:DERX1	6.524	-2.207	0.156	6.889	0.001	0.000	-0.000
	6:DERX2	-6.528	-2.616	-1.210	7.136	0.001	-0.000	-0.001
192	7:DERZ1	0.379	-1.051	5.012	5.135	0.001	0.000	0.000
	8:DERZ2	-0.383	-3.773	-6.066	7.153	0.001	-0.000	-0.001
	9:DERX3	6.526	-1.449	0.454	6.700	0.001	0.000	-0.000
	10:DERX4	-6.527	-1.858	-0.912	6.847	0.000	-0.000	-0.001
	11:DERZ3	0.381	-0.292	5.310	5.331	0.001	0.000	0.000
	12:DERZ4	-0.381	-3.015	-5.768	6.519	0.000	-0.000	-0.001
	5:DERX1	14.272	-2.837	-0.196	14.552	0.001	0.000	-0.000
	6:DERX2	-13.942	-3.379	-2.938	14.643	0.001	-0.000	-0.001
	7:DERZ1	0.835	-1.798	11.229	11.403	0.001	0.001	0.000
	8:DERZ2	-0.506	-4.418	-14.363	15.036	0.001	-0.001	-0.001
	9:DERX3	14.168	-1.579	0.688	14.272	0.001	0.000	0.000
	10:DERX4	-14.046	-2.121	-2.054	14.353	0.000	-0.000	-0.001
193	11:DERZ3	0.732	-0.540	12.113	12.147	0.000	0.001	0.000
	12:DERZ4	-0.610	-3.160	-13.480	13.858	0.000	-0.001	-0.001
	5:DERX1	14.373	-1.523	-0.204	14.455	-0.000	0.000	-0.000
	6:DERX2	-13.601	-1.738	-2.944	14.024	-0.000	-0.000	-0.001
	7:DERZ1	1.724	-1.528	11.226	11.460	0.001	0.001	-0.001
	8:DERZ2	-0.952	-1.732	-14.373	14.509	-0.001	-0.001	-0.001
	9:DERX3	14.183	-0.878	0.682	14.226	0.000	0.000	0.000
	10:DERX4	-13.791	-1.093	-2.058	13.987	-0.000	-0.000	-0.001
	11:DERZ3	1.534	-0.884	12.112	12.240	0.001	0.001	-0.000
	12:DERZ4	-1.143	-1.087	-13.488	13.579	-0.001	-0.001	-0.000
	5:DERX1	6.476	-0.899	0.155	6.540	-0.000	0.000	0.000
	6:DERX2	-6.317	-1.002	-1.213	6.510	-0.000	-0.000	-0.001
194	7:DERZ1	0.766	-0.858	5.011	5.141	0.001	0.000	-0.000
	8:DERZ2	-0.607	-1.043	-6.069	6.188	-0.002	-0.000	-0.001
	9:DERX3	6.438	-0.522	0.453	6.474	0.000	0.000	0.000
	10:DERX4	-6.356	-0.625	-0.914	6.451	-0.000	-0.000	-0.001
	11:DERZ3	0.728	-0.481	5.310	5.381	0.001	0.000	0.000
	12:DERZ4	-0.646	-0.666	-5.771	5.845	-0.001	-0.000	-0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
195	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	6:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	5:DERX1	21.698	-3.804	-0.621	22.038	-0.000	0.000	0.001
	6:DERX2	-20.558	-4.415	-4.339	21.470	-0.000	-0.000	0.001
	7:DERZ1	3.769	-3.295	17.651	18.348	0.000	0.001	0.001
	8:DERZ2	-2.629	-4.924	-22.612	23.291	-0.000	-0.001	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
205	9:DERX3	21.434	-2.314	0.630	21.567	-0.000	0.000	0.001
	10:DERX4	-20.822	-2.925	-3.087	21.252	-0.000	-0.000	0.000
	11:DERZ3	3.505	-1.805	18.903	19.310	0.000	0.001	0.001
	12:DERZ4	-2.893	-3.434	-21.360	21.827	-0.000	-0.001	0.000
	5:DERX1	21.014	-4.253	-1.528	21.495	-0.000	0.000	0.002
	6:DERX2	-19.914	-4.566	-3.378	20.708	-0.000	-0.000	0.001
	7:DERZ1	5.871	-4.333	12.822	14.753	0.000	0.001	0.001
	8:DERZ2	-4.770	-4.487	-17.728	18.899	-0.000	-0.001	0.001
	9:DERX3	20.651	-2.683	-0.201	20.825	-0.000	0.000	0.001
	10:DERX4	-20.278	-2.996	-2.051	20.600	-0.000	-0.000	0.001
	11:DERZ3	5.507	-2.763	14.149	15.432	0.000	0.001	0.001
	12:DERZ4	-5.134	-2.917	-16.402	17.432	-0.000	-0.001	0.001
206	5:DERX1	21.038	-0.846	-0.623	21.064	-0.001	0.000	-0.001
	6:DERX2	-19.893	-1.023	-4.335	20.386	-0.001	-0.000	-0.003
	7:DERZ1	5.906	-0.699	17.638	18.614	0.000	0.001	-0.001
	8:DERZ2	-4.761	-1.169	-22.597	23.122	-0.002	-0.001	-0.002
	9:DERX3	20.665	-0.511	0.627	20.681	-0.000	0.000	-0.001
	10:DERX4	-20.266	-0.688	-3.085	20.511	-0.001	-0.000	-0.002
	11:DERZ3	5.533	-0.365	18.889	19.686	0.000	0.001	-0.001
	12:DERZ4	-5.134	-0.835	-21.346	21.971	-0.001	-0.001	-0.002
	5:DERX1	21.301	-1.883	-0.927	21.404	0.000	0.000	0.001
	6:DERX2	-20.336	-2.198	-4.035	20.849	-0.000	-0.000	0.001
	7:DERZ1	2.163	-1.985	15.967	16.234	0.001	0.001	0.001
	8:DERZ2	-1.198	-2.095	-20.928	21.067	-0.001	-0.001	0.001
209	9:DERX3	21.056	-1.101	0.356	21.088	0.000	0.000	0.001
	10:DERX4	-20.582	-1.416	-2.752	20.813	-0.000	-0.000	0.000
	11:DERZ3	1.918	-1.203	17.249	17.397	0.001	0.001	0.001
	12:DERZ4	-1.444	-1.313	-19.646	19.742	-0.001	-0.001	0.000
	5:DERX1	14.377	-0.426	0.010	14.383	0.001	0.000	-0.001
	6:DERX2	-13.606	-1.238	-3.279	14.050	0.000	-0.000	-0.001
	7:DERZ1	1.722	-0.222	12.061	12.185	0.001	0.001	-0.000
	8:DERZ2	-0.951	-1.442	-15.330	15.427	0.000	-0.001	-0.001
	9:DERX3	14.187	-0.214	0.933	14.219	0.000	0.000	-0.000
	10:DERX4	-13.796	-1.026	-2.357	14.033	0.000	-0.000	-0.000
	11:DERZ3	1.532	-0.010	12.983	13.073	0.000	0.001	-0.000
	12:DERZ4	-1.141	-1.230	-14.407	14.505	0.000	-0.001	-0.001
210	5:DERX1	21.309	-3.620	-0.622	21.623	-0.000	0.000	0.001
	6:DERX2	-20.339	-4.255	-4.340	21.228	-0.000	-0.000	0.001
	7:DERZ1	2.166	-3.460	17.651	18.117	0.000	0.001	0.001
	8:DERZ2	-1.197	-4.414	-22.612	23.070	-0.000	-0.001	0.001
	9:DERX3	21.062	-2.236	0.630	21.190	-0.000	0.000	0.001
	10:DERX4	-20.586	-2.872	-3.088	21.013	-0.000	-0.000	0.001
	11:DERZ3	1.920	-2.077	18.903	19.113	0.000	0.001	0.001
	12:DERZ4	-1.443	-3.031	-21.361	21.623	-0.000	-0.001	0.000
	5:DERX1	21.693	-2.386	-0.927	21.843	-0.000	0.000	0.001
	6:DERX2	-20.560	-3.170	-4.034	21.190	-0.001	-0.000	0.000
	7:DERZ1	3.768	-2.024	15.974	16.537	-0.000	0.001	0.001
	8:DERZ2	-2.635	-3.532	-20.935	21.393	-0.001	-0.001	0.000
211	9:DERX3	21.430	-1.304	0.355	21.472	-0.000	0.000	0.000
	10:DERX4	-20.822	-2.087	-2.751	21.107	-0.001	-0.000	0.000
	11:DERZ3	3.505	-0.942	17.256	17.634	0.000	0.001	0.000
	12:DERZ4	-2.898	-2.449	-19.652	20.015	-0.001	-0.001	0.000
	5:DERX1	6.474	-0.013	0.253	6.479	0.000	0.000	-0.000
	6:DERX2	-6.316	-0.835	-1.336	6.510	0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.768	0.642	5.427	5.518	0.001	0.000	0.000
	8:DERZ2	-0.610	-1.490	-6.510	6.706	-0.000	-0.000	-0.001
	9:DERX3	6.436	-0.014	0.559	6.460	0.000	0.000	-0.000
	10:DERX4	-6.354	-0.837	-1.030	6.491	0.000	-0.000	-0.000
	11:DERZ3	0.730	0.641	5.733	5.815	0.001	0.000	0.000
	12:DERZ4	-0.648	-1.492	-6.204	6.414	-0.000	-0.000	-0.001
214	5:DERX1	0.080	-3.329	0.003	3.330	0.000	0.000	-0.001
	6:DERX2	-0.080	-3.329	-0.003	3.330	0.000	-0.000	-0.001
	7:DERZ1	0.000	-3.329	0.000	3.329	0.000	0.000	-0.001
	8:DERZ2	-0.000	-3.329	-0.000	3.329	0.000	-0.000	-0.001
	9:DERX3	0.080	-2.196	0.003	2.198	0.000	0.000	-0.000
	10:DERX4	-0.080	-2.196	-0.003	2.198	0.000	-0.000	-0.000
	11:DERZ3	0.000	-2.196	0.000	2.196	0.000	0.000	-0.000
	12:DERZ4	-0.000	-2.196	-0.000	2.196	0.000	-0.000	-0.000
215	5:DERX1	0.000	-0.696	0.000	0.696	0.001	0.000	-0.000
	6:DERX2	-0.000	-0.696	-0.000	0.696	0.001	-0.000	-0.000
	7:DERZ1	0.000	-0.696	0.000	0.696	0.001	0.000	-0.000
	8:DERZ2	-0.000	-0.696	-0.000	0.696	0.001	-0.000	-0.000
	9:DERX3	0.000	-0.476	0.000	0.476	0.000	0.000	-0.000
	10:DERX4	-0.000	-0.476	-0.000	0.476	0.000	-0.000	-0.000
	11:DERZ3	0.000	-0.476	0.000	0.476	0.000	0.000	-0.000
	12:DERZ4	-0.000	-0.476	-0.000	0.476	0.000	-0.000	-0.000
216	5:DERX1	0.076	-1.346	0.000	1.348	-0.001	0.000	-0.000
	6:DERX2	-0.076	-1.346	-0.000	1.348	-0.001	-0.000	-0.000
	7:DERZ1	0.000	-1.346	0.000	1.346	-0.001	0.000	-0.000
	8:DERZ2	-0.000	-1.346	-0.000	1.346	-0.001	-0.000	-0.000
	9:DERX3	0.076	-0.917	0.000	0.920	-0.000	0.000	-0.000
	10:DERX4	-0.076	-0.917	-0.000	0.920	-0.000	-0.000	-0.000
	11:DERZ3	0.000	-0.917	0.000	0.917	-0.000	0.000	-0.000
	12:DERZ4	-0.000	-0.917	-0.000	0.917	-0.000	-0.000	-0.000
217	5:DERX1	21.296	-3.177	-1.538	21.587	0.001	0.000	0.002
	6:DERX2	-20.240	-3.350	-3.384	20.792	0.001	-0.000	0.002
	7:DERZ1	3.634	-2.857	12.773	13.584	0.001	0.001	0.002
	8:DERZ2	-2.578	-3.671	-17.696	18.255	0.001	-0.001	0.002
	9:DERX3	20.973	-2.009	-0.210	21.070	0.001	0.000	0.001
	10:DERX4	-20.563	-2.182	-2.056	20.780	0.001	-0.000	0.001
	11:DERZ3	3.311	-1.688	14.101	14.583	0.001	0.001	0.001
	12:DERZ4	-2.901	-2.502	-16.368	16.810	0.001	-0.001	0.001
218	5:DERX1	21.285	-1.515	-1.549	21.395	-0.000	0.000	0.001
	6:DERX2	-20.325	-1.543	-3.396	20.665	-0.000	-0.000	0.000
	7:DERZ1	1.913	-1.396	12.720	12.938	-0.000	0.001	0.000
	8:DERZ2	-0.953	-1.662	-17.665	17.768	-0.000	-0.001	0.000
	9:DERX3	21.038	-0.900	-0.218	21.058	-0.000	0.000	0.001
	10:DERX4	-20.573	-0.929	-2.064	20.697	-0.000	-0.000	-0.000
	11:DERZ3	1.665	-0.782	14.051	14.171	0.000	0.001	0.000
	12:DERZ4	-1.200	-1.048	-16.333	16.411	-0.000	-0.001	0.000
219	5:DERX1	21.301	-2.464	-0.623	21.452	-0.001	0.000	-0.001
	6:DERX2	-20.245	-3.084	-4.336	20.933	-0.001	-0.000	-0.002
	7:DERZ1	3.642	-2.229	17.647	18.156	-0.001	0.001	-0.001
	8:DERZ2	-2.587	-3.319	-22.605	22.994	-0.001	-0.001	-0.002
	9:DERX3	20.977	-1.531	0.628	21.043	-0.000	0.000	-0.001
	10:DERX4	-20.569	-2.151	-3.085	20.910	-0.001	-0.000	-0.001
	11:DERZ3	3.319	-1.296	18.898	19.231	-0.000	0.001	-0.001
	12:DERZ4	-2.911	-2.386	-21.354	21.684	-0.001	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
220	5:DERX1	21.271	-3.605	-0.622	21.583	-0.000	0.000	0.001
	6:DERX2	-20.317	-4.243	-4.339	21.204	-0.000	-0.000	0.001
	7:DERZ1	1.904	-3.482	17.651	18.092	0.000	0.001	0.001
	8:DERZ2	-0.949	-4.366	-22.612	23.050	-0.000	-0.001	0.000
	9:DERX3	21.025	-2.234	0.630	21.152	0.000	0.000	0.001
	10:DERX4	-20.563	-2.872	-3.088	20.991	-0.000	-0.000	0.000
	11:DERZ3	1.657	-2.111	18.903	19.092	0.000	0.001	0.001
	12:DERZ4	-1.196	-2.995	-21.361	21.603	-0.000	-0.001	0.000
221	5:DERX1	21.143	-3.424	-0.622	21.428	-0.000	0.000	-0.000
	6:DERX2	-20.218	-4.083	-4.338	21.077	-0.000	-0.000	-0.000
	7:DERZ1	1.275	-3.328	17.651	18.007	-0.000	0.001	0.000
	8:DERZ2	-0.350	-4.179	-22.610	22.996	-0.000	-0.001	-0.001
	9:DERX3	20.881	-2.153	0.629	21.001	-0.000	0.000	0.000
	10:DERX4	-20.479	-2.812	-3.086	20.901	-0.000	-0.000	-0.000
	11:DERZ3	1.013	-2.057	18.902	19.040	-0.000	0.001	0.000
	12:DERZ4	-0.611	-2.908	-21.359	21.565	-0.000	-0.001	-0.001
222	5:DERX1	21.268	-1.705	-1.003	21.359	0.000	0.000	0.000
	6:DERX2	-20.317	-2.002	-3.939	20.791	-0.000	-0.000	0.000
	7:DERZ1	1.911	-1.631	15.568	15.769	0.001	0.001	0.000
	8:DERZ2	-0.960	-2.076	-20.510	20.637	-0.001	-0.001	0.000
	9:DERX3	21.022	-0.985	0.282	21.047	0.000	0.000	0.000
	10:DERX4	-20.562	-1.282	-2.654	20.772	-0.000	-0.000	0.000
	11:DERZ3	1.665	-0.911	16.853	16.959	0.001	0.001	0.000
	12:DERZ4	-1.205	-1.356	-19.224	19.310	-0.001	-0.001	0.000
224	5:DERX1	21.135	-3.732	-0.842	21.478	0.001	0.000	-0.000
	6:DERX2	-20.210	-4.147	-4.149	21.044	0.001	-0.000	-0.000
	7:DERZ1	1.272	-3.698	16.487	16.944	0.001	0.001	0.000
	8:DERZ2	-0.348	-4.181	-21.478	21.884	0.001	-0.001	-0.001
	9:DERX3	20.873	-2.343	0.438	21.009	0.001	0.000	-0.000
	10:DERX4	-20.472	-2.758	-2.869	20.855	0.001	-0.000	-0.000
	11:DERZ3	1.011	-2.309	17.767	17.945	0.001	0.001	0.000
	12:DERZ4	-0.609	-2.792	-20.198	20.399	0.000	-0.001	-0.000
225	5:DERX1	21.302	-3.743	-0.755	21.642	-0.000	0.000	-0.002
	6:DERX2	-20.247	-4.077	-4.215	21.079	-0.000	-0.000	-0.002
	7:DERZ1	3.643	-3.659	17.097	17.859	-0.000	0.001	-0.001
	8:DERZ2	-2.588	-4.161	-22.066	22.604	-0.000	-0.001	-0.002
	9:DERX3	20.979	-2.376	0.509	21.119	-0.000	0.000	-0.001
	10:DERX4	-20.570	-2.710	-2.951	20.957	-0.000	-0.000	-0.001
	11:DERZ3	3.320	-2.292	18.360	18.798	-0.000	0.001	-0.001
	12:DERZ4	-2.911	-2.794	-20.803	21.190	-0.000	-0.001	-0.002

JARDIN CAMPO VERDE

VERIFICACION DE DERIVAS MAXIMAS NSR-10

EJE: D-5

COMBO DERX_1

COMBO DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	21.929	7.485	0.104%	13.115	4.19	0.058%
N+7.35	37	7.35	14.444	7.903	0.220%	8.925	4.743	0.132%
N+3.75	29	3.75	6.541	6.541	0.182%	4.182	4.182	0.116%
N+0.15	11	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	-20.984	-7.33	0.102%	-18.216	-6.161	0.086%
N+7.35	37	7.35	-13.654	-7.351	0.204%	-12.055	-6.989	0.194%
N+3.75	29	3.75	-6.303	-6.303	0.175%	-5.066	-5.066	0.141%
N+0.15	11	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	21.714	7.468	0.104%	14.515	4.718	0.066%
N+7.35	37	7.35	14.246	7.764	0.216%	9.797	5.36	0.149%
N+3.75	29	3.75	6.482	6.482	0.180%	4.437	4.437	0.123%
N+0.15	11	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	54	14.55	-21.2	-7.348	0.102%	-16.816	-5.632	0.078%
N+7.35	37	7.35	-13.852	-7.49	0.208%	-11.184	-6.373	0.177%
N+3.75	29	3.75	-6.362	-6.362	0.177%	-4.811	-4.811	0.134%
N+0.15	11	0.15	0			0		

EJE:

D-1

COMBO

DERX_1

COMBO

DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	20.511	8.543	0.228%	12.933	3.961	0.106%
N+7.35	45	7.35	11.968	6.21	0.173%	8.972	4.789	0.133%
N+3.75	33	3.75	5.758	5.758	0.160%	4.183	4.183	0.116%
N+0.15	15	0.15	0			0		

COMBO

DERX_2

COMBO

DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	-18.907	-6.938	0.185%	-17.79	-5.755	0.153%
N+7.35	45	7.35	-11.969	-6.294	0.175%	-12.035	-6.998	0.194%
N+3.75	33	3.75	-5.675	-5.675	0.158%	-5.037	-5.037	0.140%
N+0.15	15	0.15	0			0		

COMBO

DERX_3

COMBO

DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	20.129	8.164	0.218%	14.253	4.423	0.118%
N+7.35	45	7.35	11.965	6.23	0.173%	9.83	5.399	0.150%
N+3.75	33	3.75	5.735	5.735	0.159%	4.431	4.431	0.123%
N+0.15	15	0.15	0			0		

COMBO

DERX_4

COMBO

DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	53	11.1	-19.29	-7.318	0.195%	-16.469	-5.292	0.141%
N+7.35	45	7.35	-11.972	-6.274	0.174%	-11.177	-6.387	0.177%
N+3.75	33	3.75	-5.698	-5.698	0.158%	-4.79	-4.79	0.133%
N+0.15	15	0.15	0			0		

EJE:

F-5

COMBO

DERX_1

COMBO

DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	21.884	7.431	0.198%	10.057	4.149	0.111%
N+7.35	38	7.35	14.453	7.939	0.221%	5.908	2.955	0.082%
N+3.75	85	3.75	6.514	6.514	0.181%	2.953	2.953	0.082%
N+0.15	65	0.15	0			0		

COMBO

DERX_2

COMBO

DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	-20.639	-6.993	0.186%	-15.175	-6.657	0.178%
N+7.35	38	7.35	-13.646	-7.382	0.205%	-8.518	-4.812	0.134%
N+3.75	85	3.75	-6.264	-6.264	0.174%	-3.706	-3.706	0.103%
N+0.15	65	0.15	0			0		

COMBO

DERX_3

COMBO

DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	21.599	7.347	0.196%	11.455	4.824	0.129%
N+7.35	38	7.35	14.252	7.801	0.217%	6.631	3.453	0.096%
N+3.75	85	3.75	6.451	6.451	0.179%	3.178	3.178	0.088%
N+0.15	65	0.15	0			0		

COMBO

DERX_4

COMBO

DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	55	11.1	-20.924	-7.077	0.189%	-13.778	-5.984	0.160%
N+7.35	38	7.35	-13.847	-7.521	0.209%	-7.794	-4.313	0.120%
N+3.75	85	3.75	-6.326	-6.326	0.176%	-3.481	-3.481	0.097%
N+0.15	65	0.15	0			0		

EJE:

F-1

COMBO

DERX_1

COMBO

DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	11.823	6.049	0.168%	5.882	2.918	0.081%
N+3.75	86	3.75	5.774	5.774	0.160%	2.964	2.964	0.082%
N+0.15	66	0.15	0			0		

COMBO

DERX_2

COMBO

DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	-11.932	-6.267	0.174%	-8.542	-4.844	0.135%
N+3.75	86	3.75	-5.665	-5.665	0.157%	-3.698	-3.698	0.103%
N+0.15	66	0.15	0			0		

COMBO

DERX_3

COMBO

DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	11.844	6.1	0.169%	6.62	3.436	0.095%
N+3.75	86	3.75	5.744	5.744	0.160%	3.184	3.184	0.088%
N+0.15	66	0.15	0			0		

COMBO

DERX_4

COMBO

DERZ_4

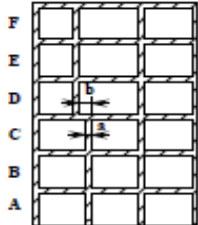
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
N+7.35	44	7.35	-11.911	-6.216	0.173%	-7.803	-4.325	0.120%
N+3.75	86	3.75	-5.695	-5.695	0.158%	-3.478	-3.478	0.097%
N+0.15	66	0.15	0			0		

CHEQUEO DE IRREGULARIDAD EN ALTURA
TABLA A.3-6 de NSR-10

PROYECTO: 181_JARDIN CAMPO VERDE MODULA B

CALCULÓ: JDH

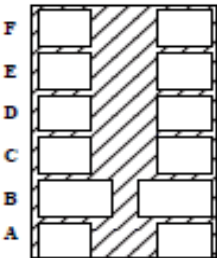
1. TIPO 4A-DESPLAZAMIENTO DENTRO DEL PLANO DE ACCIÓN



HAY TIPO 4A? NO

$\phi a=$ 1.00

2. TIPO 5aA-PISO DEBIL Y PISO DEBIL EXTREMO



HAY PISO DEBIL? NO EXTREMO NO

$\phi a=$ 1.00

FACTOR DE REDUCCIÓN EN PLANTA

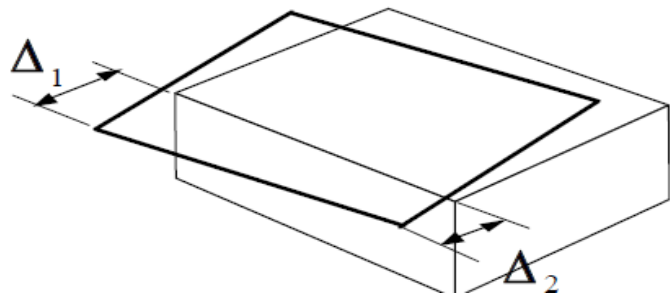
$\phi a=$ 1.00

CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10

PROYECTO: 181_Jardin Campo verde Modulo B

CALCULÓ: JDH

1. TIPO 1P-IRREGULARIDAD TORSIONAL TIPO 1P



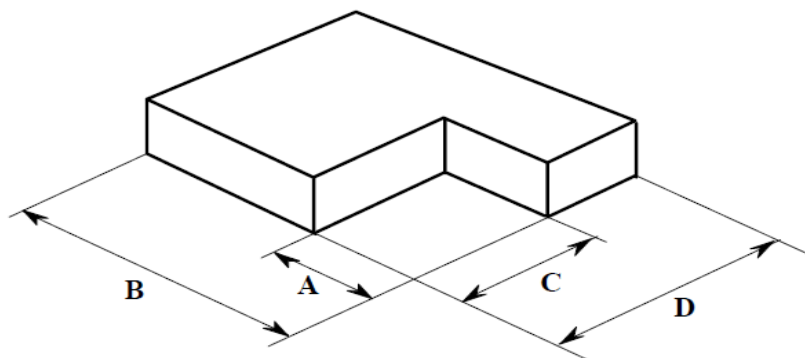
Según análisis de derivas

En X? NO
En Z? NO

Extrema? NO
Extrema? NO

$\phi_{px}= 1.00$ $\phi_{pz}= 1.00$

2. TIPO 2P-RETROCESOS EN LAS ESQUINAS



A= 0.00 m
B= 16.35 m
C= 0.00 m
D= 18.20 m

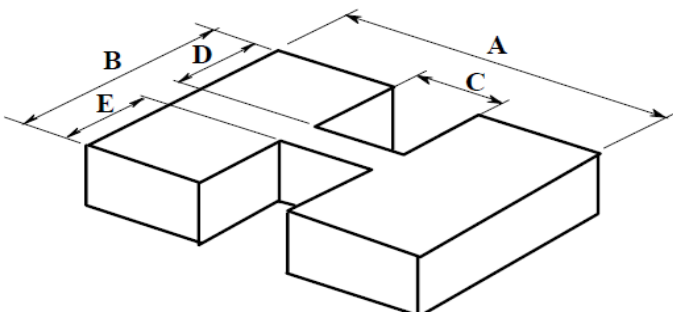
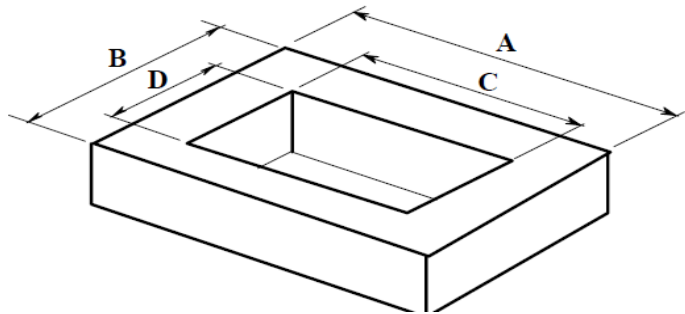
A > 0.15B? NO

Y

C > 0.15D? NO

$\phi_p= 1$

3. TIPO 3P-IRREGULARIDAD DEL DIAFRAGAMA



A= 16.35 m
B= 18.20 m
C= 0.00 m
D= 0.00 m
E= 0.00 m

Caso 1 C x D > 0.5 A x B? NO

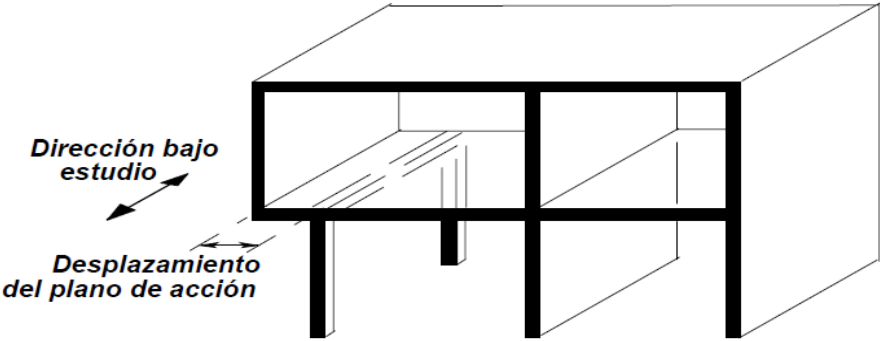
O

Caso 2 (C x D + C x E) > 0.5 A x B?

Caso 1

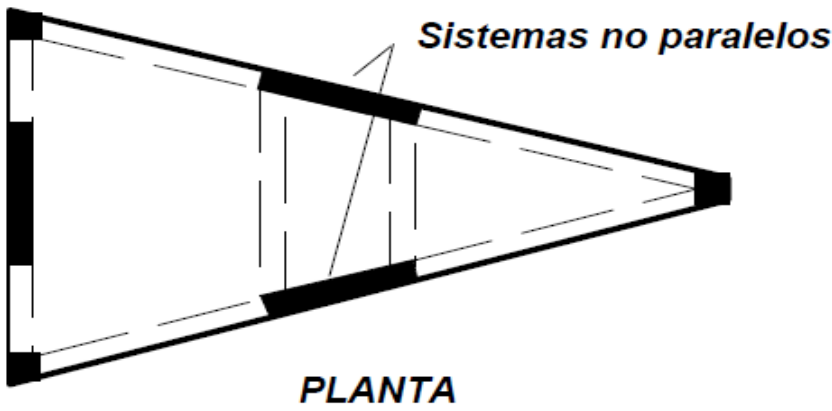
$\phi_p= 1.0$

CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10
4. TIPO 4P-DESPLAZAMIENTO DE LOS PLANOS DE ACCIÓN



En X?	NO
En Z?	NO
$\phi_{px}= 1.00$	
$\phi_{pz}= 1.00$	

5. TIPO 5P-SISTEMAS NO PARALELOS



Sistemas no paralelos? NO

$\phi_p= 1.00$

FACTOR DE REDUCCIÓN EN PLANTA

$\phi_{px}= 1.00$
$\phi_{pz}= 1.00$

JARDIN CAMPO VERDE

VERIFICACION DE IRREGULARIDAD TORSIONAL NSR-10

COMBO		DERX_1	COMBO		DERZ_1			
		EJE: D-5				EJE: F-5		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	42.533	34.539	38	42.523	26.508	Regular	Regular
N+3.75	29	22.707	17.67	85	22.675	14.103	Regular	Regular
N+0.15	11	0	0	65	0	0	Regular	Regular

COMBO		DERX_2	COMBO		DERZ_2			
		EJE: D-5				EJE: F-5		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	-42.256	-37.717	38	-42.21	-32.428	Regular	Regular
N+3.75	29	-22.328	-19.053	85	-22.295	-15.807	Regular	Regular
N+0.15	11	0	0	65	0	0	Regular	Regular

COMBO		DERX_3	COMBO		DERZ_3			
		EJE: D-5				EJE: F-5		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	42.485	35.469	38	42.469	27.996	Regular	Regular
N+3.75	29	22.617	18.09	85	22.585	14.528	Regular	Regular
N+0.15	11	0	0	65	0	0	Regular	Regular

COMBO		DERX_4	COMBO		DERZ_4			
		EJE: D-5				EJE: F-5		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	-42.304	-36.788	38	-42.265	-30.94	Regular	Regular
N+3.75	29	-22.418	-18.633	85	-22.385	-15.382	Regular	Regular
N+0.15	11	0	0	65	0	0	Regular	Regular

COMBO

DERX_1COMBO

DERZ_1

EJE: D-5

EJE: D-1

Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	42.533	34.539	45	35.28	34.711	Regular	Regular
N+3.75	29	22.707	17.67	33	18.892	17.685	Regular	Regular
N+0.15	11	0	0	15	0	0	Regular	Regular

COMBO

DERX_2COMBO

DERZ_2

EJE: D-5

EJE: D-1

Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	-42.256	-37.717	45	-32.722	-37.782	Regular	Regular
N+3.75	29	-22.328	-19.053	33	-18.195	-19.108	Regular	Regular
N+0.15	11	0	0	15	0	0	Regular	Regular

COMBO

DERX_3COMBO

DERZ_3

EJE: D-5

EJE: D-1

Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	42.485	35.469	45	34.775	35.623	Regular	Regular
N+3.75	29	22.617	18.09	33	18.794	18.11	Regular	Regular
N+0.15	11	0	0	15	0	0	Regular	Regular

COMBO

DERX_4COMBO

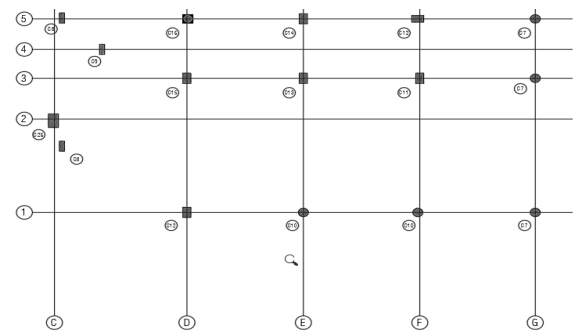
DERZ_4

EJE: D-5

EJE: D-1

Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	37	-42.304	-36.788	45	-33.227	-36.87	Regular	Regular
N+3.75	29	-22.418	-18.633	33	-18.293	-18.683	Regular	Regular
N+0.15	11	0	0	15	0	0	Regular	Regular

ZONA: MODULO B
PISO: 1 A CUB
ALTURA h (m) 3.60



Elemento	$A_c \text{ (m}^2\text{)}$	$I_x \text{ (m}^4\text{)}$	$I_z \text{ (m}^4\text{)}$	$A_m \text{ (m}^2\text{)}$	$0.4E_c A_m$	$I_{totalX} \text{ (m}^4\text{)}$	$3E_c I_x$	K_{pisoX}	Perdida K_{pisoX}	$I_{totalZ} \text{ (m}^4\text{)}$	$3E_c I_z$	K_{pisoZ}	Perdida K_{pisoZ}
C2	0.150	0.0008	0.0045	2.918	3.052E+07	0.04	3.279E+06	6.959E+04	0%	0.07	5.305E+06	1.119E+05	0%
C4	0.150	0.0008	0.0045	2.918	2.903E+07	0.04	3.221E+06	6.833E+04	2%	0.07	4.970E+06	1.049E+05	6%
C5	0.150	0.0008	0.0045	2.918	2.903E+07	0.04	3.221E+06	6.833E+04	2%	0.07	4.970E+06	1.049E+05	6%
D2	0.240	0.0032	0.0072	2.828	2.813E+07	0.04	3.040E+06	6.452E+04	7%	0.06	4.768E+06	1.006E+05	10%
D4	0.240	0.0032	0.0072	2.828	2.813E+07	0.04	3.040E+06	6.452E+04	7%	0.06	4.768E+06	1.006E+05	10%
D5	0.1963	0.0031	0.0031	2.872	2.857E+07	0.04	3.050E+06	6.474E+04	7%	0.07	5.076E+06	1.070E+05	4%
E2	0.1963	0.0031	0.0031	2.872	2.857E+07	0.04	3.050E+06	6.474E+04	7%	0.07	5.076E+06	1.070E+05	4%
E4	0.240	0.0032	0.0072	2.828	2.813E+07	0.04	3.040E+06	6.452E+04	7%	0.06	4.768E+06	1.006E+05	10%
E5	0.240	0.0032	0.0072	2.828	2.813E+07	0.04	3.040E+06	6.452E+04	7%	0.06	4.768E+06	1.006E+05	10%
F2	0.1963	0.0031	0.0031	2.872	2.857E+07	0.04	3.050E+06	6.474E+04	7%	0.07	5.076E+06	1.070E+05	4%
F4	0.240	0.0032	0.0072	2.828	2.813E+07	0.04	3.040E+06	6.452E+04	7%	0.06	4.768E+06	1.006E+05	10%
F5	0.240	0.0072	0.0032	2.828	2.813E+07	0.04	2.742E+06	5.825E+04	16%	0.07	5.067E+06	1.068E+05	5%
G2	0.1963	0.0031	0.0031	2.872	2.857E+07	0.04	3.050E+06	6.474E+04	7%	0.07	5.076E+06	1.070E+05	4%
G4	0.1963	0.0031	0.0031	2.872	2.857E+07	0.04	3.050E+06	6.474E+04	7%	0.07	5.076E+06	1.070E+05	4%
G5	0.1963	0.0031	0.0031	2.872	2.857E+07	0.04	3.050E+06	6.474E+04	7%	0.07	5.076E+06	1.070E+05	4%

Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
2	3	+ve	0.614	1.003	0.341	4.486	0.365	0.370
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.495	-12.699	-0.275	-3.350	-0.291	-0.158
	63	-ve	12:DERZ4	14:COM2	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
			0.614	1.003	0.341	4.486	0.487	34.081
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	14:COM2
3	5	+ve	-0.495	-14.429	-0.275	-3.350	-0.393	0.000
			12:DERZ4	14:COM2	12:DERZ4	10:DERX4	12:DERZ4	-
			0.432	0.313	0.309	8.172	0.343	0.097
	65	-ve	4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.349	-12.132	-0.249	-6.807	-0.273	-0.138
			12:DERZ4	14:COM2	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2
4	7	+ve	0.432	0.313	0.309	8.172	0.428	32.418
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	14:COM2
			-0.349	-13.862	-0.249	-6.807	-0.346	0.000
	12	-ve	12:DERZ4	14:COM2	12:DERZ4	6:DERX2	12:DERZ4	-
			0.655	0.896	0.540	2.936	0.605	0.213
			4:EQZ	3:EQX	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
5	66	+ve	-0.529	-13.015	-0.436	-1.286	-0.481	-0.147
			12:DERZ4	14:COM2	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
			0.655	0.896	0.540	2.936	0.744	35.566
	106	-ve	4:EQZ	3:EQX	4:EQZ	5:DERX1	4:EQZ	14:COM2
			-0.529	-15.393	-0.436	-1.286	-0.601	0.000
			12:DERZ4	14:COM2	12:DERZ4	10:DERX4	12:DERZ4	-
6	11	+ve	0.000	29.062	0.078	0.685	0.223	64.453
			2:LIVE	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-0.000	0.000	-0.063	-0.504	-0.178	-19.236
	63	-ve	13:COM1	-	12:DERZ4	12:DERZ4	8:DERZ2	12:DERZ4
			0.000	27.678	0.078	0.685	0.070	23.201
			2:LIVE	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	4:EQZ
9	15	+ve	-0.000	0.000	-0.063	-0.504	-0.055	-29.409
			13:COM1	-	12:DERZ4	12:DERZ4	8:DERZ2	8:DERZ2
			0.000	19.809	0.101	1.323	0.296	43.226
	61	-ve	-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-4.478	-0.081	-1.494	-0.236	-27.184
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
9	15	+ve	0.000	13.057	0.101	1.323	0.288	35.883
			-	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-19.339	-0.081	-1.494	-0.232	-21.653
	61	-ve	-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
			0.000	15.792	0.106	1.347	0.314	37.223
			-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
9	15	+ve	0.000	-5.091	-0.086	-1.352	-0.249	-27.376
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
			0.000	11.461	0.106	1.347	0.304	31.893
	61	-ve	-	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-17.323	-0.086	-1.352	-0.245	-18.053
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
10	17	+ve	0.000	19.344	0.109	1.134	0.320	40.695
			-	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			0.000	-2.765	-0.088	-0.364	-0.254	-18.869
			-	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	62	-ve	0.000	11.557	0.109	1.134	0.311	34.021
			-	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			0.000	-17.406	-0.088	-0.364	-0.251	-21.241
			-	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
21	37	+ve	2.146	18.366	0.235	1.364	0.672	44.319
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-1.952	-7.306	-0.182	-1.315	-0.555	-31.320
			8:DERZ2	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	87	-ve	2.146	14.514	0.235	1.364	0.692	40.773
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-1.952	-19.055	-0.182	-1.315	-0.534	-26.140
			8:DERZ2	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
22	39	+ve	4.494	2.111	0.650	5.435	0.826	0.407
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	5:DERX1
			-3.054	-9.553	-0.542	-3.965	-0.651	-0.083
			12:DERZ4	8:DERZ2	6:DERX2	10:DERX4	10:DERX4	10:DERX4
	87	-ve	4.494	2.111	0.650	5.435	0.805	26.345
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-3.054	-11.282	-0.542	-3.965	-0.673	0.000
			12:DERZ4	8:DERZ2	6:DERX2	10:DERX4	6:DERX2	-
23	41	+ve	23.616	2.527	1.247	10.216	1.351	0.211
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX
			-19.093	-24.573	-1.004	-14.569	-1.097	-1.569
			8:DERZ2	14:COM2	8:DERZ2	6:DERX2	12:DERZ4	14:COM2
	38	-ve	23.616	2.527	1.247	10.216	1.768	62.025
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	14:COM2
			-19.093	-26.302	-1.004	-14.569	-1.430	0.000
			8:DERZ2	14:COM2	8:DERZ2	6:DERX2	8:DERZ2	-
24	44	+ve	9.733	14.560	7.499	1.201	12.137	41.657
			4:EQZ	7:DERZ1	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-6.733	-4.133	-5.990	-0.532	-9.743	-31.429
			12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	6:DERX2	12:DERZ4
	135	-ve	9.733	13.176	7.499	1.201	2.868	20.867
			4:EQZ	7:DERZ1	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-6.733	-5.171	-5.990	-0.532	-2.298	-25.790
			12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	6:DERX2	8:DERZ2
25	45	+ve	9.742	24.926	16.158	21.611	6.769	50.519
			4:EQZ	5:DERX1	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-7.138	-1.970	-11.081	0.000	-6.048	-31.935
			12:DERZ4	10:DERX4	10:DERX4	-	6:DERX2	10:DERX4
	51	-ve	9.742	23.138	16.158	21.611	8.107	37.229
			4:EQZ	5:DERX1	3:EQX	7:DERZ1	7:DERZ1	3:EQX
			-7.138	-2.921	-11.081	0.000	-4.905	-29.907
			12:DERZ4	10:DERX4	10:DERX4	-	12:DERZ4	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
27	48	+ve	22.732	18.184	0.279	1.660	0.711	52.353
			3:EQX	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-16.410	-10.344	-0.233	-1.060	-0.552	-40.235
	89	-ve	10:DERX4	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
			22.732	16.816	0.279	1.660	0.910	52.486
			3:EQX	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
30	53	+ve	-16.410	-22.920	-0.233	-1.060	-0.740	-25.941
			10:DERX4	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
			30.281	10.616	0.144	2.409	0.855	18.747
	92	-ve	7:DERZ1	7:DERZ1	3:EQX	3:EQX	7:DERZ1	7:DERZ1
			-14.976	0.000	-0.141	-1.708	-0.454	-10.607
			12:DERZ4	-	6:DERX2	10:DERX4	12:DERZ4	12:DERZ4
31	55	+ve	26.256	3.156	0.144	2.409	0.471	21.488
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-18.579	-12.916	-0.141	-1.708	-0.367	0.000
	98	-ve	12:DERZ4	8:DERZ2	6:DERX2	10:DERX4	10:DERX4	-
			9.669	10.263	0.079	3.271	0.833	27.296
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
33	54	+ve	-9.457	-0.843	-0.086	-0.616	-0.718	-19.061
			8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4
			9.669	5.699	0.079	3.271	0.941	4.692
	101	-ve	4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-9.457	-8.691	-0.086	-0.616	-0.916	-3.546
			8:DERZ2	8:DERZ2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
34	1	+ve	10.016	7.062	0.280	0.948	0.858	2.806
			3:EQX	5:DERX1	4:EQZ	4:EQZ	4:EQZ	13:COM1
			-8.479	0.000	-0.267	-0.679	-0.582	0.000
	3	-ve	6:DERX2	-	8:DERZ2	12:DERZ4	12:DERZ4	-
			12.159	0.998	0.280	0.948	0.842	16.436
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
35	2	+ve	-5.385	-10.104	-0.267	-0.679	-0.770	0.000
			10:DERX4	14:COM2	8:DERZ2	12:DERZ4	8:DERZ2	-
			0.094	5.547	0.005	0.175	0.013	6.511
	4	-ve	4:EQZ	14:COM2	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.075	0.000	-0.004	-0.266	-0.010	-1.444
			12:DERZ4	-	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
36	3	+ve	0.094	1.046	0.005	0.175	0.014	7.978
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.075	-6.482	-0.004	-0.266	-0.011	0.000
	4	-ve	12:DERZ4	14:COM2	12:DERZ4	8:DERZ2	12:DERZ4	-
			0.090	4.268	0.006	0.200	0.017	5.130
			4:EQZ	5:DERX1	4:EQZ	3:EQX	4:EQZ	5:DERX1
37	2	+ve	-0.072	0.000	-0.005	-0.278	-0.014	-2.982
			8:DERZ2	-	12:DERZ4	6:DERX2	8:DERZ2	10:DERX4
			0.090	1.172	0.006	0.200	0.017	5.513
	4	-ve	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ	5:DERX1
			-0.072	-5.170	-0.005	-0.278	-0.013	0.000
			8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	12:DERZ4	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
36	3	+ve	0.011	6.217	0.006	0.175	0.016	7.354
			4:EQZ	14:COM2	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.009	0.000	-0.004	-0.132	-0.013	0.000
			12:DERZ4	-	12:DERZ4	12:DERZ4	8:DERZ2	-
	5	-ve	0.011	1.142	0.006	0.175	0.016	8.225
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.009	-5.812	-0.004	-0.132	-0.013	-1.331
			12:DERZ4	14:COM2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
37	4	+ve	0.003	4.245	0.005	0.156	0.016	5.121
			4:EQZ	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.002	0.000	-0.004	-0.196	-0.013	0.000
			8:DERZ2	-	12:DERZ4	8:DERZ2	8:DERZ2	-
	10	-ve	0.003	0.714	0.005	0.156	0.015	6.608
			4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-0.002	-4.460	-0.004	-0.196	-0.012	0.000
			8:DERZ2	8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4	-
38	5	+ve	0.040	6.320	0.005	0.209	0.014	7.853
			4:EQZ	14:COM2	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.032	0.000	-0.004	-0.213	-0.012	-0.525
			8:DERZ2	-	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	7	-ve	0.040	0.934	0.005	0.209	0.013	6.134
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.032	-6.228	-0.004	-0.213	-0.011	0.000
			8:DERZ2	14:COM2	12:DERZ4	8:DERZ2	12:DERZ4	-
39	10	+ve	0.103	6.457	0.004	0.252	0.013	7.464
			4:EQZ	14:COM2	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.083	0.000	-0.003	-0.342	-0.010	0.000
			12:DERZ4	-	12:DERZ4	8:DERZ2	8:DERZ2	-
	8	-ve	0.103	0.677	0.004	0.252	0.012	5.738
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.083	-6.091	-0.003	-0.342	-0.010	0.000
			12:DERZ4	14:COM2	12:DERZ4	8:DERZ2	12:DERZ4	-
40	11	+ve	0.000	40.209	0.326	1.530	0.532	70.720
			13:COM1	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.000	-20.482	-0.263	-1.887	-0.423	-38.688
			14:COM2	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	115	-ve	0.000	35.571	0.326	1.530	0.043	13.887
			13:COM1	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.000	-23.960	-0.263	-1.887	-0.034	-5.358
			14:COM2	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
41	12	+ve	0.000	22.937	0.428	2.097	0.733	52.472
			-	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-7.340	-0.346	-2.675	-0.583	-13.695
			-	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	116	-ve	0.000	21.510	0.428	2.097	0.091	19.138
			-	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-8.410	-0.346	-2.675	-0.073	-1.884
			-	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
42	1	+ve	0.657	0.635	0.326	6.721	0.323	0.242
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.530	-13.212	-0.263	-5.437	-0.257	-0.726
			12:DERZ4	14:COM2	12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2
	11	-ve	0.657	0.635	0.326	6.721	0.494	42.066
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	14:COM2
			-0.530	-20.942	-0.263	-5.437	-0.399	0.000
			12:DERZ4	14:COM2	12:DERZ4	10:DERX4	12:DERZ4	-
43	15	+ve	0.069	11.101	0.500	5.130	0.621	16.323
			4:EQZ	13:COM1	4:EQZ	5:DERX1	4:EQZ	5:DERX1
			-0.055	0.000	-0.404	-2.982	-0.494	0.000
			8:DERZ2	-	12:DERZ4	10:DERX4	8:DERZ2	-
	2	-ve	0.069	4.268	0.500	5.130	0.453	0.278
			4:EQZ	5:DERX1	4:EQZ	5:DERX1	4:EQZ	5:DERX1
			-0.055	0.000	-0.404	-2.982	-0.366	-0.082
			8:DERZ2	-	12:DERZ4	10:DERX4	12:DERZ4	10:DERX4
44	16	+ve	0.745	15.205	0.733	3.011	0.916	30.269
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	14:COM2
			-0.593	0.000	-0.592	-1.962	-0.729	0.000
			8:DERZ2	-	12:DERZ4	10:DERX4	8:DERZ2	-
	8	-ve	0.745	13.161	0.733	3.011	0.659	0.252
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.593	0.000	-0.592	-1.962	-0.532	-0.342
			8:DERZ2	-	12:DERZ4	10:DERX4	12:DERZ4	8:DERZ2
45	17	+ve	0.254	39.728	0.625	2.293	0.535	71.459
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.203	0.000	-0.500	-13.010	-0.426	-0.024
			12:DERZ4	-	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	111	-ve	0.254	33.845	0.625	2.293	0.736	16.126
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.203	0.000	-0.500	-13.010	-0.588	-24.328
			12:DERZ4	-	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2
46	18	+ve	0.000	15.967	0.075	1.320	0.366	25.012
			-	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			0.000	0.000	-0.061	-0.393	-0.291	-5.263
			-	-	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
	112	-ve	0.000	14.157	0.075	1.320	0.242	6.074
			-	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			0.000	0.000	-0.061	-0.393	-0.193	-13.364
			-	-	12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2
60	37	+ve	13.148	45.721	2.279	7.975	1.827	70.832
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-12.938	-24.214	-1.799	-7.700	-1.491	-41.919
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	6:DERX2	12:DERZ4
	141	-ve	13.148	44.683	2.279	7.975	1.594	5.166
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-12.938	-24.992	-1.799	-7.700	-1.261	-5.175
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
61	38	+ve	44.373	43.855	2.905	3.050	3.334	89.780
			4:EQZ	7:DERZ1	3:EQX	3:EQX	4:EQZ	7:DERZ1
			-40.303	-27.409	-2.364	-6.646	-2.599	-46.862
	50	-ve	44.373	43.391	2.905	3.050	1.668	60.535
			4:EQZ	7:DERZ1	3:EQX	3:EQX	4:EQZ	7:DERZ1
			-40.303	-27.757	-2.364	-6.646	-1.282	-28.374
62	39	+ve	29.966	3.809	0.133	0.287	0.245	7.190
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	5:DERX1
			-24.593	0.000	-0.103	-0.095	-0.201	0.000
	162	-ve	29.966	1.572	0.133	0.287	0.158	6.852
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			-24.593	-3.799	-0.103	-0.095	-0.122	0.000
64	47	+ve	7.914	5.622	0.011	0.171	0.042	6.783
			3:EQX	14:COM2	3:EQX	4:EQZ	3:EQX	5:DERX1
			-7.235	0.000	-0.009	-0.225	-0.034	-1.135
	39	-ve	7.914	1.123	0.011	0.171	0.021	8.085
			3:EQX	3:EQX	3:EQX	4:EQZ	3:EQX	5:DERX1
			-7.235	-6.407	-0.009	-0.225	-0.015	0.000
65	48	+ve	22.227	19.947	1.992	3.987	3.505	55.051
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-20.437	-4.207	-1.529	-4.879	-2.904	-28.666
	181	-ve	22.227	14.391	1.992	3.987	5.072	6.890
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-20.437	-8.373	-1.529	-4.879	-3.833	-18.850
67	50	+ve	44.661	43.391	2.655	3.050	1.668	60.535
			4:EQZ	7:DERZ1	3:EQX	3:EQX	4:EQZ	7:DERZ1
			-40.534	-27.757	-2.164	-6.646	-1.282	-28.374
	142	-ve	44.661	42.817	2.655	3.050	1.937	24.870
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-40.534	-28.187	-2.164	-6.646	-1.518	-5.259
69	47	+ve	2.467	0.960	0.610	6.659	0.838	0.184
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.790	-11.773	-0.508	-5.480	-0.649	-0.489
	37	-ve	2.467	0.960	0.610	6.659	0.694	31.185
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	14:COM2
			-1.790	-13.503	-0.508	-5.480	-0.564	0.000
			10:DERX4	14:COM2	6:DERX2	6:DERX2	6:DERX2	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
70	60	+ve	5.566	10.576	0.209	1.220	0.207	11.535
			3:EQX	7:DERZ1	5:DERX1	3:EQX	3:EQX	7:DERZ1
			-4.786	0.000	-0.101	-1.996	-0.781	-4.684
			6:DERX2	-	10:DERX4	6:DERX2	6:DERX2	12:DERZ4
	53	-ve	5.566	3.691	0.209	1.220	1.300	24.749
			3:EQX	4:EQZ	5:DERX1	3:EQX	3:EQX	5:DERX1
			-4.786	-11.345	-0.101	-1.996	-1.144	-12.073
			6:DERX2	8:DERZ2	10:DERX4	6:DERX2	6:DERX2	10:DERX4
71	61	+ve	0.310	10.094	0.473	3.567	0.582	20.065
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	14:COM2
			-0.247	0.000	-0.382	-2.929	-0.463	0.000
			8:DERZ2	-	12:DERZ4	10:DERX4	8:DERZ2	-
	4	-ve	0.310	8.608	0.473	3.567	0.433	0.108
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	3:EQX
			-0.247	0.000	-0.382	-2.929	-0.350	-0.162
			8:DERZ2	-	12:DERZ4	10:DERX4	12:DERZ4	10:DERX4
72	62	+ve	0.000	29.358	0.152	0.595	0.283	60.417
			13:COM1	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.000	0.000	-0.122	-0.601	-0.225	-9.517
			2:LIVE	-	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	113	-ve	0.000	28.042	0.152	0.595	0.149	17.466
			13:COM1	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.000	0.000	-0.122	-0.601	-0.118	-22.135
			2:LIVE	-	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2
73	63	+ve	0.000	44.571	0.286	0.667	0.478	80.837
			2:LIVE	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.000	-30.020	-0.231	-0.364	-0.380	-56.549
			13:COM1	12:DERZ4	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
	117	-ve	0.000	43.942	0.286	0.667	0.049	14.926
			2:LIVE	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.000	-30.799	-0.231	-0.364	-0.039	-10.936
			13:COM1	12:DERZ4	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
75	65	+ve	0.000	43.047	0.242	3.048	0.407	72.916
			-	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-26.989	-0.195	-2.547	-0.323	-44.198
			-	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	118	-ve	0.000	42.009	0.242	3.048	0.044	9.130
			-	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-27.767	-0.195	-2.547	-0.035	-3.137
			-	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
76	66	+ve	0.311	12.179	0.414	4.797	0.509	24.632
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	14:COM2
			-0.248	0.000	-0.335	-3.663	-0.404	0.000
			8:DERZ2	-	12:DERZ4	10:DERX4	8:DERZ2	-
	10	-ve	0.311	10.693	0.414	4.797	0.381	0.305
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.248	0.000	-0.335	-3.663	-0.308	-0.192
			8:DERZ2	-	12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
77	65	+ve	0.000	16.757	0.065	1.228	0.207	44.136
			-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-4.347	-0.052	-0.875	-0.164	-30.225
			-	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	12	-ve	0.000	11.580	0.065	1.228	0.185	27.822
			-	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-16.582	-0.052	-0.875	-0.149	-16.470
			-	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
78	63	+ve	0.000	21.570	0.089	1.340	0.265	39.717
			-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-6.722	-0.072	-0.945	-0.211	-25.831
			-	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	65	-ve	0.000	15.697	0.089	1.340	0.251	51.894
			-	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-21.803	-0.072	-0.945	-0.203	-35.712
			-	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
80	61	+ve	0.000	14.946	0.095	0.970	0.282	27.581
			-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-3.023	-0.077	-0.972	-0.224	-15.950
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	66	-ve	0.000	9.477	0.095	0.970	0.269	30.937
			-	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-14.996	-0.077	-0.972	-0.217	-19.006
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
82	62	+ve	0.000	18.428	0.098	0.977	0.291	34.460
			-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-3.775	-0.079	-0.862	-0.231	-21.863
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	64	-ve	0.000	11.907	0.098	0.977	0.278	37.385
			-	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-18.881	-0.079	-0.862	-0.225	-22.671
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
95	16	+ve	65.500	13.689	15.487	0.633	28.094	24.193
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-10.670	-12.670	-0.511	-23.075	-18.929
			-	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	34	-ve	65.166	13.689	15.487	0.633	27.658	25.086
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-10.670	-12.670	-0.511	-22.707	-20.793
			-	10:DERX4	12:DERZ4	12:DERZ4	12:DERZ4	6:DERX2
96	18	+ve	33.088	14.803	20.027	0.628	36.125	26.335
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-10.757	-14.705	-0.508	-32.694	-19.473
			-	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	36	-ve	32.754	14.803	20.027	0.628	35.970	26.958
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-10.757	-14.705	-0.508	-26.376	-25.004
			-	10:DERX4	12:DERZ4	12:DERZ4	12:DERZ4	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
97	12	+ve	51.442	17.250	17.576	0.633	32.102	30.749
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-13.465	-16.330	-0.512	-23.676	-24.087
			-	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
			51.108	17.250	17.576	0.633	31.172	31.352
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
	30	-ve	0.000	-13.465	-16.330	-0.512	-29.161	-25.961
			-	10:DERX4	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2
98	11	+ve	217.396	49.437	32.233	2.646	63.622	91.857
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	7:DERZ1	3:EQX
			-32.560	-38.956	-32.673	-2.131	-41.972	-72.272
			12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
			214.801	49.437	32.233	2.646	54.262	86.125
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
	29	-ve	-34.507	-38.956	-32.673	-2.131	-54.012	-71.161
			12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2
99	29	+ve	115.675	30.754	19.627	1.802	33.565	53.354
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-8.672	-23.793	-18.189	-1.511	-24.935	-41.352
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4
			113.637	30.754	19.627	1.802	37.121	57.408
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
	37	-ve	-10.200	-23.793	-18.189	-1.511	-34.269	-49.286
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	8:DERZ2	6:DERX2
100	37	+ve	32.764	23.529	15.779	1.796	26.366	40.794
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-18.560	-13.387	-1.658	-19.844	-31.730
			-	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4
			30.698	23.529	15.779	1.796	31.239	45.100
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
	154	-ve	0.000	-18.560	-13.387	-1.658	-24.950	-36.761
			-	10:DERX4	8:DERZ2	8:DERZ2	8:DERZ2	6:DERX2
101	17	+ve	172.300	31.903	51.402	2.268	97.238	61.738
			7:DERZ1	3:EQX	7:DERZ1	4:EQZ	4:EQZ	3:EQX
			0.000	-24.676	-32.615	-1.841	-103.992	-47.001
			-	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
			169.809	31.903	51.402	2.268	81.077	53.126
			7:DERZ1	3:EQX	7:DERZ1	4:EQZ	7:DERZ1	3:EQX
	35	-ve	0.000	-24.676	-32.615	-1.841	-55.264	-43.673
			-	10:DERX4	12:DERZ4	12:DERZ4	12:DERZ4	6:DERX2
102	35	+ve	100.809	23.971	38.365	2.164	67.008	41.853
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-18.767	-28.266	-1.815	-62.344	-33.022
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
			98.318	23.971	38.365	2.164	71.201	44.521
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
	48	-ve	0.000	-18.767	-28.266	-1.815	-52.843	-37.846
			-	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
103	15	+ve	143.881	24.363	23.133	2.255	58.227	45.802
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	7:DERZ1	3:EQX
			0.000	-20.454	-27.174	-1.816	-24.274	-38.579
	33	-ve	-	6:DERX2	8:DERZ2	12:DERZ4	12:DERZ4	6:DERX2
			141.390	24.363	23.133	2.255	36.327	41.922
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
104	33	+ve	0.000	-20.454	-27.174	-1.816	-39.707	-32.522
			-	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
			92.781	14.202	19.021	2.621	30.961	26.069
	45	-ve	7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-13.589	-19.149	-2.395	-21.776	-23.189
			-	6:DERX2	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2
105	45	+ve	90.290	14.202	19.021	2.621	37.964	25.924
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-13.589	-19.149	-2.395	-39.679	-17.082
	53	-ve	-	6:DERX2	8:DERZ2	8:DERZ2	8:DERZ2	10:DERX4
			53.467	15.739	21.335	2.870	37.187	30.310
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	7:DERZ1	3:EQX
106	38	+ve	0.000	-13.774	-26.592	-3.266	-11.180	-26.522
			-	6:DERX2	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2
			50.941	15.739	21.335	2.870	52.113	27.183
	55	-ve	7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-0.561	-13.774	-26.594	-3.266	-60.147	-20.007
			12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2	8:DERZ2	10:DERX4
109	87	+ve	41.646	18.310	33.322	3.478	52.220	37.847
			5:DERX1	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-8.649	-15.462	-27.450	-2.669	-48.390	-36.637
	161	-ve	10:DERX4	8:DERZ2	10:DERX4	8:DERZ2	6:DERX2	8:DERZ2
			39.120	18.310	33.322	3.478	69.648	29.028
			5:DERX1	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
119	87	+ve	-10.543	-15.463	-27.450	-2.669	-62.565	-26.609
			10:DERX4	8:DERZ2	10:DERX4	8:DERZ2	6:DERX2	8:DERZ2
			17.407	23.836	1.250	3.541	1.852	46.097
	161	-ve	4:EQZ	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-15.196	-8.891	-0.972	-2.121	-1.517	-31.575
			8:DERZ2	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
122	87	+ve	17.407	18.456	1.250	3.541	1.864	8.830
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-15.196	-13.588	-0.972	-2.121	-1.440	-15.209
	146	-ve	8:DERZ2	10:DERX4	12:DERZ4	12:DERZ4	12:DERZ4	6:DERX2
			4.988	52.637	2.592	1.773	1.830	83.973
			4:EQZ	7:DERZ1	3:EQX	5:DERX1	3:EQX	7:DERZ1
122	87	+ve	-4.192	-31.531	-2.043	0.000	-1.477	-56.301
			8:DERZ2	12:DERZ4	10:DERX4	-	6:DERX2	12:DERZ4
			4.988	51.599	2.592	1.773	2.061	8.864
	146	-ve	4:EQZ	7:DERZ1	3:EQX	5:DERX1	3:EQX	4:EQZ
			-4.192	-32.310	-2.043	0.000	-1.615	-8.424
			8:DERZ2	12:DERZ4	10:DERX4	-	10:DERX4	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
125	148	+ve	13.099	1.902	0.644	0.706	2.273	2.878
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-13.148	-5.512	-0.514	-1.305	-1.824	-25.802
			6:DERX2	8:DERZ2	10:DERX4	8:DERZ2	6:DERX2	14:COM2
	149	-ve	13.099	1.902	0.644	0.706	0.495	2.538
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-13.148	-8.677	-0.514	-1.305	-0.394	-8.649
			6:DERX2	8:DERZ2	10:DERX4	8:DERZ2	10:DERX4	8:DERZ2
126	90	+ve	12.424	13.154	1.518	0.706	3.613	26.745
			3:EQX	7:DERZ1	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-12.608	0.000	-1.216	-1.305	-2.891	0.000
			6:DERX2	-	6:DERX2	8:DERZ2	6:DERX2	-
	149	-ve	12.424	10.143	1.518	0.706	0.495	2.538
			3:EQX	7:DERZ1	3:EQX	4:EQZ	3:EQX	4:EQZ
			-12.608	0.000	-1.216	-1.305	-0.400	-8.649
			6:DERX2	-	6:DERX2	8:DERZ2	6:DERX2	8:DERZ2
127	64	+ve	128.242	33.160	62.605	2.288	121.522	62.657
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-13.070	-27.695	-45.130	-1.846	-116.634	-50.952
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	84	-ve	125.751	33.160	62.605	2.288	103.928	56.732
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-14.939	-27.695	-45.130	-1.846	-76.754	-43.075
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
128	65	+ve	226.109	35.253	54.725	2.282	107.227	67.018
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-4.414	-32.189	-44.386	-1.846	-85.158	-61.776
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	10:DERX4	8:DERZ2
	85	-ve	223.618	35.253	54.725	2.282	89.867	59.902
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-6.282	-32.189	-44.386	-1.846	-72.774	-44.942
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	12:DERZ4
129	85	+ve	128.144	27.359	42.146	2.455	71.808	48.503
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			0.000	-28.138	-31.627	-2.027	-60.982	-46.952
			-	8:DERZ2	10:DERX4	8:DERZ2	6:DERX2	8:DERZ2
	38	-ve	125.653	27.359	42.146	2.455	80.262	54.396
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX	7:DERZ1
			0.000	-28.138	-31.627	-2.027	-58.559	-32.826
			-	8:DERZ2	10:DERX4	8:DERZ2	10:DERX4	12:DERZ4
130	84	+ve	47.545	25.902	56.521	2.061	91.358	45.844
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-9.628	-18.479	-40.486	-1.676	-85.442	-35.137
			12:DERZ4	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	49	-ve	45.054	25.902	56.521	2.061	112.186	47.421
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-11.497	-18.479	-40.486	-1.676	-79.614	-48.606
			12:DERZ4	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
131	66	+ve	91.265	33.706	26.569	1.873	49.410	58.753
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-27.570	-23.760	-1.514	-35.173	-47.450
			-	6:DERX2	8:DERZ2	12:DERZ4	12:DERZ4	6:DERX2
	86	-ve	89.227	33.706	26.569	1.873	46.255	62.591
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-27.570	-23.760	-1.514	-40.223	-49.032
			-	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
132	86	+ve	29.548	23.571	23.889	1.707	40.702	46.388
			5:DERX1	3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX
			0.000	-17.249	-21.974	-1.378	-30.281	-35.613
			-	10:DERX4	8:DERZ2	10:DERX4	12:DERZ4	10:DERX4
	44	-ve	27.510	23.571	23.889	1.707	45.334	38.471
			5:DERX1	3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX
			-0.315	-17.249	-21.974	-1.378	-43.591	-38.708
			10:DERX4	10:DERX4	8:DERZ2	10:DERX4	8:DERZ2	6:DERX2
133	61	+ve	89.099	30.535	20.457	1.854	38.974	57.774
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	7:DERZ1	3:EQX
			0.000	-23.921	-20.231	-1.496	-26.029	-45.304
			-	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	81	-ve	87.061	30.535	20.457	1.854	35.064	52.162
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-23.921	-20.231	-1.496	-33.868	-42.899
			-	10:DERX4	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2
134	81	+ve	34.959	25.756	8.697	1.652	18.848	42.365
			14:COM2	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-20.009	-9.670	-1.221	-13.193	-32.600
			-	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	40	-ve	32.921	25.756	8.697	1.652	12.504	50.367
			14:COM2	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-20.009	-9.670	-1.221	-16.738	-41.539
			-	10:DERX4	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2
136	63	+ve	212.772	41.076	43.035	2.271	85.970	77.244
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-40.234	-32.708	-40.901	-1.836	-61.820	-61.517
			12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	83	-ve	210.281	41.076	43.035	2.271	69.032	70.637
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-42.102	-32.708	-40.901	-1.836	-65.141	-56.886
			12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2
137	83	+ve	121.483	36.767	35.169	2.211	56.206	63.810
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-18.017	-29.198	-30.239	-1.832	-43.360	-50.457
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4
	87	-ve	118.992	36.767	35.169	2.211	70.564	68.563
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-19.885	-29.198	-30.239	-1.832	-60.269	-55.273
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	8:DERZ2	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
138	62	+ve	212.484	35.977	56.113	2.271	108.652	67.445
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-13.099	-28.427	-38.927	-1.834	-107.967	-53.668
			12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	82	-ve	209.993	35.977	56.113	2.271	93.383	62.078
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-14.968	-28.427	-38.927	-1.834	-65.216	-51.141
			12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4	12:DERZ4	6:DERX2
139	82	+ve	129.239	31.034	37.431	2.272	68.225	54.084
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-3.078	-25.838	-27.474	-1.892	-65.665	-43.129
			12:DERZ4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	89	-ve	126.748	31.034	37.431	2.272	66.677	57.664
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-4.946	-25.838	-27.474	-1.892	-50.567	-43.774
			12:DERZ4	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
140	48	+ve	56.706	20.729	31.871	2.199	48.989	34.339
			14:COM2	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-14.949	-22.923	-1.999	-46.504	-24.876
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	153	-ve	54.180	20.729	31.871	2.199	67.409	41.360
			14:COM2	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-14.949	-22.923	-1.999	-48.643	-39.055
			-	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2
141	92	+ve	6.629	8.558	0.944	0.202	1.800	13.931
			7:DERZ1	7:DERZ1	7:DERZ1	5:DERX1	4:EQZ	7:DERZ1
			-4.215	0.000	-0.619	-0.146	-1.871	-3.416
			12:DERZ4	-	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
	54	-ve	6.440	3.546	0.944	0.202	1.583	3.687
			4:EQZ	4:EQZ	7:DERZ1	5:DERX1	7:DERZ1	4:EQZ
			-6.153	-5.303	-0.619	-0.146	-1.076	-2.505
			8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4
143	92	+ve	4.298	8.343	0.321	1.233	0.928	5.017
			3:EQX	5:DERX1	4:EQZ	4:EQZ	7:DERZ1	3:EQX
			-6.438	0.000	-0.350	-1.264	-0.488	-3.613
			6:DERX2	-	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4
	102	-ve	5.305	3.351	0.321	1.233	1.126	28.343
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-2.357	-13.378	-0.350	-1.264	-1.194	-2.390
			10:DERX4	6:DERX2	8:DERZ2	8:DERZ2	8:DERZ2	10:DERX4
144	101	+ve	1.912	17.916	0.762	1.060	1.004	32.608
			3:EQX	4:EQZ	5:DERX1	5:DERX1	3:EQX	4:EQZ
			-2.421	-15.840	-0.298	-0.551	-1.087	-26.090
			6:DERX2	8:DERZ2	10:DERX4	10:DERX4	6:DERX2	12:DERZ4
	102	-ve	1.912	17.916	0.762	1.060	1.701	35.933
			3:EQX	4:EQZ	5:DERX1	5:DERX1	5:DERX1	7:DERZ1
			-1.779	-17.959	-0.298	-0.551	-0.465	-19.678
			6:DERX2	8:DERZ2	10:DERX4	10:DERX4	10:DERX4	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
145	98	+ve	2.285	4.208	1.187	1.007	1.545	7.267
			3:EQX	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-3.606	-0.398	-0.832	-0.623	-1.293	-1.462
			6:DERX2	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	60	-ve	2.285	2.422	1.187	1.007	2.339	10.913
			3:EQX	3:EQX	4:EQZ	7:DERZ1	7:DERZ1	7:DERZ1
			-3.606	-5.847	-0.832	-0.623	-1.398	-1.052
			6:DERX2	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	12:DERZ4
146	87	+ve	39.568	9.507	10.573	1.798	23.039	23.167
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-3.591	-7.614	-8.634	-1.697	-17.819	-18.642
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4
	155	-ve	37.042	9.507	10.573	1.798	15.754	11.558
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-5.485	-7.614	-8.635	-1.697	-12.213	-9.421
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2
147	89	+ve	57.077	16.272	21.899	1.887	35.013	33.491
			7:DERZ1	3:EQX	7:DERZ1	4:EQZ	4:EQZ	3:EQX
			0.000	-14.522	-12.955	-1.607	-36.422	-30.810
			-	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	6:DERX2
	102	-ve	54.091	16.272	21.898	1.887	58.216	36.743
			7:DERZ1	3:EQX	7:DERZ1	4:EQZ	7:DERZ1	3:EQX
			0.000	-14.522	-12.955	-1.607	-32.841	-27.470
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
148	101	+ve	23.898	17.014	0.521	2.667	1.175	27.700
			3:EQX	5:DERX1	7:DERZ1	4:EQZ	4:EQZ	5:DERX1
			-18.424	-1.351	-0.319	-2.468	-1.238	-9.439
			10:DERX4	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	55	-ve	24.801	9.306	0.521	2.667	1.917	35.680
			5:DERX1	3:EQX	7:DERZ1	4:EQZ	7:DERZ1	3:EQX
			-15.483	-13.382	-0.319	-2.468	-1.169	-28.426
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
149	102	+ve	1.631	19.437	1.947	1.033	1.205	33.338
			3:EQX	5:DERX1	7:DERZ1	3:EQX	4:EQZ	5:DERX1
			-3.176	0.000	-0.580	-2.066	-2.316	-4.050
			6:DERX2	-	12:DERZ4	6:DERX2	8:DERZ2	10:DERX4
	98	-ve	1.631	13.125	1.947	1.033	2.239	2.301
			3:EQX	5:DERX1	7:DERZ1	3:EQX	7:DERZ1	3:EQX
			-1.298	-3.482	-0.580	-2.066	-1.235	-4.826
			6:DERX2	10:DERX4	12:DERZ4	6:DERX2	12:DERZ4	6:DERX2
188	102	+ve	4.353	18.459	1.370	2.049	1.914	38.859
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	7:DERZ1	7:DERZ1
			-3.949	0.000	-1.540	-0.826	-0.149	0.000
			8:DERZ2	-	8:DERZ2	12:DERZ4	12:DERZ4	-
	60	-ve	4.353	17.127	1.370	2.049	2.110	1.648
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-3.556	0.000	-1.540	-0.826	-1.690	-3.781
			12:DERZ4	-	8:DERZ2	12:DERZ4	12:DERZ4	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
193	103	+ve	0.020	10.877	0.121	6.469	0.089	24.120
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.017	-28.819	-0.097	-0.993	-0.072	-30.484
			8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	8:DERZ2
	15	-ve	0.020	10.877	0.121	6.469	0.330	71.918
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			-0.017	-35.003	-0.097	-0.993	-0.266	-13.007
			8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4
194	104	+ve	0.000	5.939	0.089	1.320	0.215	17.682
			-	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			0.000	-17.049	-0.072	-0.393	-0.174	-17.445
			-	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4
	16	-ve	0.000	5.939	0.089	1.320	0.375	47.425
			-	4:EQZ	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			0.000	-18.952	-0.072	-0.393	-0.303	-10.661
			-	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4
195	105	+ve	0.000	9.641	0.119	0.595	0.051	21.100
			2:LIVE	4:EQZ	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.000	-26.209	-0.096	-0.601	-0.041	-28.708
			13:COM1	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	8:DERZ2
	61	-ve	0.000	9.641	0.119	0.595	0.287	58.853
			2:LIVE	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.000	-27.593	-0.096	-0.601	-0.232	-15.731
			13:COM1	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4
196	106	+ve	0.000	15.703	0.038	0.685	0.070	23.201
			5:DERX1	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			0.000	-4.622	-0.031	-0.504	-0.055	-29.409
			-	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2	8:DERZ2
	110	-ve	0.000	14.319	0.038	0.685	0.041	1.041
			5:DERX1	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			0.000	-5.660	-0.031	-0.504	-0.033	-25.485
			-	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2	14:COM2
197	103	+ve	0.111	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-0.088	0.000	-0.000	0.000	0.000	0.000
			8:DERZ2	-	13:COM1	-	-	-
	105	-ve	0.111	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-0.088	-6.775	-0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	13:COM1	-	-	-
199	105	+ve	0.034	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-0.027	0.000	-0.000	0.000	0.000	0.000
			8:DERZ2	-	13:COM1	-	-	-
	106	-ve	0.034	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-0.027	-6.775	-0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	13:COM1	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
200	107	+ve	0.358	10.014	0.761	12.108	0.218	3.964
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.286	-10.473	-0.610	0.000	-0.176	-32.898
			12:DERZ4	8:DERZ2	12:DERZ4	-	12:DERZ4	8:DERZ2
	179	-ve	0.358	10.014	0.761	12.108	0.503	7.918
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.286	-11.702	-0.610	0.000	-0.404	-34.838
			12:DERZ4	8:DERZ2	12:DERZ4	-	12:DERZ4	8:DERZ2
201	108	+ve	0.000	5.939	0.111	1.320	0.045	5.805
			-	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			0.000	-9.180	-0.090	-0.393	-0.036	-18.125
			-	8:DERZ2	12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2
	104	-ve	0.000	5.939	0.111	1.320	0.215	17.682
			-	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			0.000	-11.083	-0.090	-0.393	-0.174	-17.445
			-	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4
202	109	+ve	0.000	9.641	0.057	0.595	0.096	1.819
			13:COM1	4:EQZ	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.000	-12.806	-0.045	-0.601	-0.076	-26.190
			2:LIVE	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	14:COM2
	105	-ve	0.000	9.641	0.057	0.595	0.051	21.100
			13:COM1	4:EQZ	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.000	-14.190	-0.045	-0.601	-0.041	-28.708
			2:LIVE	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	8:DERZ2
203	110	+ve	0.000	11.082	0.064	0.685	0.041	1.041
			13:COM1	4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-0.000	-15.387	-0.052	-0.504	-0.033	-25.485
			2:LIVE	8:DERZ2	12:DERZ4	12:DERZ4	8:DERZ2	14:COM2
	114	-ve	0.000	11.082	0.064	0.685	0.102	21.126
			13:COM1	4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-0.000	-16.771	-0.052	-0.504	-0.082	-25.613
			2:LIVE	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2
204	107	+ve	0.279	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-0.224	0.000	-0.000	0.000	0.000	0.000
			12:DERZ4	-	13:COM1	-	-	-
	109	-ve	0.279	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-0.224	-6.775	-0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	13:COM1	-	-	-
206	109	+ve	0.118	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	-	-	-	-
			-0.094	0.000	-0.000	0.000	0.000	0.000
			12:DERZ4	-	5:DERX1	-	-	-
	110	-ve	0.118	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	-	-	-	-
			-0.094	-6.775	-0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	5:DERX1	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
207	111	+ve	0.253	27.836	1.021	2.293	0.736	16.126
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.203	0.000	-0.818	-13.010	-0.588	-24.328
			12:DERZ4	-	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2
	276	-ve	0.253	26.298	1.021	2.293	1.233	11.151
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.203	0.000	-0.818	-13.010	-0.986	-29.826
			12:DERZ4	-	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2
208	112	+ve	0.000	8.191	0.124	1.320	0.242	6.074
			-	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			0.000	-1.920	-0.100	-0.393	-0.193	-13.364
			-	12:DERZ4	12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2
	108	-ve	0.000	6.288	0.124	1.320	0.045	5.805
			-	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			0.000	-3.347	-0.100	-0.393	-0.036	-18.125
			-	12:DERZ4	12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2
209	113	+ve	0.000	16.023	0.119	0.595	0.149	17.466
			2:LIVE	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.000	-2.645	-0.095	-0.601	-0.118	-22.135
			13:COM1	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2
	109	-ve	0.000	14.639	0.119	0.595	0.096	1.819
			2:LIVE	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.000	-3.683	-0.095	-0.601	-0.076	-26.190
			13:COM1	12:DERZ4	12:DERZ4	6:DERX2	12:DERZ4	14:COM2
210	114	+ve	0.000	11.082	0.082	0.685	0.102	21.126
			5:DERX1	4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			0.000	-28.747	-0.066	-0.504	-0.082	-25.613
			-	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2
	64	-ve	0.000	11.082	0.082	0.685	0.216	64.136
			5:DERX1	4:EQZ	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			0.000	-30.063	-0.066	-0.504	-0.174	-14.640
			-	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	12:DERZ4
211	111	+ve	0.401	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-0.321	0.000	-0.000	0.000	0.000	0.000
			12:DERZ4	-	13:COM1	-	-	-
	113	-ve	0.401	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-0.321	-6.775	-0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	13:COM1	-	-	-
212	114	+ve	0.093	6.583	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	-	-	-	-
			-0.074	0.000	0.000	0.000	0.000	0.000
			8:DERZ2	-	-	-	-	-
	112	-ve	0.093	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	-	-	-	-
			-0.074	-6.583	0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
213	113	+ve	0.177	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-0.141	0.000	-0.000	0.000	0.000	0.000
			8:DERZ2	-	13:COM1	-	-	-
	114	-ve	0.177	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-0.141	-6.775	-0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	13:COM1	-	-	-
214	115	+ve	0.000	34.551	0.270	1.530	0.043	13.887
			13:COM1	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.000	-30.123	-0.218	-1.887	-0.034	-5.358
			2:LIVE	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	17	-ve	0.000	34.551	0.270	1.530	0.498	64.111
			13:COM1	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.000	-36.307	-0.218	-1.887	-0.402	-34.853
			2:LIVE	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4
215	116	+ve	0.000	15.790	0.457	2.097	0.091	19.138
			-	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-12.113	-0.369	-2.675	-0.073	-1.884
			-	12:DERZ4	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	18	-ve	0.000	15.790	0.457	2.097	0.822	24.842
			-	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-13.541	-0.369	-2.675	-0.664	-11.118
			-	12:DERZ4	12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4
216	117	+ve	0.000	43.942	0.257	0.667	0.049	14.926
			13:COM1	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.000	-38.793	-0.208	-0.364	-0.039	-10.936
			2:LIVE	8:DERZ2	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
	62	-ve	0.000	43.942	0.257	0.667	0.466	72.959
			13:COM1	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.000	-40.177	-0.208	-0.364	-0.377	-50.834
			2:LIVE	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4
217	118	+ve	0.000	40.819	0.226	3.048	0.044	9.130
			-	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-35.277	-0.183	-2.547	-0.035	-3.137
			-	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	64	-ve	0.000	40.819	0.226	3.048	0.409	75.441
			-	4:EQZ	4:EQZ	3:EQX	4:EQZ	4:EQZ
			0.000	-36.660	-0.183	-2.547	-0.330	-52.757
			-	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4
218	115	+ve	0.015	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	13:COM1	-	-	-
			-0.013	0.000	-0.000	0.000	0.000	0.000
			8:DERZ2	-	2:LIVE	-	-	-
	117	-ve	0.015	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	13:COM1	-	-	-
			-0.013	-6.775	-0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	2:LIVE	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
219	118	+ve	0.029	6.583	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	-	-	-	-
			-0.023	0.000	0.000	0.000	0.000	0.000
			8:DERZ2	-	-	-	-	-
	116	-ve	0.029	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	-	-	-	-
			-0.023	-6.583	0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	-	-	-	-
220	117	+ve	0.013	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	-	-	-	-
			-0.011	0.000	0.000	0.000	0.000	0.000
			8:DERZ2	-	-	-	-	-
	118	-ve	0.013	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	-	-	-	-
			-0.011	-6.775	0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	-	-	-	-
221	21	+ve	1.051	1.547	0.325	8.330	0.420	0.429
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-0.683	-12.157	-0.304	-6.566	-0.307	-0.256
			12:DERZ4	14:COM2	6:DERX2	10:DERX4	10:DERX4	12:DERZ4
	83	-ve	1.051	1.547	0.325	8.330	0.394	32.721
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	14:COM2
			-0.683	-13.887	-0.304	-6.566	-0.370	0.000
			12:DERZ4	14:COM2	6:DERX2	10:DERX4	6:DERX2	-
222	23	+ve	0.919	1.020	0.334	12.008	0.421	0.266
			4:EQZ	3:EQX	3:EQX	3:EQX	3:EQX	7:DERZ1
			-1.058	-13.114	-0.321	-10.377	-0.303	-0.162
			8:DERZ2	14:COM2	6:DERX2	6:DERX2	10:DERX4	12:DERZ4
	85	-ve	0.919	1.020	0.334	12.008	0.414	35.032
			4:EQZ	3:EQX	3:EQX	3:EQX	3:EQX	14:COM2
			-1.058	-14.844	-0.321	-10.377	-0.401	0.000
			8:DERZ2	14:COM2	6:DERX2	6:DERX2	6:DERX2	-
223	25	+ve	4.278	1.084	0.425	1.753	0.510	0.371
			4:EQZ	3:EQX	3:EQX	4:EQZ	3:EQX	4:EQZ
			-3.393	-12.008	-0.367	-1.433	-0.388	-0.415
			12:DERZ4	14:COM2	6:DERX2	12:DERZ4	10:DERX4	8:DERZ2
	30	-ve	4.278	1.084	0.425	1.753	0.553	32.041
			4:EQZ	3:EQX	3:EQX	4:EQZ	3:EQX	14:COM2
			-3.393	-13.738	-0.367	-1.433	-0.474	0.000
			12:DERZ4	14:COM2	6:DERX2	12:DERZ4	6:DERX2	-
224	86	+ve	2.631	23.342	3.285	2.280	5.457	63.589
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-2.113	-5.553	-2.664	-2.004	-4.298	-39.110
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	12:DERZ4
	122	-ve	2.631	21.958	3.285	2.280	1.117	29.580
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-2.113	-6.591	-2.664	-2.004	-0.897	-29.038
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
225	29	+ve	1.737	25.578	0.067	2.148	0.198	62.060
			5:DERX1	5:DERX1	3:EQX	4:EQZ	3:EQX	3:EQX
			-0.998	-10.837	-0.055	-1.896	-0.165	-44.258
			10:DERX4	10:DERX4	6:DERX2	8:DERZ2	6:DERX2	10:DERX4
	83	-ve	1.737	20.759	0.067	2.148	0.190	58.342
			5:DERX1	3:EQX	3:EQX	4:EQZ	3:EQX	3:EQX
			-0.998	-25.894	-0.055	-1.896	-0.165	-40.588
			10:DERX4	6:DERX2	6:DERX2	8:DERZ2	6:DERX2	10:DERX4
226	33	+ve	1.938	21.418	0.035	1.798	0.095	55.307
			3:EQX	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-2.481	-10.359	-0.032	-1.248	-0.072	-41.413
			6:DERX2	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	81	-ve	1.938	18.175	0.035	1.798	0.106	50.110
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-2.481	-22.440	-0.032	-1.248	-0.100	-34.915
			6:DERX2	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
227	35	+ve	3.008	26.002	0.042	1.293	0.154	64.707
			3:EQX	5:DERX1	3:EQX	4:EQZ	5:DERX1	3:EQX
			-2.652	-11.261	-0.047	-1.244	-0.079	-47.036
			6:DERX2	10:DERX4	6:DERX2	8:DERZ2	10:DERX4	10:DERX4
	82	-ve	3.008	21.296	0.042	1.293	0.115	58.809
			3:EQX	3:EQX	3:EQX	4:EQZ	4:EQZ	3:EQX
			-2.652	-26.330	-0.047	-1.244	-0.119	-41.659
			6:DERX2	6:DERX2	6:DERX2	8:DERZ2	8:DERZ2	10:DERX4
228	19	+ve	2.469	6.092	0.010	0.281	0.031	8.525
			4:EQZ	5:DERX1	3:EQX	4:EQZ	3:EQX	5:DERX1
			-1.830	0.000	-0.009	-0.304	-0.023	-1.799
			12:DERZ4	-	6:DERX2	8:DERZ2	10:DERX4	10:DERX4
	21	-ve	2.469	1.591	0.010	0.281	0.030	8.885
			4:EQZ	3:EQX	3:EQX	4:EQZ	3:EQX	5:DERX1
			-1.830	-6.394	-0.009	-0.304	-0.027	-0.855
			12:DERZ4	6:DERX2	6:DERX2	8:DERZ2	6:DERX2	10:DERX4
229	20	+ve	0.610	4.886	0.001	0.290	0.005	6.609
			4:EQZ	5:DERX1	4:EQZ	3:EQX	4:EQZ	3:EQX
			-0.795	0.000	-0.001	-0.308	-0.004	-4.578
			8:DERZ2	-	8:DERZ2	6:DERX2	12:DERZ4	10:DERX4
	22	-ve	0.610	1.816	0.001	0.290	0.004	7.627
			4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ	5:DERX1
			-0.795	-5.989	-0.001	-0.308	-0.004	-0.384
			8:DERZ2	6:DERX2	8:DERZ2	6:DERX2	8:DERZ2	10:DERX4
230	21	+ve	2.268	6.482	0.008	0.222	0.024	8.474
			4:EQZ	5:DERX1	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-1.597	0.000	-0.008	-0.149	-0.017	-0.794
			12:DERZ4	-	6:DERX2	12:DERZ4	10:DERX4	10:DERX4
	23	-ve	2.268	1.963	0.008	0.222	0.023	11.388
			4:EQZ	3:EQX	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-1.597	-6.600	-0.008	-0.149	-0.023	-3.085
			12:DERZ4	6:DERX2	6:DERX2	12:DERZ4	6:DERX2	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
231	22	+ve	1.416	5.035	0.002	0.205	0.005	6.535
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-1.615	0.000	-0.002	-0.115	-0.004	0.000
			8:DERZ2	-	8:DERZ2	12:DERZ4	12:DERZ4	-
	28	-ve	1.416	1.055	0.002	0.205	0.007	6.164
			4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-1.615	-4.621	-0.002	-0.115	-0.007	-1.248
			8:DERZ2	8:DERZ2	8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4
232	23	+ve	2.402	7.043	0.005	0.415	0.015	10.127
			4:EQZ	14:COM2	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-1.746	0.000	-0.004	-0.238	-0.012	-0.709
			12:DERZ4	-	6:DERX2	12:DERZ4	10:DERX4	10:DERX4
	25	-ve	2.402	0.971	0.005	0.415	0.015	3.423
			4:EQZ	3:EQX	3:EQX	7:DERZ1	4:EQZ	7:DERZ1
			-1.746	-5.504	-0.004	-0.238	-0.013	-0.058
			12:DERZ4	14:COM2	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4
233	28	+ve	3.606	4.330	0.527	0.422	0.633	5.169
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-2.969	-2.319	-0.421	-0.080	-0.507	-3.028
			8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2	12:DERZ4
	275	-ve	3.606	3.764	0.527	0.422	0.632	5.795
			4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-2.969	-4.991	-0.421	-0.080	-0.505	-2.118
			8:DERZ2	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	12:DERZ4
234	29	+ve	5.098	56.538	2.988	11.276	2.348	90.761
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-6.588	-36.000	-2.322	-10.123	-1.995	-63.960
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	6:DERX2	12:DERZ4
	131	-ve	5.098	54.600	2.988	11.276	2.133	9.622
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-6.588	-37.453	-2.322	-10.123	-1.672	-8.928
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	12:DERZ4
235	30	+ve	1.474	22.302	2.065	1.003	1.575	49.297
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-2.401	-7.342	-1.641	-2.465	-1.260	-16.730
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	12:DERZ4
	132	-ve	1.474	21.264	2.065	1.003	1.523	16.628
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-2.401	-8.121	-1.641	-2.465	-1.203	-5.138
			8:DERZ2	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	12:DERZ4
236	19	+ve	1.424	1.470	0.524	9.401	0.675	0.112
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-0.699	-13.996	-0.415	-7.415	-0.535	-0.394
			12:DERZ4	14:COM2	10:DERX4	10:DERX4	10:DERX4	8:DERZ2
	29	-ve	1.424	1.470	0.524	9.401	0.636	38.654
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	14:COM2
			-0.699	-17.226	-0.415	-7.415	-0.492	0.000
			12:DERZ4	14:COM2	10:DERX4	10:DERX4	10:DERX4	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
237	33	+ve	1.066	7.661	0.198	6.609	0.232	13.399
			4:EQZ	5:DERX1	3:EQX	3:EQX	3:EQX	5:DERX1
			-1.015	0.000	-0.134	-4.578	-0.223	0.000
			8:DERZ2	-	10:DERX4	10:DERX4	6:DERX2	-
	20	-ve	1.066	4.886	0.198	6.609	0.193	0.308
			4:EQZ	5:DERX1	3:EQX	3:EQX	3:EQX	5:DERX1
			-1.015	0.000	-0.134	-4.578	-0.129	-0.189
			8:DERZ2	-	10:DERX4	10:DERX4	10:DERX4	10:DERX4
238	34	+ve	5.359	10.842	0.337	2.718	0.423	21.372
			4:EQZ	14:COM2	4:EQZ	7:DERZ1	4:EQZ	14:COM2
			-4.267	0.000	-0.262	-0.105	-0.354	0.000
			12:DERZ4	-	12:DERZ4	12:DERZ4	8:DERZ2	-
	26	-ve	5.359	9.356	0.337	2.718	0.301	0.285
			4:EQZ	14:COM2	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-4.267	0.000	-0.262	-0.105	-0.234	-0.481
			12:DERZ4	-	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2
239	35	+ve	7.360	28.661	3.599	4.866	5.621	70.792
			7:DERZ1	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-4.111	-0.934	-2.868	-5.191	-4.532	-27.121
			12:DERZ4	12:DERZ4	6:DERX2	6:DERX2	10:DERX4	12:DERZ4
	127	-ve	7.360	26.203	3.599	4.866	1.229	26.944
			7:DERZ1	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-4.111	-2.778	-2.868	-5.191	-0.990	-24.500
			12:DERZ4	12:DERZ4	6:DERX2	6:DERX2	10:DERX4	8:DERZ2
240	36	+ve	7.550	13.766	3.309	1.251	5.176	23.352
			4:EQZ	7:DERZ1	3:EQX	5:DERX1	3:EQX	7:DERZ1
			-6.318	0.000	-2.637	0.000	-4.162	-3.944
			8:DERZ2	-	10:DERX4	-	6:DERX2	12:DERZ4
	128	-ve	7.550	12.449	3.309	1.251	1.123	5.538
			4:EQZ	7:DERZ1	3:EQX	5:DERX1	3:EQX	4:EQZ
			-6.318	0.000	-2.637	0.000	-0.893	-10.445
			8:DERZ2	-	10:DERX4	-	10:DERX4	8:DERZ2
241	81	+ve	1.203	11.179	0.186	6.720	0.227	22.277
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	14:COM2
			-0.857	0.000	-0.166	-5.563	-0.169	0.000
			12:DERZ4	-	8:DERZ2	6:DERX2	12:DERZ4	-
	22	-ve	1.203	9.693	0.186	6.720	0.176	0.173
			4:EQZ	14:COM2	4:EQZ	3:EQX	4:EQZ	3:EQX
			-0.857	0.000	-0.166	-5.563	-0.155	-0.264
			12:DERZ4	-	8:DERZ2	6:DERX2	8:DERZ2	6:DERX2
242	82	+ve	6.492	32.591	3.789	0.922	5.941	76.720
			4:EQZ	7:DERZ1	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-4.823	0.000	-2.985	-0.670	-4.859	-23.698
			12:DERZ4	-	10:DERX4	12:DERZ4	6:DERX2	12:DERZ4
	129	-ve	6.492	31.274	3.789	0.922	1.271	27.878
			4:EQZ	7:DERZ1	3:EQX	4:EQZ	3:EQX	4:EQZ
			-4.823	0.000	-2.985	-0.670	-1.012	-28.641
			12:DERZ4	-	10:DERX4	12:DERZ4	10:DERX4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
243	83	+ve	2.274	63.599	2.266	0.776	1.731	116.178
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-3.353	-44.925	-1.797	-0.954	-1.393	-85.650
			8:DERZ2	12:DERZ4	10:DERX4	8:DERZ2	10:DERX4	12:DERZ4
	133	-ve	2.274	63.599	2.266	0.776	1.667	20.782
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-3.353	-45.703	-1.797	-0.954	-1.318	-17.844
			8:DERZ2	12:DERZ4	10:DERX4	8:DERZ2	10:DERX4	8:DERZ2
244	85	+ve	3.664	63.970	2.257	4.137	1.740	106.065
			4:EQZ	7:DERZ1	3:EQX	5:DERX1	3:EQX	4:EQZ
			-2.578	-42.985	-1.780	-2.526	-1.453	-76.329
			12:DERZ4	12:DERZ4	10:DERX4	10:DERX4	6:DERX2	12:DERZ4
	134	-ve	3.664	63.435	2.257	4.137	1.646	10.924
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-2.578	-43.763	-1.780	-2.526	-1.309	-11.916
			12:DERZ4	12:DERZ4	10:DERX4	10:DERX4	10:DERX4	8:DERZ2
245	86	+ve	1.279	10.384	0.251	2.586	0.295	20.702
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.921	0.000	-0.251	-3.696	-0.208	-0.825
			12:DERZ4	-	8:DERZ2	6:DERX2	12:DERZ4	12:DERZ4
	28	-ve	1.279	8.898	0.251	2.586	0.245	0.289
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX
			-0.921	-0.825	-0.251	-3.696	-0.246	-0.373
			12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2	8:DERZ2	6:DERX2
246	85	+ve	3.564	22.313	0.050	2.828	0.164	62.244
			3:EQX	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-3.199	-5.544	-0.043	-1.414	-0.128	-43.064
			6:DERX2	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	30	-ve	3.564	15.396	0.050	2.828	0.142	32.825
			3:EQX	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-3.199	-21.705	-0.043	-1.414	-0.123	-19.664
			6:DERX2	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
247	83	+ve	3.217	29.475	0.059	1.687	0.175	66.772
			5:DERX1	5:DERX1	3:EQX	4:EQZ	5:DERX1	3:EQX
			-1.805	-14.607	-0.061	-1.301	-0.118	-47.896
			10:DERX4	10:DERX4	6:DERX2	12:DERZ4	10:DERX4	10:DERX4
	85	-ve	3.217	25.512	0.059	1.687	0.171	81.199
			5:DERX1	3:EQX	3:EQX	4:EQZ	3:EQX	3:EQX
			-1.805	-29.603	-0.061	-1.301	-0.177	-58.930
			10:DERX4	6:DERX2	6:DERX2	12:DERZ4	6:DERX2	10:DERX4
248	86	+ve	5.309	36.256	7.167	14.945	8.958	80.874
			3:EQX	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-4.076	0.000	-5.739	-8.900	-7.158	-57.046
			10:DERX4	-	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	233	-ve	5.309	26.795	7.167	14.945	8.246	39.606
			3:EQX	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-4.076	-5.240	-5.739	-8.900	-6.598	-62.598
			10:DERX4	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
249	81	+ve	1.746	15.062	0.036	1.114	0.094	36.565
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-2.073	-4.811	-0.033	-1.174	-0.072	-26.075
	86	-ve	8:DERZ2	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4
			1.746	10.902	0.036	1.114	0.115	32.552
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
250	84	+ve	-2.073	-17.159	-0.033	-1.174	-0.109	-14.249
			8:DERZ2	6:DERX2	8:DERZ2	8:DERZ2	8:DERZ2	10:DERX4
			2.855	26.753	3.461	13.225	4.446	52.435
	232	-ve	5:DERX1	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-1.577	0.000	-2.759	-14.712	-3.576	-23.780
			10:DERX4	-	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
251	82	+ve	2.855	19.064	3.461	13.225	3.870	14.713
			5:DERX1	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-1.577	-3.622	-2.759	-14.712	-3.087	-25.961
	84	-ve	10:DERX4	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2
			2.259	23.346	0.037	1.638	0.103	55.889
			3:EQX	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
252	119	+ve	-2.473	-10.974	-0.028	-0.951	-0.085	-40.718
			6:DERX2	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
			2.259	19.764	0.037	1.638	0.110	62.445
	33	-ve	3:EQX	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-2.473	-26.534	-0.028	-0.951	-0.084	-36.894
			6:DERX2	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
253	120	+ve	3.684	15.968	3.556	5.467	1.508	32.042
			7:DERZ1	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-0.444	-27.223	-2.907	-2.996	-1.202	-31.480
	34	-ve	12:DERZ4	8:DERZ2	6:DERX2	10:DERX4	10:DERX4	8:DERZ2
			3.684	15.968	3.556	5.467	5.618	76.791
			7:DERZ1	4:EQZ	3:EQX	5:DERX1	3:EQX	7:DERZ1
254	121	+ve	-0.444	-29.807	-2.907	-2.996	-4.606	-34.615
			12:DERZ4	8:DERZ2	6:DERX2	10:DERX4	6:DERX2	12:DERZ4
			1.126	5.090	2.904	1.251	1.044	14.830
	81	-ve	3:EQX	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-1.179	-13.400	-2.321	0.000	-0.833	-15.978
			6:DERX2	8:DERZ2	10:DERX4	-	10:DERX4	8:DERZ2
255	122	+ve	1.126	5.090	2.904	1.251	4.765	35.933
			3:EQX	4:EQZ	3:EQX	5:DERX1	3:EQX	7:DERZ1
			-1.179	-14.784	-2.321	0.000	-3.807	-10.364
	81	-ve	6:DERX2	8:DERZ2	10:DERX4	-	10:DERX4	12:DERZ4
			4.837	13.944	3.395	0.922	1.225	27.897
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
256	123	+ve	-3.499	-29.860	-2.760	-0.670	-0.970	-31.485
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	8:DERZ2
			4.837	13.944	3.395	0.922	5.571	74.255
	81	-ve	4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-3.499	-31.244	-2.760	-0.670	-4.535	-26.263
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
255	122	+ve	1.076	15.948	1.118	2.280	1.117	29.580
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-0.869	-10.141	-0.930	-2.004	-0.897	-29.038
			8:DERZ2	12:DERZ4	6:DERX2	6:DERX2	10:DERX4	8:DERZ2
	126	-ve	1.076	15.557	1.118	2.280	3.337	1.544
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-0.869	-11.179	-0.930	-2.004	-2.737	-12.230
			8:DERZ2	12:DERZ4	6:DERX2	6:DERX2	6:DERX2	8:DERZ2
256	119	+ve	0.959	6.775	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	13:COM1	-	-	-
			-0.759	0.000	-0.000	0.000	0.000	0.000
			6:DERX2	-	2:LIVE	-	-	-
	121	-ve	0.959	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	13:COM1	-	-	-
			-0.759	-6.775	-0.000	0.000	0.000	0.000
			6:DERX2	14:COM2	2:LIVE	-	-	-
259	123	+ve	3.953	14.571	3.037	4.866	3.306	3.797
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	3:EQX
			-0.705	-11.816	-2.282	-5.191	-2.588	-20.471
			12:DERZ4	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	6:DERX2
	180	-ve	3.953	14.571	3.037	4.866	2.189	8.103
			7:DERZ1	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-0.705	-12.227	-2.282	-5.191	-1.636	-23.791
			12:DERZ4	8:DERZ2	10:DERX4	6:DERX2	10:DERX4	8:DERZ2
260	124	+ve	3.046	5.090	0.880	1.251	2.798	4.655
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-2.715	-7.037	-0.703	0.000	-2.239	-15.151
			8:DERZ2	8:DERZ2	10:DERX4	-	10:DERX4	8:DERZ2
	120	-ve	3.046	5.090	0.880	1.251	1.044	14.830
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-2.715	-8.421	-0.703	0.000	-0.833	-15.978
			8:DERZ2	8:DERZ2	10:DERX4	-	10:DERX4	8:DERZ2
261	125	+ve	1.723	13.944	1.016	0.922	3.229	0.131
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-0.746	-16.457	-0.846	-0.670	-2.519	-23.592
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	10:DERX4	14:COM2
	121	-ve	1.723	13.944	1.016	0.922	1.225	27.897
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-0.746	-17.841	-0.846	-0.670	-0.970	-31.485
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	8:DERZ2
262	126	+ve	2.351	15.557	1.088	2.280	3.337	1.544
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.889	-16.337	-0.839	-2.004	-2.737	-12.230
			8:DERZ2	8:DERZ2	10:DERX4	6:DERX2	6:DERX2	8:DERZ2
	130	-ve	2.351	15.557	1.088	2.280	1.172	32.649
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.889	-17.721	-0.839	-2.004	-0.933	-27.949
			8:DERZ2	8:DERZ2	10:DERX4	6:DERX2	10:DERX4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
263	123	+ve	1.895	6.775	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	13:COM1	-	-	-
			-1.400	0.000	-0.000	0.000	0.000	0.000
			10:DERX4	-	2:LIVE	-	-	-
	125	-ve	1.895	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	13:COM1	-	-	-
			-1.400	-6.775	-0.000	0.000	0.000	0.000
			10:DERX4	14:COM2	2:LIVE	-	-	-
265	125	+ve	0.465	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	13:COM1	-	-	-
			-0.314	0.000	-0.000	0.000	0.000	0.000
			12:DERZ4	-	2:LIVE	-	-	-
	126	-ve	0.465	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	13:COM1	-	-	-
			-0.314	-6.775	-0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	2:LIVE	-	-	-
266	127	+ve	5.472	20.193	1.045	4.866	1.229	26.944
			7:DERZ1	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-2.223	-6.328	-0.804	-5.191	-0.990	-24.500
			12:DERZ4	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	8:DERZ2
	123	-ve	5.472	17.609	1.045	4.866	3.306	3.797
			7:DERZ1	7:DERZ1	3:EQX	3:EQX	3:EQX	3:EQX
			-2.223	-8.266	-0.804	-5.191	-2.588	-20.471
			12:DERZ4	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	6:DERX2
267	128	+ve	5.299	7.470	0.844	1.251	1.123	5.538
			4:EQZ	7:DERZ1	3:EQX	5:DERX1	3:EQX	4:EQZ
			-4.517	-1.493	-0.680	0.000	-0.893	-10.445
			8:DERZ2	12:DERZ4	6:DERX2	-	10:DERX4	8:DERZ2
	124	-ve	5.299	6.086	0.844	1.251	2.798	4.655
			4:EQZ	7:DERZ1	3:EQX	5:DERX1	3:EQX	4:EQZ
			-4.517	-2.531	-0.680	0.000	-2.239	-15.151
			8:DERZ2	12:DERZ4	6:DERX2	-	10:DERX4	8:DERZ2
268	129	+ve	2.906	19.255	0.985	0.922	1.271	27.878
			7:DERZ1	7:DERZ1	3:EQX	4:EQZ	3:EQX	4:EQZ
			-1.929	-6.225	-0.758	-0.670	-1.012	-28.641
			12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	10:DERX4	8:DERZ2
	125	-ve	2.906	17.872	0.985	0.922	3.229	0.131
			7:DERZ1	7:DERZ1	3:EQX	4:EQZ	3:EQX	4:EQZ
			-1.929	-7.263	-0.758	-0.670	-2.519	-23.592
			12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	10:DERX4	14:COM2
269	130	+ve	4.463	15.557	3.711	2.280	1.172	32.649
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-3.578	-23.730	-2.937	-2.004	-0.933	-27.949
			8:DERZ2	8:DERZ2	10:DERX4	6:DERX2	10:DERX4	8:DERZ2
	84	-ve	4.463	15.557	3.711	2.280	5.890	70.692
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-3.578	-25.047	-2.937	-2.004	-4.649	-37.058
			8:DERZ2	8:DERZ2	10:DERX4	6:DERX2	10:DERX4	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
270	127	+ve	0.226	6.775	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	13:COM1	-	-	-
			-0.165	0.000	-0.000	0.000	0.000	0.000
			10:DERX2	-	2:LIVE	-	-	-
	129	-ve	0.226	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	13:COM1	-	-	-
			-0.165	-6.775	-0.000	0.000	0.000	0.000
			10:DERX2	14:COM2	2:LIVE	-	-	-
272	129	+ve	0.631	6.775	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	13:COM1	-	-	-
			-0.510	0.000	-0.000	0.000	0.000	0.000
			6:DERX2	-	2:LIVE	-	-	-
	130	-ve	0.631	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	13:COM1	-	-	-
			-0.510	-6.775	-0.000	0.000	0.000	0.000
			6:DERX2	14:COM2	2:LIVE	-	-	-
273	131	+ve	3.589	52.409	2.200	8.846	2.169	13.249
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-5.411	-42.712	-1.908	-6.363	-1.650	-11.789
			6:DERX2	12:DERZ4	6:DERX2	10:DERX2	10:DERX2	12:DERZ4
	238	-ve	3.589	52.409	2.200	8.846	2.012	86.343
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-5.411	-44.553	-1.908	-6.363	-1.762	-67.663
			6:DERX2	12:DERZ4	6:DERX2	10:DERX2	6:DERX2	8:DERZ2
274	132	+ve	3.407	15.727	1.487	1.003	1.523	16.628
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-3.948	-13.539	-1.212	-2.465	-1.203	-5.138
			8:DERZ2	12:DERZ4	6:DERX2	6:DERX2	10:DERX2	12:DERZ4
	36	-ve	3.407	15.727	1.487	1.003	1.451	24.730
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-3.948	-14.577	-1.212	-2.465	-1.180	-9.763
			8:DERZ2	12:DERZ4	6:DERX2	6:DERX2	6:DERX2	12:DERZ4
275	133	+ve	2.638	63.599	1.599	0.776	1.667	20.782
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-3.645	-53.274	-1.301	-0.954	-1.318	-17.844
			8:DERZ2	8:DERZ2	6:DERX2	8:DERZ2	10:DERX2	8:DERZ2
	82	-ve	2.638	63.599	1.599	0.776	1.531	106.416
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-3.645	-54.658	-1.301	-0.954	-1.245	-81.300
			8:DERZ2	8:DERZ2	6:DERX2	8:DERZ2	6:DERX2	12:DERZ4
276	134	+ve	1.867	63.435	1.560	4.137	1.646	10.924
			7:DERZ1	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-0.797	-52.827	-1.239	-2.526	-1.309	-11.916
			12:DERZ4	8:DERZ2	10:DERX2	10:DERX2	10:DERX2	8:DERZ2
	84	-ve	1.867	63.435	1.560	4.137	1.474	115.958
			7:DERZ1	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-0.797	-54.210	-1.239	-2.526	-1.153	-90.402
			12:DERZ4	8:DERZ2	10:DERX2	10:DERX2	10:DERX2	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
277	131	+ve	1.150	6.775	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	13:COM1	-	-	-
			-0.850	0.000	-0.000	0.000	0.000	0.000
			10:DERX4	-	2:LIVE	-	-	-
	133	-ve	1.150	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	13:COM1	-	-	-
			-0.850	-6.775	-0.000	0.000	0.000	0.000
			10:DERX4	14:COM2	2:LIVE	-	-	-
278	134	+ve	1.065	8.870	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	2:LIVE	-	-	-
			-0.828	0.000	-0.000	0.000	0.000	0.000
			10:DERX4	-	13:COM1	-	-	-
	132	-ve	1.065	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	2:LIVE	-	-	-
			-0.828	-8.870	-0.000	0.000	0.000	0.000
			10:DERX4	14:COM2	13:COM1	-	-	-
279	133	+ve	0.789	6.775	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	13:COM1	-	-	-
			-0.590	0.000	-0.000	0.000	0.000	0.000
			10:DERX4	-	2:LIVE	-	-	-
	134	-ve	0.789	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	13:COM1	-	-	-
			-0.590	-6.775	-0.000	0.000	0.000	0.000
			10:DERX4	14:COM2	2:LIVE	-	-	-
280	135	+ve	8.246	9.957	2.323	1.201	2.868	20.867
			4:EQZ	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-5.543	-6.807	-1.855	-0.532	-2.298	-25.790
			12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	6:DERX2	8:DERZ2
	137	-ve	8.246	9.957	2.323	1.201	7.494	0.988
			4:EQZ	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-5.543	-7.845	-1.855	-0.532	-5.985	-11.884
			12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	10:DERX4	14:COM2
281	136	+ve	18.984	13.802	4.433	8.280	0.714	27.578
			4:EQZ	4:EQZ	3:EQX	5:DERX1	4:EQZ	4:EQZ
			-17.797	-17.274	-4.054	-2.472	-0.862	-27.440
			8:DERZ2	8:DERZ2	6:DERX2	10:DERX4	8:DERZ2	8:DERZ2
	45	-ve	18.984	13.802	4.433	8.280	8.753	55.153
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-17.797	-19.858	-4.054	-2.472	-8.308	-38.127
			8:DERZ2	8:DERZ2	6:DERX2	10:DERX4	6:DERX2	12:DERZ4
283	137	+ve	7.046	9.971	2.983	1.201	7.494	0.988
			7:DERZ1	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-4.490	-11.286	-2.405	-0.532	-5.985	-11.884
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	10:DERX4	14:COM2
	139	-ve	7.046	9.971	2.983	1.201	1.662	18.991
			7:DERZ1	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-4.490	-12.670	-2.405	-0.532	-1.349	-17.975
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
286	139	+ve	6.216	10.209	6.779	1.201	1.662	18.991
			7:DERZ1	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-3.661	-16.099	-5.416	-0.532	-1.349	-17.975
			12:DERZ4	8:DERZ2	10:DERX4	12:DERZ4	6:DERX2	8:DERZ2
	49	-ve	6.216	10.209	6.779	1.201	11.311	44.292
			7:DERZ1	4:EQZ	3:EQX	7:DERZ1	3:EQX	7:DERZ1
			-3.661	-17.415	-5.416	-0.532	-9.049	-22.121
			12:DERZ4	8:DERZ2	10:DERX4	12:DERZ4	10:DERX4	12:DERZ4
290	142	+ve	46.180	41.323	1.950	3.050	1.937	24.870
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-41.751	-29.851	-1.604	-6.646	-1.518	-5.259
			8:DERZ2	12:DERZ4	6:DERX2	6:DERX2	10:DERX4	12:DERZ4
	49	-ve	46.180	41.323	1.950	3.050	1.964	68.060
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-41.751	-30.889	-1.604	-6.646	-1.597	-54.280
			8:DERZ2	12:DERZ4	6:DERX2	6:DERX2	6:DERX2	8:DERZ2
291	141	+ve	2.456	6.311	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	13:COM1	-	-	-
			-1.857	0.000	-0.000	0.000	0.000	0.000
			10:DERX4	-	2:LIVE	-	-	-
	146	-ve	2.456	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	13:COM1	-	-	-
			-1.857	-6.311	-0.000	0.000	0.000	0.000
			10:DERX4	14:COM2	2:LIVE	-	-	-
292	40	+ve	13.704	23.618	3.566	12.303	6.608	37.497
			7:DERZ1	5:DERX1	4:EQZ	7:DERZ1	7:DERZ1	5:DERX1
			-7.868	0.000	-4.759	-4.636	-2.698	-8.678
			12:DERZ4	-	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	159	-ve	13.704	17.498	3.566	12.303	5.444	7.254
			7:DERZ1	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-7.868	-3.250	-4.759	-4.636	-7.552	-23.598
			12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2
293	51	+ve	27.195	12.245	2.203	3.465	4.440	33.520
			3:EQX	3:EQX	7:DERZ1	4:EQZ	4:EQZ	3:EQX
			-19.087	-12.596	-0.924	-4.629	-5.241	-45.790
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	6:DERX2
	40	-ve	27.195	12.245	2.203	3.465	5.656	41.409
			3:EQX	3:EQX	7:DERZ1	4:EQZ	7:DERZ1	5:DERX1
			-19.087	-22.755	-0.924	-4.629	-2.024	-10.492
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
297	146	+ve	2.673	49.198	2.142	1.773	2.061	8.864
			3:EQX	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-2.341	-37.653	-1.805	0.000	-1.615	-8.424
			6:DERX2	12:DERZ4	6:DERX2	-	10:DERX4	12:DERZ4
	89	-ve	2.673	49.198	2.142	1.773	2.229	89.535
			3:EQX	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-2.341	-38.691	-1.805	0.000	-1.905	-78.958
			6:DERX2	12:DERZ4	6:DERX2	-	6:DERX2	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
298	147	+ve	16.075	1.902	1.895	0.706	1.011	8.246
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-15.538	-14.811	-1.522	-1.305	-0.852	-20.707
			8:DERZ2	14:COM2	6:DERX2	8:DERZ2	6:DERX2	8:DERZ2
	51	-ve	16.075	1.902	1.895	0.706	4.377	36.817
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-15.538	-17.976	-1.522	-1.305	-3.562	0.000
			8:DERZ2	14:COM2	6:DERX2	8:DERZ2	6:DERX2	-
299	148	+ve	14.086	1.902	0.460	0.706	2.273	2.878
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-13.959	-2.863	-0.385	-1.305	-1.816	-25.802
			6:DERX2	8:DERZ2	6:DERX2	8:DERZ2	10:DERX4	14:COM2
	147	-ve	14.086	1.902	0.460	0.706	1.011	8.246
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-13.959	-6.028	-0.385	-1.305	-0.852	-20.707
			6:DERX2	8:DERZ2	6:DERX2	8:DERZ2	6:DERX2	8:DERZ2
301	158	+ve	3.252	10.012	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-2.595	0.000	-0.000	0.000	0.000	0.000
			12:DERZ4	-	13:COM1	-	-	-
	147	-ve	3.252	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-2.595	-10.012	-0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	13:COM1	-	-	-
303	157	+ve	3.523	6.619	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-2.848	0.000	-0.000	0.000	0.000	0.000
			8:DERZ2	-	13:COM1	-	-	-
	148	-ve	3.523	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-2.848	-6.619	-0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	13:COM1	-	-	-
305	149	+ve	1.819	2.543	0.070	0.000	0.000	0.000
			4:EQZ	5:DERX1	3:EQX	-	-	-
			-1.454	-0.031	-0.054	0.000	0.000	0.000
			12:DERZ4	10:DERX4	10:DERX4	-	-	-
	156	-ve	1.819	1.171	0.070	0.000	0.133	2.296
			4:EQZ	3:EQX	3:EQX	-	3:EQX	5:DERX1
			-1.454	-3.083	-0.054	0.000	-0.102	-1.291
			12:DERZ4	6:DERX2	10:DERX4	-	10:DERX4	10:DERX4
307	146	+ve	2.651	3.083	0.020	0.000	0.000	0.000
			4:EQZ	14:COM2	4:EQZ	-	-	-
			-2.092	0.000	-0.015	0.000	0.000	0.000
			12:DERZ4	-	12:DERZ4	-	-	-
	160	-ve	2.651	0.074	0.020	0.000	0.059	0.505
			4:EQZ	3:EQX	4:EQZ	-	4:EQZ	5:DERX1
			-2.092	-3.382	-0.015	0.000	-0.045	-0.074
			12:DERZ4	14:COM2	12:DERZ4	-	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
308	89	+ve	21.530	38.564	1.058	8.975	1.395	60.959
			5:DERX1	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-13.910	0.000	-0.784	-13.623	-1.202	-19.395
			10:DERX4	-	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	90	-ve	21.530	31.292	1.058	8.975	1.765	6.015
			5:DERX1	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-13.910	-2.658	-0.784	-13.623	-1.286	-42.836
			10:DERX4	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2
317	66	+ve	0.000	12.685	0.073	1.669	0.229	26.601
			-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-0.746	-0.059	-2.393	-0.182	-15.054
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	16	-ve	0.000	6.855	0.073	1.669	0.211	21.638
			-	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-13.093	-0.059	-2.393	-0.171	-8.585
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
318	106	+ve	0.046	6.583	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	-	-	-	-
			-0.037	0.000	0.000	0.000	0.000	0.000
			12:DERZ4	-	-	-	-	-
	104	-ve	0.046	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	-	-	-	-
			-0.037	-6.583	0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	-	-	-	-
319	110	+ve	0.055	6.583	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	-	-	-	-
			-0.044	0.000	0.000	0.000	0.000	0.000
			12:DERZ4	-	-	-	-	-
	108	-ve	0.055	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	-	-	-	-
			-0.044	-6.583	0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	-	-	-	-
324	64	+ve	0.000	15.374	0.076	3.097	0.239	33.474
			-	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-1.636	-0.062	-2.448	-0.190	-17.627
			-	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	18	-ve	0.000	8.797	0.076	3.097	0.222	23.386
			-	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-13.511	-0.062	-2.448	-0.179	-16.215
			-	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
327	53	+ve	40.004	15.567	0.973	7.733	5.275	28.073
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	5:DERX1	7:DERZ1
			-34.001	0.000	-1.684	-3.724	-0.858	-11.408
			8:DERZ2	-	8:DERZ2	10:DERX4	10:DERX4	12:DERZ4
	205	-ve	40.004	7.058	0.973	7.733	1.699	1.282
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-34.001	-3.143	-1.684	-3.724	-1.912	-14.765
			8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4	8:DERZ2	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
329	153	+ve	35.264	3.147	14.335	0.297	20.648	10.662
			7:DERZ1	5:DERX1	7:DERZ1	4:EQZ	4:EQZ	5:DERX1
			0.000	-1.819	-3.230	-0.290	-24.358	-5.887
			-	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	92	-ve	33.609	3.147	14.335	0.297	10.180	3.230
			7:DERZ1	5:DERX1	7:DERZ1	4:EQZ	5:DERX1	5:DERX1
			0.000	-1.819	-3.230	-0.290	0.000	-1.629
			-	10:DERX4	12:DERZ4	8:DERZ2	-	10:DERX4
331	154	+ve	14.017	2.664	3.961	0.280	8.742	8.857
			5:DERX1	3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX
			0.000	-3.587	-2.987	-0.312	-7.315	-9.471
			-	6:DERX2	12:DERZ4	6:DERX2	8:DERZ2	6:DERX2
	54	-ve	12.064	2.664	3.961	0.280	4.927	3.139
			5:DERX1	3:EQX	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			0.000	-3.587	-2.987	-0.312	-3.617	0.000
			-	6:DERX2	12:DERZ4	6:DERX2	12:DERZ4	-
333	154	+ve	19.719	6.889	1.449	2.592	4.159	22.020
			3:EQX	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-19.960	0.000	-1.102	-2.220	-3.695	-7.914
			6:DERX2	-	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	152	-ve	19.719	3.275	1.449	2.592	4.246	1.635
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-19.960	-2.459	-1.102	-2.220	-3.307	-6.319
			6:DERX2	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2
334	152	+ve	16.805	3.275	1.910	2.591	4.246	1.635
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-17.629	-2.459	-1.469	-2.223	-3.307	-6.320
			6:DERX2	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2
	55	-ve	16.805	3.275	1.910	2.591	6.856	21.628
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-17.629	-6.378	-1.469	-2.223	-5.051	-12.353
			6:DERX2	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
335	155	+ve	37.042	8.256	9.236	1.798	15.754	11.558
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-5.485	-6.613	-7.564	-1.697	-12.213	-9.421
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2
	101	-ve	35.848	8.256	9.236	1.798	31.606	25.785
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-6.380	-6.613	-7.564	-1.697	-24.999	-20.855
			12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2
336	156	+ve	2.093	3.107	0.152	0.000	0.431	2.706
			3:EQX	5:DERX1	3:EQX	-	3:EQX	3:EQX
			-1.656	0.000	-0.121	0.000	-0.346	-3.434
			10:DERX4	-	10:DERX4	-	6:DERX2	6:DERX2
	139	-ve	2.093	0.956	0.152	0.000	0.000	0.000
			3:EQX	3:EQX	3:EQX	-	-	-
			-1.656	-4.004	-0.121	0.000	0.000	0.000
			10:DERX4	6:DERX2	10:DERX4	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
337	157	+ve	3.409	2.309	0.013	0.000	0.036	0.672
			3:EQX	5:DERX1	4:EQZ	-	4:EQZ	3:EQX
			-2.756	0.000	-0.010	0.000	-0.030	-2.435
			6:DERX2	-	8:DERZ2	-	12:DERZ4	6:DERX2
	137	-ve	3.409	0.237	0.013	0.000	0.000	0.000
			3:EQX	3:EQX	4:EQZ	-	-	-
			-2.756	-3.877	-0.010	0.000	0.000	0.000
			6:DERX2	14:COM2	8:DERZ2	-	-	-
338	158	+ve	3.470	2.641	0.161	0.000	0.455	1.355
			3:EQX	7:DERZ1	3:EQX	-	3:EQX	4:EQZ
			-2.782	0.000	-0.129	0.000	-0.364	-2.591
			10:DERX4	-	6:DERX2	-	10:DERX4	8:DERZ2
	135	-ve	3.470	0.479	0.161	0.000	0.000	0.000
			3:EQX	4:EQZ	3:EQX	-	-	-
			-2.782	-3.725	-0.129	0.000	0.000	0.000
			10:DERX4	14:COM2	6:DERX2	-	-	-
339	159	+ve	17.852	11.494	1.677	3.699	2.589	6.110
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-13.058	-14.279	-1.378	-8.280	-2.003	-19.954
			10:DERX4	6:DERX2	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2
	44	-ve	17.852	11.494	1.677	3.699	2.169	38.593
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-13.058	-20.107	-1.378	-8.280	-1.751	-26.885
			10:DERX4	6:DERX2	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4
340	160	+ve	2.969	3.926	0.012	0.000	0.034	3.409
			3:EQX	5:DERX1	4:EQZ	-	4:EQZ	3:EQX
			-2.375	0.000	-0.011	0.000	-0.025	-2.545
			10:DERX4	-	8:DERZ2	-	12:DERZ4	10:DERX4
	142	-ve	2.969	1.205	0.012	0.000	0.000	0.000
			3:EQX	3:EQX	4:EQZ	-	-	-
			-2.375	-3.582	-0.011	0.000	0.000	0.000
			10:DERX4	6:DERX2	8:DERZ2	-	-	-
341	161	+ve	17.918	21.716	1.954	5.440	2.358	7.362
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-15.585	-26.289	-1.667	-1.214	-1.809	-15.557
			8:DERZ2	6:DERX2	8:DERZ2	12:DERZ4	12:DERZ4	8:DERZ2
	38	-ve	17.918	21.716	1.954	5.440	3.180	78.614
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-15.585	-33.215	-1.667	-1.214	-2.710	-38.924
			8:DERZ2	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
342	162	+ve	30.075	3.936	0.337	1.569	0.442	9.519
			4:EQZ	7:DERZ1	4:EQZ	14:COM2	4:EQZ	5:DERX1
			-24.663	-0.646	-0.284	0.000	-0.341	0.000
			8:DERZ2	12:DERZ4	8:DERZ2	-	12:DERZ4	-
	41	-ve	30.075	2.186	0.337	1.569	0.512	10.930
			4:EQZ	4:EQZ	4:EQZ	14:COM2	4:EQZ	7:DERZ1
			-24.663	-4.411	-0.284	0.000	-0.430	0.000
			8:DERZ2	8:DERZ2	8:DERZ2	-	8:DERZ2	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
343	162	+ve	1.774	3.620	0.396	1.502	0.336	1.488
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	5:DERX1
			-1.408	-7.623	-0.307	-3.038	-0.284	0.000
			12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	-
	161	-ve	1.774	3.620	0.396	1.502	0.654	21.894
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-1.408	-8.921	-0.307	-3.038	-0.507	0.000
			12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	-
344	161	+ve	2.871	8.634	1.203	1.997	0.948	28.673
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-2.195	-1.133	-0.943	-1.912	-0.783	-3.594
			12:DERZ4	12:DERZ4	10:DERX4	6:DERX2	6:DERX2	12:DERZ4
	160	-ve	2.871	7.856	1.203	1.997	0.859	16.317
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-2.195	-1.717	-0.943	-1.912	-0.669	-1.467
			12:DERZ4	12:DERZ4	10:DERX4	6:DERX2	10:DERX4	12:DERZ4
345	160	+ve	6.674	4.900	0.729	1.205	0.835	16.317
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-5.236	-6.011	-0.594	-1.435	-0.648	-1.467
			12:DERZ4	8:DERZ2	6:DERX2	6:DERX2	10:DERX4	12:DERZ4
	90	-ve	6.674	4.900	0.729	1.205	0.625	17.272
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	14:COM2
			-5.236	-7.049	-0.594	-1.435	-0.500	0.000
			12:DERZ4	8:DERZ2	6:DERX2	6:DERX2	10:DERX4	-
346	90	+ve	5.290	14.249	3.132	1.090	5.038	18.597
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-3.716	0.000	-2.533	-3.330	-4.007	-0.068
			12:DERZ4	-	6:DERX2	6:DERX2	10:DERX4	12:DERZ4
	156	-ve	5.290	13.261	3.132	1.090	0.935	3.087
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-3.716	0.000	-2.533	-3.330	-0.765	-12.475
			12:DERZ4	-	6:DERX2	6:DERX2	6:DERX2	8:DERZ2
347	156	+ve	2.844	8.810	1.488	0.645	0.423	3.087
			5:DERX1	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.469	0.000	-1.190	-1.192	-0.346	-12.475
			10:DERX4	-	10:DERX4	6:DERX2	6:DERX2	8:DERZ2
	157	-ve	2.844	7.772	1.488	0.645	3.320	2.487
			5:DERX1	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.469	0.000	-1.190	-1.192	-2.661	-25.664
			10:DERX4	-	10:DERX4	6:DERX2	6:DERX2	14:COM2
348	157	+ve	2.957	2.786	1.088	1.635	3.292	2.487
			5:DERX1	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-1.582	-4.120	-0.870	0.000	-2.638	-25.664
			10:DERX4	8:DERZ2	10:DERX4	-	6:DERX2	14:COM2
	158	-ve	2.957	2.786	1.088	1.635	1.130	8.039
			5:DERX1	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-1.582	-5.158	-0.870	0.000	-0.905	-23.772
			10:DERX4	8:DERZ2	10:DERX4	-	10:DERX4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
349	158	+ve	7.299	2.389	3.702	3.650	1.583	8.039
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-5.321	-15.583	-2.981	0.000	-1.267	-23.772
			12:DERZ4	14:COM2	6:DERX2	-	10:DERX4	8:DERZ2
	159	-ve	7.299	2.389	3.702	3.650	5.826	20.430
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	7:DERZ1
			-5.321	-16.621	-2.981	0.000	-4.699	-4.561
			12:DERZ4	14:COM2	6:DERX2	-	6:DERX2	12:DERZ4
351	121	+ve	0.268	6.775	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	13:COM1	-	-	-
			-0.217	0.000	-0.000	0.000	0.000	0.000
			8:DERZ2	-	2:LIVE	-	-	-
	122	-ve	0.268	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	13:COM1	-	-	-
			-0.217	-6.775	-0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	2:LIVE	-	-	-
352	11	+ve	0.111	21.026	0.069	2.078	0.236	45.693
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.090	-5.068	-0.055	-1.933	-0.188	-26.744
			12:DERZ4	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	167	-ve	0.111	13.680	0.069	2.078	0.056	17.012
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-0.090	-11.787	-0.055	-1.933	-0.045	-21.405
			12:DERZ4	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	8:DERZ2
353	29	+ve	3.644	24.395	0.358	1.862	0.663	56.832
			3:EQX	5:DERX1	3:EQX	4:EQZ	3:EQX	5:DERX1
			-2.741	-8.301	-0.292	-2.293	-0.529	-37.794
			10:DERX4	10:DERX4	6:DERX2	8:DERZ2	10:DERX4	10:DERX4
	168	-ve	3.644	17.746	0.358	1.862	0.857	26.326
			3:EQX	3:EQX	3:EQX	4:EQZ	3:EQX	4:EQZ
			-2.741	-15.020	-0.292	-2.293	-0.709	-29.221
			10:DERX4	10:DERX4	6:DERX2	8:DERZ2	6:DERX2	8:DERZ2
354	37	+ve	4.026	20.504	0.291	1.276	0.630	41.875
			5:DERX1	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-2.501	-3.771	-0.209	-1.436	-0.597	-24.644
			10:DERX4	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	169	-ve	4.026	11.828	0.291	1.276	0.611	18.095
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-2.501	-11.800	-0.209	-1.436	-0.437	-21.709
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	8:DERZ2
355	167	+ve	0.242	14.594	0.074	4.227	0.130	17.382
			4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-0.192	-9.976	-0.059	-0.121	-0.105	-20.838
			8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4	8:DERZ2
	163	-ve	0.242	14.594	0.074	4.227	0.022	16.252
			4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-0.192	-14.718	-0.059	-0.121	-0.018	-18.846
			8:DERZ2	8:DERZ2	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
356	168	+ve	1.640	19.502	1.254	8.260	1.425	27.726
			3:EQX	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-1.130	-19.383	-0.971	-4.564	-1.183	-30.123
			10:DERX4	8:DERZ2	10:DERX4	12:DERZ4	6:DERX2	8:DERZ2
	164	-ve	1.640	19.502	1.254	8.260	1.020	33.758
			3:EQX	4:EQZ	3:EQX	7:DERZ1	3:EQX	3:EQX
			-1.130	-24.352	-0.971	-4.564	-0.788	-24.663
			10:DERX4	8:DERZ2	10:DERX4	12:DERZ4	10:DERX4	10:DERX4
357	169	+ve	7.717	12.964	1.081	4.736	1.190	19.197
			3:EQX	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-5.643	-12.077	-0.969	-1.969	-0.882	-22.357
			10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	12:DERZ4	8:DERZ2
	165	-ve	7.717	12.964	1.081	4.736	0.931	17.353
			3:EQX	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-5.643	-18.216	-0.969	-1.969	-0.821	-12.616
			10:DERX4	8:DERZ2	8:DERZ2	12:DERZ4	8:DERZ2	10:DERX4
358	170	+ve	0.231	9.224	0.063	3.419	0.032	6.900
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-0.184	-4.665	-0.051	-2.581	-0.025	-9.502
			8:DERZ2	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	17	-ve	0.231	7.919	0.063	3.419	0.240	28.172
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.184	-14.274	-0.051	-2.581	-0.194	-16.897
			8:DERZ2	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
359	195	+ve	2.077	12.373	0.259	3.737	0.636	19.541
			3:EQX	5:DERX1	3:EQX	4:EQZ	3:EQX	3:EQX
			-1.639	-4.384	-0.219	-3.132	-0.491	-14.290
			10:DERX4	10:DERX4	6:DERX2	8:DERZ2	10:DERX4	10:DERX4
	131	-ve	2.077	9.323	0.259	3.737	0.466	20.104
			3:EQX	3:EQX	3:EQX	4:EQZ	3:EQX	3:EQX
			-1.639	-12.637	-0.219	-3.132	-0.398	-14.699
			10:DERX4	6:DERX2	6:DERX2	8:DERZ2	6:DERX2	10:DERX4
360	194	+ve	2.138	12.119	0.184	2.887	0.480	16.160
			3:EQX	5:DERX1	3:EQX	4:EQZ	3:EQX	3:EQX
			-1.479	-3.052	-0.138	-2.384	-0.420	-12.311
			10:DERX4	10:DERX4	10:DERX4	8:DERZ2	6:DERX2	10:DERX4
	141	-ve	2.138	7.496	0.184	2.887	0.302	15.705
			3:EQX	3:EQX	3:EQX	4:EQZ	3:EQX	3:EQX
			-1.479	-12.518	-0.138	-2.384	-0.223	-11.356
			10:DERX4	6:DERX2	10:DERX4	8:DERZ2	10:DERX4	10:DERX4
361	169	+ve	5.260	20.057	0.627	3.610	0.420	8.363
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-4.387	-20.010	-0.499	-3.154	-0.340	-1.302
			8:DERZ2	8:DERZ2	8:DERZ2	6:DERX2	12:DERZ4	12:DERZ4
	194	-ve	5.260	20.057	0.627	3.610	0.526	32.309
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-4.387	-21.689	-0.499	-3.154	-0.418	-14.362
			8:DERZ2	8:DERZ2	8:DERZ2	6:DERX2	8:DERZ2	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
362	168	+ve	4.120	29.260	0.432	4.371	0.282	15.701
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-3.249	-25.627	-0.360	-3.915	-0.220	-6.312
			12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	195	-ve	4.120	29.260	0.432	4.371	0.441	37.457
			4:EQZ	4:EQZ	4:EQZ	3:EQX	3:EQX	7:DERZ1
			-3.249	-27.306	-0.360	-3.915	-0.365	-19.691
			12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2	10:DERX4	12:DERZ4
363	167	+ve	0.123	21.037	0.342	9.222	0.111	8.815
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.098	-23.922	-0.277	-7.719	-0.088	-2.315
			8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
	196	-ve	0.123	21.037	0.342	9.222	0.403	37.808
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.098	-25.601	-0.277	-7.719	-0.326	-11.120
			8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4
364	1	+ve	0.172	7.665	0.006	0.674	0.013	6.046
			4:EQZ	14:COM2	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-0.137	0.000	-0.005	-0.048	-0.011	-1.014
			8:DERZ2	-	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	173	-ve	0.172	0.952	0.006	0.674	0.011	1.105
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-0.137	-4.141	-0.005	-0.048	-0.009	-3.368
			8:DERZ2	14:COM2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2
365	19	+ve	1.212	8.165	0.028	0.472	0.063	8.576
			4:EQZ	14:COM2	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-0.894	0.000	-0.025	-0.127	-0.047	-1.315
			12:DERZ4	-	6:DERX2	12:DERZ4	10:DERX4	10:DERX4
	174	-ve	1.212	1.181	0.028	0.472	0.058	1.087
			4:EQZ	3:EQX	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-0.894	-3.664	-0.025	-0.127	-0.051	-3.764
			12:DERZ4	6:DERX2	6:DERX2	12:DERZ4	6:DERX2	8:DERZ2
366	47	+ve	2.239	6.151	0.018	0.439	0.030	6.060
			4:EQZ	14:COM2	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-1.822	0.000	-0.013	-0.057	-0.029	-0.596
			8:DERZ2	-	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	175	-ve	2.239	0.631	0.018	0.439	0.048	1.479
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-1.822	-2.690	-0.013	-0.057	-0.034	-3.697
			8:DERZ2	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2
367	173	+ve	0.039	1.659	0.011	0.458	0.014	1.317
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-0.031	-2.851	-0.009	-0.022	-0.011	-4.744
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	176	-ve	0.039	1.659	0.011	0.458	0.007	7.018
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-0.031	-7.168	-0.009	-0.022	-0.006	-2.334
			12:DERZ4	14:COM2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
368	174	+ve	1.579	1.489	0.385	0.726	0.384	0.621
			4:EQZ	4:EQZ	3:EQX	7:DERZ1	3:EQX	3:EQX
			-1.182	-1.443	-0.298	-0.539	-0.322	-4.254
			12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	6:DERX2	14:COM2
	177	-ve	1.579	1.489	0.385	0.726	0.366	3.334
			4:EQZ	4:EQZ	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-1.182	-5.539	-0.298	-0.539	-0.282	-2.147
			12:DERZ4	8:DERZ2	10:DERX4	12:DERZ4	10:DERX4	10:DERX4
369	175	+ve	3.250	1.129	0.294	0.469	0.310	0.758
			3:EQX	3:EQX	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-2.652	-1.051	-0.263	-0.322	-0.233	-3.620
			6:DERX2	6:DERX2	6:DERX2	12:DERZ4	10:DERX4	8:DERZ2
	178	-ve	3.250	1.129	0.294	0.469	0.263	1.980
			3:EQX	3:EQX	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-2.652	-4.393	-0.263	-0.322	-0.237	-1.189
			6:DERX2	6:DERX2	6:DERX2	12:DERZ4	6:DERX2	10:DERX4
370	175	+ve	2.010	0.556	0.319	0.795	0.308	0.629
			4:EQZ	3:EQX	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-1.639	-2.530	-0.245	-1.136	-0.268	-0.394
			8:DERZ2	14:COM2	10:DERX4	8:DERZ2	6:DERX2	12:DERZ4
	169	-ve	2.010	0.556	0.319	0.795	0.490	8.120
			4:EQZ	3:EQX	3:EQX	4:EQZ	3:EQX	14:COM2
			-1.639	-3.828	-0.245	-1.136	-0.378	0.000
			8:DERZ2	14:COM2	10:DERX4	8:DERZ2	10:DERX4	-
371	174	+ve	1.533	0.799	0.323	1.442	0.327	0.875
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-1.215	-3.607	-0.268	-1.790	-0.255	-0.628
			12:DERZ4	14:COM2	6:DERX2	8:DERZ2	10:DERX4	8:DERZ2
	168	-ve	1.533	0.799	0.323	1.442	0.481	12.563
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	14:COM2
			-1.215	-6.405	-0.268	-1.790	-0.398	0.000
			12:DERZ4	14:COM2	6:DERX2	8:DERZ2	6:DERX2	-
372	173	+ve	0.051	0.710	0.011	0.410	0.011	0.484
			4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.041	-2.390	-0.008	-1.534	-0.009	-0.293
			12:DERZ4	14:COM2	8:DERZ2	6:DERX2	8:DERZ2	12:DERZ4
	167	-ve	0.051	0.710	0.011	0.410	0.037	9.559
			4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ	14:COM2
			-0.041	-5.188	-0.008	-1.534	-0.029	0.000
			12:DERZ4	14:COM2	8:DERZ2	6:DERX2	8:DERZ2	-
373	179	+ve	0.020	10.877	0.230	6.469	0.280	6.778
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.017	-17.855	-0.186	-0.993	-0.223	-35.250
			8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4	8:DERZ2	8:DERZ2
	103	-ve	0.020	10.877	0.230	6.469	0.089	24.120
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.017	-22.810	-0.186	-0.993	-0.072	-30.484
			8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4	12:DERZ4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
374	180	+ve	3.327	15.968	0.846	5.467	2.187	6.694
			7:DERZ1	4:EQZ	4:EQZ	5:DERX1	3:EQX	4:EQZ
			-0.087	-19.143	-0.747	-2.996	-1.638	-23.066
			12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4	10:DERX4	8:DERZ2
	119	-ve	3.327	15.968	0.846	5.467	1.508	32.042
			7:DERZ1	4:EQZ	4:EQZ	5:DERX1	3:EQX	4:EQZ
			-0.087	-21.213	-0.747	-2.996	-1.202	-31.480
			12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4	10:DERX4	8:DERZ2
375	181	+ve	19.849	13.802	3.461	8.280	5.668	5.694
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-18.489	-15.204	-3.276	-2.472	-4.236	-18.262
			8:DERZ2	8:DERZ2	6:DERX2	10:DERX4	10:DERX4	8:DERZ2
	136	-ve	19.849	13.802	3.461	8.280	0.714	27.578
			4:EQZ	4:EQZ	3:EQX	5:DERX1	4:EQZ	4:EQZ
			-18.489	-17.274	-3.276	-2.472	-0.862	-27.440
			8:DERZ2	8:DERZ2	6:DERX2	10:DERX4	8:DERZ2	8:DERZ2
376	182	+ve	0.341	6.376	0.017	2.263	0.035	3.248
			4:EQZ	5:DERX1	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-0.271	0.000	-0.014	-0.115	-0.028	-11.229
			8:DERZ2	-	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	179	-ve	0.341	2.181	0.017	2.263	0.037	6.024
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-0.271	-7.207	-0.014	-0.115	-0.029	-11.684
			8:DERZ2	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	6:DERX2
377	183	+ve	3.987	4.208	0.098	1.595	0.389	6.517
			3:EQX	5:DERX1	3:EQX	7:DERZ1	3:EQX	3:EQX
			-2.975	-2.555	-0.084	-0.952	-0.304	-12.211
			10:DERX4	10:DERX4	6:DERX2	12:DERZ4	10:DERX4	6:DERX2
	180	-ve	3.987	3.792	0.098	1.595	0.107	10.510
			3:EQX	3:EQX	3:EQX	7:DERZ1	4:EQZ	5:DERX1
			-2.975	-8.831	-0.084	-0.952	-0.096	-5.964
			10:DERX4	6:DERX2	6:DERX2	12:DERZ4	8:DERZ2	10:DERX4
378	184	+ve	2.816	3.905	0.206	1.389	0.247	5.556
			5:DERX1	5:DERX1	5:DERX1	7:DERZ1	3:EQX	3:EQX
			-1.830	-2.655	-0.132	-0.874	-0.266	-14.325
			10:DERX4	10:DERX4	10:DERX4	12:DERZ4	6:DERX2	6:DERX2
	181	-ve	2.816	3.488	0.206	1.389	0.651	13.035
			5:DERX1	3:EQX	5:DERX1	7:DERZ1	3:EQX	5:DERX1
			-1.830	-11.198	-0.132	-0.874	-0.446	-4.810
			10:DERX4	6:DERX2	10:DERX4	12:DERZ4	10:DERX4	10:DERX4
379	170	+ve	0.077	11.763	0.076	7.409	0.084	8.112
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-0.061	-5.131	-0.061	-0.789	-0.068	-5.435
			8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4
	191	-ve	0.077	11.092	0.076	7.409	0.053	2.252
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-0.061	-5.634	-0.061	-0.789	-0.043	-2.286
			8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
380	192	+ve	8.087	13.044	13.207	6.773	4.268	1.867
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-6.287	-12.805	-10.152	-4.467	-3.633	-3.564
			10:DERX4	8:DERZ2	10:DERX4	12:DERZ4	6:DERX2	8:DERZ2
	237	-ve	8.087	13.044	13.207	6.773	4.977	10.907
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-6.287	-13.588	-10.152	-4.467	-3.844	-8.946
			10:DERX4	8:DERZ2	10:DERX4	12:DERZ4	10:DERX4	12:DERZ4
381	172	+ve	3.420	11.737	9.336	6.228	2.482	7.860
			3:EQX	7:DERZ1	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-2.809	-6.611	-8.010	-3.438	-1.885	-6.938
			10:DERX4	12:DERZ4	6:DERX2	12:DERZ4	10:DERX4	12:DERZ4
	193	-ve	3.420	11.066	9.336	6.228	3.122	1.667
			3:EQX	7:DERZ1	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-2.809	-7.115	-8.010	-3.438	-2.659	-3.409
			10:DERX4	12:DERZ4	6:DERX2	12:DERZ4	6:DERX2	8:DERZ2
382	182	+ve	0.182	2.357	0.031	1.499	0.043	3.581
			4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-0.144	-6.841	-0.025	-1.137	-0.034	-11.313
			8:DERZ2	8:DERZ2	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	185	-ve	0.182	2.357	0.031	1.499	0.019	9.843
			4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-0.144	-11.472	-0.025	-1.137	-0.016	-0.453
			8:DERZ2	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	12:DERZ4
383	183	+ve	1.065	3.037	0.145	2.806	0.132	6.836
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	3:EQX
			-0.724	-4.465	-0.107	-2.032	-0.118	-11.715
			12:DERZ4	8:DERZ2	10:DERX4	12:DERZ4	6:DERX2	6:DERX2
	186	-ve	1.065	3.037	0.145	2.806	0.152	4.186
			4:EQZ	4:EQZ	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-0.724	-7.664	-0.107	-2.032	-0.114	-2.917
			12:DERZ4	8:DERZ2	10:DERX4	12:DERZ4	10:DERX4	12:DERZ4
384	184	+ve	1.263	2.428	0.100	2.411	0.078	5.388
			3:EQX	4:EQZ	3:EQX	7:DERZ1	3:EQX	3:EQX
			-0.902	-4.285	-0.075	-1.454	-0.072	-12.735
			10:DERX4	8:DERZ2	10:DERX4	12:DERZ4	6:DERX2	6:DERX2
	187	-ve	1.263	2.428	0.100	2.411	0.117	3.388
			3:EQX	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-0.902	-8.654	-0.075	-1.454	-0.090	-2.576
			10:DERX4	8:DERZ2	10:DERX4	12:DERZ4	10:DERX4	12:DERZ4
385	178	+ve	3.493	1.129	0.677	1.808	0.733	0.469
			3:EQX	3:EQX	3:EQX	3:EQX	3:EQX	7:DERZ1
			-2.767	-4.394	-0.513	-1.980	-0.645	-0.322
			10:DERX4	6:DERX2	10:DERX4	6:DERX2	6:DERX2	12:DERZ4
	165	-ve	3.493	1.129	0.677	1.808	0.960	12.869
			3:EQX	3:EQX	3:EQX	3:EQX	3:EQX	5:DERX1
			-2.767	-5.691	-0.513	-1.980	-0.727	0.000
			10:DERX4	6:DERX2	10:DERX4	6:DERX2	10:DERX4	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
386	165	+ve	14.166	17.193	0.565	1.813	0.552	37.710
			4:EQZ	7:DERZ1	3:EQX	4:EQZ	4:EQZ	7:DERZ1
			-13.196	-8.329	-0.463	-2.261	-0.458	-24.167
	210	-ve	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2	12:DERZ4
			14.166	15.514	0.565	1.813	0.539	14.356
			4:EQZ	7:DERZ1	3:EQX	4:EQZ	3:EQX	4:EQZ
387	177	+ve	-13.196	-9.587	-0.463	-2.261	-0.464	-10.786
			8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	6:DERX2	12:DERZ4
			2.202	1.489	0.522	3.104	0.533	0.726
	164	-ve	4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-1.675	-5.539	-0.425	-3.334	-0.423	-0.539
			12:DERZ4	8:DERZ2	6:DERX2	6:DERX2	10:DERX4	12:DERZ4
388	164	+ve	2.202	1.489	0.522	3.104	0.772	18.068
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-1.675	-8.336	-0.425	-3.334	-0.632	0.000
	213	-ve	12:DERZ4	8:DERZ2	6:DERX2	6:DERX2	6:DERX2	-
			4.982	24.186	0.256	3.146	0.270	57.621
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
389	176	+ve	-4.712	-15.562	-0.254	-3.394	-0.193	-41.406
			8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	12:DERZ4
			4.982	23.585	0.256	3.146	0.171	22.288
	163	-ve	4:EQZ	4:EQZ	4:EQZ	3:EQX	3:EQX	4:EQZ
			-4.712	-16.821	-0.254	-3.394	-0.175	-17.154
			8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2	6:DERX2	12:DERZ4
390	176	+ve	0.316	1.659	0.269	4.552	0.349	0.458
			4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.252	-7.168	-0.217	-7.018	-0.278	-0.022
	163	-ve	8:DERZ2	14:COM2	12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4
			0.316	1.659	0.269	4.552	0.378	35.827
			4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ	14:COM2
391	163	+ve	-0.252	-21.184	-0.217	-7.018	-0.306	0.000
			8:DERZ2	14:COM2	12:DERZ4	6:DERX2	12:DERZ4	-
			0.001	31.623	0.186	10.829	0.386	69.885
	215	-ve	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-0.001	-2.481	-0.150	-1.654	-0.307	-27.860
			8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2	12:DERZ4
392	188	+ve	0.001	23.988	0.186	10.829	0.118	28.261
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-0.001	-7.240	-0.150	-1.654	-0.094	-20.574
	259	-ve	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2	12:DERZ4
			0.002	22.152	0.136	9.271	0.180	14.978
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	4:EQZ
393	188	+ve	-0.002	-24.404	-0.111	0.000	-0.146	-12.080
			12:DERZ4	8:DERZ2	12:DERZ4	-	12:DERZ4	12:DERZ4
			0.002	22.152	0.136	9.271	0.419	64.119
	259	-ve	4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			-0.002	-33.567	-0.111	0.000	-0.339	-30.242
			12:DERZ4	8:DERZ2	12:DERZ4	-	12:DERZ4	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
392	189	+ve	6.337	24.240	0.332	2.788	0.183	17.463
			4:EQZ	4:EQZ	5:DERX1	3:EQX	3:EQX	4:EQZ
			-5.663	-21.136	-0.022	-1.879	-0.299	-16.450
			8:DERZ2	8:DERZ2	10:DERX4	10:DERX4	6:DERX2	8:DERZ2
	258	-ve	6.337	24.240	0.332	2.788	0.300	61.087
			4:EQZ	4:EQZ	5:DERX1	3:EQX	5:DERX1	4:EQZ
			-5.663	-23.150	-0.022	-1.879	-0.020	-46.397
			8:DERZ2	8:DERZ2	10:DERX4	10:DERX4	10:DERX4	8:DERZ2
393	190	+ve	6.818	17.933	0.540	2.328	0.450	13.288
			3:EQX	4:EQZ	5:DERX1	5:DERX1	3:EQX	4:EQZ
			-7.020	-17.429	-0.350	-1.492	-0.470	-12.363
			6:DERX2	8:DERZ2	10:DERX4	10:DERX4	6:DERX2	8:DERZ2
	260	-ve	6.818	17.933	0.540	2.328	0.501	45.539
			3:EQX	4:EQZ	5:DERX1	5:DERX1	5:DERX1	4:EQZ
			-7.020	-19.443	-0.350	-1.492	-0.330	-33.117
			6:DERX2	8:DERZ2	10:DERX4	10:DERX4	10:DERX4	12:DERZ4
394	191	+ve	0.079	4.728	0.043	3.242	0.050	2.220
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.063	-2.208	-0.034	0.000	-0.040	-2.062
			8:DERZ2	12:DERZ4	8:DERZ2	-	12:DERZ4	12:DERZ4
	214	-ve	0.079	4.028	0.043	3.242	0.011	3.348
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	3:EQX
			-0.063	-3.301	-0.034	0.000	-0.008	-3.902
			8:DERZ2	12:DERZ4	8:DERZ2	-	8:DERZ2	6:DERX2
395	192	+ve	4.063	7.601	0.351	2.090	0.224	1.692
			3:EQX	3:EQX	5:DERX1	5:DERX1	3:EQX	4:EQZ
			-3.306	-5.708	-0.053	0.000	-0.324	-3.256
			10:DERX4	10:DERX4	10:DERX4	-	6:DERX2	8:DERZ2
	265	-ve	4.063	7.601	0.351	2.090	0.313	13.092
			3:EQX	3:EQX	5:DERX1	5:DERX1	5:DERX1	3:EQX
			-3.306	-7.695	-0.053	0.000	-0.039	-11.283
			10:DERX4	6:DERX2	10:DERX4	-	10:DERX4	6:DERX2
396	193	+ve	2.005	5.818	0.582	2.026	0.440	1.576
			4:EQZ	3:EQX	5:DERX1	5:DERX1	3:EQX	4:EQZ
			-1.781	-4.279	-0.359	0.000	-0.483	-3.146
			8:DERZ2	10:DERX4	10:DERX4	-	6:DERX2	8:DERZ2
	267	-ve	2.005	5.818	0.582	2.026	0.567	10.126
			4:EQZ	3:EQX	5:DERX1	5:DERX1	5:DERX1	3:EQX
			-1.781	-6.245	-0.359	0.000	-0.365	-8.935
			8:DERZ2	6:DERX2	10:DERX4	-	10:DERX4	6:DERX2
397	191	+ve	0.061	6.377	0.003	0.058	0.003	4.370
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.049	-3.441	-0.002	-0.321	-0.003	-4.752
			8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	8:DERZ2
	188	-ve	0.061	5.553	0.003	0.058	0.002	6.479
			4:EQZ	4:EQZ	4:EQZ	3:EQX	4:EQZ	4:EQZ
			-0.049	-6.549	-0.002	-0.321	-0.001	-6.272
			8:DERZ2	8:DERZ2	8:DERZ2	6:DERX2	8:DERZ2	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
398	192	+ve	2.912	7.036	0.035	0.223	0.041	6.872
			3:EQX	7:DERZ1	3:EQX	4:EQZ	3:EQX	4:EQZ
			-2.242	-4.001	-0.031	-0.347	-0.031	-5.489
			10:DERX4	12:DERZ4	6:DERX2	8:DERZ2	10:DERX4	12:DERZ4
	189	-ve	2.912	6.333	0.035	0.223	0.027	5.501
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-2.242	-7.137	-0.031	-0.347	-0.024	-4.142
			10:DERX4	8:DERZ2	6:DERX2	8:DERZ2	6:DERX2	12:DERZ4
399	193	+ve	2.016	6.382	0.041	0.124	0.044	5.793
			3:EQX	7:DERZ1	3:EQX	4:EQZ	3:EQX	4:EQZ
			-1.720	-3.229	-0.035	-0.290	-0.034	-4.851
			6:DERX2	12:DERZ4	6:DERX2	8:DERZ2	10:DERX4	8:DERZ2
	190	-ve	2.016	5.215	0.041	0.124	0.036	4.400
			3:EQX	4:EQZ	3:EQX	4:EQZ	3:EQX	4:EQZ
			-1.720	-7.173	-0.035	-0.290	-0.032	-3.206
			6:DERX2	8:DERZ2	6:DERX2	8:DERZ2	6:DERX2	12:DERZ4
400	194	+ve	1.767	18.946	1.256	2.728	1.158	40.458
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-1.273	-4.516	-1.001	-1.912	-0.942	-17.332
			12:DERZ4	12:DERZ4	6:DERX2	10:DERX4	6:DERX2	12:DERZ4
	241	-ve	1.767	16.820	1.256	2.728	1.229	8.363
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.273	-6.110	-1.001	-1.912	-0.991	-7.270
			12:DERZ4	12:DERZ4	6:DERX2	10:DERX4	6:DERX2	12:DERZ4
402	141	+ve	7.603	39.559	2.406	7.745	2.298	7.939
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-7.445	-31.526	-1.930	-5.680	-1.858	-7.320
			8:DERZ2	12:DERZ4	6:DERX2	10:DERX4	6:DERX2	8:DERZ2
	242	-ve	7.603	39.559	2.406	7.745	2.275	67.243
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-7.445	-33.547	-1.930	-5.680	-1.850	-53.486
			8:DERZ2	8:DERZ2	6:DERX2	10:DERX4	6:DERX2	8:DERZ2
403	90	+ve	16.501	17.092	1.456	9.418	2.165	3.523
			3:EQX	3:EQX	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-12.069	-22.900	-1.182	-1.898	-1.709	-23.477
			10:DERX4	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	8:DERZ2
	49	-ve	16.501	17.092	1.456	9.418	1.956	55.200
			3:EQX	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-12.069	-29.826	-1.182	-1.898	-1.588	-30.689
			10:DERX4	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
404	195	+ve	69.402	11.112	22.775	0.663	39.117	19.948
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-9.107	-17.354	-0.552	-33.562	-16.263
			-	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	6:DERX2
	194	-ve	67.846	11.112	22.775	0.663	42.976	20.058
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-9.107	-17.354	-0.552	-32.696	-15.822
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
405	196	+ve	0.016	18.137	0.174	6.913	0.293	39.129
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	7:DERZ1
			-0.013	-3.029	-0.140	-5.539	-0.233	-10.567
			8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4	8:DERZ2	12:DERZ4
	170	-ve	0.016	15.899	0.174	6.913	0.055	5.884
			4:EQZ	7:DERZ1	4:EQZ	3:EQX	4:EQZ	5:DERX1
			-0.013	-4.707	-0.140	-5.539	-0.044	-3.622
			8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4	12:DERZ4	10:DERX4
406	196	+ve	97.393	9.688	26.910	0.695	53.156	16.134
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-7.958	-21.055	-0.562	-43.649	-13.241
			-	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	195	-ve	95.836	9.688	26.910	0.695	43.749	18.742
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-7.958	-21.055	-0.562	-34.046	-14.788
			-	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
407	258	+ve	75.596	8.133	19.882	0.654	33.290	14.494
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-8.654	-14.509	-0.544	-31.306	-15.243
			-	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	6:DERX2
	260	-ve	74.039	8.133	19.882	0.654	38.555	15.916
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			0.000	-8.654	-14.509	-0.544	-28.016	-9.599
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
408	259	+ve	118.731	10.208	29.694	0.736	63.020	19.110
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-6.239	-10.952	-21.782	-0.598	-58.741	-20.767
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	258	-ve	117.175	10.208	29.694	0.736	43.912	18.664
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-7.406	-10.952	-21.782	-0.598	-32.285	-11.248
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
412	165	+ve	39.861	11.039	20.382	0.644	41.432	20.416
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-11.462	-9.911	-15.401	-0.533	-36.841	-18.368
			12:DERZ4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	6:DERX2
	164	-ve	41.418	11.039	20.382	0.644	32.025	19.326
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-10.295	-9.911	-15.401	-0.533	-24.002	-14.510
			12:DERZ4	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
413	164	+ve	95.618	11.849	26.519	0.722	38.687	20.752
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-31.252	-10.927	-19.743	-0.584	-35.596	-19.000
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	163	-ve	97.175	11.849	26.519	0.722	56.860	21.904
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-30.084	-10.927	-19.743	-0.584	-42.470	-16.011
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
414	154	+ve	1.062	7.099	0.748	0.847	0.886	20.625
			3:EQX	5:DERX1	4:EQZ	3:EQX	4:EQZ	5:DERX1
			-1.858	-2.762	-0.595	-0.838	-0.731	-11.464
			6:DERX2	10:DERX4	12:DERZ4	6:DERX2	8:DERZ2	10:DERX4
	229	-ve	1.062	5.705	0.748	0.847	0.705	7.113
			3:EQX	3:EQX	4:EQZ	3:EQX	4:EQZ	5:DERX1
			-1.858	-3.865	-0.595	-0.838	-0.556	-4.435
			6:DERX2	10:DERX4	12:DERZ4	6:DERX2	12:DERZ4	10:DERX4
418	205	+ve	30.550	4.739	0.214	1.147	0.584	2.044
			4:EQZ	4:EQZ	7:DERZ1	3:EQX	4:EQZ	4:EQZ
			-26.027	-6.041	-0.141	-1.090	-0.595	-15.018
			8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2
	153	-ve	30.550	4.739	0.214	1.147	0.366	32.825
			4:EQZ	4:EQZ	7:DERZ1	3:EQX	7:DERZ1	7:DERZ1
			-26.027	-16.206	-0.141	-1.090	-0.254	-3.285
			8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4
419	205	+ve	5.193	5.960	0.225	0.849	0.248	8.771
			7:DERZ1	5:DERX1	7:DERZ1	7:DERZ1	4:EQZ	5:DERX1
			-3.420	0.000	-0.134	-0.487	-0.283	-4.471
			12:DERZ4	-	12:DERZ4	12:DERZ4	8:DERZ2	10:DERX4
	230	-ve	5.193	4.857	0.225	0.849	0.240	4.134
			7:DERZ1	5:DERX1	7:DERZ1	7:DERZ1	4:EQZ	3:EQX
			-3.420	0.000	-0.134	-0.487	-0.172	-9.304
			12:DERZ4	-	12:DERZ4	12:DERZ4	12:DERZ4	6:DERX2
422	200	+ve	1.363	2.766	0.067	1.459	0.047	2.073
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-1.179	0.000	-0.051	-1.436	-0.038	-1.125
			8:DERZ2	-	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4
	211	-ve	1.363	1.129	0.067	1.459	0.069	2.960
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-1.179	-2.326	-0.051	-1.436	-0.052	-2.165
			8:DERZ2	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4
423	206	+ve	1.553	1.177	0.144	2.867	0.131	1.606
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	7:DERZ1	4:EQZ
			-1.133	-4.652	-0.154	-1.806	-0.072	-1.836
			12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4	12:DERZ4	8:DERZ2
	261	-ve	1.553	1.177	0.144	2.867	0.161	12.802
			4:EQZ	3:EQX	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-1.133	-8.815	-0.154	-1.806	-0.165	0.000
			12:DERZ4	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	-
426	260	+ve	34.529	6.664	14.867	0.671	22.508	11.528
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-6.887	-11.500	-0.619	-20.697	-12.449
			-	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	6:DERX2
	261	-ve	32.951	6.664	14.867	0.671	32.025	12.798
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-6.887	-11.500	-0.619	-25.321	-8.718
			-	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
427	194	+ve	42.643	8.361	15.903	0.677	25.080	14.929
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-6.451	-12.463	-0.624	-20.681	-11.750
			-	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	10:DERX4
	209	-ve	41.064	8.361	15.903	0.677	33.129	15.592
			7:DERZ1	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			0.000	-6.451	-12.463	-0.624	-26.173	-13.560
			-	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2
428	153	+ve	4.707	7.083	0.168	0.967	0.211	17.246
			3:EQX	5:DERX1	4:EQZ	3:EQX	4:EQZ	3:EQX
			-3.314	-3.093	-0.128	-0.678	-0.184	-13.346
			10:DERX4	10:DERX4	12:DERZ4	10:DERX4	8:DERZ2	10:DERX4
	231	-ve	4.707	5.865	0.168	0.967	0.185	3.860
			3:EQX	5:DERX1	4:EQZ	3:EQX	4:EQZ	3:EQX
			-3.314	-4.007	-0.128	-0.678	-0.141	-6.426
			10:DERX4	10:DERX4	12:DERZ4	10:DERX4	12:DERZ4	6:DERX2
429	210	+ve	7.409	13.011	0.129	3.398	0.227	19.760
			3:EQX	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-7.269	-8.322	-0.131	-1.694	-0.160	-14.928
			6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4
	190	-ve	7.409	12.728	0.129	3.398	0.135	13.410
			3:EQX	4:EQZ	4:EQZ	7:DERZ1	3:EQX	4:EQZ
			-7.269	-10.504	-0.131	-1.694	-0.142	-12.269
			6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2	8:DERZ2
430	194	+ve	6.266	10.773	0.448	5.453	0.359	12.261
			3:EQX	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-4.854	-3.380	-0.427	-4.181	-0.257	-8.793
			10:DERX4	10:DERX4	8:DERZ2	12:DERZ4	12:DERZ4	10:DERX4
	210	-ve	6.266	7.313	0.448	5.453	0.523	2.022
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-4.854	-6.729	-0.427	-4.181	-0.494	-3.547
			10:DERX4	6:DERX2	8:DERZ2	12:DERZ4	8:DERZ2	6:DERX2
432	209	+ve	2.284	9.821	0.123	2.042	0.123	15.304
			3:EQX	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-1.800	0.000	-0.089	-1.981	-0.119	-0.134
			10:DERX4	-	12:DERZ4	8:DERZ2	8:DERZ2	12:DERZ4
	211	-ve	2.284	8.809	0.123	2.042	0.117	1.445
			3:EQX	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-1.800	-0.461	-0.089	-1.981	-0.085	-2.880
			10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	12:DERZ4	8:DERZ2
434	212	+ve	0.501	4.115	0.081	2.073	0.062	7.282
			4:EQZ	5:DERX1	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-0.515	0.000	-0.061	-1.125	-0.057	0.000
			8:DERZ2	-	10:DERX4	12:DERZ4	6:DERX2	-
	200	-ve	0.501	2.766	0.081	2.073	0.119	1.459
			4:EQZ	5:DERX1	3:EQX	7:DERZ1	4:EQZ	4:EQZ
			-0.515	0.000	-0.061	-1.125	-0.091	-0.997
			8:DERZ2	-	10:DERX4	12:DERZ4	12:DERZ4	12:DERZ4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
435	212	+ve	2.761	6.109	0.229	1.270	0.159	2.389
			4:EQZ	3:EQX	3:EQX	5:DERX1	3:EQX	4:EQZ
			-2.230	-10.387	-0.189	-0.759	-0.123	-3.691
			8:DERZ2	6:DERX2	6:DERX2	10:DERX4	10:DERX4	8:DERZ2
	209	-ve	2.761	6.109	0.229	1.270	0.185	14.890
			4:EQZ	3:EQX	3:EQX	5:DERX1	3:EQX	5:DERX1
			-2.230	-13.674	-0.189	-0.759	-0.148	-0.149
			8:DERZ2	6:DERX2	6:DERX2	10:DERX4	6:DERX2	10:DERX4
436	213	+ve	6.666	17.916	0.136	4.038	0.360	28.908
			3:EQX	4:EQZ	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-5.888	-12.362	-0.109	-2.564	-0.295	-22.221
			6:DERX2	12:DERZ4	6:DERX2	12:DERZ4	6:DERX2	12:DERZ4
	189	-ve	6.666	17.916	0.136	4.038	0.021	17.683
			3:EQX	4:EQZ	3:EQX	7:DERZ1	4:EQZ	4:EQZ
			-5.888	-14.544	-0.109	-2.564	-0.025	-16.458
			6:DERX2	12:DERZ4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2
437	195	+ve	2.407	10.449	0.556	6.651	0.387	11.671
			4:EQZ	5:DERX1	3:EQX	4:EQZ	3:EQX	3:EQX
			-2.150	-3.467	-0.425	-5.091	-0.343	-7.806
			8:DERZ2	10:DERX4	10:DERX4	12:DERZ4	6:DERX2	10:DERX4
	213	-ve	2.407	7.777	0.556	6.651	0.699	3.498
			4:EQZ	3:EQX	3:EQX	4:EQZ	3:EQX	3:EQX
			-2.150	-6.625	-0.425	-5.091	-0.540	-4.539
			8:DERZ2	6:DERX2	10:DERX4	12:DERZ4	10:DERX4	6:DERX2
439	196	+ve	0.071	4.965	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-0.057	0.000	-0.000	0.000	0.000	0.000
			12:DERZ4	-	13:COM1	-	-	-
	115	-ve	0.071	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-0.057	-4.965	-0.000	0.000	0.000	0.000
			12:DERZ4	14:COM2	13:COM1	-	-	-
440	214	+ve	0.079	4.028	0.043	3.242	0.011	3.348
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	3:EQX
			-0.063	-3.301	-0.034	0.000	-0.008	-3.902
			8:DERZ2	12:DERZ4	8:DERZ2	-	8:DERZ2	6:DERX2
	263	-ve	0.079	4.028	0.043	3.242	0.029	5.300
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	3:EQX
			-0.063	-3.730	-0.034	0.000	-0.023	-5.349
			8:DERZ2	8:DERZ2	8:DERZ2	-	8:DERZ2	6:DERX2
441	277	+ve	0.001	0.000	0.611	0.000	0.000	0.000
			4:EQZ	2:LIVE	4:EQZ	-	14:COM2	14:COM2
			-0.001	-0.000	-0.489	-0.000	-0.000	0.000
			8:DERZ2	13:COM1	8:DERZ2	14:COM2	13:COM1	-
	276	-ve	0.001	0.000	0.611	0.000	2.598	23.833
			4:EQZ	-	4:EQZ	-	4:EQZ	14:COM2
			-0.001	-11.216	-0.489	-0.000	-2.078	0.000
			8:DERZ2	14:COM2	8:DERZ2	14:COM2	8:DERZ2	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
442	215	+ve	0.119	2.278	0.000	0.000	0.000	0.000
			4:EQZ	14:COM2	2:LIVE	-	-	-
			-0.095	0.000	-0.000	0.000	0.000	0.000
			8:DERZ2	-	13:COM1	-	-	-
	196	-ve	0.119	0.000	0.000	0.000	0.000	0.000
			4:EQZ	-	2:LIVE	-	-	-
			-0.095	-2.278	-0.000	0.000	0.000	0.000
			8:DERZ2	14:COM2	13:COM1	-	-	-
444	215	+ve	0.001	21.967	0.114	10.829	0.118	28.261
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-0.001	-8.433	-0.093	-1.654	-0.094	-20.574
			8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	8:DERZ2	12:DERZ4
	188	-ve	0.001	16.636	0.114	10.829	0.182	15.023
			4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-0.001	-17.886	-0.093	-1.654	-0.147	-11.936
			8:DERZ2	8:DERZ2	12:DERZ4	12:DERZ4	12:DERZ4	12:DERZ4
446	259	+ve	0.076	11.936	0.046	2.242	0.052	15.995
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.060	-0.458	-0.037	-3.046	-0.041	-5.672
			8:DERZ2	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	263	-ve	0.076	7.305	0.046	2.242	0.039	2.041
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-0.060	-3.288	-0.037	-3.046	-0.032	-4.532
			8:DERZ2	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	8:DERZ2
468	228	+ve	0.464	1.177	0.064	1.836	0.064	1.569
			7:DERZ1	3:EQX	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-0.289	-3.640	-0.050	-0.945	-0.058	-6.858
			12:DERZ4	6:DERX2	10:DERX4	12:DERZ4	6:DERX2	8:DERZ2
	206	-ve	0.464	1.177	0.064	1.836	0.061	2.867
			7:DERZ1	3:EQX	3:EQX	7:DERZ1	3:EQX	7:DERZ1
			-0.289	-4.652	-0.050	-0.945	-0.049	-1.806
			12:DERZ4	6:DERX2	10:DERX4	12:DERZ4	6:DERX2	12:DERZ4
469	209	+ve	0.529	6.320	0.004	0.215	0.006	8.441
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			-0.442	0.000	-0.003	0.000	-0.006	-1.151
			8:DERZ2	-	12:DERZ4	-	8:DERZ2	12:DERZ4
	278	-ve	0.529	1.946	0.004	0.215	0.008	2.834
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			-0.442	-4.465	-0.003	0.000	-0.006	-1.075
			8:DERZ2	8:DERZ2	12:DERZ4	-	12:DERZ4	12:DERZ4
470	229	+ve	1.386	4.984	0.077	0.667	0.099	7.085
			3:EQX	3:EQX	7:DERZ1	3:EQX	4:EQZ	5:DERX1
			-1.570	-4.804	-0.047	-1.730	-0.101	-4.382
			6:DERX2	6:DERX2	12:DERZ4	6:DERX2	8:DERZ2	10:DERX4
	212	-ve	1.386	4.984	0.077	0.667	0.075	7.941
			3:EQX	3:EQX	7:DERZ1	3:EQX	5:DERX1	5:DERX1
			-1.570	-6.275	-0.047	-1.730	-0.045	0.000
			6:DERX2	6:DERX2	12:DERZ4	6:DERX2	10:DERX4	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
471	230	+ve	1.993	1.740	0.120	1.376	0.149	4.109
			7:DERZ1	3:EQX	7:DERZ1	7:DERZ1	4:EQZ	3:EQX
			-1.072	-1.118	-0.078	-0.693	-0.153	-9.313
			12:DERZ4	10:DERX4	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	228	-ve	1.993	1.740	0.120	1.376	0.113	1.736
			7:DERZ1	3:EQX	7:DERZ1	7:DERZ1	5:DERX1	4:EQZ
			-1.072	-2.150	-0.078	-0.693	-0.077	-6.975
			12:DERZ4	6:DERX2	12:DERZ4	12:DERZ4	10:DERX4	8:DERZ2
472	230	+ve	0.718	3.628	0.005	0.090	0.009	0.551
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-0.606	0.000	-0.004	-0.043	-0.009	-0.230
			8:DERZ2	-	12:DERZ4	12:DERZ4	8:DERZ2	12:DERZ4
	279	-ve	0.718	0.576	0.005	0.090	0.010	3.220
			4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-0.606	-4.621	-0.004	-0.043	-0.007	-0.130
			8:DERZ2	14:COM2	12:DERZ4	12:DERZ4	12:DERZ4	12:DERZ4
473	231	+ve	2.154	7.465	0.085	0.577	0.093	4.385
			3:EQX	3:EQX	7:DERZ1	4:EQZ	4:EQZ	3:EQX
			-1.596	-10.479	-0.057	-0.838	-0.096	-6.666
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	6:DERX2
	209	-ve	2.154	7.465	0.085	0.577	0.106	20.742
			3:EQX	3:EQX	7:DERZ1	4:EQZ	7:DERZ1	7:DERZ1
			-1.596	-11.697	-0.057	-0.838	-0.073	-6.068
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4
474	231	+ve	0.469	3.428	0.009	0.144	0.012	3.552
			4:EQZ	5:DERX1	3:EQX	4:EQZ	3:EQX	5:DERX1
			-0.368	0.000	-0.008	-0.104	-0.010	0.000
			12:DERZ4	-	6:DERX2	12:DERZ4	10:DERX4	-
	229	-ve	0.469	0.737	0.009	0.144	0.011	1.779
			4:EQZ	3:EQX	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-0.368	-2.471	-0.008	-0.104	-0.009	-0.090
			12:DERZ4	6:DERX2	6:DERX2	12:DERZ4	6:DERX2	12:DERZ4
485	232	+ve	4.529	11.098	1.779	1.514	3.486	15.190
			3:EQX	3:EQX	4:EQZ	5:DERX1	4:EQZ	3:EQX
			-3.137	-8.599	-1.423	-0.000	-2.792	-26.016
			10:DERX4	10:DERX4	12:DERZ4	2:LIVE	8:DERZ2	6:DERX2
	36	-ve	4.529	11.098	1.779	1.514	3.011	26.179
			3:EQX	3:EQX	4:EQZ	5:DERX1	4:EQZ	5:DERX1
			-3.137	-20.134	-1.423	-0.000	-2.408	-16.409
			10:DERX4	6:DERX2	12:DERZ4	2:LIVE	12:DERZ4	10:DERX4
486	233	+ve	3.622	18.155	3.184	1.288	6.095	38.920
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-2.730	-19.471	-2.542	-3.346	-4.883	-62.406
			12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2
	34	-ve	3.622	18.155	3.184	1.288	5.529	34.963
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-2.730	-33.860	-2.542	-3.346	-4.409	-13.353
			12:DERZ4	6:DERX2	8:DERZ2	8:DERZ2	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
487	234	+ve	0.318	5.351	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	2:LIVE	-	-	-
			-0.255	0.000	-0.000	0.000	0.000	0.000
			10:DERX4	-	13:COM1	-	-	-
	120	-ve	0.318	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	2:LIVE	-	-	-
			-0.255	-5.351	-0.000	0.000	0.000	0.000
			10:DERX4	14:COM2	13:COM1	-	-	-
488	235	+ve	0.170	5.351	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	2:LIVE	-	-	-
			-0.143	0.000	-0.000	0.000	0.000	0.000
			6:DERX2	-	13:COM1	-	-	-
	124	-ve	0.170	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	2:LIVE	-	-	-
			-0.143	-5.351	-0.000	0.000	0.000	0.000
			6:DERX2	14:COM2	13:COM1	-	-	-
489	236	+ve	0.733	5.351	0.000	0.000	0.000	0.000
			3:EQX	14:COM2	2:LIVE	-	-	-
			-0.573	0.000	-0.000	0.000	0.000	0.000
			10:DERX4	-	13:COM1	-	-	-
	128	-ve	0.733	0.000	0.000	0.000	0.000	0.000
			3:EQX	-	2:LIVE	-	-	-
			-0.573	-5.351	-0.000	0.000	0.000	0.000
			10:DERX4	14:COM2	13:COM1	-	-	-
490	233	+ve	4.829	15.496	2.416	0.484	3.958	36.962
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	7:DERZ1
			-3.854	0.000	-1.934	-0.713	-3.170	-7.828
			12:DERZ4	-	10:DERX4	6:DERX2	6:DERX2	12:DERZ4
	234	-ve	4.829	14.112	2.416	0.484	0.877	14.690
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-3.854	0.000	-1.934	-0.713	-0.704	-16.150
			12:DERZ4	-	10:DERX4	6:DERX2	6:DERX2	8:DERZ2
491	234	+ve	2.661	9.133	0.990	0.484	0.877	14.690
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-2.119	-0.214	-0.792	-0.713	-0.704	-16.150
			12:DERZ4	12:DERZ4	10:DERX4	6:DERX2	6:DERX2	8:DERZ2
	235	-ve	2.661	7.749	0.990	0.484	2.850	5.153
			4:EQZ	7:DERZ1	3:EQX	3:EQX	3:EQX	4:EQZ
			-2.119	-1.252	-0.792	-0.713	-2.283	-17.771
			12:DERZ4	12:DERZ4	10:DERX4	6:DERX2	6:DERX2	8:DERZ2
492	235	+ve	0.588	4.769	1.068	0.484	2.850	5.153
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-0.461	-4.861	-0.850	-0.713	-2.283	-17.771
			10:DERX4	8:DERZ2	10:DERX4	6:DERX2	6:DERX2	8:DERZ2
	236	-ve	0.588	4.769	1.068	0.484	0.720	4.390
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-0.461	-6.245	-0.850	-0.713	-0.568	-13.685
			10:DERX4	8:DERZ2	10:DERX4	6:DERX2	10:DERX4	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
493	236	+ve	1.692	4.769	2.111	0.484	0.720	4.390
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.344	-11.224	-1.701	-0.713	-0.568	-13.685
			12:DERZ4	8:DERZ2	6:DERX2	6:DERX2	10:DERX4	8:DERZ2
	232	-ve	1.692	4.769	2.111	0.484	3.299	15.945
			4:EQZ	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-1.344	-12.541	-1.701	-0.713	-2.652	-7.235
			12:DERZ4	8:DERZ2	6:DERX2	6:DERX2	6:DERX2	12:DERZ4
494	237	+ve	1.520	15.128	1.345	3.221	1.309	10.285
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	4:EQZ
			-1.357	-18.811	-1.174	-2.265	-0.972	-8.557
			6:DERX2	8:DERZ2	6:DERX2	10:DERX4	10:DERX4	12:DERZ4
	195	-ve	1.520	15.128	1.345	3.221	1.248	45.649
			3:EQX	4:EQZ	3:EQX	3:EQX	3:EQX	7:DERZ1
			-1.357	-20.937	-1.174	-2.265	-1.068	-22.631
			6:DERX2	8:DERZ2	6:DERX2	10:DERX4	6:DERX2	12:DERZ4
495	238	+ve	5.258	54.404	15.942	28.005	1.397	86.976
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-7.671	-53.218	-12.787	-14.401	-1.466	-68.344
			8:DERZ2	8:DERZ2	10:DERX4	10:DERX4	6:DERX2	8:DERZ2
	35	-ve	5.258	54.404	15.942	28.005	0.465	92.415
			4:EQZ	4:EQZ	3:EQX	5:DERX1	4:EQZ	4:EQZ
			-7.671	-53.348	-12.787	-14.401	-0.694	-71.719
			8:DERZ2	8:DERZ2	10:DERX4	10:DERX4	8:DERZ2	8:DERZ2
496	237	+ve	8.966	7.486	0.067	0.683	0.169	5.432
			3:EQX	5:DERX1	3:EQX	7:DERZ1	3:EQX	3:EQX
			-6.975	-2.073	-0.061	-0.401	-0.123	-5.065
			10:DERX4	10:DERX4	6:DERX2	12:DERZ4	10:DERX4	6:DERX2
	238	-ve	8.966	4.914	0.067	0.683	0.114	19.738
			3:EQX	3:EQX	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-6.975	-11.270	-0.061	-0.401	-0.107	-8.059
			10:DERX4	6:DERX2	6:DERX2	12:DERZ4	6:DERX2	10:DERX4
497	183	+ve	3.932	6.264	0.272	5.220	0.313	1.394
			3:EQX	3:EQX	3:EQX	4:EQZ	5:DERX1	4:EQZ
			-3.206	-4.186	-0.363	-4.927	-0.073	-1.266
			6:DERX2	10:DERX4	6:DERX2	8:DERZ2	10:DERX4	8:DERZ2
	265	-ve	3.932	6.264	0.272	5.220	0.290	11.231
			3:EQX	3:EQX	3:EQX	4:EQZ	3:EQX	3:EQX
			-3.206	-6.277	-0.363	-4.927	-0.377	-9.066
			6:DERX2	6:DERX2	6:DERX2	8:DERZ2	6:DERX2	10:DERX4
498	186	+ve	5.005	3.037	0.328	4.186	0.348	2.806
			3:EQX	4:EQZ	3:EQX	7:DERZ1	5:DERX1	4:EQZ
			-3.875	-7.664	-0.423	-2.917	-0.078	-2.497
			10:DERX4	8:DERZ2	6:DERX2	12:DERZ4	10:DERX4	8:DERZ2
	258	-ve	5.005	3.037	0.328	4.186	0.383	18.554
			3:EQX	4:EQZ	3:EQX	7:DERZ1	3:EQX	7:DERZ1
			-3.875	-9.790	-0.423	-2.917	-0.464	0.000
			10:DERX4	8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
499	265	+ve	1.422	13.817	0.122	6.606	0.129	5.117
			5:DERX1	3:EQX	4:EQZ	4:EQZ	3:EQX	4:EQZ
			-0.858	-13.933	-0.104	-6.328	-0.100	-6.334
			10:DERX4	6:DERX2	8:DERZ2	8:DERZ2	10:DERX4	8:DERZ2
	258	-ve	1.422	13.817	0.122	6.606	0.125	29.625
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.858	-18.565	-0.104	-6.328	-0.107	-16.767
			10:DERX4	6:DERX2	8:DERZ2	8:DERZ2	8:DERZ2	10:DERX4
500	241	+ve	3.432	11.849	9.523	6.228	3.434	8.910
			3:EQX	7:DERZ1	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-2.818	-6.528	-8.160	-3.438	-2.613	-7.592
			10:DERX4	12:DERZ4	6:DERX2	12:DERZ4	10:DERX4	12:DERZ4
	172	-ve	3.432	11.737	9.523	6.228	2.482	7.860
			3:EQX	7:DERZ1	3:EQX	7:DERZ1	3:EQX	4:EQZ
			-2.818	-6.611	-8.160	-3.438	-1.885	-6.938
			10:DERX4	12:DERZ4	6:DERX2	12:DERZ4	10:DERX4	12:DERZ4
501	242	+ve	10.223	41.343	28.068	25.016	0.746	67.803
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-9.851	-42.402	-23.521	-12.374	-1.027	-54.152
			8:DERZ2	8:DERZ2	6:DERX2	10:DERX4	6:DERX2	8:DERZ2
	48	-ve	10.223	41.343	28.068	25.016	3.436	71.935
			4:EQZ	4:EQZ	3:EQX	5:DERX1	3:EQX	4:EQZ
			-9.851	-42.531	-23.521	-12.374	-3.286	-56.518
			8:DERZ2	8:DERZ2	6:DERX2	10:DERX4	6:DERX2	8:DERZ2
502	241	+ve	10.904	6.932	0.052	0.667	0.137	5.061
			3:EQX	5:DERX1	3:EQX	7:DERZ1	3:EQX	3:EQX
			-8.688	-1.544	-0.042	-0.333	-0.110	-5.372
			10:DERX4	10:DERX4	6:DERX2	12:DERZ4	10:DERX4	6:DERX2
	242	-ve	10.904	4.331	0.052	0.667	0.084	17.816
			3:EQX	3:EQX	3:EQX	7:DERZ1	3:EQX	5:DERX1
			-8.688	-10.893	-0.042	-0.333	-0.068	-6.709
			10:DERX4	6:DERX2	6:DERX2	12:DERZ4	6:DERX2	10:DERX4
503	184	+ve	1.526	5.377	0.598	4.211	0.603	1.098
			3:EQX	5:DERX1	3:EQX	4:EQZ	5:DERX1	7:DERZ1
			-1.391	-2.976	-0.626	-4.825	-0.392	-0.657
			6:DERX2	10:DERX4	6:DERX2	8:DERZ2	10:DERX4	12:DERZ4
	267	-ve	1.526	5.187	0.598	4.211	0.554	9.138
			3:EQX	3:EQX	3:EQX	4:EQZ	3:EQX	3:EQX
			-1.391	-5.048	-0.626	-4.825	-0.586	-7.813
			6:DERX2	6:DERX2	6:DERX2	8:DERZ2	6:DERX2	10:DERX4
504	187	+ve	2.990	2.428	0.670	3.388	0.701	2.267
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	5:DERX1	4:EQZ
			-2.016	-8.654	-0.712	-2.576	-0.453	-2.411
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	10:DERX4	8:DERZ2
	260	-ve	2.990	2.428	0.670	3.388	0.601	19.658
			7:DERZ1	4:EQZ	3:EQX	4:EQZ	3:EQX	7:DERZ1
			-2.016	-10.720	-0.712	-2.576	-0.654	0.000
			12:DERZ4	8:DERZ2	6:DERX2	12:DERZ4	6:DERX2	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
505	267	+ve	1.073	10.956	0.081	5.286	0.096	3.947
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-0.624	-11.254	-0.060	-4.979	-0.089	-6.200
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	8:DERZ2
	260	-ve	1.073	10.956	0.081	5.286	0.074	24.996
			5:DERX1	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.624	-17.055	-0.060	-4.979	-0.058	-13.365
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
509	211	+ve	4.269	6.788	0.031	1.765	0.053	4.998
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-3.664	-0.764	-0.023	0.000	-0.051	-4.093
			8:DERZ2	12:DERZ4	12:DERZ4	-	8:DERZ2	8:DERZ2
	261	-ve	4.269	3.884	0.031	1.765	0.088	19.683
			4:EQZ	4:EQZ	4:EQZ	5:DERX1	4:EQZ	7:DERZ1
			-3.664	-11.350	-0.023	0.000	-0.068	-3.309
			8:DERZ2	8:DERZ2	12:DERZ4	-	12:DERZ4	12:DERZ4
518	249	+ve	0.041	0.000	0.048	0.000	0.000	0.000
			3:EQX	-	4:EQZ	13:COM1	13:COM1	13:COM1
			-0.033	-3.380	-0.038	-0.000	-0.000	-0.000
			6:DERX2	14:COM2	8:DERZ2	2:LIVE	2:LIVE	2:LIVE
	33	-ve	0.041	0.000	0.048	0.000	0.021	1.517
			3:EQX	-	4:EQZ	13:COM1	4:EQZ	14:COM2
			-0.033	-3.678	-0.038	-0.000	-0.016	0.000
			6:DERX2	14:COM2	8:DERZ2	2:LIVE	8:DERZ2	-
519	8	+ve	0.044	7.070	0.004	0.000	0.011	6.238
			4:EQZ	14:COM2	4:EQZ	-	4:EQZ	5:DERX1
			-0.036	0.000	-0.003	-0.000	-0.009	0.000
			12:DERZ4	-	12:DERZ4	14:COM2	8:DERZ2	-
	250	-ve	0.044	0.289	0.004	0.000	0.012	0.000
			4:EQZ	3:EQX	4:EQZ	-	4:EQZ	-
			-0.036	-5.015	-0.003	-0.000	-0.009	-0.000
			12:DERZ4	14:COM2	12:DERZ4	14:COM2	12:DERZ4	13:COM1
520	16	+ve	0.039	8.620	0.060	0.000	0.177	11.994
			4:EQZ	14:COM2	4:EQZ	-	4:EQZ	5:DERX1
			-0.031	0.000	-0.049	-0.000	-0.140	0.000
			12:DERZ4	-	12:DERZ4	14:COM2	8:DERZ2	-
	251	-ve	0.039	0.932	0.060	0.000	0.160	0.000
			4:EQZ	3:EQX	4:EQZ	-	4:EQZ	14:COM2
			-0.031	-5.402	-0.049	-0.000	-0.129	0.000
			12:DERZ4	14:COM2	12:DERZ4	14:COM2	12:DERZ4	-
521	12	+ve	0.050	8.780	0.052	0.000	0.152	12.366
			4:EQZ	14:COM2	4:EQZ	2:LIVE	4:EQZ	5:DERX1
			-0.040	0.000	-0.042	-0.000	-0.121	0.000
			8:DERZ2	-	12:DERZ4	13:COM1	8:DERZ2	-
	253	-ve	0.050	0.841	0.052	0.000	0.138	0.000
			4:EQZ	3:EQX	4:EQZ	2:LIVE	4:EQZ	2:LIVE
			-0.040	-5.242	-0.042	-0.000	-0.111	-0.000
			8:DERZ2	14:COM2	12:DERZ4	13:COM1	12:DERZ4	13:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
522	7	+ve	0.050	6.787	0.005	0.000	0.013	4.168
			4:EQZ	14:COM2	4:EQZ	-	4:EQZ	14:COM2
			-0.040	0.000	-0.004	-0.000	-0.010	0.000
			8:DERZ2	-	12:DERZ4	14:COM2	8:DERZ2	-
	252	-ve	0.050	0.168	0.005	0.000	0.014	0.000
			4:EQZ	4:EQZ	4:EQZ	-	4:EQZ	14:COM2
			-0.040	-5.298	-0.004	-0.000	-0.011	0.000
			8:DERZ2	14:COM2	12:DERZ4	14:COM2	12:DERZ4	-
523	30	+ve	3.214	8.841	0.119	0.000	0.345	10.247
			4:EQZ	14:COM2	3:EQX	13:COM1	3:EQX	14:COM2
			-2.576	0.000	-0.100	-0.000	-0.268	0.000
			8:DERZ2	-	6:DERX2	14:COM2	10:DERX4	-
	256	-ve	3.214	0.251	0.119	0.000	0.320	0.000
			4:EQZ	3:EQX	3:EQX	13:COM1	3:EQX	14:COM2
			-2.576	-5.181	-0.100	-0.000	-0.270	0.000
			8:DERZ2	14:COM2	6:DERX2	14:COM2	6:DERX2	-
524	25	+ve	2.767	6.503	0.010	0.000	0.030	2.774
			4:EQZ	14:COM2	3:EQX	-	3:EQX	5:DERX1
			-2.218	0.000	-0.008	-0.000	-0.023	0.000
			8:DERZ2	-	6:DERX2	14:COM2	10:DERX4	-
	254	-ve	2.767	0.143	0.010	0.000	0.024	0.000
			4:EQZ	3:EQX	3:EQX	-	3:EQX	14:COM2
			-2.218	-5.582	-0.008	-0.000	-0.021	0.000
			8:DERZ2	14:COM2	6:DERX2	14:COM2	6:DERX2	-
525	26	+ve	4.022	6.765	0.007	0.000	0.029	5.597
			4:EQZ	14:COM2	4:EQZ	2:LIVE	4:EQZ	7:DERZ1
			-3.218	0.000	-0.005	-0.000	-0.023	-0.101
			8:DERZ2	-	12:DERZ4	13:COM1	8:DERZ2	12:DERZ4
	255	-ve	4.022	0.464	0.007	0.000	0.009	0.000
			4:EQZ	4:EQZ	4:EQZ	2:LIVE	4:EQZ	-
			-3.218	-5.319	-0.005	-0.000	-0.007	-0.000
			8:DERZ2	14:COM2	12:DERZ4	13:COM1	8:DERZ2	14:COM2
526	34	+ve	5.354	11.230	0.289	0.000	0.930	14.108
			4:EQZ	14:COM2	4:EQZ	13:COM1	4:EQZ	7:DERZ1
			-4.284	0.000	-0.227	-0.000	-0.761	0.000
			8:DERZ2	-	12:DERZ4	2:LIVE	8:DERZ2	-
	257	-ve	5.354	0.615	0.289	0.000	0.687	0.000
			4:EQZ	4:EQZ	4:EQZ	13:COM1	4:EQZ	2:LIVE
			-4.284	-6.925	-0.227	-0.000	-0.539	-0.000
			8:DERZ2	14:COM2	12:DERZ4	2:LIVE	12:DERZ4	13:COM1
528	259	+ve	0.288	21.179	0.363	9.843	0.425	32.117
			4:EQZ	14:COM2	4:EQZ	7:DERZ1	4:EQZ	7:DERZ1
			-0.232	0.000	-0.292	-0.453	-0.336	0.000
			12:DERZ4	-	12:DERZ4	12:DERZ4	8:DERZ2	-
	185	-ve	0.288	11.473	0.363	9.843	0.400	1.499
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-0.232	0.000	-0.292	-0.453	-0.320	-1.262
			12:DERZ4	-	12:DERZ4	12:DERZ4	8:DERZ2	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
531	263	+ve	0.058	3.649	0.054	2.114	0.038	4.396
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-0.047	-0.636	-0.043	-1.873	-0.031	-3.494
			8:DERZ2	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	182	-ve	0.058	2.308	0.054	2.114	0.065	0.388
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-0.047	-2.230	-0.043	-1.873	-0.052	-1.571
			8:DERZ2	10:DERX4	12:DERZ4	8:DERZ2	12:DERZ4	8:DERZ2
534	41	+ve	46.483	21.321	0.166	0.000	0.783	19.707
			4:EQZ	14:COM2	4:EQZ	-	4:EQZ	5:DERX1
			-37.180	0.000	-0.132	-0.000	-0.631	0.000
			12:DERZ4	-	8:DERZ2	14:COM2	12:DERZ4	-
	274	-ve	46.483	1.052	0.166	0.000	0.221	3.454
			4:EQZ	5:DERX1	4:EQZ	-	4:EQZ	3:EQX
			-37.180	-0.225	-0.132	-0.000	-0.175	-49.699
			12:DERZ4	10:DERX4	8:DERZ2	14:COM2	8:DERZ2	14:COM2
535	38	+ve	49.250	25.417	0.748	0.000	2.871	80.842
			4:EQZ	14:COM2	4:EQZ	-	4:EQZ	5:DERX1
			-39.392	0.000	-0.602	0.000	-2.300	-17.959
			12:DERZ4	-	8:DERZ2	-	12:DERZ4	10:DERX4
	273	-ve	49.250	6.248	0.748	0.000	1.653	23.734
			4:EQZ	5:DERX1	4:EQZ	-	4:EQZ	3:EQX
			-39.392	-1.900	-0.602	0.000	-1.333	-51.165
			12:DERZ4	10:DERX4	8:DERZ2	-	8:DERZ2	6:DERX2
536	273	+ve	11.085	6.248	0.467	0.000	1.536	23.734
			4:EQZ	5:DERX1	4:EQZ	14:COM2	4:EQZ	3:EQX
			-8.862	-1.900	-0.374	0.000	-1.235	-51.165
			12:DERZ4	10:DERX4	8:DERZ2	-	12:DERZ4	6:DERX2
	272	-ve	11.085	4.238	0.467	0.000	1.078	0.000
			4:EQZ	3:EQX	4:EQZ	14:COM2	4:EQZ	13:COM1
			-8.862	-17.740	-0.374	0.000	-0.863	-0.000
			12:DERZ4	6:DERX2	8:DERZ2	-	8:DERZ2	2:LIVE
538	274	+ve	8.826	1.052	0.107	0.000	0.318	3.454
			4:EQZ	5:DERX1	4:EQZ	14:COM2	4:EQZ	3:EQX
			-7.055	-0.225	-0.086	0.000	-0.257	-49.699
			12:DERZ4	10:DERX4	8:DERZ2	-	12:DERZ4	14:COM2
	271	-ve	8.826	0.617	0.107	0.000	0.279	0.000
			4:EQZ	3:EQX	4:EQZ	14:COM2	4:EQZ	-
			-7.055	-18.428	-0.086	0.000	-0.226	-0.000
			12:DERZ4	14:COM2	8:DERZ2	-	8:DERZ2	14:COM2
540	153	+ve	5.550	15.555	0.219	0.874	0.371	23.619
			4:EQZ	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-4.688	-7.260	-0.191	-1.679	-0.281	-14.724
			8:DERZ2	12:DERZ4	8:DERZ2	8:DERZ2	12:DERZ4	12:DERZ4
	154	-ve	5.550	13.373	0.219	0.874	0.403	23.975
			4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-4.688	-12.715	-0.191	-1.679	-0.356	-18.799
			8:DERZ2	8:DERZ2	8:DERZ2	8:DERZ2	8:DERZ2	8:DERZ2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
541	275	+ve	2.642	3.509	0.175	0.285	0.316	4.248
			4:EQZ	7:DERZ1	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-2.190	0.000	-0.140	-0.481	-0.254	-0.715
			8:DERZ2	-	12:DERZ4	8:DERZ2	8:DERZ2	12:DERZ4
	26	-ve	2.642	1.072	0.175	0.285	0.323	2.986
			4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-2.190	-3.222	-0.140	-0.481	-0.258	-0.104
			8:DERZ2	8:DERZ2	12:DERZ4	8:DERZ2	12:DERZ4	12:DERZ4
542	275	+ve	0.852	4.796	0.526	2.066	0.319	0.626
			4:EQZ	4:EQZ	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.682	-8.467	-0.428	-1.829	-0.254	0.000
			8:DERZ2	8:DERZ2	8:DERZ2	12:DERZ4	12:DERZ4	-
	233	-ve	0.852	4.796	0.526	2.066	0.902	20.190
			4:EQZ	4:EQZ	4:EQZ	4:EQZ	3:EQX	7:DERZ1
			-0.682	-9.953	-0.428	-1.829	-0.733	-0.580
			8:DERZ2	8:DERZ2	8:DERZ2	12:DERZ4	6:DERX2	12:DERZ4
543	209	+ve	1.703	7.240	0.024	1.175	0.051	16.788
			4:EQZ	7:DERZ1	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-1.455	-4.121	-0.018	0.000	-0.049	-12.745
			8:DERZ2	12:DERZ4	12:DERZ4	-	8:DERZ2	12:DERZ4
	261	-ve	1.703	6.776	0.024	1.175	0.075	15.864
			4:EQZ	4:EQZ	4:EQZ	7:DERZ1	4:EQZ	4:EQZ
			-1.455	-6.099	-0.018	0.000	-0.057	-14.570
			8:DERZ2	8:DERZ2	12:DERZ4	-	12:DERZ4	8:DERZ2
544	276	+ve	0.358	16.204	1.024	12.108	1.367	11.151
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.286	-2.454	-0.820	0.000	-1.093	-29.826
			12:DERZ4	12:DERZ4	12:DERZ4	-	8:DERZ2	8:DERZ2
	107	-ve	0.358	11.558	1.024	12.108	0.218	3.964
			4:EQZ	7:DERZ1	4:EQZ	5:DERX1	4:EQZ	4:EQZ
			-0.286	-5.939	-0.820	0.000	-0.176	-32.898
			12:DERZ4	12:DERZ4	12:DERZ4	-	12:DERZ4	8:DERZ2
545	261	+ve	0.749	9.838	0.095	2.551	0.114	13.065
			7:DERZ1	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.094	0.000	-0.068	-2.667	-0.106	-5.087
			12:DERZ4	-	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	278	-ve	0.749	8.753	0.095	2.551	0.091	2.824
			7:DERZ1	5:DERX1	4:EQZ	4:EQZ	7:DERZ1	4:EQZ
			-0.094	0.000	-0.068	-2.667	-0.059	-10.447
			12:DERZ4	-	12:DERZ4	8:DERZ2	12:DERZ4	8:DERZ2
546	278	+ve	0.551	3.526	0.008	0.171	0.011	2.444
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.532	0.000	-0.006	-0.127	-0.009	0.000
			8:DERZ2	-	12:DERZ4	12:DERZ4	8:DERZ2	-
	228	-ve	0.551	0.567	0.008	0.171	0.009	0.555
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-0.532	-2.394	-0.006	-0.127	-0.008	-0.347
			8:DERZ2	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
547	279	+ve	2.123	1.300	0.035	0.100	0.034	1.527
			4:EQZ	5:DERX1	4:EQZ	4:EQZ	4:EQZ	5:DERX1
			-1.948	-0.516	-0.026	-0.132	-0.030	-0.550
			8:DERZ2	10:DERX4	12:DERZ4	8:DERZ2	8:DERZ2	10:DERX4
	231	-ve	2.123	0.961	0.035	0.100	0.029	4.124
			4:EQZ	3:EQX	4:EQZ	4:EQZ	4:EQZ	7:DERZ1
			-1.948	-3.679	-0.026	-0.132	-0.022	0.000
			8:DERZ2	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	-
548	279	+ve	4.781	4.521	0.287	2.038	0.343	4.769
			3:EQX	3:EQX	4:EQZ	7:DERZ1	4:EQZ	3:EQX
			-3.478	-9.736	-0.209	-0.291	-0.314	-9.378
			10:DERX4	6:DERX2	12:DERZ4	12:DERZ4	8:DERZ2	6:DERX2
	153	-ve	4.781	4.521	0.287	2.038	0.315	21.742
			3:EQX	3:EQX	4:EQZ	7:DERZ1	4:EQZ	5:DERX1
			-3.478	-10.919	-0.209	-0.291	-0.230	-6.024
			10:DERX4	6:DERX2	12:DERZ4	12:DERZ4	12:DERZ4	10:DERX4
549	278	+ve	2.268	3.484	0.098	0.491	0.106	3.486
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	4:EQZ
			-1.716	-3.041	-0.070	-0.566	-0.102	-10.669
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	8:DERZ2	8:DERZ2
	279	-ve	2.268	3.484	0.098	0.491	0.118	5.135
			3:EQX	3:EQX	4:EQZ	4:EQZ	4:EQZ	3:EQX
			-1.716	-4.223	-0.070	-0.566	-0.084	-10.063
			10:DERX4	6:DERX2	12:DERZ4	8:DERZ2	12:DERZ4	6:DERX2



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Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
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Results are not available - This Printing is possible only from Post Processing

Memoria de Diseño de Columnas

Columna C9

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
NE+7.28	3.00	.60	.60	.25	28	-4.73	-19.93	-59.65	3.98	9.53	13.23	12/6 (2.3%)	0.58	13.99	39.72
						4.51	14.39					12/6 (2.3%)	0.44		
NE+3.68	3.00	.60	.60	.25	28	-3.97	-11.75	-26.47	3.46	7.17	13.23	12/6 (2.3%)	0.38	13.99	39.72
						0.97	3.99					12/6 (2.3%)	0.16		
NE+0.08	1.00	.60	.60	.25	28	0.89	3.74	-26.47	3.46	7.17	13.23	12/6 (2.3%)	0.25	41.96	119.17
NE-1.52		1.10				4.13	14.06					12/6 (2.3%)	0.44		

Columna C8A

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
NE+10.88	2.90	.60	.60	.25	28	4.07	-1.06	-26.07	2.12	3.80	13.23	12/6 (2.3%)	0.25	14.47	41.09
						2.75	0.22					12/6 (2.3%)	0.23		
NE+7.28	3.00	.60	.60	.25	28	-2.00	-13.29	-57.71	2.55	6.91	13.23	12/6 (2.3%)	0.37	13.99	39.72
						1.89	11.59					12/6 (2.3%)	0.33		
NE+3.68	3.00	.60	.60	.25	28	-1.93	-12.17	-82.75	2.27	7.19	13.23	12/6 (2.3%)	0.36	13.99	39.72
						0.17	3.61					12/6 (2.3%)	0.16		
NE+0.08	1.00	.60	.60	.25	28	0.14	3.35	-82.75	2.27	7.19	13.23	12/6 (2.3%)	0.23	41.96	119.17
NE-1.52		1.10				1.52	13.70					12/6 (2.3%)	0.40		

Memoria de Diseño de Columnas

Columna C8

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
NE+10.88	2.90	.60	.60	.25	28	-4.83	-0.47	-24.15	2.95	4.19	13.23	12/6 (2.3%)	0.39	14.47	41.09
						5.60	5.17					12/6 (2.3%)	0.28		
NE+7.28	3.00	.60	.60	.25	28	-5.63	-16.52	-55.86	3.96	8.27	13.23	12/6 (2.3%)	0.51	13.99	39.72
						5.31	13.27					12/6 (2.3%)	0.43		
NE+3.68	3.00	.60	.60	.25	28	-5.91	-16.68	-83.77	4.70	11.17	13.23	12/6 (2.3%)	0.55	13.99	39.72
NE+0.08						6.25	23.55					12/6 (2.3%)	0.74		

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
CUB2	1.87	.60	.60	.40	28	-2.44	-8.58					12/6 (1.4%)	0.25	59.62	86.59
						-2.69	11.77	-24.21	0.79	8.54	21.17	12/6 (1.4%)	0.34		
NE+10.88	3.00	.60	.60	.40	28	7.24	-23.13					12/6 (1.4%)	0.61	37.16	53.98
						-5.96	17.10	-50.49	7.42	11.57	21.17	12/6 (1.4%)	0.46		
NE+7.28	3.00	.60	.60	.40	28	-0.80	-24.50					12/6 (1.4%)	0.53	37.16	53.98
						1.50	24.21	-83.19	6.04	13.53	21.17	12/6 (1.4%)	0.53		
NE+3.68	3.00	.60	.60	.40	28	-3.79	-33.63					12/6 (1.4%)	0.74	37.16	53.98
NE+0.08		1.70				3.45	45.82	-130.66	7.33	22.07	21.17	12/6 (1.4%)	0.99		

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
CUB3	2.52	.60	.50	Circ	28	-2.73 4.29	-1.27 0.85	-8.88	2.02	0.98	22.05	20/5 (2.0%)	0.16	27.58	27.58
NE+10.88	3.00	.60	.50	Circ	28	10.39 -10.93	2.62 -5.02	-17.27	5.84	4.21	22.05	20/5 (2.0%)	0.54	23.17	23.17
NE+7.28	3.00	.60	.50	Circ	28	15.80 -15.01	8.70 -8.60	-58.62	8.56	7.44	22.05	20/5 (2.0%)	0.74	23.17	23.17
NE+3.68	3.00	.60	.50	.50	28	16.00 -17.24	12.36 -15.04	-102.09	9.23	10.98	22.05	20/5 (1.6%)	0.58	49.71	49.55
NE+0.08	1.70											20/5 (1.6%)	0.66		

Memoria de Diseño de Columnas

C10

Son 2

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
NE+7.28	3.00	.60	.50	Circ	28	16.38	11.36	-14.03	8.22	6.94	22.05	11/7 (2.2%)	0.99	23.44	23.45
						-13.21	-6.66					11/7 (2.2%)	0.73		
NE+3.68	3.00	.60	.50	Circ	28	12.96	6.79	-39.54	7.94	7.43	22.05	11/7 (2.2%)	0.63	23.44	23.45
NE+0.08						-13.02	-8.86					11/7 (2.2%)	0.68		

Columna C11

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
NE+7.28	3.00	.60	.60	.40	28	13.13	34.90	-23.82	9.11	18.30	21.17	12/6 7 (1.7%)	0.95	38.93	56.36
						0.38	28.12					12/6 7 (1.7%)	0.68		
NE+3.68	3.00	.60	.60	.40	28	-7.36	29.76	-80.78	8.25	19.79	21.17	12/6 7 (1.7%)	0.65	38.93	56.36
NE+0.08						5.18	41.48					12/6 7 (1.7%)	0.86		

C12

Son 2

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
NE+10.88	3.05	.60	.60	.40	28	7.36	21.61	-11.42	4.61	7.89	21.17	22/5 (1.8%)	0.57	39.17	57.68
						14.21	11.77					22/5 (1.8%)	0.53		
NE+7.28	3.00	.60	.60	.40	28	-22.85	-17.87	-98.10	10.90	12.51	21.17	22/5 (1.8%)	0.80	39.82	58.65
						16.41	9.42					22/5 (1.8%)	0.56		
NE+3.68	3.00	.60	.60	.40	28	-17.22	-6.37	-156.39	10.44	12.61	21.17	22/5 (1.8%)	0.60	39.82	58.65
NE+0.08						20.37	6.83					22/5 (1.8%)	0.71		

VC08/NE+0.08

B=0.40 H=0.60 L=5.85		B=0.40 H=0.60 L=5.30		B=0.40 H=0.60 L=5.20	
Mu=-3.44 As=7.96 As(r)=7.26	Mu=-17.18 As=9.95 As(r)=8.67	Mu=-14.98 As=9.95 As(r)=7.51	Mu=-14.19 As=7.96 As(r)=7.26	Mu=-15.22 As=7.96 As(r)=7.63	Mu=-18.27 As=9.95 As(r)=9.24
Mu=8.88 As=7.96 As(r)=7.26	Mu=7.87 As=7.96 As(r)=7.26	Mu=5.73 As=7.96 As(r)=7.26	Mu=4.99 As=7.96 As(r)=7.26	Mu=4.69 As=7.96 As(r)=7.26	Mu=4.73 As=7.96 As(r)=7.26
Mu=5.07 As=7.96 As(r)=7.26	Mu=5.21 As=7.96 As(r)=7.26	Mu=6.09 As=7.96 As(r)=7.26			
Vu=7.29	Vu=-11.69	Vu=-11.12	Vu=10.94	Vu=-11.61	Vu=12.05

B=0.40 H=0.60 L=5.30		B=0.40 H=0.60 L=4.92	
Mu=-18.55 As=9.95 As(r)=9.39	Mu=-17.11 As=9.25 As(r)=8.63	Mu=-12.68 As=9.25 As(r)=7.26	Mu=-0.00 As=7.96 As(r)=7.26
Mu=6.18 As=7.96 As(r)=7.26	Mu=6.43 As=7.96 As(r)=7.26	Mu=5.70 As=7.96 As(r)=7.26	Mu=2.54 As=7.96 As(r)=7.26
Mu=5.75 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26		
Vu=-12.54	Vu=12.42	Vu=-8.91	Vu=5.11

VC09/NE+0.08

B=0.40 H=0.60 L=3.90		B=0.40 H=0.60 L=5.40		B=0.40 H=0.60 L=5.38	
Mu=-0.00 As=7.96 As(r)=7.26	Mu=-16.39 As=9.95 As(r)=8.25	Mu=-16.24 As=9.95 As(r)=8.17	Mu=-14.62 As=7.96 As(r)=7.32	Mu=-13.74 As=7.96 As(r)=7.26	Mu=-14.58 As=9.95 As(r)=7.30
Mu=3.68 As=7.96 As(r)=7.26	Mu=3.28 As=7.96 As(r)=7.26	Mu=3.28 As=7.96 As(r)=7.26	Mu=5.41 As=7.96 As(r)=7.26	Mu=4.35 As=7.96 As(r)=7.26	Mu=4.87 As=7.96 As(r)=7.26
Mu=4.58 As=7.96 As(r)=7.26	Mu=4.86 As=7.96 As(r)=7.26				
Vu=-3.54	Vu=10.14	Vu=-11.45	Vu=10.94	Vu=-10.84	Vu=11.21

B=0.40 H=0.60 L=5.37	
Mu=-17.48 As=9.95 As(r)=8.82	Mu=-14.93 As=7.96 As(r)=7.48
Mu=5.83 As=7.96 As(r)=7.26	Mu=6.91 As=7.96 As(r)=7.26
Mu=4.98 As=7.96 As(r)=7.26	
Vu=-12.73	Vu=11.39

VC10/NE+0.08

B=0.40 H=0.60 L=5.40		B=0.40 H=0.60 L=5.40		B=0.40 H=0.60 L=5.30	
Mu=-10.85 As=7.96 As(r)=7.26	Mu=-14.52 As=7.96 As(r)=7.27	Mu=-12.45 As=7.96 As(r)=7.26	Mu=-12.34 As=7.96 As(r)=7.26	Mu=-14.45 As=7.96 As(r)=7.26	Mu=-15.94 As=7.96 As(r)=8.01
Mu=5.51 As=7.96 As(r)=7.26	Mu=5.54 As=7.96 As(r)=7.26	Mu=4.84 As=7.96 As(r)=7.26	Mu=4.15 As=7.96 As(r)=7.26	Mu=3.65 As=7.96 As(r)=7.26	Mu=4.11 As=7.96 As(r)=7.26
Mu=4.82 As=7.96 As(r)=7.26	Mu=6.24 As=7.96 As(r)=7.26	Mu=5.31 As=7.96 As(r)=7.26			
Vu=-8.87	Vu=10.61	Vu=-9.09	Vu=9.04	Vu=-11.48	Vu=11.92

B=0.40 H=0.60 L=4.92	
Mu=-11.86 As=7.96 As(r)=7.26	Mu=-0.00 As=7.96 As(r)=7.26
Mu=2.37 As=7.96 As(r)=7.26	Mu=5.96 As=7.96 As(r)=7.26
Mu=0.00 As=7.96 As(r)=7.26	
Vu=-8.78	Vu=5.24

VC12/NE+0.08

B=0.30 H=0.60 L=3.80		B=0.30 H=0.60 L=1.20		B=0.30 H=0.60 L=1.30	
Mu=-3.33 As=5.97 As(r)=5.45	Mu=-2.22 As=11.61 As(r)=5.45	Mu=-5.77 As=11.61 As(r)=5.45	Mu=-28.83 As=17.29 As(r)=15.60	Mu=-24.89 As=17.29 As(r)=13.22	Mu=-4.98 As=5.97 As(r)=5.45
Mu=2.22 As=5.97 As(r)=5.45	Mu=1.12 As=5.97 As(r)=5.57	Mu=5.99 As=5.97 As(r)=5.45	Mu=5.77 As=5.97 As(r)=5.45	Mu=9.61 As=5.97 As(r)=5.45	Mu=8.30 As=5.97 As(r)=5.45
Vu=7.16		Vu=-10.86		Vu=-13.41	
				Vu=-15.65	
				Vu=16.73	
				Vu=15.05	

B=0.30 H=0.60 L=2.20	
Mu=-7.81 As=5.97 As(r)=5.45	Mu=-0.00 As=5.97 As(r)=5.45
Mu=1.56 As=5.97 As(r)=5.45	Mu=0.58 As=5.97 As(r)=5.45
Vu=6.10	
Vu=3.30	

VC13/NE+0.08

B=0.40 H=0.60 L=1.85		B=0.40 H=0.60 L=7.30		B=0.40 H=0.60 L=2.95	
Mu=-0.17 As=20.40 As(r)=7.26	Mu=-15.55 As=25.04 As(r)=7.81	Mu=-43.59 As=26.08 As(r)=24.06	Mu=-46.76 As=26.08 As(r)=26.15	Mu=-27.17 As=26.08 As(r)=14.14	Mu=-33.94 As=26.08 As(r)=18.07
Mu=0.00 As=9.66 As(r)=7.26	Mu=0.00 As=9.66 As(r)=7.26	Mu=3.11 As=9.66 As(r)=9.74	Mu=14.53 As=9.66 As(r)=16.24	Mu=15.59 As=11.36 As(r)=9.74	Mu=9.06 As=11.36 As(r)=7.26
Vu=-3.60		Vu=-11.06		Vu=27.91	
				Vu=-30.69	
				Vu=14.61	
				Vu=-20.54	

B=0.40 H=0.60 L=2.15	
Mu=-38.51 As=26.08 As(r)=20.85	Mu=-0.00 As=26.08 As(r)=7.26
Mu=7.70 As=9.66 As(r)=7.26	Mu=0.00 As=9.66 As(r)=7.26
Vu=21.11	
Vu=13.38	

VC14/NE+0.08

B=0.40 H=0.60 L=1.90		B=0.40 H=0.60 L=7.35		B=0.40 H=0.60 L=3.00	
Mu=-0.00 As=15.48 As(r)=7.26	Mu=-19.49 As=18.13 As(r)=9.90	Mu=-32.68 As=18.13 As(r)=17.32	Mu=-37.55 As=21.16 As(r)=20.26	Mu=-22.77 As=21.16 As(r)=11.68	Mu=-28.20 As=18.13 As(r)=14.72
Mu=0.09 As=9.66 As(r)=7.26	Mu=0.00 As=9.66 As(r)=7.26	Mu=3.90 As=9.66 As(r)=7.26	Mu=10.89 As=9.66 As(r)=8.20	Mu=26.33 As=18.13 As(r)=13.66	Mu=12.52 As=9.66 As(r)=8.20
Vu=-8.35		Vu=-9.84		Vu=21.92	
				Vu=-24.20	
				Vu=11.95	
				Vu=-16.13	

B=0.40 H=0.60 L=2.20	
Mu=-33.63 As=18.32 As(r)=17.89	Mu=-0.12 As=15.48 As(r)=7.26
Mu=6.73 As=9.66 As(r)=7.26	Mu=0.00 As=9.66 As(r)=7.26
Vu=14.28	
Vu=12.55	

VC15/NE+0.08

B=0.40 H=0.60 L=1.90		B=0.40 H=0.60 L=7.35		B=0.40 H=0.60 L=3.00	
Mu=-0.24 As=15.48 As(r)=7.26	Mu=-26.20 As=21.16 As(r)=13.59	Mu=-37.23 As=21.16 As(r)=20.06	Mu=-42.51 As=26.03 As(r)=23.37	Mu=-22.12 As=26.03 As(r)=11.33	Mu=-26.72 As=21.16 As(r)=13.88
Mu=0.00 As=11.36 As(r)=7.26	Mu=0.00 As=11.36 As(r)=7.26	Mu=5.24 As=11.36 As(r)=7.26	Mu=12.41 As=11.36 As(r)=10.29	Mu=32.38 As=19.88 As(r)=17.15	Mu=14.17 As=11.36 As(r)=10.29
Mu=7.37 As=11.36 As(r)=7.26	Mu=5.34 As=11.36 As(r)=7.26	Mu=8.91 As=11.36 As(r)=7.26	Mu=10.29 As=11.36 As(r)=10.29	Mu=7.37 As=11.36 As(r)=7.26	Mu=10.29 As=11.36 As(r)=10.29
Vu=-11.35	Vu=-12.83	Vu=-27.31	Vu=29.27	Vu=10.31	Vu=-15.29

B=0.40 H=0.60 L=2.20	
Mu=-33.65 As=17.09 As(r)=17.90	Mu=-0.02 As=15.48 As(r)=7.26
Mu=6.73 As=11.36 As(r)=7.26	Mu=0.00 As=11.36 As(r)=7.26
Mu=0.02 As=11.36 As(r)=7.26	Mu=0.02 As=11.36 As(r)=7.26
Vu=14.33	Vu=12.60

VC16/NE+0.08

B=0.55 H=0.60 L=1.90		B=0.55 H=0.60 L=7.40		B=0.55 H=0.60 L=3.00	
Mu=-0.00 As=17.09 As(r)=9.98	Mu=-42.08 As=22.15 As(r)=22.15	Mu=-35.49 As=22.15 As(r)=18.39	Mu=-19.98 As=11.94 As(r)=10.00	Mu=-12.23 As=11.94 As(r)=9.98	Mu=-36.09 As=27.64 As(r)=18.72
Mu=0.30 As=11.94 As(r)=9.98	Mu=0.00 As=11.94 As(r)=9.98	Mu=8.42 As=11.94 As(r)=9.98	Mu=11.83 As=11.94 As(r)=9.98	Mu=20.09 As=14.18 As(r)=10.06	Mu=7.10 As=11.94 As(r)=9.98
Mu=7.22 As=11.94 As(r)=9.98	Mu=7.22 As=11.94 As(r)=9.98	Mu=7.22 As=11.94 As(r)=9.98	Mu=7.22 As=11.94 As(r)=9.98	Mu=7.22 As=11.94 As(r)=9.98	Mu=12.03 As=11.94 As(r)=9.98
Vu=-12.70	Vu=-26.77	Vu=20.93	Vu=-17.37	Vu=-4.61	Vu=-16.20

B=0.55 H=0.60 L=2.15	
Mu=-51.64 As=28.65 As(r)=27.86	Mu=-0.00 As=17.04 As(r)=9.98
Mu=10.33 As=11.94 As(r)=9.98	Mu=0.00 As=11.94 As(r)=9.98
Mu=0.07 As=11.94 As(r)=9.98	Mu=0.07 As=11.94 As(r)=9.98
Vu=28.86	Vu=12.49

VC23/NE+0.08

B=0.30 H=0.60 L=5.90	
Mu=-14.12 As=7.96 As(r)=7.16	Mu=-2.82 As=5.97 As(r)=5.45
Mu=4.71 As=5.97 As(r)=5.45	Mu=9.12 As=5.97 As(r)=5.45
Mu=2.82 As=5.97 As(r)=5.45	Mu=2.82 As=5.97 As(r)=5.45
Vu=15.22	Vu=7.28

V109/NE+3.68

B=0.30 H=0.60 L=1.35		B=0.30 H=0.60 L=5.35		B=0.30 H=0.60 L=2.05	
Mu=-0.41 As=5.97 As(r)=5.45	Mu=-13.98 As=-29.84 As(r)=6.99	Mu=-18.83 As=-9.84 As(r)=9.54	Mu=-22.00 As=-11.36 As(r)=11.26	Mu=-17.21 As=-11.36 As(r)=6.68	Mu=-0.16 As=-8.42 As(r)=5.45
Mu=-1.52 As=-5.15 As(r)=5.45	Mu=0.00 As=6.97 As(r)=5.45	Mu=2.80 As=-6.87 As(r)=5.45	Mu=4.40 As=9.31 As(r)=5.45	Mu=10.04 As=-5.97 As(r)=5.45	Mu=3.44 As=5.97 As(r)=5.45
Vu=6.21	Vu=8.34	Vu=10.56	Vu=-11.32	Vu=8.22	Vu=5.43

V110/NE+3.68

B=0.30 H=0.60 L=1.50		B=0.30 H=0.60 L=3.65		B=0.30 H=0.60 L=1.30	
Mu=-0.90 As=-5.97 As(r)=5.45	Mu=-2.77 As=-17.47 As(r)=5.45	Mu=-4.74 As=-5.45 As(r)=5.45	Mu=-23.72 As=-12.21 As(r)=5.45	Mu=-19.90 As=-10.12 As(r)=5.45	Mu=-11.90 As=-5.97 As(r)=5.45
Mu=0.73 As=-5.97 As(r)=5.45	Mu=1.53 As=-5.97 As(r)=5.45	Mu=2.36 As=-5.97 As(r)=5.45	Mu=4.74 As=-5.97 As(r)=5.45	Mu=7.91 As=-5.97 As(r)=5.45	Mu=6.63 As=-5.97 As(r)=5.45
Vu=2.12	Vu=2.48	Vu=3.47	Vu=12.45	Vu=11.37	Vu=8.06

B=0.30 H=0.60 L=2.20	
Mu=-12.23 As=-6.08 As(r)=5.45	Mu=-0.30 As=-5.45 As(r)=5.45
Mu=2.45 As=-5.97 As(r)=5.45	Mu=0.00 As=-5.97 As(r)=5.45
Vu=8.42	Vu=3.48

V111/NE+3.68

B=0.40 H=0.60 L=1.85		B=0.40 H=0.60 L=7.30		B=0.40 H=0.60 L=2.95	
Mu=-0.17 As=15.48 As(r)=7.26	Mu=-11.48 As=18.56 As(r)=7.26	Mu=-39.10 As=22.97 As(r)=21.21	Mu=-39.30 As=23.22 As(r)=21.34	Mu=-22.94 As=23.22 As(r)=11.78	Mu=-38.30 As=23.22 As(r)=20.72
Mu=0.05 As=9.66 As(r)=7.26	Mu=0.00 As=9.66 As(r)=7.26	Mu=2.30 As=9.66 As(r)=7.26	Mu=13.03 As=9.66 As(r)=7.26	Mu=18.98 As=12.85 As(r)=9.62	Mu=13.10 As=11.36 As(r)=7.26
Vu=-3.90	Vu=-6.67	Vu=20.26	Vu=-20.15	Vu=20.94	Vu=-26.50

B=0.40 H=0.60 L=2.15	
Mu=-37.42 As=23.22 As(r)=20.18	Mu=-0.00 As=15.48 As(r)=7.26
Mu=7.48 As=9.66 As(r)=7.26	Mu=0.00 As=9.66 As(r)=7.26
Vu=16.93	Vu=13.70

V112/NE+3.68

B=0.40 H=0.60 L=1.90		B=0.40 H=0.60 L=7.35		B=0.40 H=0.60 L=3.00	
Mu=-0.07 As=15.48 As(r)=7.26	Mu=-21.84 As=20.78 As(r)=11.17	Mu=-38.84 As=21.16 As(r)=21.05	Mu=-41.85 As=23.22 As(r)=22.95	Mu=-21.97 As=23.22 As(r)=11.24	Mu=-32.61 As=21.16 As(r)=17.28
Mu=0.02 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26	Mu=4.37 As=7.96 As(r)=7.26	Mu=12.95 As=7.96 As(r)=7.27	Mu=23.56 As=13.64 As(r)=12.12	Mu=13.95 As=11.36 As(r)=7.27
Vu=-9.41	Vu=-10.90	Vu=22.38	Vu=-23.84	Vu=13.94	Vu=-20.85

B=0.40 H=0.60 L=2.20	
Mu=-32.47 As=21.16 As(r)=17.20	Mu=-0.21 As=15.48 As(r)=7.26
Mu=6.49 As=9.66 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26
Vu=13.77	Vu=12.04

V113/NE+3.68

B=0.40 H=0.60 L=1.90		B=0.40 H=0.60 L=7.35		B=0.40 H=0.60 L=3.00	
Mu=-0.12 As=11.36 As(r)=7.26	Mu=-21.92 As=15.34 As(r)=11.22	Mu=-25.73 As=15.34 As(r)=13.33	Mu=-26.58 As=15.34 As(r)=13.80	Mu=-15.20 As=15.34 As(r)=7.62	Mu=-30.77 As=22.19 As(r)=16.20
Mu=0.00 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26	Mu=8.58 As=7.96 As(r)=7.26	Mu=11.44 As=7.96 As(r)=7.26	Mu=8.86 As=7.96 As(r)=7.26	Mu=12.20 As=7.96 As(r)=7.26
Mu=6.15 As=7.96 As(r)=7.26	Mu=10.26 As=7.96 As(r)=7.26	Mu=10.26 As=7.96 As(r)=7.26	Mu=10.26 As=7.96 As(r)=7.26	Mu=10.26 As=7.96 As(r)=7.26	Mu=10.26 As=7.96 As(r)=7.26
Vu=-9.41	Vu=-10.90	Vu=-13.44	Vu=13.90	Vu=10.15	Vu=-22.00

B=0.40 H=0.60 L=2.20	
Mu=-36.21 As=23.22 As(r)=19.44	Mu=-0.18 As=15.48 As(r)=7.26
Mu=7.24 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26
Mu=0.00 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26
Vu=15.28	Vu=13.55

V114/NE+3.68

B=0.40 H=0.60 L=1.95		B=0.40 H=0.60 L=7.50	
Mu=0.00 As=7.96 As(r)=7.26	Mu=-0.00 As=11.94 As(r)=7.26	Mu=21.55 As=11.94 As(r)=10.84	Mu=-7.84 As=7.96 As(r)=7.26
Mu=0.00 As=7.96 As(r)=7.26	Mu=0.00 As=15.92 As(r)=7.26	Mu=7.18 As=7.96 As(r)=7.26	Mu=15.79 As=7.96 As(r)=7.84
Mu=4.31 As=7.96 As(r)=7.26	Mu=4.31 As=7.96 As(r)=7.26	Mu=4.31 As=7.96 As(r)=7.26	Mu=4.31 As=7.96 As(r)=7.26
Vu=0.00	Vu=0.00	Vu=13.01	Vu=10.09

V115/NE+3.68

B=0.40 H=0.60 L=1.90		B=0.40 H=0.60 L=7.40		B=0.40 H=0.60 L=3.00	
Mu=0.00 As=7.96 As(r)=7.26	Mu=-21.60 As=11.83 As(r)=10.86	Mu=19.82 As=11.83 As(r)=9.93	Mu=-15.52 As=15.96 As(r)=7.70	Mu=13.72 As=7.96 As(r)=7.26	Mu=31.47 As=17.14 As(r)=16.19
Mu=0.33 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26	Mu=4.32 As=7.96 As(r)=7.26	Mu=6.61 As=7.96 As(r)=7.26	Mu=12.88 As=7.96 As(r)=7.26	Mu=5.17 As=7.96 As(r)=7.26
Mu=6.29 As=7.96 As(r)=7.26	Mu=6.29 As=7.96 As(r)=7.26	Mu=6.29 As=7.96 As(r)=7.26	Mu=6.29 As=7.96 As(r)=7.26	Mu=6.29 As=7.96 As(r)=7.26	Mu=10.49 As=7.96 As(r)=7.26
Vu=9.47	Vu=-10.96	Vu=11.81	Vu=-11.59	Vu=7.00	Vu=14.19

B=0.40 H=0.60 L=2.15	
Mu=31.86 As=17.04 As(r)=16.40	Mu=-0.00 As=11.36 As(r)=7.26
Mu=6.37 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26
Mu=0.13 As=7.96 As(r)=7.26	Mu=0.13 As=7.96 As(r)=7.26
Vu=13.66	Vu=11.93

V116/NE+3.68

B=0.40 H=0.60 L=5.85		B=0.40 H=0.60 L=5.30		B=0.40 H=0.60 L=5.20	
Mu=-11.53 As=7.96 As(r)=7.26	Mu=-21.68 As=11.94 As(r)=11.09	Mu=-19.84 As=11.94 As(r)=10.09	Mu=-18.96 As=10.54 As(r)=9.61	Mu=-20.61 As=10.54 As(r)=10.50	Mu=-24.87 As=13.64 As(r)=12.84
Mu=4.35 As=7.96 As(r)=7.26	Mu=12.87 As=9.95 As(r)=7.40	Mu=6.61 As=7.96 As(r)=7.26	Mu=4.62 As=9.95 As(r)=7.26	Mu=6.52 As=7.96 As(r)=7.26	Mu=6.87 As=7.96 As(r)=7.26
Mu=7.10 As=9.95 As(r)=7.26	Mu=8.29 As=7.96 As(r)=7.26	Mu=8.29 As=7.96 As(r)=7.26	Mu=8.29 As=7.96 As(r)=7.26	Mu=8.29 As=7.96 As(r)=7.26	Mu=8.29 As=7.96 As(r)=7.26
Vu=14.79	Vu=-13.75	Vu=-12.90	Vu=12.53	Vu=-13.37	Vu=14.11

B=0.40 H=0.60 L=5.30		B=0.40 H=0.60 L=5.32	
Mu=-21.66 As=13.64 As(r)=11.07	Mu=-19.20 As=9.95 As(r)=9.74	Mu=-12.40 As=9.95 As(r)=7.26	Mu=-0.00 As=7.96 As(r)=7.26
Mu=8.08 As=7.96 As(r)=7.26	Mu=7.95 As=9.95 As(r)=7.26	Mu=6.40 As=7.96 As(r)=7.26	Mu=5.30 As=9.95 As(r)=7.26
Vu=-13.76	Vu=14.13	Vu=-8.96	Vu=5.06

V117/NE+3.68

B=0.30 H=0.60 L=1.65		B=0.30 H=0.60 L=3.90	
Mu=-0.00 As=5.97 As(r)=5.45	Mu=-6.10 As=5.97 As(r)=5.45	Mu=-6.03 As=5.97 As(r)=5.45	Mu=-5.28 As=5.97 As(r)=5.45
Mu=2.91 As=5.97 As(r)=5.45	Mu=2.51 As=5.97 As(r)=5.45	Mu=2.59 As=5.97 As(r)=5.45	Mu=2.54 As=5.97 As(r)=5.45
Vu=3.00	Vu=-6.94	Vu=-6.77	Vu=6.78

V118/NE+3.68

B=0.40 H=0.60 L=5.40		B=0.40 H=0.60 L=5.40		B=0.40 H=0.60 L=5.30	
Mu=-21.01 As=11.94 As(r)=10.55	Mu=-19.19 As=9.60 As(r)=8.63	Mu=-17.32 As=11.94 As(r)=8.63	Mu=-26.48 As=15.70 As(r)=13.46	Mu=-27.45 As=15.70 As(r)=13.99	Mu=-15.38 As=7.96 As(r)=7.63
Mu=7.32 As=7.96 As(r)=7.26	Mu=7.40 As=7.96 As(r)=7.26	Mu=5.49 As=7.96 As(r)=7.26	Mu=5.30 As=7.96 As(r)=7.26	Mu=8.83 As=7.96 As(r)=7.26	Mu=9.15 As=7.96 As(r)=7.26
Vu=-13.41	Vu=13.17	Vu=11.40	Vu=14.43	Vu=20.83	Vu=15.24

V119/NE+3.68

B=0.25 H=0.60 L=5.85	
Mu=-1.85 As=5.97 As(r)=4.54	Mu=-5.02 As=5.97 As(r)=4.54
Mu=1.73 As=5.97 As(r)=4.54	Mu=8.37 As=5.97 As(r)=4.54
Vu=5.83	Vu=6.70

V120/NE+3.68

B=0.40 H=0.60 L=0.20		B=0.40 H=0.60 L=5.35		B=0.40 H=0.60 L=5.25	
Mu=-0.00 As=2.40 As(r)=7.26	Mu=-1.52 As=9.95 As(r)=7.26	Mu=-17.31 As=9.95 As(r)=8.62	Mu=-19.08 As=9.95 As(r)=9.54	Mu=-13.08 As=9.95 As(r)=7.26	Mu=-17.12 As=10.80 As(r)=8.53
Mu=0.00 As=1.00 As(r)=7.26	Mu=0.00 As=1.00 As(r)=7.26	Mu=0.30 As=7.96 As(r)=7.26	Mu=0.24 As=7.96 As(r)=7.26	Mu=4.68 As=7.96 As(r)=7.26	Mu=6.36 As=7.96 As(r)=7.26
Vu=3.38	Vu=3.68	Vu=-10.87	Vu=11.88	Vu=-8.71	Vu=10.85

B=0.40 H=1.20 L=5.35		B=0.40 H=1.20 L=5.12	
Mu=-0.00 As=30.15 As(r)=15.18	Mu=-0.00 As=19.38 As(r)=15.18	Mu=-0.00 As=19.38 As(r)=15.18	Mu=-0.00 As=19.38 As(r)=15.18
Mu=0.00 As=24.02 As(r)=15.18	Mu=0.00 As=1.00 As(r)=15.18	Mu=0.00 As=19.38 As(r)=15.18	Mu=0.00 As=19.38 As(r)=15.18
Vu=0.00	Vu=0.00	Vu=0.00	Vu=0.00

V132/NE+3.68

B=0.30 H=0.60 L=1.65	
Mu=-13.69 As=8.52 As(r)=6.83	Mu=-0.00 As=8.52 As(r)=5.45
Mu=2.74 As=5.97 As(r)=5.45	Mu=1.73 As=5.97 As(r)=5.45
Mu=3.28 As=5.97 As(r)=5.45	
Vu=10.56	Vu=5.93

V209/NE+7.28

B=0.30 H=0.60 L=1.35		B=0.30 H=0.60 L=5.35		B=0.30 H=0.60 L=2.00	
Mu=-0.08 As=5.97 As(r)=5.54	Mu=-16.60 As=8.73 As(r)=8.19	Mu=-17.97 As=9.84 As(r)=8.91	Mu=-16.54 As=8.81 As(r)=8.16	Mu=-12.16 As=8.81 As(r)=5.93	Mu=-0.01 As=5.97 As(r)=5.54
Mu=1.83 As=5.97 As(r)=5.54	Mu=0.00 As=5.97 As(r)=5.54	Mu=7.43 As=5.97 As(r)=5.54	Mu=1.64 As=9.95 As(r)=5.54	Mu=4.37 As=7.96 As(r)=5.54	Mu=0.00 As=5.97 As(r)=5.54
Mu=0.05 As=7.96 As(r)=5.54					
Vu=8.34	Vu=10.41	Vu=10.29	Vu=-9.25	Vu=5.52	Vu=4.22

V210/NE+7.28

B=0.30 H=0.60 L=1.50		B=0.30 H=0.60 L=3.65		B=0.30 H=0.60 L=1.30	
Mu=-1.19 As=5.97 As(r)=5.54	Mu=-2.25 As=5.97 As(r)=5.54	Mu=-2.10 As=5.97 As(r)=5.54	Mu=-22.01 As=11.36 As(r)=11.04	Mu=-18.43 As=11.36 As(r)=9.15	Mu=-5.29 As=8.52 As(r)=5.54
Mu=0.22 As=5.97 As(r)=5.54	Mu=1.26 As=5.97 As(r)=5.54	Mu=2.20 As=5.97 As(r)=5.54	Mu=2.92 As=5.97 As(r)=5.54	Mu=2.81 As=5.97 As(r)=5.54	Mu=0.31 As=5.97 As(r)=5.54
Mu=0.00 As=5.97 As(r)=5.54	Mu=0.00 As=5.97 As(r)=5.54	Mu=0.07 As=5.97 As(r)=5.54			
Vu=-2.26	Vu=1.99	Vu=3.07	Vu=-11.79	Vu=11.06	Vu=9.38

B=0.30 H=0.60 L=2.15	
Mu=-7.66 As=8.52 As(r)=5.54	Mu=-0.29 As=8.52 As(r)=5.54
Mu=0.00 As=5.97 As(r)=5.54	Mu=0.00 As=5.97 As(r)=5.54
Mu=0.07 As=5.97 As(r)=5.54	
Vu=3.65	Vu=2.35

V211/NE+7.28

B=0.40 H=0.60 L=7.30		B=0.40 H=0.60 L=2.95		B=0.40 H=0.60 L=2.15	
Mu=-21.18 As=13.64 As(r)=10.81	Mu=-27.85 As=15.23 As(r)=14.52	Mu=-17.74 As=14.20 As(r)=8.96	Mu=-34.23 As=18.32 As(r)=18.24	Mu=-30.73 As=18.32 As(r)=16.18	Mu=-0.00 As=15.48 As(r)=7.26
Mu=8.27 As=7.96 As(r)=7.26	Mu=14.88 As=7.96 As(r)=7.45	Mu=9.28 As=9.66 As(r)=7.26	Mu=16.00 As=9.66 As(r)=8.04	Mu=6.85 As=7.96 As(r)=7.26	Mu=11.41 As=9.66 As(r)=7.26
Mu=6.15 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26				
Vu=11.43	Vu=-12.53	Vu=19.76	Vu=-24.85	Vu=13.51	Vu=11.78

V212/NE+7.28

B=0.40 H=0.60 L=2.90		B=0.40 H=0.60 L=2.10	
Mu=-12.17 As=11.36 As(r)=7.26	Mu=-34.10 As=21.16 As(r)=18.17	Mu=-29.87 As=21.16 As(r)=15.68	Mu=-0.00 As=15.48 As(r)=7.26
Mu=22.05 As=13.64 As(r)=7.26	Mu=6.82 As=7.96 As(r)=7.26	Mu=11.37 As=7.96 As(r)=7.26	Mu=5.97 As=13.64 As(r)=7.26
Mu=0.00 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26	Mu=0.23 As=7.96 As(r)=7.26	
Vu=-9.70	Vu=-24.10	Vu=12.88	Vu=11.15

V213/NE+7.28

B=0.40 H=0.60 L=7.35		B=0.40 H=0.60 L=3.00		B=0.40 H=0.60 L=2.20	
Mu=-7.34 As=7.96 As(r)=7.39	Mu=-20.16 As=11.83 As(r)=9.91	Mu=-10.46 As=11.06 As(r)=7.39	Mu=-42.44 As=25.09 As(r)=21.95	Mu=-47.67 As=25.68 As(r)=24.98	Mu=-0.03 As=15.48 As(r)=7.39
Mu=6.71 As=7.96 As(r)=7.39	Mu=11.84 As=7.96 As(r)=7.39	Mu=0.00 As=7.96 As(r)=7.39	Mu=12.64 As=7.96 As(r)=7.39	Mu=0.00 As=7.96 As(r)=7.39	Mu=0.00 As=7.96 As(r)=7.39
Mu=0.00 As=7.96 As(r)=7.39	Mu=0.00 As=7.96 As(r)=7.39	Mu=0.00 As=7.96 As(r)=7.39	Mu=0.00 As=7.96 As(r)=7.39	Mu=0.00 As=7.96 As(r)=7.39	Mu=0.13 As=7.96 As(r)=7.39
Vu=-7.38	Vu=11.04	Vu=-13.27	Vu=-18.60	Vu=19.95	Vu=18.22

V214/NE+7.28

B=0.40 H=0.60 L=5.85		B=0.40 H=0.60 L=5.30		B=0.40 H=0.60 L=5.20	
Mu=-6.31 As=7.98 As(r)=7.26	Mu=-19.46 As=9.99 As(r)=9.74	Mu=-18.07 As=9.95 As(r)=7.99	Mu=-17.41 As=9.98 As(r)=8.68	Mu=-18.02 As=9.95 As(r)=8.99	Mu=-39.75 As=21.18 As(r)=20.87
Mu=3.89 As=7.98 As(r)=7.26	Mu=10.77 As=7.98 As(r)=7.26	Mu=6.49 As=7.98 As(r)=7.26	Mu=5.48 As=7.98 As(r)=7.26	Mu=5.80 As=7.98 As(r)=7.26	Mu=7.95 As=7.98 As(r)=7.26
Mu=10.54 As=7.98 As(r)=7.26	Mu=13.25 As=7.98 As(r)=7.26				
Vu=10.97	Vu=-13.74	Vu=-9.73	Vu=10.59	Vu=-13.24	Vu=20.71

B=0.40 H=0.76 L=11.32	
Mu=-48.47 As=21.18 As(r)=18.21	Mu=-0.00 As=11.38 As(r)=9.37
Mu=9.89 As=19.32 As(r)=9.37	Mu=34.56 As=11.38 As(r)=14.07
Mu=8.21 As=11.38 As(r)=9.37	
Vu=-24.02	Vu=15.73

V215/NE+7.28

B=0.40 H=0.60 L=5.40		B=0.40 H=0.60 L=5.40	
Mu=-13.96 As=11.94 As(r)=7.39	Mu=-24.81 As=19.35 As(r)=12.32	Mu=-35.88 As=19.35 As(r)=18.26	Mu=-23.30 As=19.46 As(r)=11.53
Mu=8.45 As=11.36 As(r)=7.39	Mu=1.45 As=11.36 As(r)=7.39	Mu=0.00 As=18.00 As(r)=7.39	Mu=43.52 As=11.36 As(r)=22.57
Vu=-8.34	Vu=12.59	Vu=-29.29	Vu=19.18

V216/NE+7.28

B=0.40 H=0.60 L=5.35		B=0.40 H=0.60 L=5.20	
Mu=-26.04 As=14.20 As(r)=13.50	Mu=-26.26 As=14.20 As(r)=13.62	Mu=-25.94 As=14.20 As(r)=13.44	Mu=-14.79 As=11.36 As(r)=7.41
Mu=8.68 As=14.20 As(r)=8.04	Mu=11.02 As=12.25 As(r)=8.04	Mu=8.65 As=11.36 As(r)=7.26	Mu=23.54 As=12.11 As(r)=7.26
Vu=-18.49	Vu=15.65	Vu=-19.72	Vu=13.81

V217/NE+7.28

B=0.30 H=0.60 L=10.61	
Mu=-31.35 As=19.35 As(r)=17.19	Mu=-25.04 As=14.20 As(r)=13.31
Mu=10.45 As=8.52 As(r)=5.45	Mu=26.39 As=19.23 As(r)=14.11
Vu=18.38	Vu=-14.14

V227/NE+7.28

B=0.25 H=0.60 L=5.96	
Mu=-12.07 As=7.96 As(r)=6.13	Mu=-6.47 As=5.97 As(r)=4.54
Mu=4.02 As=5.97 As(r)=4.54	Mu=10.66 As=5.97 As(r)=5.38
Vu=12.22	Vu=9.47

V228/NE+7.28

B=0.30 H=0.60 L=7.50		B=0.30 H=0.60 L=3.10		B=0.30 H=0.60 L=2.20	
Mu=-14.42 As=7.96 As(r)=7.32	Mu=-18.44 As=11.36 As(r)=9.52	Mu=-20.85 As=11.36 As(r)=10.87	Mu=-15.86 As=8.81 As(r)=8.10	Mu=-14.41 As=7.96 As(r)=7.31	Mu=-0.64 As=5.97 As(r)=5.45
Mu=5.84 As=10.58 As(r)=5.45	Mu=29.21 As=18.32 As(r)=15.84	Mu=6.15 As=8.52 As(r)=5.45	Mu=6.95 As=8.52 As(r)=5.45	Mu=4.17 As=18.32 As(r)=5.45	Mu=5.29 As=7.67 As(r)=5.45
Vu=19.03	Vu=-16.85	Vu=6.59	Vu=-5.14	Vu=6.16	Vu=4.86

V229/NE+7.28

B=0.30 H=0.60 L=1.65	
Mu=-12.53 As=5.97 As(r)=6.12	Mu=-0.00 As=5.97 As(r)=5.54
Mu=0.41 As=5.97 As(r)=5.54	Mu=1.60 As=5.97 As(r)=5.54
	Mu=3.73 As=5.97 As(r)=5.54
Vu=10.84	Vu=5.03

V230/NE+7.28

B=0.30 H=0.60 L=1.70		B=0.30 H=0.60 L=3.90	
Mu=-0.00 As=5.97 As(r)=5.45	Mu=-6.05 As=5.97 As(r)=5.45	Mu=-6.08 As=5.97 As(r)=5.45	Mu=-5.30 As=5.97 As(r)=5.45
Mu=2.60 As=5.97 As(r)=5.45	Mu=2.37 As=5.97 As(r)=5.45	Mu=1.60 As=5.97 As(r)=5.45	Mu=2.33 As=5.97 As(r)=5.45
		Mu=5.33 As=5.97 As(r)=5.45	Mu=2.40 As=5.97 As(r)=5.45
Vu=2.12	Vu=-7.25	Vu=-8.05	Vu=7.74

V231/NE+7.28

B=0.30 H=0.76 L=11.32	
Mu=-18.91 As=8.52 As(r)=7.03	Mu=-0.00 As=8.52 As(r)=7.03
Mu=3.38 As=10.58 As(r)=7.03	Mu=49.67 As=20.58 As(r)=20.20
	Mu=9.73 As=12.84 As(r)=10.13
Vu=-21.33	Vu=18.42

V306/NE+10.88

B=0.40 H=0.60 L=1.79		B=0.40 H=0.60 L=3.88		B=0.40 H=0.60 L=5.30	
Mu=-1.33 As=7.96 As(r)=7.26	Mu=-7.31 As=7.96 As(r)=7.26	Mu=-7.63 As=7.96 As(r)=7.26	Mu=-7.69 As=7.96 As(r)=7.26	Mu=-11.64 As=7.96 As(r)=7.26	Mu=-2.33 As=7.96 As(r)=7.26
Mu=0.00 As=7.96 As(r)=7.26	Mu=0.00 As=7.96 As(r)=7.26	Mu=1.46 As=7.96 As(r)=7.26	Mu=2.54 As=7.96 As(r)=7.26	Mu=1.54 As=7.96 As(r)=7.26	Mu=2.56 As=7.96 As(r)=7.26
				Mu=3.88 As=7.96 As(r)=7.26	Mu=3.45 As=7.96 As(r)=7.26
					Mu=5.67 As=7.96 As(r)=7.26
Vu=-2.77	Vu=-4.12	Vu=3.94	Vu=-2.64	Vu=-4.93	Vu=-0.91

B=0.40 H=0.60 L=5.20	
Mu=-2.17 As=7.96 As(r)=7.26	Mu=-10.83 As=7.96 As(r)=7.26
Mu=5.67 As=7.96 As(r)=7.26	Mu=5.04 As=7.96 As(r)=7.26
	Mu=3.61 As=7.96 As(r)=7.26
Vu=-0.91	Vu=4.65

V307/NE+10.88

B=0.30 H=0.60 L=1.72		B=0.30 H=0.60 L=4.25	
Mu=0.00 As=5.97 As(r)=5.45	Mu=-10.68 As=5.97 As(r)=5.45	Mu=1.25 As=5.97 As(r)=6.25	Mu=5.07 As=5.97 As(r)=5.45
Mu=1.98 As=5.97 As(r)=5.45	Mu=0.00 As=5.97 As(r)=5.45	Mu=2.14 As=5.97 As(r)=5.45	Mu=4.18 As=5.97 As(r)=5.45
			Mu=3.77 As=5.97 As(r)=5.45
Vu=-5.98	Vu=-6.99	Vu=7.39	Vu=-3.89

V308/NE+10.88

B=0.30 H=0.60 L=5.87	
Mu=1.39 As=5.97 As(r)=5.45	Mu=-4.40 As=5.97 As(r)=5.45
Mu=1.39 As=5.97 As(r)=5.45	Mu=6.79 As=5.97 As(r)=5.45
	Mu=1.47 As=5.97 As(r)=5.45
Vu=3.99	Vu=-5.04

V309/NE+10.88

B=0.30 H=0.60 L=1.30		B=0.30 H=0.60 L=3.65		B=0.30 H=0.60 L=1.45	
Mu=-0.02 As=-5.97 As(r)=5.45	Mu=-11.33 As=-7.38 As(r)=5.62	Mu=-12.72 As=-7.36 As(r)=6.33	Mu=-2.54 As=-5.97 As(r)=5.45	Mu=-0.82 As=-5.97 As(r)=5.45	Mu=-1.23 As=-5.97 As(r)=5.45
Mu=-0.93 As=-5.97 As(r)=5.45	Mu=0.00 As=-5.97 As(r)=5.45	Mu=-2.27 As=-5.97 As(r)=5.45	Mu=-4.24 As=-5.97 As(r)=5.45	Mu=-2.78 As=-5.97 As(r)=5.45	Mu=-2.54 As=-5.97 As(r)=5.45
Mu=-0.51 As=-5.97 As(r)=5.45	Mu=-0.73 As=-5.97 As(r)=5.45	Mu=-0.25 As=-5.97 As(r)=5.45	Mu=-4.58 As=-5.97 As(r)=5.45	Mu=-1.52 As=-5.97 As(r)=5.45	Mu=-2.25 As=-5.97 As(r)=5.45
Vu=-3.99	Vu=8.60	Vu=9.12	Vu=-4.58	Vu=1.52	Vu=-2.25

V310/NE+10.88

B=0.30 H=0.60 L=4.22		B=0.30 H=0.60 L=1.30	
Mu=-2.59 As=-5.97 As(r)=5.45	Mu=-4.78 As=-5.97 As(r)=5.45	Mu=-9.96 As=-5.97 As(r)=5.45	Mu=-0.00 As=-5.97 As(r)=5.45
Mu=-5.47 As=-5.97 As(r)=5.45	Mu=-2.14 As=-5.97 As(r)=5.45	Mu=-3.04 As=-5.97 As(r)=5.45	Mu=0.00 As=-5.97 As(r)=5.45
Mu=-1.99 As=-5.97 As(r)=5.45	Mu=-2.13 As=-5.97 As(r)=5.45	Mu=-9.42 As=-5.97 As(r)=5.45	Mu=-6.14 As=-5.97 As(r)=5.45
Vu=2.20	Vu=-3.37	Vu=9.42	Vu=-6.14

V312/NE+10.88

B=0.30 H=0.70 L=7.61		B=0.30 H=0.70 L=2.43		B=0.30 H=0.70 L=4.37	
Mu=-12.90 As=-7.95 As(r)=6.44	Mu=-6.27 As=-7.95 As(r)=6.44	Mu=-7.42 As=-7.95 As(r)=6.44	Mu=-4.52 As=-7.95 As(r)=6.44	Mu=-2.05 As=-7.95 As(r)=6.44	Mu=-10.26 As=-7.95 As(r)=6.44
Mu=-4.30 As=-7.95 As(r)=6.44	Mu=-12.28 As=-7.95 As(r)=6.44	Mu=-2.58 As=-7.95 As(r)=6.44	Mu=-1.48 As=-7.95 As(r)=6.44	Mu=-1.51 As=-7.95 As(r)=6.44	Mu=-3.42 As=-7.95 As(r)=6.44
Mu=-9.28 As=-7.95 As(r)=6.44	Mu=-8.50 As=-7.95 As(r)=6.44	Mu=-4.48 As=-7.95 As(r)=6.44	Mu=-2.82 As=-7.95 As(r)=6.44	Mu=-5.43 As=-7.95 As(r)=6.44	Mu=-7.00 As=-7.95 As(r)=6.44
Vu=9.28	Vu=-8.50	Vu=4.48	Vu=-2.82	Vu=5.43	Vu=-7.00

V321/NE+10.88

B=0.30 H=0.60 L=6.34	
Mu=-6.96 As=-5.97 As(r)=5.45	Mu=-12.68 As=-7.38 As(r)=6.42
Mu=-2.58 As=-5.97 As(r)=5.45	Mu=-8.18 As=-5.97 As(r)=5.45
Mu=-4.29 As=-5.97 As(r)=5.45	Mu=-4.29 As=-5.97 As(r)=5.45
Vu=-7.68	Vu=8.22

V410/CUB

B=0.30 H=0.70 L=5.60		B=0.30 H=0.70 L=5.55	
Mu=-2.79 As=-8.52 As(r)=6.44	Mu=-13.06 As=-8.52 As(r)=6.44	Mu=-15.84 As=-8.52 As(r)=6.65	Mu=-8.18 As=-8.52 As(r)=6.44
Mu=-2.61 As=-8.52 As(r)=6.44	Mu=-5.55 As=-8.52 As(r)=6.44	Mu=-4.35 As=-8.52 As(r)=6.44	Mu=-5.28 As=-8.52 As(r)=6.44
Mu=-8.78 As=-8.52 As(r)=6.44	Mu=-10.12 As=-8.52 As(r)=6.44	Mu=-11.67 As=-8.52 As(r)=6.44	Mu=-8.00 As=-8.52 As(r)=6.44
Vu=-8.78	Vu=10.12	Vu=-11.67	Vu=-8.00

V412/CUB

B=0.30 H=0.70 L=7.65		B=0.30 H=0.70 L=3.11	
Mu=-9.14 As=-8.52 As(r)=6.44	Mu=-16.74 As=-10.51 As(r)=7.02	Mu=-8.92 As=-8.52 As(r)=6.44	Mu=-1.78 As=-8.52 As(r)=6.44
Mu=-3.35 As=-8.52 As(r)=6.44	Mu=-10.61 As=-8.52 As(r)=6.44	Mu=-5.58 As=-8.52 As(r)=6.44	Mu=-2.97 As=-8.52 As(r)=6.44
Mu=-8.86 As=-8.52 As(r)=6.44	Mu=-11.30 As=-8.52 As(r)=6.44	Mu=-6.65 As=-8.52 As(r)=6.44	Mu=-3.14 As=-8.52 As(r)=6.44
Vu=-8.86	Vu=11.30	Vu=-6.65	Vu=-3.14

V413/CUB

B=0.30 H=0.70 L=1.90		B=0.30 H=0.70 L=3.06	
Mu=-0.00 As=-2.13 As(r)=6.44	Mu=-28.31 As=-12.36 As(r)=12.20	Mu=-16.99 As=-10.51 As(r)=7.15	Mu=-7.16 As=-8.52 As(r)=6.44
Mu=-2.82 As=-2.13 As(r)=6.44	Mu=-0.00 As=-8.52 As(r)=6.44	Mu=-5.66 As=-8.52 As(r)=6.44	Mu=-3.40 As=-8.52 As(r)=6.44
Mu=-12.68 As=-8.52 As(r)=6.44	Mu=-14.01 As=-8.52 As(r)=6.44	Mu=-7.54 As=-8.52 As(r)=6.44	Mu=-5.42 As=-8.52 As(r)=6.44
Vu=-12.68	Vu=-14.01	Vu=-7.54	Vu=-5.42

V411/CUB

B=0.30 H=0.70 L=5.65		B=0.30 H=0.70 L=2.03	
Mu=-3.96 As=-8.52 As(r)=6.44	Mu=-18.79 As=-10.51 As(r)=8.37	Mu=-22.59 As=-10.51 As(r)=9.61	Mu=-0.00 As=-8.52 As(r)=6.44
Mu=-3.96 As=-8.52 As(r)=6.44	Mu=-5.79 As=-8.52 As(r)=6.44	Mu=-4.52 As=-8.52 As(r)=6.44	Mu=-3.54 As=-8.52 As(r)=6.44
Mu=-6.60 As=-8.52 As(r)=6.44	Mu=-11.94 As=-8.52 As(r)=6.44	Mu=-14.28 As=-8.52 As(r)=6.44	Mu=-7.97 As=-8.52 As(r)=6.44
Vu=-6.60	Vu=11.94	Vu=-14.28	Vu=-7.97

VTC03/NE+0.08

B=0.20 H=0.60 L=3.90			B=0.20 H=0.60 L=5.40			B=0.20 H=0.60 L=5.40		
MU=-0.14 As =3.87 As(r)=3.70	MU=-2.72 As =3.87 As(r)=3.70	MU=-4.45 As =3.87 As(r)=3.70	MU=-6.97 As =3.87 As(r)=3.70	MU=-6.62 As =3.87 As(r)=3.70	MU=-6.15 As =3.87 As(r)=3.70			
MU=0.54 As =3.87 As(r)=3.70	MU=5.06 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70	MU=3.01 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70	MU=2.34 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70
Vu=5.20	Vu=-6.61	Vu=-5.58	Vu=6.45	Vu=-6.10	Vu=5.93			

B=0.20 H=0.60 L=5.35			B=0.20 H=0.60 L=4.82		
MU=-6.67 As =3.87 As(r)=3.70	MU=-4.48 As =3.87 As(r)=3.70	MU=-3.15 As =3.87 As(r)=3.70	MU=-0.00 As =3.87 As(r)=3.70		
MU=0.00 As =3.87 As(r)=3.70	MU=4.00 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70	MU=6.89 As =3.87 As(r)=3.70	MU=0.00 As =3.87 As(r)=3.70
Vu=-6.67	Vu=5.88	Vu=-6.60	Vu=5.48		

VTC04/NE+0.08

B=0.15 H=0.50 L=3.90			B=0.15 H=0.50 L=5.40			B=0.15 H=0.50 L=5.40		
MU=-0.00 As =2.58 As(r)=2.28	MU=-4.88 As =3.87 As(r)=2.91	MU=-4.80 As =3.87 As(r)=2.87	MU=-4.61 As =3.87 As(r)=2.75	MU=-4.68 As =3.87 As(r)=2.79	MU=-6.96 As =5.97 As(r)=4.23			
MU=0.46 As =2.58 As(r)=2.28	MU=2.09 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=3.53 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=2.42 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28
Vu=3.04	Vu=-5.77	Vu=6.14	Vu=-6.07	Vu=5.68	Vu=-6.52			

B=0.15 H=0.50 L=5.35		
MU=-6.75 As =5.97 As(r)=4.10	MU=-0.00 As =2.58 As(r)=2.28	
MU=0.00 As =2.58 As(r)=2.28	MU=5.44 As =3.98 As(r)=3.58	MU=1.47 As =2.58 As(r)=2.28
Vu=7.58	Vu=-4.51	

VTC05/NE+0.08

B=0.15 H=0.50 L=1.65		
MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28	
MU=0.28 As =2.58 As(r)=2.28	MU=1.05 As =2.58 As(r)=2.28	MU=0.28 As =2.58 As(r)=2.28
Vu=1.86	Vu=-1.86	

VTC06/NE+0.08

B=0.15 H=0.50 L=1.65			B=0.15 H=0.50 L=3.90			B=0.15 H=0.50 L=5.40		
MU=-0.00 As =2.58 As(r)=2.28	MU=-1.45 As =2.58 As(r)=2.28	MU=-1.33 As =2.58 As(r)=2.28	MU=-4.50 As =4.94 As(r)=2.68	MU=-4.34 As =4.94 As(r)=2.58	MU=-4.73 As =4.94 As(r)=2.82			
MU=0.14 As =2.58 As(r)=2.28	MU=0.11 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=1.38 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28	MU=3.71 As =2.58 As(r)=2.28	MU=0.00 As =2.58 As(r)=2.28
Vu=0.91	Vu=-2.82	Vu=3.60	Vu=-5.22	Vu=6.03	Vu=-6.18			

B=0.15 H=0.50 L=5.40		B=0.15 H=0.50 L=5.35	
Mu=-4.82 As=4.94 As(r)=2.88	Mu=-6.93 As=4.94 As(r)=4.21	Mu=-6.71 As=4.94 As(r)=4.07	Mu=-0.00 As=2.58 As(r)=2.28
Mu=0.00 As=2.58 As(r)=2.28	Mu=2.36 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=5.46 As=3.98 As(r)=3.59
Vu=5.71	Vu=-6.49	Vu=7.57	Vu=-4.52

VTC07/NE+0.08

B=0.15 H=0.50 L=5.40		B=0.15 H=0.50 L=5.35		B=0.15 H=0.50 L=5.35	
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-6.10 As=3.98 As(r)=3.68	Mu=-6.38 As=3.98 As(r)=3.86	Mu=-6.42 As=3.98 As(r)=3.88	Mu=-6.14 As=3.98 As(r)=3.71	Mu=-0.00 As=2.58 As(r)=2.28
Mu=0.96 As=3.98 As(r)=2.28	Mu=5.67 As=3.98 As(r)=3.65	Mu=0.00 As=3.98 As(r)=2.28	Mu=1.69 As=3.98 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=5.66 As=3.98 As(r)=3.67
Vu=4.79	Vu=-7.41	Vu=6.04	Vu=-6.05	Vu=7.43	Vu=-4.66

VTC08/NE+0.08

B=0.20 H=0.60 L=5.40		B=0.20 H=0.60 L=5.40		B=0.20 H=0.60 L=5.30	
Mu=-0.00 As=3.98 As(r)=3.70	Mu=-6.79 As=3.98 As(r)=3.70	Mu=-6.97 As=3.98 As(r)=3.70	Mu=-4.19 As=3.98 As(r)=3.70	Mu=-4.18 As=3.98 As(r)=3.70	Mu=-5.93 As=3.98 As(r)=3.70
Mu=0.93 As=3.98 As(r)=3.70	Mu=5.31 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=2.65 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=2.88 As=3.98 As(r)=3.70
Vu=4.67	Vu=-7.53	Vu=6.62	Vu=-5.59	Vu=5.66	Vu=-6.32

B=0.20 H=0.60 L=4.92	
Mu=-5.78 As=3.98 As(r)=3.70	Mu=-0.00 As=3.98 As(r)=3.70
Mu=0.00 As=3.98 As(r)=3.70	Mu=4.37 As=3.98 As(r)=3.70
Vu=6.91	Vu=-4.21

VT 110/NE+3.68

B=0.15 H=0.50 L=1.50		B=0.15 H=0.50 L=1.15		B=0.15 H=0.50 L=2.20	
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-0.14 As=2.58 As(r)=2.28	Mu=-0.34 As=2.58 As(r)=2.28	Mu=-1.14 As=2.58 As(r)=2.28	Mu=-0.90 As=2.58 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28
Mu=0.17 As=2.58 As(r)=2.28	Mu=0.75 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=1.24 As=2.58 As(r)=2.28
Vu=1.74	Vu=-2.16	Vu=0.80	Vu=-2.19	Vu=3.38	Vu=-2.34

VT105/NE+3.68

B=0.20 H=0.60 L=1.65		B=0.20 H=0.60 L=3.90		B=0.20 H=0.60 L=5.40	
Mu=-0.00 As=3.98 As(r)=3.70	Mu=-0.89 As=3.98 As(r)=3.70	Mu=-0.82 As=3.98 As(r)=3.70	Mu=-2.43 As=3.98 As(r)=3.70	Mu=-2.35 As=3.98 As(r)=3.70	Mu=-3.16 As=3.98 As(r)=3.70
Mu=0.07 As=3.98 As(r)=3.70	Mu=0.03 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=0.84 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=1.98 As=3.98 As(r)=3.70
Vu=0.49	Vu=-1.66	Vu=2.12	Vu=-2.95	Vu=3.36	Vu=-3.66

B=0.20 H=0.60 L=5.40			B=0.20 H=0.60 L=5.35			B=0.20 H=0.60 L=5.37		
Mu=-3.17 As=3.98 As(r)=3.70	Mu=-2.53 As=3.98 As(r)=3.70	Mu=-2.56 As=3.98 As(r)=3.70	Mu=-3.91 As=3.98 As(r)=3.70	Mu=-3.80 As=3.98 As(r)=3.70	Mu=-0.00 As=3.98 As(r)=3.70			
Mu=0.00 As=3.98 As(r)=3.70	Mu=1.89 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=1.41 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=3.06 As=3.98 As(r)=3.70	Mu=0.54 As=3.98 As(r)=3.70
Vu=3.63	Vu=-3.39	Vu=3.23	Vu=-3.73	Vu=4.30	Vu=-2.68			

VT106/NE+3.68

B=0.15 H=0.50 L=5.40			B=0.15 H=0.50 L=5.40			B=0.15 H=0.50 L=5.35		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-6.19 As=4.94 As(r)=3.74	Mu=-6.45 As=4.94 As(r)=3.91	Mu=-6.34 As=4.94 As(r)=3.83	Mu=-6.08 As=4.94 As(r)=3.67	Mu=-0.00 As=2.58 As(r)=2.28			
Mu=0.96 As=4.94 As(r)=2.28	Mu=5.62 As=4.94 As(r)=3.62	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=1.84 As=4.94 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=5.52 As=4.94 As(r)=3.55	Mu=0.95 As=4.94 As(r)=2.28
Vu=4.78	Vu=-7.43	Vu=6.12	Vu=-6.08	Vu=7.36	Vu=-4.73			

VT107/NE+3.68

B=0.15 H=0.50 L=5.40			B=0.15 H=0.50 L=5.40		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-8.21 As=5.68 As(r)=5.04	Mu=-8.21 As=5.68 As(r)=5.04	Mu=-0.00 As=2.58 As(r)=2.28		
Mu=0.88 As=3.98 As(r)=2.28	Mu=4.58 As=3.98 As(r)=3.09	Mu=0.00 As=3.98 As(r)=2.28	Mu=0.00 As=3.98 As(r)=2.28	Mu=4.58 As=3.98 As(r)=3.09	Mu=0.88 As=3.98 As(r)=2.28
Vu=4.42	Vu=-7.79	Vu=7.79	Vu=-4.42		

VT108/NE+3.68

B=0.15 H=0.50 L=2.95		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28	
Mu=0.99 As=3.98 As(r)=2.28	Mu=4.65 As=3.98 As(r)=2.77	Mu=0.99 As=3.98 As(r)=2.28
Vu=4.96	Vu=-4.96	

VT109/NE+3.68

B=0.20 H=0.60 L=5.40			B=0.20 H=0.60 L=5.40			B=0.20 H=0.60 L=5.35		
Mu=-0.00 As=3.87 As(r)=3.70	Mu=-6.81 As=3.87 As(r)=3.70	Mu=-6.99 As=3.87 As(r)=3.70	Mu=-4.13 As=3.87 As(r)=3.70	Mu=-4.12 As=3.87 As(r)=3.70	Mu=-6.45 As=3.87 As(r)=3.70			
Mu=0.93 As=3.87 As(r)=3.70	Mu=5.30 As=3.87 As(r)=3.70	Mu=0.00 As=3.87 As(r)=3.70	Mu=0.00 As=3.87 As(r)=3.70	Mu=2.68 As=3.87 As(r)=3.70	Mu=0.00 As=3.87 As(r)=3.70	Mu=0.00 As=3.87 As(r)=3.70	Mu=2.80 As=3.87 As(r)=3.70	Mu=0.00 As=3.87 As(r)=3.70
Vu=4.67	Vu=-7.54	Vu=6.63	Vu=-5.57	Vu=5.61	Vu=-6.48			

B=0.20 H=0.60 L=5.12		
Mu=-6.31 As=3.87 As(r)=3.70	Mu=-0.00 As=3.87 As(r)=3.70	
Mu=0.00 As=3.87 As(r)=3.70	Mu=4.69 As=3.87 As(r)=3.70	Mu=0.88 As=3.87 As(r)=3.70
Vu=7.19	Vu=-4.38	

VT111/NE+3.68

B=0.20 H=0.42 L=3.90		
Mu=-0.00 As=3.87 As(r)=2.44	Mu=-0.10 As=3.87 As(r)=2.44	
Mu=2231.40 As=11.81 As(r)=8.96	Mu=16904.13 As=15.06 As(r)=14.93	Mu=2906.00 As=11.81 As(r)=8.96
Vu=14875.98	Vu=-14530.02	

VT 110/NE+3.68

B=0.15 H=0.50 L=1.50			B=0.15 H=0.50 L=1.15			B=0.15 H=0.50 L=2.20		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-0.14 As=2.58 As(r)=2.28		Mu=-0.34 As=2.58 As(r)=2.28	Mu=-1.14 As=2.58 As(r)=2.28		Mu=-0.90 As=2.58 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28	
Mu=0.17 As=2.58 As(r)=2.28	Mu=0.75 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=0.00 As=2.58 As(r)=2.28	Mu=1.24 As=2.58 As(r)=2.28	Mu=0.23 As=2.58 As(r)=2.28
Vu=1.74	Vu=-2.16		Vu=0.80	Vu=-2.19		Vu=3.38	Vu=-2.34	

V229/NE+7.28

B=0.25 H=0.60 L=1.65		
Mu=-1.67 As=5.97 As(r)=4.62	Mu=-0.76 As=5.97 As(r)=4.62	
Mu=0.48 As=5.97 As(r)=4.62	Mu=1.88 As=5.97 As(r)=4.62	Mu=2.06 As=5.97 As(r)=4.62
Vu=4.67	Vu=-3.07	

VT204/NE+7.28

B=0.20 H=0.60 L=1.65			B=0.20 H=0.60 L=3.90			B=0.20 H=0.60 L=5.40		
Mu=-0.00 As=3.98 As(r)=3.70	Mu=-1.33 As=3.98 As(r)=3.70		Mu=-1.22 As=3.98 As(r)=3.70	Mu=-4.79 As=3.98 As(r)=3.70		Mu=-4.60 As=3.98 As(r)=3.70	Mu=-3.90 As=3.98 As(r)=3.70	
Mu=0.15 As=3.98 As(r)=3.70	Mu=0.17 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=1.29 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=3.98 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70
Vu=0.97	Vu=-2.76		Vu=3.49	Vu=-5.32		Vu=6.23	Vu=-5.97	

B=0.20 H=0.60 L=2.29			B=0.20 H=0.60 L=2.61		
Mu=-4.27 As=3.98 As(r)=3.70	Mu=-0.76 As=3.98 As(r)=3.70		Mu=-0.42 As=3.98 As(r)=3.70	Mu=-0.00 As=3.98 As(r)=3.70	
Mu=0.00 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70	Mu=1.97 As=3.98 As(r)=3.70	Mu=0.52 As=3.98 As(r)=3.70
Vu=4.12	Vu=-1.05		Vu=3.31	Vu=-2.59	

VT205/NE+7.10

B=0.20 H=0.50 L=1.50			B=0.20 H=0.50 L=1.15			B=0.20 H=0.50 L=2.20		
Mu=0.00 As=5.97 As(r)=3.04	Mu=-12.54 As=5.97 As(r)=2.80		Mu=-12.39 As=5.97 As(r)=2.69	Mu=-0.58 As=5.97 As(r)=3.04		Mu=0.00 As=5.97 As(r)=3.04	Mu=0.00 As=5.97 As(r)=3.04	
Mu=0.00 As=3.87 As(r)=3.04	Mu=0.00 As=3.87 As(r)=3.04	Mu=0.00 As=3.87 As(r)=3.04	Mu=0.00 As=3.87 As(r)=3.04	Mu=0.00 As=3.87 As(r)=3.04	Mu=0.00 As=3.87 As(r)=3.04	Mu=1.73 As=3.87 As(r)=3.04	Mu=3.87 As=3.87 As(r)=3.04	Mu=0.45 As=3.87 As(r)=3.04
Vu=0.00	Vu=-11.29		Vu=12.31	Vu=8.22		Vu=3.33	Vu=4.50	

VT206/NE+7.28

B=0.15 H=0.50 L=5.40			B=0.15 H=0.50 L=2.29			B=0.15 H=0.50 L=2.81		
Mu=-0.00 As=2.58 As(r)=2.28	Mu=-8.64 As=6.34 As(r)=5.33		Mu=-9.28 As=6.34 As(r)=5.76	Mu=-0.81 As=2.58 As(r)=2.28		Mu=-0.08 As=2.58 As(r)=2.28	Mu=-0.00 As=2.58 As(r)=2.28	
Mu=1.39 As=5.68 As(r)=2.78	Mu=8.26 As=5.68 As(r)=5.43	Mu=0.00 As=5.68 As(r)=2.28	Mu=0.00 As=5.68 As(r)=2.28	Mu=0.00 As=5.68 As(r)=2.28	Mu=0.00 As=5.68 As(r)=2.28	Mu=0.00 As=5.68 As(r)=2.28	Mu=3.60 As=5.68 As(r)=2.28	Mu=0.85 As=5.68 As(r)=2.28
Vu=6.95	Vu=-10.66		Vu=7.43	Vu=-0.03		Vu=4.91	Vu=-4.25	

VT207/NE+7.28

B=0.15 H=0.50 L=2.81		B=0.15 H=0.50 L=1.38	
MU=-0.00 As =2.58 As(r)=2.28	MU=-2.38 As =2.58 As(r)=2.28	MU=-2.61 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28
Mu=0.70 As =3.98 As(r)=2.28	Mu=2.38 As =3.98 As(r)=2.28	Mu=0.00 As =3.98 As(r)=2.28	Mu=0.00 As =3.98 As(r)=2.28
Vu=3.49	Vu=-5.68	Vu=4.18	Vu=-0.32

VT208/NE+7.28

B=0.15 H=0.50 L=3.28		B=0.15 H=0.50 L=2.81	
MU=-0.00 As =2.58 As(r)=2.28	MU=-3.82 As =2.58 As(r)=2.28	MU=-3.90 As =2.58 As(r)=2.31	MU=-0.00 As =2.58 As(r)=2.28
Mu=0.60 As =2.58 As(r)=2.28	Mu=2.77 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=1.57 As =2.58 As(r)=2.28
Vu=4.00	Vu=-6.69	Vu=6.18	Vu=-2.98

VT209/NE+7.28

B=0.15 H=0.50 L=5.18		B=0.15 H=0.50 L=2.81	
MU=-0.00 As =2.58 As(r)=2.28	MU=-8.12 As =6.34 As(r)=4.99	MU=-8.49 As =6.34 As(r)=5.24	MU=-0.00 As =3.98 As(r)=2.28
Mu=1.13 As =4.94 As(r)=2.46	Mu=7.44 As =4.94 As(r)=4.86	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =4.94 As(r)=2.28
Vu=6.66	Vu=-10.23	Vu=7.71	Vu=-1.45

VT210/NE+7.28

B=0.20 H=0.42 L=3.90	
Mu=0.00 As =3.87 As(r)=2.44	Mu=0.10 As =3.87 As(r)=2.44
Mu=1505.31 As =11.61 As(r)=8.81	Mu=16523.38 As =15.05 As(r)=14.68
Vu=15053.07	Vu=-14352.93

V311/NE+10.88

B=0.40 H=0.60 L=7.30		B=0.40 H=0.60 L=2.95	
MU=-0.00 As =7.96 As(r)=7.39	MU=-17.24 As =11.94 As(r)=8.43	MU=-18.50 As =11.94 As(r)=9.06	MU=-0.26 As =7.96 As(r)=7.39
Mu=3.00 As =7.96 As(r)=7.39	Mu=16.19 As =9.95 As(r)=8.45	Mu=0.00 As =7.96 As(r)=7.39	Mu=0.00 As =8.73 As(r)=7.39
Vu=10.00	Vu=-15.55	Vu=11.35	Vu=1.02

VT310/NE+10.88

B=0.15 H=0.50 L=2.20		B=0.15 H=0.50 L=2.88	
MU=-0.26 As =2.58 As(r)=2.28	MU=-1.85 As =2.58 As(r)=2.28	MU=-1.61 As =2.58 As(r)=2.28	MU=-5.62 As =3.98 As(r)=3.43
Mu=0.05 As =2.58 As(r)=2.28	Mu=0.88 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=1.00 As =2.58 As(r)=2.28
Vu=2.21	Vu=-3.44	Vu=3.35	Vu=-5.29

VT311/NE+10.88

B=0.15 H=0.50 L=3.02		B=0.15 H=0.50 L=1.39		B=0.15 H=0.50 L=2.25	
Mu=-0.32 As =2.58 As(r)=2.28	Mu=-2.29 As =2.58 As(r)=2.28	Mu=-0.84 As =2.58 As(r)=2.28	Mu=-3.29 As =2.58 As(r)=2.28	Mu=-2.42 As =2.58 As(r)=2.28	Mu=-1.30 As =2.58 As(r)=2.28
Mu=0.00 As =2.58 As(r)=2.28	Mu=2.34 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.07 As =2.58 As(r)=2.28
Vu=-3.53		Vu=4.62		Vu=-3.10	

VT414/CUB1

B=0.15 H=0.50 L=5.62			B=0.15 H=0.50 L=3.77		
Mu=-0.00 As =3.98 As(r)=2.28	Mu=-6.14 As =6.34 As(r)=3.70	Mu=-6.39 As =6.34 As(r)=3.87	Mu=-0.00 As =3.98 As(r)=2.28	Mu=-0.00 As =3.98 As(r)=2.28	Mu=-0.00 As =3.98 As(r)=2.28
Mu=1.08 As =4.94 As(r)=2.28	Mu=5.37 As =4.94 As(r)=3.48	Mu=0.00 As =2.79 As(r)=2.28	Mu=0.00 As =4.09 As(r)=2.28	Mu=0.64 As =4.94 As(r)=2.28	Mu=0.58 As =2.58 As(r)=2.28
Vu=4.34			Vu=5.62		

VT415/CUB1

B=0.15 H=0.50 L=6.62	
Mu=-0.00 As =2.58 As(r)=2.28	Mu=-0.00 As =2.58 As(r)=2.28
Mu=1.67 As =5.68 As(r)=3.39	Mu=12.78 As =9.31 As(r)=8.21
Vu=6.67	

VT416/CUB1

B=0.15 H=0.50 L=6.62	
Mu=-0.00 As =2.58 As(r)=2.28	Mu=-0.00 As =2.58 As(r)=2.28
Mu=1.67 As =5.68 As(r)=3.39	Mu=12.78 As =9.31 As(r)=8.21
Vu=6.67	



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Reactions

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
11	31:CIM	-13.237	1.42E+3	-63.039	0.000	0.000	0.000
	32:CIMX1	70.265	1.07E+3	-14.879	0.000	0.000	0.000
	33:CIMX2	-73.825	1.01E+3	-29.696	0.000	0.000	0.000
	34:CIMX3	61.468	927.818	-42.953	0.000	0.000	0.000
	35:CIMX4	-82.623	867.316	-57.770	0.000	0.000	0.000
	36:CIMX5	30.097	1.21E+3	12.688	0.000	0.000	0.000
	37:CIMX6	-13.130	1.19E+3	8.243	0.000	0.000	0.000
	38:CIMX7	0.772	742.867	-80.892	0.000	0.000	0.000
	39:CIMX8	-46.572	722.988	-85.760	0.000	0.000	0.000
	40:CIMX9	63.207	1.52E+3	-41.594	0.000	0.000	0.000
	41:CIMX10	54.409	1.38E+3	-69.668	0.000	0.000	0.000
	42:CIMX11	-80.884	1.46E+3	-56.410	0.000	0.000	0.000
	43:CIMX12	-89.682	1.32E+3	-84.484	0.000	0.000	0.000
	44:CIMX13	23.039	1.67E+3	-14.026	0.000	0.000	0.000
	45:CIMX14	-6.286	1.2E+3	-107.606	0.000	0.000	0.000
	46:CIMX15	-20.188	1.65E+3	-18.471	0.000	0.000	0.000
	47:CIMX16	-49.514	1.18E+3	-112.051	0.000	0.000	0.000
12	31:CIM	-3.376	660.416	-19.727	0.000	0.000	0.000
	32:CIMX1	21.421	464.518	7.196	0.000	0.000	0.000
	33:CIMX2	-25.537	400.593	-15.025	0.000	0.000	0.000
	34:CIMX3	18.990	438.746	-7.283	0.000	0.000	0.000
	35:CIMX4	-27.969	374.821	-29.504	0.000	0.000	0.000
	36:CIMX5	7.822	472.212	16.312	0.000	0.000	0.000
	37:CIMX6	-6.266	453.035	9.646	0.000	0.000	0.000
	38:CIMX7	-0.282	386.304	-31.954	0.000	0.000	0.000
	39:CIMX8	-15.711	365.301	-39.255	0.000	0.000	0.000
	40:CIMX9	21.319	705.265	-1.376	0.000	0.000	0.000
	41:CIMX10	18.887	679.492	-15.856	0.000	0.000	0.000
	42:CIMX11	-25.640	641.340	-23.597	0.000	0.000	0.000
	43:CIMX12	-28.071	615.568	-38.077	0.000	0.000	0.000
	44:CIMX13	7.720	712.959	7.739	0.000	0.000	0.000
	45:CIMX14	-0.384	627.051	-40.527	0.000	0.000	0.000
	46:CIMX15	-6.368	693.781	1.073	0.000	0.000	0.000
	47:CIMX16	-14.472	607.874	-47.193	0.000	0.000	0.000
15	31:CIM	8.230	1.15E+3	-72.312	0.000	0.000	0.000
	32:CIMX1	44.498	947.034	-41.549	0.000	0.000	0.000
	33:CIMX2	-22.102	833.019	-50.553	0.000	0.000	0.000
	34:CIMX3	34.248	884.812	-60.323	0.000	0.000	0.000
	35:CIMX4	-32.353	770.796	-69.327	0.000	0.000	0.000
	36:CIMX5	33.147	979.722	-22.798	0.000	0.000	0.000
	37:CIMX6	13.167	945.517	-25.499	0.000	0.000	0.000
	38:CIMX7	-1.021	772.314	-85.378	0.000	0.000	0.000
	39:CIMX8	-22.904	734.852	-88.336	0.000	0.000	0.000
	40:CIMX9	46.655	1.24E+3	-58.423	0.000	0.000	0.000



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Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	41:CIMX10	36.405	1.18E+3	-77.197	0.000	0.000	0.000
	42:CIMX11	-19.945	1.13E+3	-67.427	0.000	0.000	0.000
	43:CIMX12	-30.196	1.07E+3	-86.201	0.000	0.000	0.000
	44:CIMX13	35.304	1.28E+3	-39.671	0.000	0.000	0.000
	45:CIMX14	1.136	1.07E+3	-102.251	0.000	0.000	0.000
	46:CIMX15	15.324	1.24E+3	-42.372	0.000	0.000	0.000
	47:CIMX16	-18.844	1.03E+3	-104.952	0.000	0.000	0.000
16	31:CIM	-2.572	778.183	2.938	0.000	0.000	0.000
	32:CIMX1	18.761	590.962	13.723	0.000	0.000	0.000
	33:CIMX2	-18.977	517.276	-6.192	0.000	0.000	0.000
	34:CIMX3	13.399	583.495	0.788	0.000	0.000	0.000
	35:CIMX4	-24.339	509.810	-19.128	0.000	0.000	0.000
	36:CIMX5	11.809	573.882	21.844	0.000	0.000	0.000
	37:CIMX6	0.488	551.777	15.870	0.000	0.000	0.000
	38:CIMX7	-6.066	548.995	-21.274	0.000	0.000	0.000
	39:CIMX8	-18.465	524.784	-27.818	0.000	0.000	0.000
	40:CIMX9	18.978	818.759	19.364	0.000	0.000	0.000
	41:CIMX10	13.615	811.292	6.428	0.000	0.000	0.000
	42:CIMX11	-18.760	745.073	-0.552	0.000	0.000	0.000
	43:CIMX12	-24.123	737.607	-13.488	0.000	0.000	0.000
	44:CIMX13	12.026	801.679	27.485	0.000	0.000	0.000
	45:CIMX14	-5.849	776.792	-15.634	0.000	0.000	0.000
	46:CIMX15	0.704	779.574	21.510	0.000	0.000	0.000
	47:CIMX16	-17.171	754.686	-21.609	0.000	0.000	0.000
17	31:CIM	-11.905	1.47E+3	100.791	0.000	0.000	0.000
	32:CIMX1	36.969	1.2E+3	98.793	0.000	0.000	0.000
	33:CIMX2	-49.052	1.13E+3	78.841	0.000	0.000	0.000
	34:CIMX3	32.465	1.12E+3	58.090	0.000	0.000	0.000
	35:CIMX4	-53.556	1.05E+3	38.138	0.000	0.000	0.000
	36:CIMX5	12.117	1.27E+3	139.296	0.000	0.000	0.000
	37:CIMX6	-13.689	1.25E+3	133.311	0.000	0.000	0.000
	38:CIMX7	-2.898	1E+3	3.620	0.000	0.000	0.000
	39:CIMX8	-31.162	980.003	-2.936	0.000	0.000	0.000
	40:CIMX9	33.358	1.54E+3	131.119	0.000	0.000	0.000
	41:CIMX10	28.854	1.46E+3	90.416	0.000	0.000	0.000
	42:CIMX11	-52.663	1.47E+3	111.167	0.000	0.000	0.000
	43:CIMX12	-57.167	1.39E+3	70.464	0.000	0.000	0.000
	44:CIMX13	8.506	1.61E+3	171.622	0.000	0.000	0.000
	45:CIMX14	-6.509	1.34E+3	35.946	0.000	0.000	0.000
	46:CIMX15	-17.300	1.59E+3	165.637	0.000	0.000	0.000
	47:CIMX16	-32.315	1.32E+3	29.960	0.000	0.000	0.000
18	31:CIM	-13.483	317.095	18.038	0.000	0.000	0.000
	32:CIMX1	10.470	330.993	33.997	0.000	0.000	0.000
	33:CIMX2	-29.649	264.381	8.657	0.000	0.000	0.000



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		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	34:CIMX3	8.310	316.278	17.255	0.000	0.000	0.000
	35:CIMX4	-31.809	249.666	-8.086	0.000	0.000	0.000
	36:CIMX5	-1.051	324.846	44.660	0.000	0.000	0.000
	37:CIMX6	-13.087	304.863	37.058	0.000	0.000	0.000
	38:CIMX7	-8.252	275.796	-11.147	0.000	0.000	0.000
	39:CIMX8	-21.434	253.909	-19.473	0.000	0.000	0.000
	40:CIMX9	7.657	357.759	39.079	0.000	0.000	0.000
	41:CIMX10	5.496	343.044	22.337	0.000	0.000	0.000
	42:CIMX11	-32.462	291.147	13.739	0.000	0.000	0.000
	43:CIMX12	-34.623	276.432	-3.004	0.000	0.000	0.000
	44:CIMX13	-3.865	351.612	49.742	0.000	0.000	0.000
	45:CIMX14	-11.066	302.562	-6.065	0.000	0.000	0.000
	46:CIMX15	-15.901	331.629	42.140	0.000	0.000	0.000
	47:CIMX16	-23.101	282.578	-13.667	0.000	0.000	0.000
61	31:CIM	-5.324	1.03E+3	-32.696	0.000	0.000	0.000
	32:CIMX1	43.294	757.266	-9.114	0.000	0.000	0.000
	33:CIMX2	-40.127	719.166	-19.864	0.000	0.000	0.000
	34:CIMX3	30.164	737.215	-25.916	0.000	0.000	0.000
	35:CIMX4	-53.257	699.115	-36.666	0.000	0.000	0.000
	36:CIMX5	29.415	767.323	6.726	0.000	0.000	0.000
	37:CIMX6	4.389	755.893	3.501	0.000	0.000	0.000
	38:CIMX7	-14.351	700.488	-49.281	0.000	0.000	0.000
	39:CIMX8	-41.761	687.969	-52.813	0.000	0.000	0.000
	40:CIMX9	42.951	1.06E+3	-18.920	0.000	0.000	0.000
	41:CIMX10	29.821	1.04E+3	-35.722	0.000	0.000	0.000
	42:CIMX11	-40.470	1.02E+3	-29.670	0.000	0.000	0.000
	43:CIMX12	-53.600	1E+3	-46.472	0.000	0.000	0.000
	44:CIMX13	29.072	1.07E+3	-3.080	0.000	0.000	0.000
	45:CIMX14	-14.695	1E+3	-59.086	0.000	0.000	0.000
	46:CIMX15	4.046	1.06E+3	-6.305	0.000	0.000	0.000
	47:CIMX16	-39.721	992.189	-62.311	0.000	0.000	0.000
62	31:CIM	-4.281	1.38E+3	89.555	0.000	0.000	0.000
	32:CIMX1	47.939	1.14E+3	95.940	0.000	0.000	0.000
	33:CIMX2	-49.763	1.07E+3	67.327	0.000	0.000	0.000
	34:CIMX3	42.826	1.02E+3	49.895	0.000	0.000	0.000
	35:CIMX4	-54.876	945.799	21.282	0.000	0.000	0.000
	36:CIMX5	19.709	1.26E+3	139.644	0.000	0.000	0.000
	37:CIMX6	-9.602	1.24E+3	131.061	0.000	0.000	0.000
	38:CIMX7	2.665	853.141	-13.838	0.000	0.000	0.000
	39:CIMX8	-29.437	828.359	-23.240	0.000	0.000	0.000
	40:CIMX9	47.127	1.48E+3	126.884	0.000	0.000	0.000
	41:CIMX10	42.014	1.36E+3	80.839	0.000	0.000	0.000
	42:CIMX11	-50.575	1.41E+3	98.271	0.000	0.000	0.000
	43:CIMX12	-55.688	1.29E+3	52.227	0.000	0.000	0.000



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Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	44:CIMX13	18.897	1.6E+3	170.588	0.000	0.000	0.000
	45:CIMX14	1.853	1.19E+3	17.106	0.000	0.000	0.000
	46:CIMX15	-10.414	1.58E+3	162.005	0.000	0.000	0.000
	47:CIMX16	-27.458	1.17E+3	8.522	0.000	0.000	0.000
63	31:CIM	-1.602	1.24E+3	-55.642	0.000	0.000	0.000
	32:CIMX1	57.952	1E+3	-3.819	0.000	0.000	0.000
	33:CIMX2	-54.570	876.969	-25.747	0.000	0.000	0.000
	34:CIMX3	51.874	858.622	-38.958	0.000	0.000	0.000
	35:CIMX4	-60.649	733.904	-60.886	0.000	0.000	0.000
	36:CIMX5	25.661	1.12E+3	29.502	0.000	0.000	0.000
	37:CIMX6	-8.095	1.09E+3	22.923	0.000	0.000	0.000
	38:CIMX7	5.399	648.063	-87.628	0.000	0.000	0.000
	39:CIMX8	-31.572	607.084	-94.833	0.000	0.000	0.000
	40:CIMX9	57.699	1.37E+3	-27.109	0.000	0.000	0.000
	41:CIMX10	51.620	1.23E+3	-62.248	0.000	0.000	0.000
	42:CIMX11	-54.824	1.25E+3	-49.037	0.000	0.000	0.000
	43:CIMX12	-60.902	1.1E+3	-84.176	0.000	0.000	0.000
	44:CIMX13	25.407	1.49E+3	6.211	0.000	0.000	0.000
	45:CIMX14	5.145	1.02E+3	-110.918	0.000	0.000	0.000
	46:CIMX15	-8.349	1.46E+3	-0.367	0.000	0.000	0.000
	47:CIMX16	-28.611	980.459	-117.496	0.000	0.000	0.000
64	31:CIM	9.756	926.063	71.529	0.000	0.000	0.000
	32:CIMX1	55.130	852.932	103.353	0.000	0.000	0.000
	33:CIMX2	-34.740	704.891	45.653	0.000	0.000	0.000
	34:CIMX3	50.587	767.257	51.759	0.000	0.000	0.000
	35:CIMX4	-39.283	619.216	-5.940	0.000	0.000	0.000
	36:CIMX5	28.976	901.072	143.350	0.000	0.000	0.000
	37:CIMX6	2.014	856.660	126.040	0.000	0.000	0.000
	38:CIMX7	13.832	615.488	-28.628	0.000	0.000	0.000
	39:CIMX8	-15.696	566.846	-47.586	0.000	0.000	0.000
	40:CIMX9	56.962	1.04E+3	126.176	0.000	0.000	0.000
	41:CIMX10	52.419	957.246	74.582	0.000	0.000	0.000
	42:CIMX11	-32.908	894.880	68.476	0.000	0.000	0.000
	43:CIMX12	-37.451	809.205	16.883	0.000	0.000	0.000
	44:CIMX13	30.808	1.09E+3	166.173	0.000	0.000	0.000
	45:CIMX14	15.665	805.477	-5.805	0.000	0.000	0.000
	46:CIMX15	3.847	1.05E+3	148.863	0.000	0.000	0.000
	47:CIMX16	-11.296	761.065	-23.115	0.000	0.000	0.000
65	31:CIM	-5.561	1.53E+3	-34.647	0.000	0.000	0.000
	32:CIMX1	76.347	1.16E+3	11.186	0.000	0.000	0.000
	33:CIMX2	-72.675	1.02E+3	-20.921	0.000	0.000	0.000
	34:CIMX3	68.176	1.03E+3	-17.595	0.000	0.000	0.000
	35:CIMX4	-80.845	894.362	-49.702	0.000	0.000	0.000
	36:CIMX5	33.721	1.25E+3	33.526	0.000	0.000	0.000



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		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	37:CIMX6	-10.985	1.21E+3	23.894	0.000	0.000	0.000
	38:CIMX7	6.486	842.366	-62.410	0.000	0.000	0.000
	39:CIMX8	-42.478	796.682	-72.959	0.000	0.000	0.000
	40:CIMX9	73.035	1.66E+3	-4.203	0.000	0.000	0.000
	41:CIMX10	64.865	1.54E+3	-32.984	0.000	0.000	0.000
	42:CIMX11	-75.986	1.52E+3	-36.310	0.000	0.000	0.000
	43:CIMX12	-84.157	1.4E+3	-65.091	0.000	0.000	0.000
	44:CIMX13	30.410	1.75E+3	18.137	0.000	0.000	0.000
	45:CIMX14	3.175	1.34E+3	-77.799	0.000	0.000	0.000
	46:CIMX15	-14.297	1.71E+3	8.505	0.000	0.000	0.000
	47:CIMX16	-41.532	1.3E+3	-87.431	0.000	0.000	0.000
66	31:CIM	5.615	968.405	-20.216	0.000	0.000	0.000
	32:CIMX1	56.596	750.954	4.119	0.000	0.000	0.000
	33:CIMX2	-34.922	702.197	-19.946	0.000	0.000	0.000
	34:CIMX3	42.124	720.711	-17.631	0.000	0.000	0.000
	35:CIMX4	-49.393	671.954	-41.696	0.000	0.000	0.000
	36:CIMX5	41.448	769.172	21.072	0.000	0.000	0.000
	37:CIMX6	13.993	754.545	13.852	0.000	0.000	0.000
	38:CIMX7	-6.790	668.362	-51.429	0.000	0.000	0.000
	39:CIMX8	-36.860	652.342	-59.336	0.000	0.000	0.000
	40:CIMX9	58.609	1.01E+3	2.692	0.000	0.000	0.000
	41:CIMX10	44.137	977.662	-19.058	0.000	0.000	0.000
	42:CIMX11	-32.908	959.149	-21.373	0.000	0.000	0.000
	43:CIMX12	-47.380	928.906	-43.123	0.000	0.000	0.000
	44:CIMX13	43.461	1.03E+3	19.644	0.000	0.000	0.000
	45:CIMX14	-4.777	925.314	-52.856	0.000	0.000	0.000
	46:CIMX15	16.006	1.01E+3	12.425	0.000	0.000	0.000
	47:CIMX16	-32.232	910.687	-60.076	0.000	0.000	0.000
163	31:CIM	12.445	702.241	-24.946	0.000	0.000	0.000
	32:CIMX1	24.872	551.273	10.376	0.000	0.000	0.000
	33:CIMX2	-7.655	458.854	-17.155	0.000	0.000	0.000
	34:CIMX3	22.665	470.113	-11.226	0.000	0.000	0.000
	35:CIMX4	-9.862	377.695	-38.756	0.000	0.000	0.000
	36:CIMX5	16.061	613.613	25.942	0.000	0.000	0.000
	37:CIMX6	6.303	585.887	17.683	0.000	0.000	0.000
	38:CIMX7	8.707	343.080	-46.064	0.000	0.000	0.000
	39:CIMX8	-1.981	312.714	-55.109	0.000	0.000	0.000
	40:CIMX9	29.812	789.030	-0.380	0.000	0.000	0.000
	41:CIMX10	27.606	707.870	-21.982	0.000	0.000	0.000
	42:CIMX11	-2.715	696.612	-27.911	0.000	0.000	0.000
	43:CIMX12	-4.922	615.452	-49.512	0.000	0.000	0.000
	44:CIMX13	21.002	851.370	15.186	0.000	0.000	0.000
	45:CIMX14	13.647	580.838	-56.820	0.000	0.000	0.000
	46:CIMX15	11.244	823.645	6.927	0.000	0.000	0.000



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Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	47:CIMX16	3.889	553.112	-65.079	0.000	0.000	0.000
196	31:CIM	1.788	873.071	6.520	0.000	0.000	0.000
	32:CIMX1	14.576	694.088	27.653	0.000	0.000	0.000
	33:CIMX2	-11.510	604.888	4.121	0.000	0.000	0.000
	34:CIMX3	13.411	672.405	5.714	0.000	0.000	0.000
	35:CIMX4	-12.676	583.205	-17.818	0.000	0.000	0.000
	36:CIMX5	6.806	688.164	45.012	0.000	0.000	0.000
	37:CIMX6	-1.020	661.404	37.953	0.000	0.000	0.000
	38:CIMX7	2.920	615.889	-28.118	0.000	0.000	0.000
	39:CIMX8	-5.651	586.581	-35.850	0.000	0.000	0.000
	40:CIMX9	15.414	928.512	29.255	0.000	0.000	0.000
	41:CIMX10	14.249	906.830	7.316	0.000	0.000	0.000
	42:CIMX11	-10.672	839.312	5.723	0.000	0.000	0.000
	43:CIMX12	-11.838	817.629	-16.216	0.000	0.000	0.000
	44:CIMX13	7.644	922.588	46.614	0.000	0.000	0.000
	45:CIMX14	3.759	850.313	-26.516	0.000	0.000	0.000
	46:CIMX15	-0.182	895.828	39.555	0.000	0.000	0.000
	47:CIMX16	-4.067	823.553	-33.575	0.000	0.000	0.000
250	31:CIM	0.000	36.007	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	19.477	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	18.696	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	19.245	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	18.464	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	19.474	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	19.239	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	18.702	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	18.445	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	36.513	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	36.282	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	35.732	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	35.500	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	36.510	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	35.738	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	36.276	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	35.503	0.000	0.000	0.000	0.000
251	31:CIM	0.000	39.551	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	24.684	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	22.122	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	24.211	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	21.649	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	24.340	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	23.571	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	22.762	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	21.920	0.000	0.000	0.000	0.000



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Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	40:CIMX9	0.000	41.068	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	40.595	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	38.506	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	38.033	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	40.724	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	39.146	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	39.955	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	38.377	0.000	0.000	0.000	0.000
252	31:CIM	0.000	38.271	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	21.061	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	20.830	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	20.923	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	20.692	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	21.141	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	21.072	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	20.681	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	20.605	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	38.455	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	38.317	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	38.224	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	38.086	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	38.535	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	38.075	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	38.466	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	38.006	0.000	0.000	0.000	0.000
253	31:CIM	0.000	38.343	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	23.572	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	21.288	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	23.453	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	21.168	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	22.912	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	22.226	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	22.514	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	21.763	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	39.545	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	39.425	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	37.260	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	37.141	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	38.884	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	38.487	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	38.199	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	37.801	0.000	0.000	0.000	0.000
254	31:CIM	0.000	40.284	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	22.108	0.000	0.000	0.000	0.000



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Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	33:CIMX2	0.000	21.725	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	21.997	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	21.613	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	22.104	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	21.989	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	21.733	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	21.607	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	40.532	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	40.421	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	40.148	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	40.037	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	40.527	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	40.157	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	40.412	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	40.041	0.000	0.000	0.000	0.000
255	31:CIM	0.000	38.198	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	20.673	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	20.099	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	20.293	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	19.719	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	20.916	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	20.744	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	19.648	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	19.459	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	38.675	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	38.295	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	38.101	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	37.721	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	38.918	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	37.650	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	38.746	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	37.478	0.000	0.000	0.000	0.000
256	31:CIM	0.000	37.697	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	21.776	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	21.104	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	21.629	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	20.956	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	21.713	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	21.511	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	21.221	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	21.000	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	38.107	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	37.960	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	37.435	0.000	0.000	0.000	0.000



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Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	43:CIMX12	0.000	37.287	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	38.044	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	37.552	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	37.842	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	37.351	0.000	0.000	0.000	0.000
257	31:CIM	0.000	49.676	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	32.133	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	30.679	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	31.630	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	30.176	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	32.212	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	31.775	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	30.534	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	30.056	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	50.654	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	50.151	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	49.200	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	48.697	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	50.732	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	49.055	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	50.296	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	48.619	0.000	0.000	0.000	0.000
259	31:CIM	23.508	936.822	33.854	0.000	0.000	0.000
	32:CIMX1	32.362	799.102	46.840	0.000	0.000	0.000
	33:CIMX2	4.435	654.407	16.270	0.000	0.000	0.000
	34:CIMX3	29.964	728.146	22.614	0.000	0.000	0.000
	35:CIMX4	2.037	583.452	-7.956	0.000	0.000	0.000
	36:CIMX5	25.386	831.241	64.404	0.000	0.000	0.000
	37:CIMX6	17.008	787.833	55.233	0.000	0.000	0.000
	38:CIMX7	17.391	594.721	-16.349	0.000	0.000	0.000
	39:CIMX8	8.215	547.179	-26.393	0.000	0.000	0.000
	40:CIMX9	38.670	1.04E+3	61.252	0.000	0.000	0.000
	41:CIMX10	36.272	973.692	37.026	0.000	0.000	0.000
	42:CIMX11	10.744	899.953	30.681	0.000	0.000	0.000
	43:CIMX12	8.345	828.997	6.455	0.000	0.000	0.000
	44:CIMX13	31.694	1.08E+3	78.816	0.000	0.000	0.000
	45:CIMX14	23.699	840.267	-1.938	0.000	0.000	0.000
	46:CIMX15	23.316	1.03E+3	69.645	0.000	0.000	0.000
	47:CIMX16	15.321	796.858	-11.109	0.000	0.000	0.000
271	31:CIM	0.000	130.600	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	73.887	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	72.253	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	73.618	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	71.984	0.000	0.000	0.000	0.000



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Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	36:CIMX5	0.000	73.629	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	73.139	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	72.732	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	72.196	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	131.551	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	131.283	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	129.918	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	129.649	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	131.294	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	130.397	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	130.804	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	129.907	0.000	0.000	0.000	0.000
272	31:CIM	0.000	121.995	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	76.208	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	65.899	0.000	0.000	0.000	0.000
	34:CIMX3	0.000	75.646	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	65.337	0.000	0.000	0.000	0.000
	36:CIMX5	0.000	73.254	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	70.162	0.000	0.000	0.000	0.000
	38:CIMX7	0.000	71.383	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	67.996	0.000	0.000	0.000	0.000
	40:CIMX9	0.000	127.430	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	126.869	0.000	0.000	0.000	0.000
	42:CIMX11	0.000	117.121	0.000	0.000	0.000	0.000
	43:CIMX12	0.000	116.560	0.000	0.000	0.000	0.000
	44:CIMX13	0.000	124.477	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	122.606	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	121.384	0.000	0.000	0.000	0.000
	47:CIMX16	0.000	119.513	0.000	0.000	0.000	0.000



JARDÍN INFANTIL CAMPO VERDE.

MODULO C

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 18 abril de 2018

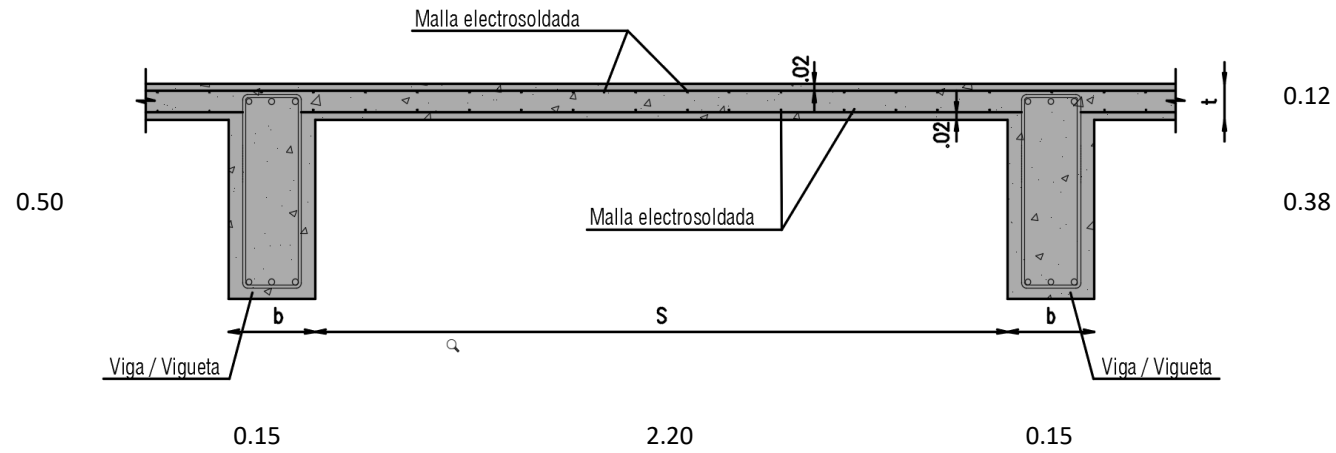
ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardin Infantil Campo Verde

Modulo C

CALCULO: JDH

PISO: Piso 1



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	58	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	346 Kg/m ²	245 Kg/m ²
C. VIVA	200 Kg/m ²	
C. TOTAL =		791 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1029 Kg/m ²
Factor de Carga, F.C.=		1.30

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1029 \times 2.35 = 2418.6 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	508.0	Kg/m ²	Material	(kg/cm ²)	
C. VIVA =	200.0	Kg/m ²	f'c =	280	b (cm) = 100
C. ULTIMA =	929.6	Kg/m ²	fy =	4200	d (cm) = 9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	449.93	0.062	0.07	0.0017	2.16
M+	321.38	0.044	0.07	0.0012	2.16

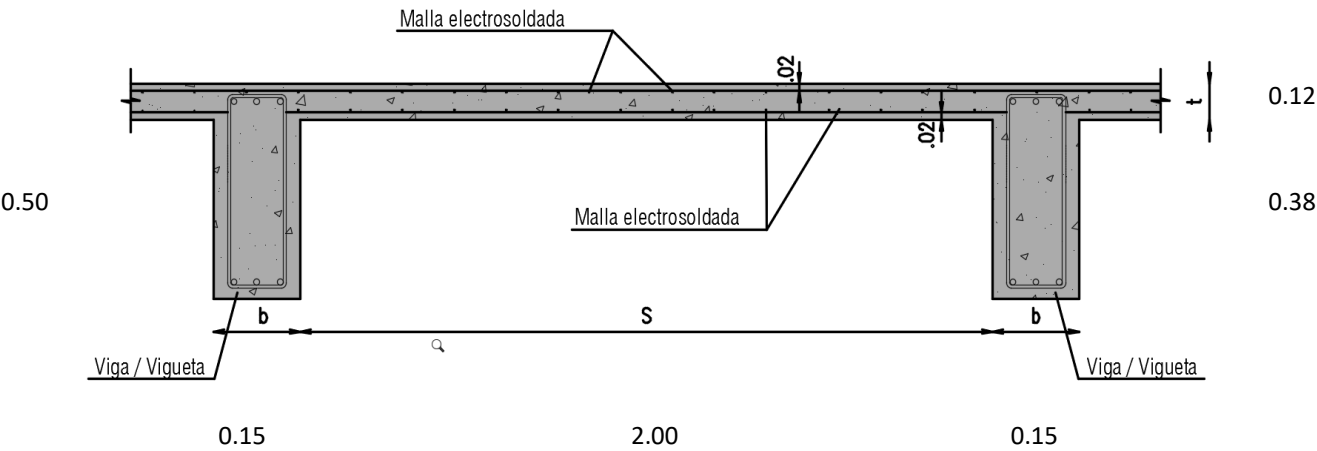
Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1022.56	5986.30	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde** **Modulo C** CALCULO: JDH

PISO: Piso 2



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	64	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		50
C. MUERTA	352 Kg/m ²	+ 245 Kg/m ²
C. VIVA	200 Kg/m ²	
C. TOTAL =		797 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1036 Kg/m ²
Factor de Carga, F.C.=		1.30

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:
 $q_u / \text{Vigueta} = 1036 \times 2.15 = 2228.3 \text{ Kg/m}$

DISEÑO DE LA LOSA			Materiales (kg/cm ²)		
C. MUERTA =	508.0	Kg/m ²	f'c =	280	b (cm) = 100
C. VIVA =	200.0	Kg/m ²	fy =	4200	d (cm) = 9
C. ULTIMA =	929.6	Kg/m ²			

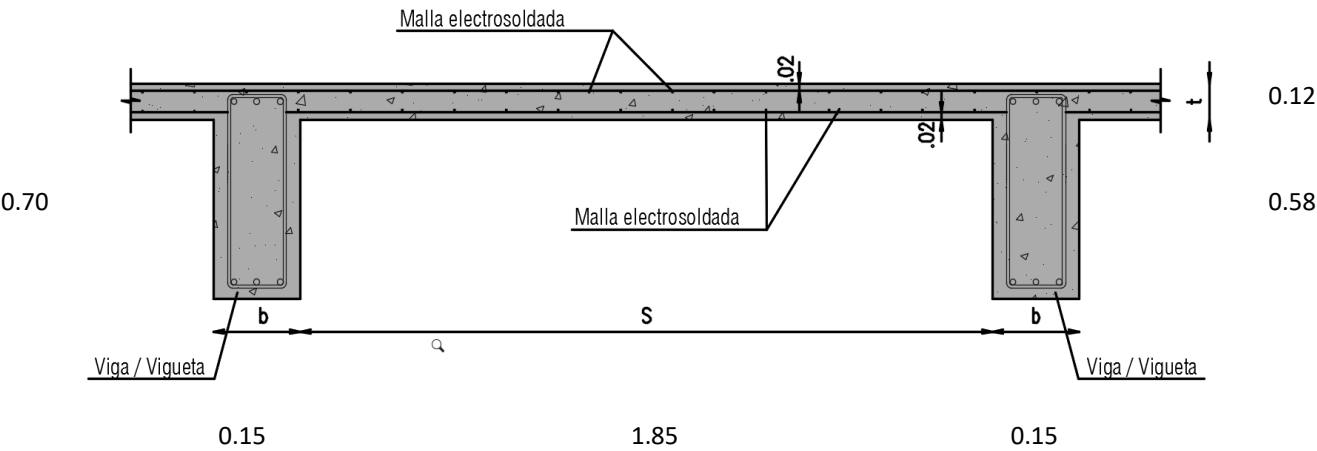
Diseño a Flexión					
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	371.84	0.051	0.07	0.0014	2.16
M+	265.60	0.036	0.07	0.0010	2.16

Chequeo Cortante		
v _u (kg/m)	φV _c (kg/m)	Check
929.60	5986.30	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **Jardin Infantil Campo Verde** **Modulo C** CALCULO: JDH

PISO: cubierta



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	104	
* CIELO RASO		25
* ACABADOS		170
* MUROS DIVISORIOS		0
C. MUERTA	392 Kg/m ²	+ 195 Kg/m ²
C. VIVA	180 Kg/m ²	
C. TOTAL =		767 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		992 Kg/m ²
Factor de Carga, F.C.=		1.29

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
 $q_u / \text{Vigueta} = 992 \times 2.00 = 1984.8 \text{ Kg/m}$

DISEÑO DE LA LOSA			Materiales (kg/cm ²)		
C. MUERTA =	458.0	Kg/m ²	f'c =	280	b (cm) = 100
C. VIVA =	180.0	Kg/m ²	fy =	4200	d (cm) = 9
C. ULTIMA =	837.6	Kg/m ²			

Diseño a Flexión					
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	286.67	0.039	0.07	0.0011	2.16
M+	204.76	0.028	0.07	0.0007	2.16

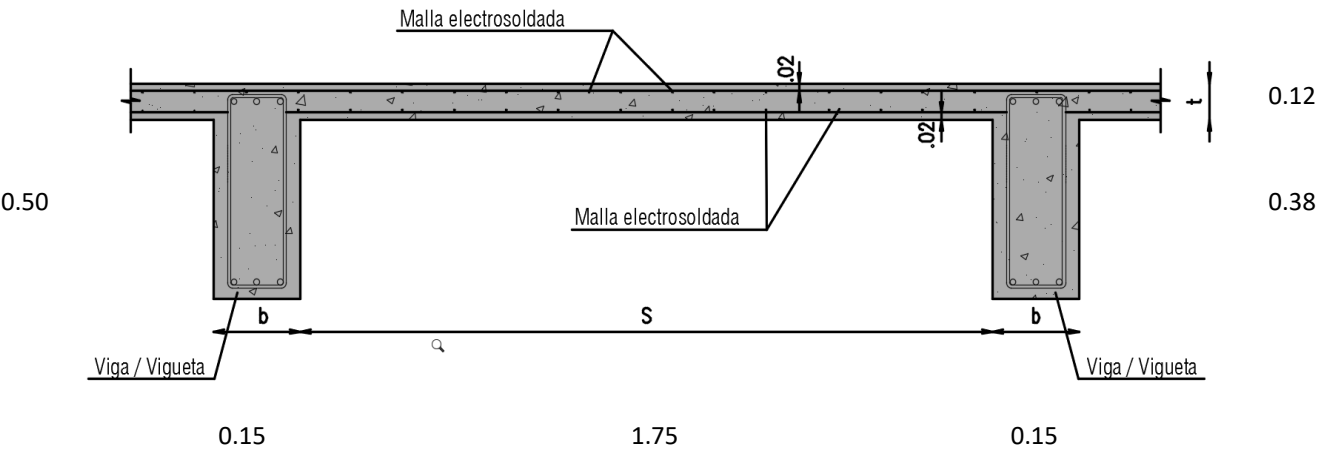
Chequeo Cortante		
v _u (kg/m)	φV _c (kg/m)	Check
774.78	5986.30	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardin Infantil Campo Verde

CALCULO: JDH

PISO: terraza verde no transitable



CARGAS	[Kg/m ²]	[Kg/m ²]
* PLACA	288	
* VIGUETAS	72	
* CIELO RASO		25
* ACABADOS		0
* TERRAZA VERDE		640
C. MUERTA	360 Kg/m ²	665 Kg/m ²
C. VIVA	180 Kg/m ²	
C. TOTAL =		1205 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =		1518 Kg/m ²
Factor de Carga, F.C.=		1.26

Nota: El peso propio de vigas lo calcula automaticamente el programa
El peso propio de muros de fachada se asigna por elemento

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1518 \times 1.90 = 2884.2 \text{ Kg/m}$

DISEÑO DE LA LOSA

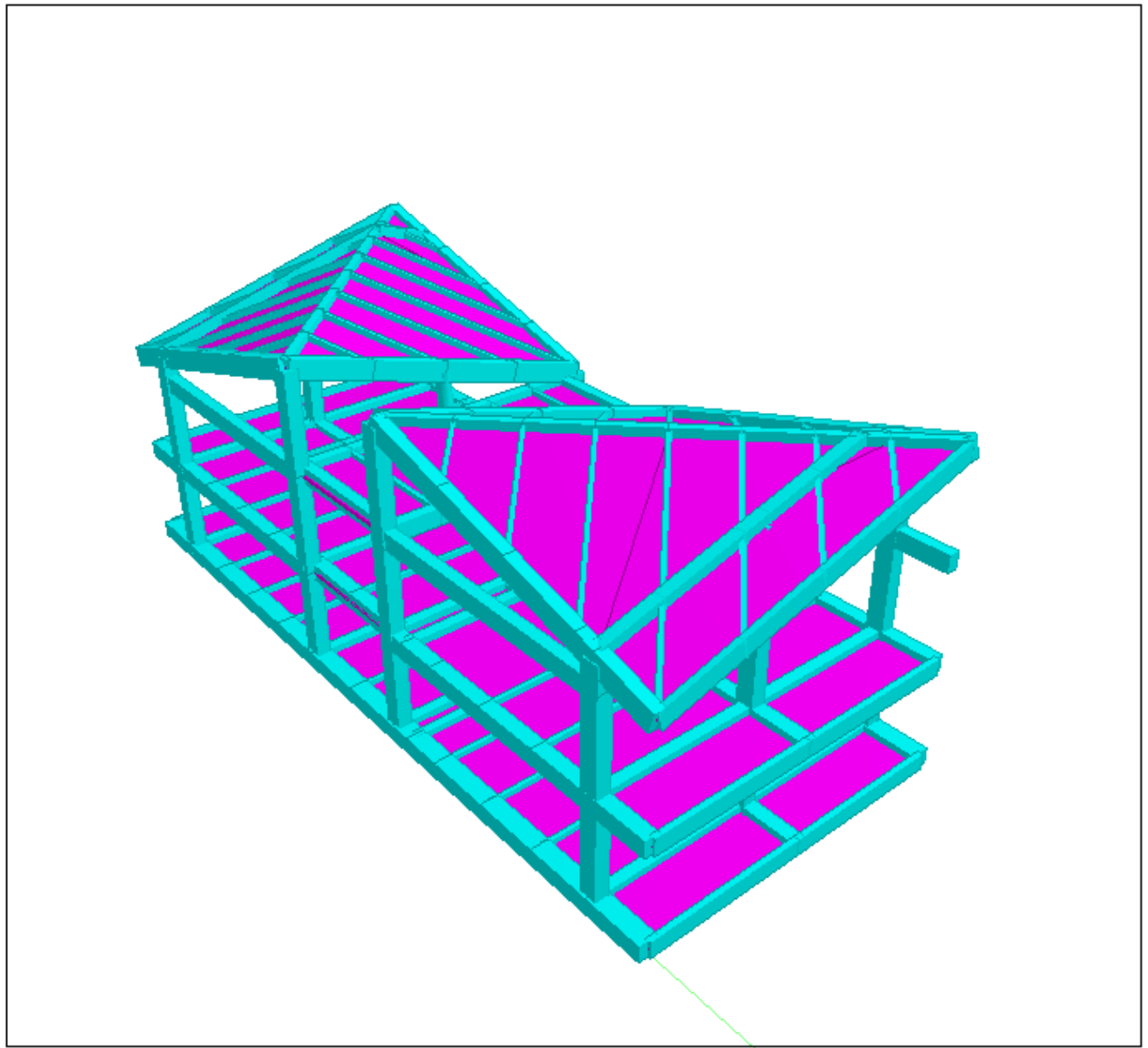
C. MUERTA =	928.0	Kg/m ²	Materiales	(kg/cm ²)	
C. VIVA =	180.0	Kg/m ²	f'c =	280	b (cm) = 100
C. ULTIMA =	1401.6	Kg/m ²	fy =	4200	d (cm) = 9

Diseño a Flexión

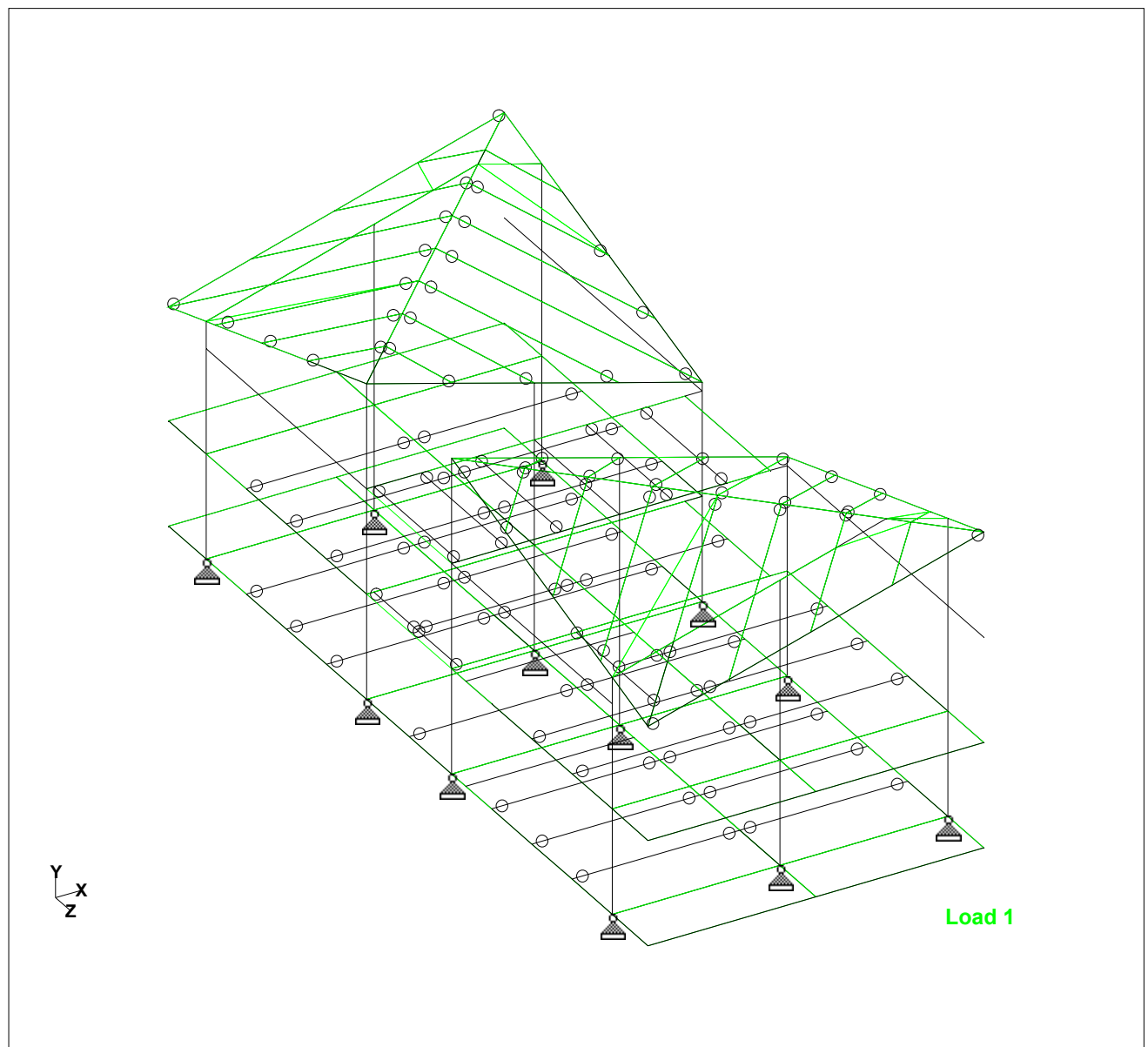
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	429.24	0.059	0.07	0.0016	2.16
M+	306.60	0.042	0.07	0.0011	2.16

Chequeo Cortante

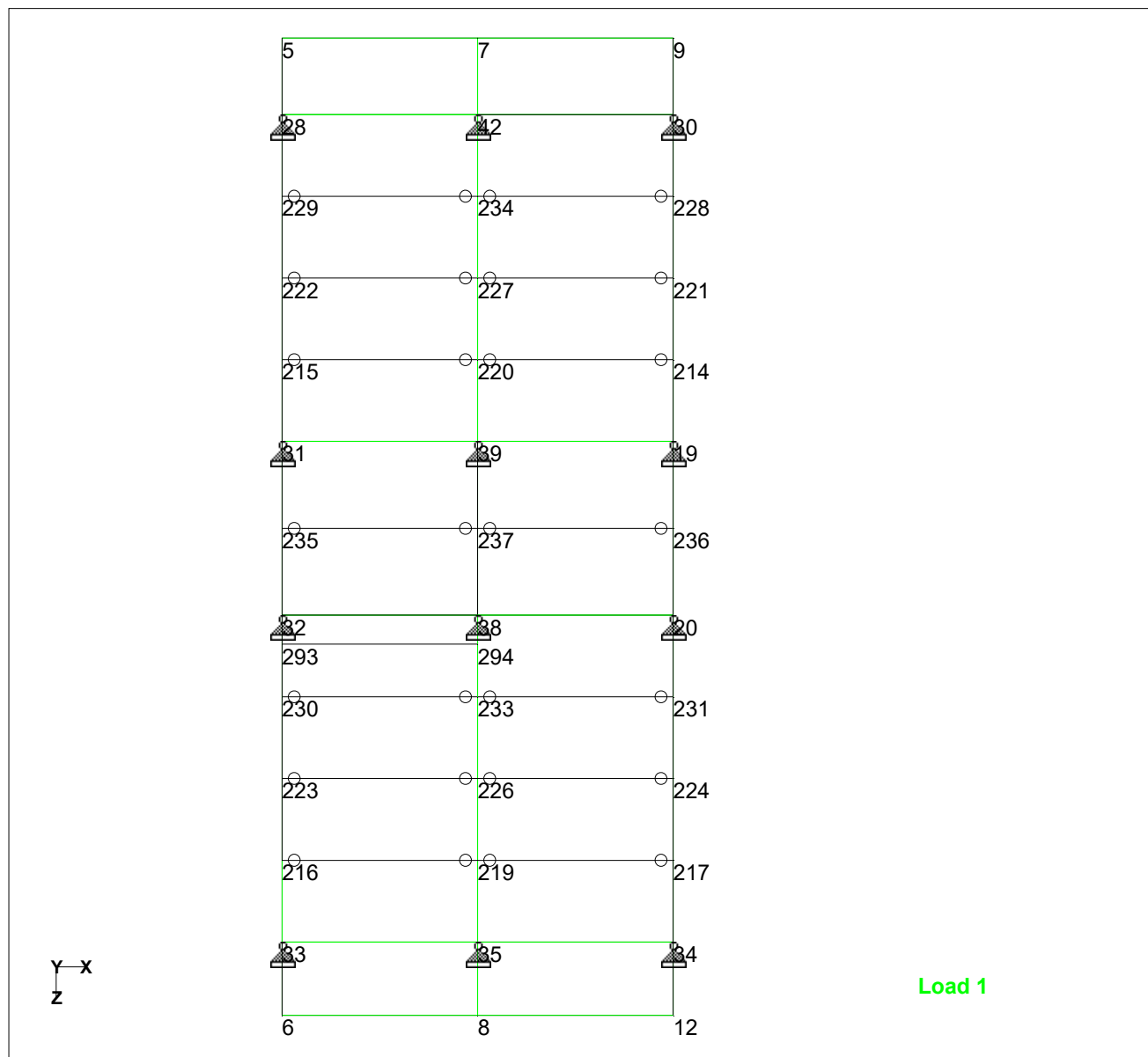
v _u (kg/m)	φV _c (kg/m)	Check
1226.40	5986.30	Ok



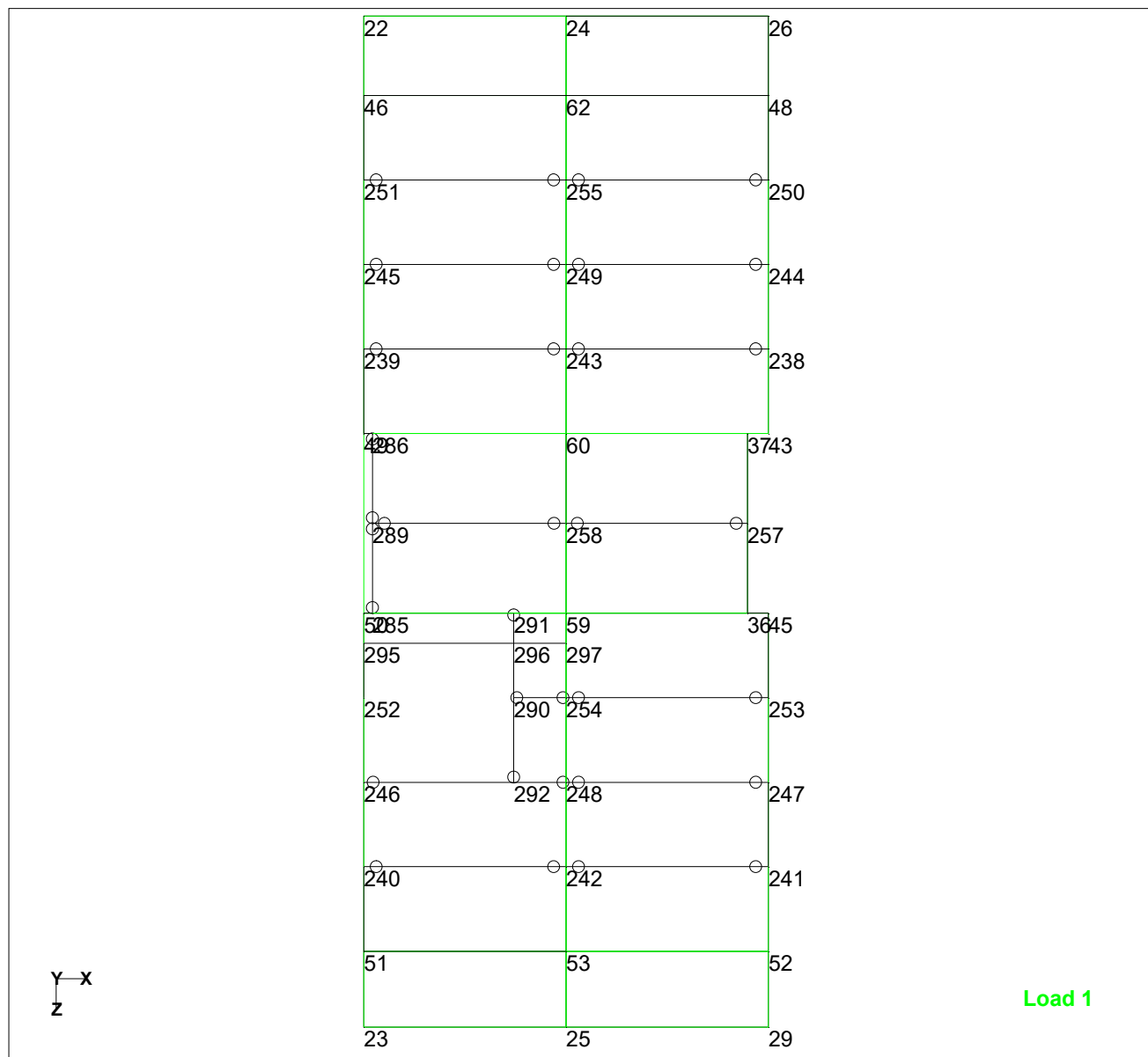
3D MODELO ESTRUCTURAL



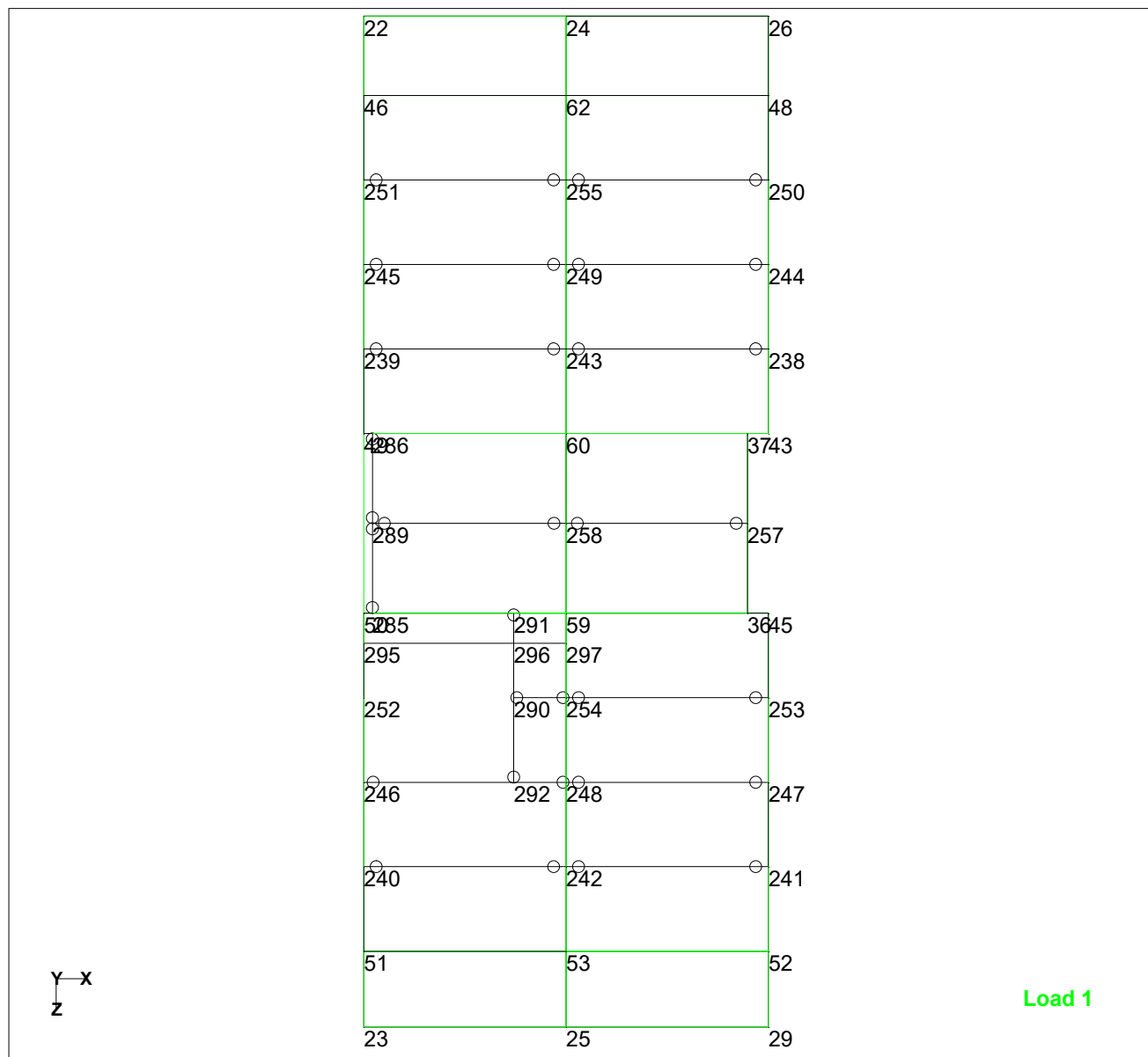
3D MODELO ANALITICO



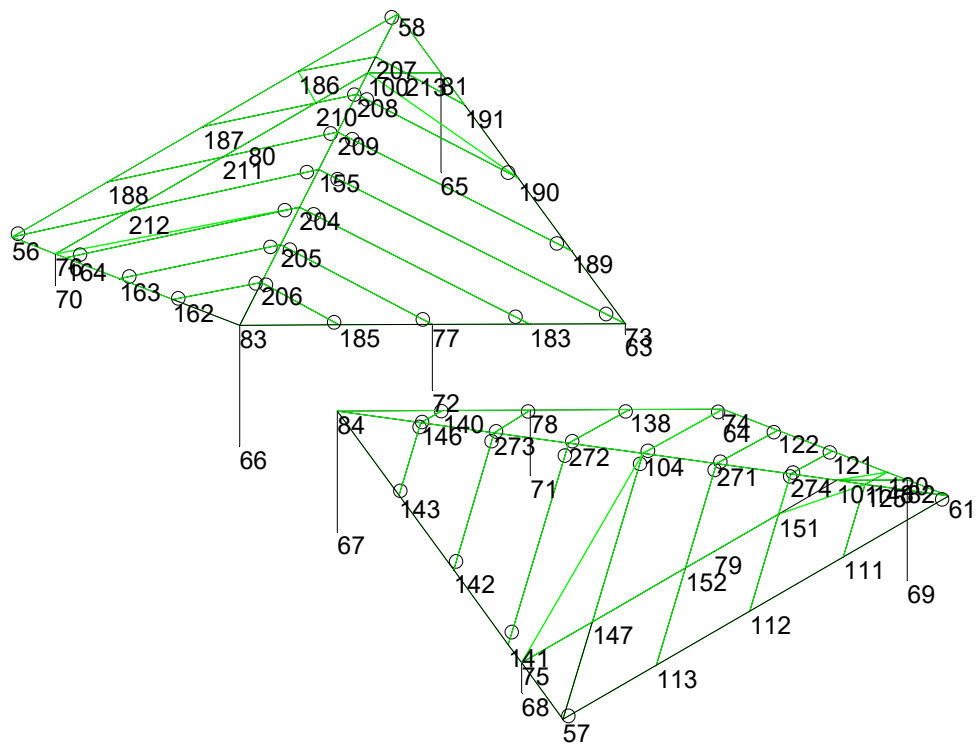
NODOS NE+0.15



NODOS NE+3.75

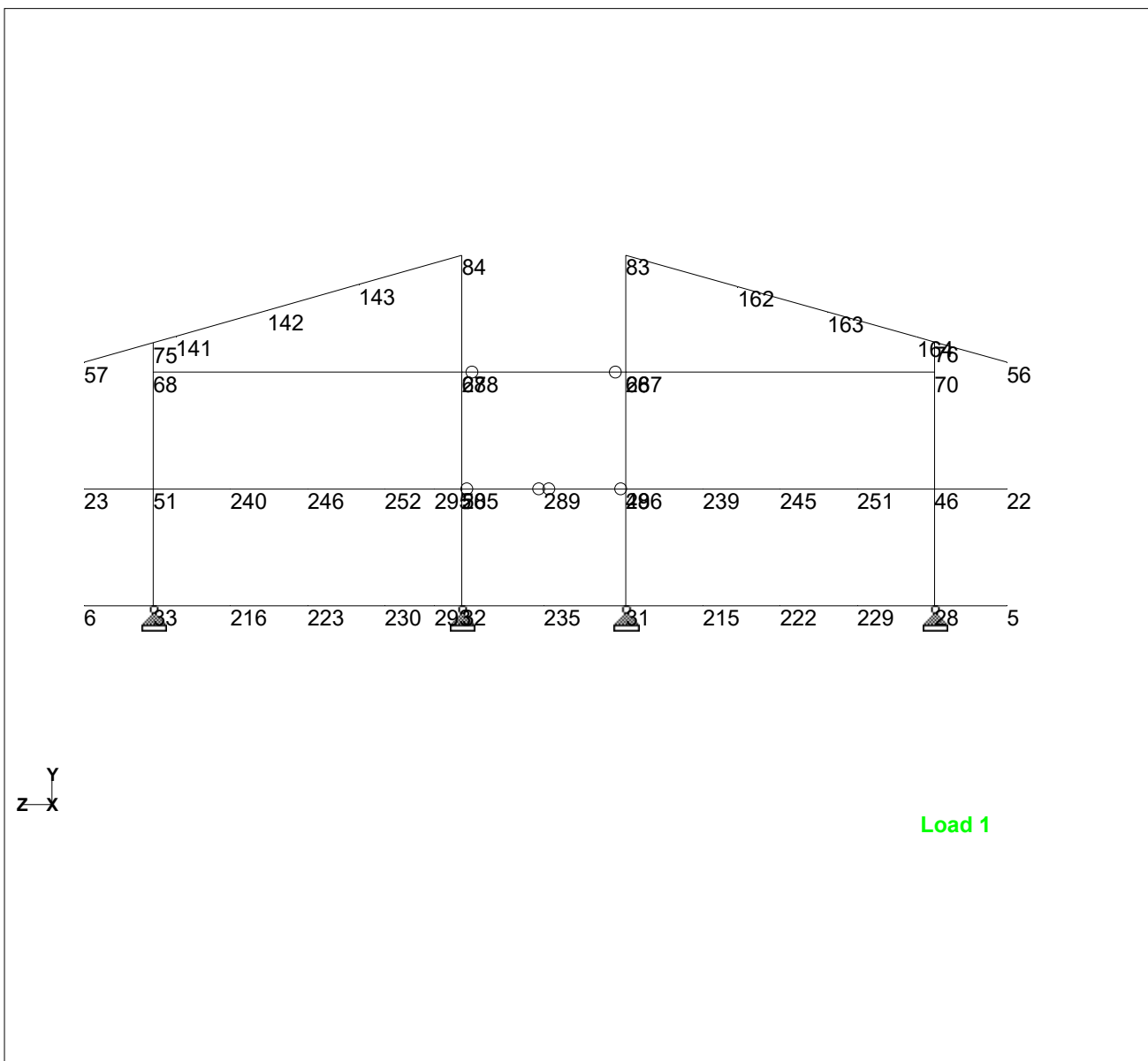


NODOS NE+7.35



Load 1

NODOS CUBIERTA



CORTE GENERAL

Nodes

Node	X (m)	Y (m)	Z (m)
5	-0.000	0.150	-26.550
6	-0.000	0.150	2.150
7	5.800	0.150	-26.550
8	5.800	0.150	2.150
9	11.600	0.150	-26.550
12	11.600	0.150	2.150
19	11.600	0.150	-14.700
20	11.600	0.150	-9.600
22	-0.000	3.750	-26.550
23	-0.000	3.750	2.150
24	5.800	3.750	-26.550
25	5.800	3.750	2.150
26	11.600	3.750	-26.550
28	-0.000	0.150	-24.300
29	11.600	3.750	2.150
30	11.600	0.150	-24.300
31	-0.000	0.150	-14.700
32	-0.000	0.150	-9.600
33	-0.000	0.150	0.000
34	11.600	0.150	0.000
35	5.800	0.150	0.000
36	11.000	3.750	-9.600
37	11.000	3.750	-14.700
38	5.800	0.150	-9.600
39	5.800	0.150	-14.700
42	5.800	0.150	-24.300
43	11.600	3.750	-14.700
44	11.600	7.350	-26.550
45	11.600	3.750	-9.600
46	-0.000	3.750	-24.300
47	11.600	7.350	2.150
48	11.600	3.750	-24.300
49	-0.000	3.750	-14.700
50	-0.000	3.750	-9.600
51	-0.000	3.750	0.000
52	11.600	3.750	0.000
53	5.800	3.750	0.000
54	11.000	7.350	-9.600
55	11.000	7.350	-14.700
56	-0.000	7.650	-26.550
57	-0.000	7.650	2.150
58	11.600	10.950	-26.550
59	5.800	3.750	-9.600
60	5.800	3.750	-14.700
61	11.600	10.950	2.150
62	5.800	3.750	-24.300
63	11.600	7.350	-14.700
64	11.600	7.350	-9.600
65	11.600	7.350	-24.300
66	-0.000	7.350	-14.700
67	-0.000	7.350	-9.600
68	-0.000	7.350	0.000
69	11.600	7.350	0.000
70	-0.000	7.350	-24.300

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
71	5.800	7.350	-9.600
72	5.800	7.350	-14.700
73	11.600	7.650	-14.700
74	11.600	7.650	-9.600
75	-0.000	8.254	0.000
76	-0.000	8.277	-24.300
77	5.800	9.300	-14.700
78	5.800	9.300	-9.600
79	5.800	9.904	0.000
80	5.800	9.927	-24.300
81	11.600	10.323	-24.300
82	11.600	10.346	0.000
83	-0.000	10.950	-14.700
84	-0.000	10.950	-9.600
100	9.397	10.950	-24.300
101	9.477	10.950	0.000
104	5.800	10.950	-3.725
111	8.430	10.048	2.150
112	5.620	9.249	2.150
113	2.810	8.449	2.150
120	11.600	10.049	-1.059
121	11.600	9.249	-3.906
122	11.600	8.450	-6.753
125	10.015	10.950	0.545
138	8.790	8.449	-9.600
140	3.170	10.048	-9.600
141	-0.000	8.450	-0.697
142	-0.000	9.249	-3.544
143	-0.000	10.049	-6.391
146	1.584	10.950	-7.994
147	2.123	8.858	0.000
148	10.554	10.644	0.000
151	7.730	10.453	0.000
152	4.924	9.655	0.000
155	5.800	10.950	-20.625
162	-0.000	9.981	-18.180
163	-0.000	9.204	-20.970
164	-0.000	8.427	-23.760
183	8.730	8.466	-14.700
185	2.990	10.099	-14.700
186	8.610	10.099	-26.550
187	5.740	9.283	-26.550
188	2.870	8.466	-26.550
189	11.600	8.427	-17.490
190	11.600	9.204	-20.280
191	11.600	9.981	-23.070
204	4.400	10.950	-19.195
205	3.000	10.950	-17.765
206	1.600	10.950	-16.334
207	10.000	10.950	-24.916
208	8.600	10.950	-23.485
209	7.200	10.950	-22.055
210	7.840	10.507	-24.300
211	5.037	9.710	-24.300

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
212	2.203	8.903	-24.300
213	10.534	10.627	-24.300
214	11.600	0.150	-17.100
215	-0.000	0.150	-17.100
216	-0.000	0.150	-2.400
217	11.600	0.150	-2.400
219	5.800	0.150	-2.400
220	5.800	0.150	-17.100
221	11.600	0.150	-19.500
222	-0.000	0.150	-19.500
223	-0.000	0.150	-4.800
224	11.600	0.150	-4.800
226	5.800	0.150	-4.800
227	5.800	0.150	-19.500
228	11.600	0.150	-21.900
229	-0.000	0.150	-21.900
230	-0.000	0.150	-7.200
231	11.600	0.150	-7.200
233	5.800	0.150	-7.200
234	5.800	0.150	-21.900
235	-0.000	0.150	-12.150
236	11.600	0.150	-12.150
237	5.800	0.150	-12.150
238	11.600	3.750	-17.100
239	-0.000	3.750	-17.100
240	-0.000	3.750	-2.400
241	11.600	3.750	-2.400
242	5.800	3.750	-2.400
243	5.800	3.750	-17.100
244	11.600	3.750	-19.500
245	-0.000	3.750	-19.500
246	-0.000	3.750	-4.800
247	11.600	3.750	-4.800
248	5.800	3.750	-4.800
249	5.800	3.750	-19.500
250	11.600	3.750	-21.900
251	-0.000	3.750	-21.900
252	-0.000	3.750	-7.200
253	11.600	3.750	-7.200
254	5.800	3.750	-7.200
255	5.800	3.750	-21.900
257	11.000	3.750	-12.150
258	5.800	3.750	-12.150
271	7.196	10.950	-2.311
272	4.386	10.950	-5.157
273	2.972	10.950	-6.589
274	8.601	10.950	-0.887
275	1.900	7.350	-14.700
276	1.900	7.350	-9.600
277	3.800	7.350	-14.700
278	3.800	7.350	-9.600
281	7.600	7.350	-14.700
282	7.600	7.350	-9.600
283	9.500	7.350	-14.700

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
284	9.500	7.350	-9.600
285	0.250	3.750	-9.600
286	0.250	3.750	-14.700
287	0.250	7.350	-14.700
288	0.250	7.350	-9.600
289	0.250	3.750	-12.150
290	4.300	3.750	-7.200
291	4.300	3.750	-9.600
292	4.300	3.750	-4.800
293	-0.000	0.150	-8.750
294	5.800	0.150	-8.750
295	-0.000	3.750	-8.750
296	4.300	3.750	-8.750
297	5.800	3.750	-8.750

Beams

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4	5	28	2.250	12	0
5	7	42	2.250	11	0
6	9	30	2.250	12	0
7	20	231	2.400	12	0
8	28	42	5.800	2	0
9	31	39	5.800	2	0
10	32	38	5.800	2	0
11	33	35	5.800	2	0
12	6	8	5.800	3	0
13	20	236	2.550	12	0
14	5	7	5.800	3	0
15	22	46	2.250	11	0
16	24	62	2.250	11	0
17	26	48	2.250	11	0
18	45	253	2.400	11	0
19	46	62	5.800	2	0
20	49	286	0.250	2	0
21	50	285	0.250	2	0
22	51	53	5.800	2	0
23	23	25	5.800	3	0
24	36	257	2.550	11	0
25	22	24	5.800	3	0
28	7	9	5.800	3	0
29	8	12	5.800	3	0
30	28	229	2.400	12	0
31	30	228	2.400	12	0
32	31	235	2.550	12	0
33	32	293	0.850	12	0
34	33	6	2.150	12	0
35	34	12	2.150	12	0
38	24	26	5.800	3	0
39	25	29	5.800	3	0
40	46	251	2.400	11	0
41	48	250	2.400	11	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
42	286	289	2.550	11	0
43	50	295	0.850	11	0
44	51	23	2.150	11	0
45	52	29	2.150	11	0
46	36	45	0.600	2	0
47	37	43	0.600	2	0
50	44	65	2.250	2	0
51	64	69	9.600	2	0
53	66	287	0.250	2	0
54	67	288	0.250	2	0
57	54	55	5.100	2	0
63	70	66	9.600	2	0
64	65	63	9.600	2	0
65	287	288	5.100	2	0
66	67	68	9.600	2	0
69	54	64	0.600	2	0
70	55	63	0.600	2	0
71	56	76	2.336	5	0
72	58	81	2.336	5	0
74	83	185	3.109	5	0
75	84	140	3.296	5	0
76	57	113	2.921	4	0
77	56	188	2.984	4	0
87	84	143	3.333	5	0
89	74	122	2.957	5	0
90	83	206	2.287	10	0
91	84	146	2.256	10	0
92	35	8	2.150	11	0
93	38	294	0.850	11	0
94	39	237	2.550	11	0
95	42	234	2.400	11	0
96	42	30	5.800	2	0
97	39	19	5.800	2	0
98	38	20	5.800	2	0
99	35	34	5.800	2	0
100	53	25	2.150	11	0
101	59	297	0.850	11	0
102	60	258	2.550	11	0
103	62	255	2.400	11	0
104	62	48	5.800	2	0
105	60	37	5.200	2	0
106	59	36	5.200	2	0
107	53	52	5.800	2	0
120	28	46	3.600	8	0
121	46	70	3.600	8	0
122	31	49	3.600	8	0
123	49	66	3.600	8	0
124	34	52	3.600	8	0
125	52	69	3.600	8	0
126	20	45	3.600	8	0
127	45	64	3.600	8	0
128	64	74	0.300	8	0
129	19	43	3.600	8	0
130	43	63	3.600	8	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
131	63	73	0.300	8	0
132	33	51	3.600	8	0
133	51	68	3.600	8	0
134	70	76	0.927	8	0
135	38	59	3.600	7	0
136	32	50	3.600	8	0
137	35	53	3.600	8	0
138	50	67	3.600	8	0
139	68	75	0.904	8	0
140	39	60	3.600	7	0
141	42	62	3.600	8	0
142	30	48	3.600	8	0
143	48	65	3.600	8	0
144	65	81	2.973	8	0
146	66	83	3.600	8	0
148	67	84	3.600	8	0
150	69	82	2.996	8	0
151	69	47	2.150	2	0
155	76	212	2.290	5	0
156	75	147	2.207	5	0
157	100	207	0.861	10	0
158	101	125	0.766	10	0
159	100	213	1.181	5	0
160	101	148	1.119	5	0
192	57	147	3.254	6	0
193	104	271	1.987	10	0
194	104	74	8.891	6	0
207	125	61	2.256	10	0
208	113	152	3.247	6	0
209	271	122	6.736	6	0
210	112	151	3.244	6	0
211	274	121	4.582	6	0
212	111	125	2.429	6	0
213	125	148	0.825	6	0
229	146	273	1.975	10	0
230	141	272	6.736	6	0
231	272	138	6.737	6	0
232	142	273	4.582	6	0
233	273	78	4.448	6	0
234	143	146	2.427	6	0
235	146	140	2.430	6	0
238	147	104	5.637	6	0
239	148	120	1.603	6	0
240	152	271	3.490	6	0
241	151	274	1.339	6	0
242	56	212	3.389	6	0
243	75	57	2.233	5	0
244	82	61	2.233	5	0
245	111	61	3.296	4	0
246	112	111	2.921	4	0
247	113	112	2.921	4	0
248	120	82	1.100	5	0
249	121	120	2.957	5	0
250	122	121	2.957	5	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
251	74	138	2.921	5	0
254	141	75	0.724	5	0
255	142	141	2.957	5	0
256	143	142	2.957	5	0
258	148	82	1.088	5	0
259	101	151	1.817	5	0
261	155	209	2.001	10	0
262	155	73	8.924	6	0
293	204	155	2.001	10	0
294	205	204	2.001	10	0
295	206	205	2.001	10	0
296	207	58	2.287	10	0
297	208	100	1.140	10	0
298	209	208	2.001	10	0
299	186	207	2.308	6	0
300	207	213	0.876	6	0
301	187	210	3.312	6	0
302	208	190	4.725	6	0
303	164	204	6.824	6	0
304	204	183	6.717	6	0
305	163	205	4.725	6	0
306	205	77	4.467	6	0
307	162	206	2.628	6	0
308	206	185	2.308	6	0
309	188	211	3.362	6	0
310	209	189	6.824	6	0
315	212	155	5.535	6	0
316	213	191	1.751	6	0
317	210	208	1.199	6	0
318	211	209	3.355	6	0
325	215	220	5.800	9	0
326	216	219	5.800	9	0
327	214	220	5.800	9	0
329	219	217	5.800	9	0
336	222	227	5.800	9	0
337	223	226	5.800	9	0
338	221	227	5.800	9	0
340	226	224	5.800	9	0
347	229	234	5.800	9	0
348	230	233	5.800	9	0
349	228	234	5.800	9	0
351	233	231	5.800	9	0
355	235	237	5.800	9	0
356	237	236	5.800	9	0
378	239	243	5.800	9	0
379	240	242	5.800	9	0
380	238	243	5.800	9	0
381	242	241	5.800	9	0
382	245	249	5.800	9	0
383	246	292	4.300	9	0
384	244	249	5.800	9	0
385	248	247	5.800	9	0
386	251	255	5.800	9	0
388	250	255	5.800	9	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
389	254	253	5.800	9	0
391	258	257	5.200	9	0
395	62	80	6.177	8	0
396	60	72	3.600	7	0
397	59	71	3.600	7	0
398	53	79	6.154	8	0
399	77	183	3.046	5	0
400	80	210	2.121	5	0
401	78	138	3.109	5	0
403	71	282	1.800	2	0
404	71	78	1.950	7	0
405	72	281	1.800	2	0
406	72	77	1.950	7	0
407	217	34	2.400	12	0
408	224	217	2.400	12	0
409	231	224	2.400	12	0
410	236	19	2.550	12	0
411	241	52	2.400	11	0
412	247	241	2.400	11	0
413	253	247	2.400	11	0
414	257	37	2.550	11	0
415	215	31	2.400	12	0
416	222	215	2.400	12	0
417	229	222	2.400	12	0
418	214	19	2.400	12	0
419	221	214	2.400	12	0
420	228	221	2.400	12	0
421	235	32	2.550	12	0
422	216	33	2.400	12	0
423	223	216	2.400	12	0
424	230	223	2.400	12	0
425	239	49	2.400	11	0
426	245	239	2.400	11	0
427	251	245	2.400	11	0
428	238	43	2.400	11	0
429	244	238	2.400	11	0
430	250	244	2.400	11	0
431	289	285	2.550	11	0
432	240	51	2.400	11	0
433	246	240	2.400	11	0
434	252	246	2.400	11	0
435	219	35	2.400	11	0
436	226	219	2.400	11	0
437	233	226	2.400	11	0
438	237	38	2.550	11	0
439	220	39	2.400	11	0
440	227	220	2.400	11	0
441	234	227	2.400	11	0
442	242	53	2.400	11	0
443	248	242	2.400	11	0
444	254	248	2.400	11	0
445	258	59	2.550	11	0
446	243	60	2.400	11	0
447	249	243	2.400	11	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
448	255	249	2.400	11	0
451	162	83	3.612	5	0
452	163	162	2.896	5	0
453	164	163	2.896	5	0
454	76	164	0.561	5	0
455	189	73	2.896	5	0
456	190	189	2.896	5	0
457	191	190	2.896	5	0
458	81	191	1.277	5	0
459	185	77	2.921	5	0
460	140	78	2.734	5	0
461	186	58	3.109	4	0
462	187	186	2.984	4	0
463	188	187	2.984	4	0
464	211	80	0.793	5	0
465	212	211	2.947	5	0
466	152	79	0.911	5	0
467	147	152	2.913	5	0
468	213	81	1.109	5	0
470	151	79	2.007	5	0
471	183	73	2.984	5	0
473	210	100	1.620	5	0
474	271	274	2.000	10	0
475	272	104	2.013	10	0
476	273	272	2.013	10	0
477	274	101	1.247	10	0
528	275	277	1.900	2	0
529	276	278	1.900	2	0
530	275	276	5.100	6	0
531	277	72	2.000	2	0
532	278	71	2.000	2	0
533	277	278	5.100	6	0
536	72	71	5.100	2	0
537	281	283	1.900	2	0
538	282	284	1.900	2	0
539	281	282	5.100	6	0
540	283	55	1.500	2	0
541	284	54	1.500	2	0
542	283	284	5.100	6	0
548	285	291	4.050	2	0
549	286	60	5.550	2	0
550	287	275	1.650	2	0
551	288	276	1.650	2	0
552	289	258	5.550	9	0
553	290	254	1.500	9	0
554	291	59	1.500	2	0
555	291	296	0.850	9	0
556	292	248	1.500	9	0
557	290	292	2.400	9	0
558	293	230	1.550	12	0
559	294	233	1.550	11	0
560	293	294	5.800	10	0
561	295	252	1.550	11	0
562	296	290	1.550	9	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
564	297	254	1.550	11	0
565	295	296	4.300	2	0
567	296	297	1.500	2	0

Plates

Plate	Node A	Node B	Node C	Node D	Property
161	6	8	35	33	1
162	8	12	34	35	1
163	33	35	38	32	1
164	35	34	20	38	1
165	32	38	39	31	1
166	38	20	19	39	1
167	31	39	42	28	1
168	39	19	30	42	1
169	28	42	7	5	1
170	42	30	9	7	1
171	23	25	53	51	1
172	25	29	52	53	1
173	51	53	59	50	1
174	53	52	45	59	1
175	50	59	60	49	1
176	59	36	37	60	1
177	49	60	62	46	1
178	60	43	48	62	1
179	46	62	24	22	1
180	62	48	26	24	1
191	66	67	54	55	1
478	142	273	146	143	1
479	141	272	273	142	1
480	57	113	152	147	1
481	113	112	151	152	1
482	112	111	125	151	1
483	147	152	271	104	1
484	152	151	274	271	1
485	78	140	146	273	1
486	138	78	273	272	1
487	74	138	272	104	1
488	122	74	104	271	1
489	121	122	271	274	1
490	61	125	111		1
491	125	274	151		1
492	82	120	148		1
495	57	147	75		1
496	61	82	148	125	1
497	143	146	84		1
498	146	140	84		1
499	185	206	83		1
500	206	162	83		1
501	191	81	213		1
502	213	207	100		1
503	208	100	210		1

Plates Cont...

Plate	Node A	Node B	Node C	Node D	Property
504	76	212	56		1
505	207	58	186		1
506	81	58	207	213	1
507	190	191	213	100	1
508	190	208	209	189	1
509	189	209	155	73	1
510	73	155	204	183	1
511	183	204	205	77	1
512	77	205	206	185	1
513	206	205	163	162	1
514	205	204	164	163	1
515	155	209	211	212	1
516	209	208	210	211	1
517	211	210	187	188	1
518	210	100	207	186	1
519	120	121	274	101	1
520	148	101	125		1
521	210	186	187		1
523	148	120	101		1
525	76	164	204		1
543	212	76	204	155	1
544	188	56	212	211	1
545	208	190	100		1
546	75	147	104		1
547	141	75	104	272	1

Section Properties

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{zz} (cm ⁴)	J (cm ⁴)	Material
2	Rect 0.60x0.40	2.4E+3	320E+3	720E+3	751E+3	CONC28
3	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONCRETE
4	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONC28
5	Rect 0.70x0.30	2.1E+3	158E+3	857E+3	460E+3	CONCRETE
6	Rect 0.50x0.15	750.000	14.1E+3	156E+3	45.6E+3	CONC28
7	Cir 0.50	1.96E+3	307E+3	307E+3	614E+3	CONC28
8	Rect 0.50x0.60	3E+3	900E+3	625E+3	1.24E+6	CONC28
9	Rect 0.50x0.15	750.000	14.1E+3	156E+3	45.6E+3	CONC28
10	Rect 0.60x0.30	1.8E+3	135E+3	540E+3	371E+3	CONC28
11	Rect 0.60x0.50	3E+3	625E+3	900E+3	1.24E+6	CONC28
12	Rect 0.60x0.65	3.9E+3	1.37E+6	1.17E+6	2.12E+6	CONC28

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	12.000	12.000	12.000	12.000	DIAFRAGMA

Materials

Mat	Name	E (kN/mm ²)	ν	Density (kg/m ³)	α (/°C)
1	DIAFRAGMA	24.389	0.170	0.100	10E -6
2	CONC28	24.389	0.170	2.4E+3	10E -6
3	STEEL	205.000	0.300	7.83E+3	12E -6
4	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
5	ALUMINUM	68.948	0.330	2.71E+3	23E -6
6	CONCRETE	24.389	0.170	2.4E+3	10E -6

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN·m/deg)	rY (kN·m/deg)	rZ (kN·m/deg)
19	Fixed	Fixed	Fixed	-	-	-
20	Fixed	Fixed	Fixed	-	-	-
28	Fixed	Fixed	Fixed	-	-	-
30	Fixed	Fixed	Fixed	-	-	-
31	Fixed	Fixed	Fixed	-	-	-
32	Fixed	Fixed	Fixed	-	-	-
33	Fixed	Fixed	Fixed	-	-	-
34	Fixed	Fixed	Fixed	-	-	-
35	Fixed	Fixed	Fixed	-	-	-
38	Fixed	Fixed	Fixed	-	-	-
39	Fixed	Fixed	Fixed	-	-	-
42	Fixed	Fixed	Fixed	-	-	-

Releases

Beam ends not shown in this table are fixed in all directions.

Beam	Node	x	y	z	rx	ry	rz
42	286	Fixed	Fixed	Fixed	Pin	Pin	Pin
42	289	Fixed	Fixed	Fixed	Pin	Pin	Pin
65	287	Fixed	Fixed	Fixed	Pin	Pin	Pin
65	288	Fixed	Fixed	Fixed	Pin	Pin	Pin
76	57	Fixed	Fixed	Fixed	Pin	Pin	Pin
77	56	Fixed	Fixed	Fixed	Pin	Pin	Pin
194	104	Fixed	Fixed	Fixed	Pin	Pin	Pin
194	74	Fixed	Fixed	Fixed	Pin	Pin	Pin
209	271	Fixed	Fixed	Fixed	Pin	Pin	Pin
209	122	Fixed	Fixed	Fixed	Pin	Pin	Pin
211	274	Fixed	Fixed	Fixed	Pin	Pin	Pin
211	121	Fixed	Fixed	Fixed	Pin	Pin	Pin
230	141	Fixed	Fixed	Fixed	Pin	Pin	Pin
230	272	Fixed	Fixed	Fixed	Pin	Pin	Pin
231	272	Fixed	Fixed	Fixed	Pin	Pin	Pin
231	138	Fixed	Fixed	Fixed	Pin	Pin	Pin
232	142	Fixed	Fixed	Fixed	Pin	Pin	Pin
232	273	Fixed	Fixed	Fixed	Pin	Pin	Pin
233	273	Fixed	Fixed	Fixed	Pin	Pin	Pin
233	78	Fixed	Fixed	Fixed	Pin	Pin	Pin
234	143	Fixed	Fixed	Fixed	Pin	Pin	Pin
234	146	Fixed	Fixed	Fixed	Pin	Pin	Pin
235	146	Fixed	Fixed	Fixed	Pin	Pin	Pin
235	140	Fixed	Fixed	Fixed	Pin	Pin	Pin

Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
238	104	Fixed	Fixed	Fixed	Pin	Pin	Pin
240	271	Fixed	Fixed	Fixed	Pin	Pin	Pin
241	274	Fixed	Fixed	Fixed	Pin	Pin	Pin
245	61	Fixed	Fixed	Fixed	Pin	Pin	Pin
262	155	Fixed	Fixed	Fixed	Pin	Pin	Pin
262	73	Fixed	Fixed	Fixed	Pin	Pin	Pin
302	208	Fixed	Fixed	Fixed	Pin	Pin	Pin
302	190	Fixed	Fixed	Fixed	Pin	Pin	Pin
303	164	Fixed	Fixed	Fixed	Pin	Pin	Pin
303	204	Fixed	Fixed	Fixed	Pin	Pin	Pin
304	204	Fixed	Fixed	Fixed	Pin	Pin	Pin
304	183	Fixed	Fixed	Fixed	Pin	Pin	Pin
305	163	Fixed	Fixed	Fixed	Pin	Pin	Pin
305	205	Fixed	Fixed	Fixed	Pin	Pin	Pin
306	205	Fixed	Fixed	Fixed	Pin	Pin	Pin
306	77	Fixed	Fixed	Fixed	Pin	Pin	Pin
307	162	Fixed	Fixed	Fixed	Pin	Pin	Pin
307	206	Fixed	Fixed	Fixed	Pin	Pin	Pin
308	206	Fixed	Fixed	Fixed	Pin	Pin	Pin
308	185	Fixed	Fixed	Fixed	Pin	Pin	Pin
310	209	Fixed	Fixed	Fixed	Pin	Pin	Pin
310	189	Fixed	Fixed	Fixed	Pin	Pin	Pin
315	155	Fixed	Fixed	Fixed	Pin	Pin	Pin
317	208	Fixed	Fixed	Fixed	Pin	Pin	Pin
318	209	Fixed	Fixed	Fixed	Pin	Pin	Pin
325	215	Fixed	Fixed	Fixed	Pin	Pin	Pin
325	220	Fixed	Fixed	Fixed	Pin	Pin	Pin
326	216	Fixed	Fixed	Fixed	Pin	Pin	Pin
326	219	Fixed	Fixed	Fixed	Pin	Pin	Pin
327	214	Fixed	Fixed	Fixed	Pin	Pin	Pin
327	220	Fixed	Fixed	Fixed	Pin	Pin	Pin
329	219	Fixed	Fixed	Fixed	Pin	Pin	Pin
329	217	Fixed	Fixed	Fixed	Pin	Pin	Pin
336	222	Fixed	Fixed	Fixed	Pin	Pin	Pin
336	227	Fixed	Fixed	Fixed	Pin	Pin	Pin
337	223	Fixed	Fixed	Fixed	Pin	Pin	Pin
337	226	Fixed	Fixed	Fixed	Pin	Pin	Pin
338	221	Fixed	Fixed	Fixed	Pin	Pin	Pin
338	227	Fixed	Fixed	Fixed	Pin	Pin	Pin
340	226	Fixed	Fixed	Fixed	Pin	Pin	Pin
340	224	Fixed	Fixed	Fixed	Pin	Pin	Pin
347	229	Fixed	Fixed	Fixed	Pin	Pin	Pin
347	234	Fixed	Fixed	Fixed	Pin	Pin	Pin
348	230	Fixed	Fixed	Fixed	Pin	Pin	Pin
348	233	Fixed	Fixed	Fixed	Pin	Pin	Pin
349	228	Fixed	Fixed	Fixed	Pin	Pin	Pin
349	234	Fixed	Fixed	Fixed	Pin	Pin	Pin
351	233	Fixed	Fixed	Fixed	Pin	Pin	Pin
351	231	Fixed	Fixed	Fixed	Pin	Pin	Pin
355	235	Fixed	Fixed	Fixed	Pin	Pin	Pin
355	237	Fixed	Fixed	Fixed	Pin	Pin	Pin
356	237	Fixed	Fixed	Fixed	Pin	Pin	Pin
356	236	Fixed	Fixed	Fixed	Pin	Pin	Pin
378	239	Fixed	Fixed	Fixed	Pin	Pin	Pin

Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
378	243	Fixed	Fixed	Fixed	Pin	Pin	Pin
379	240	Fixed	Fixed	Fixed	Pin	Pin	Pin
379	242	Fixed	Fixed	Fixed	Pin	Pin	Pin
380	238	Fixed	Fixed	Fixed	Pin	Pin	Pin
380	243	Fixed	Fixed	Fixed	Pin	Pin	Pin
381	242	Fixed	Fixed	Fixed	Pin	Pin	Pin
381	241	Fixed	Fixed	Fixed	Pin	Pin	Pin
382	245	Fixed	Fixed	Fixed	Pin	Pin	Pin
382	249	Fixed	Fixed	Fixed	Pin	Pin	Pin
383	246	Fixed	Fixed	Fixed	Pin	Pin	Pin
384	244	Fixed	Fixed	Fixed	Pin	Pin	Pin
384	249	Fixed	Fixed	Fixed	Pin	Pin	Pin
385	248	Fixed	Fixed	Fixed	Pin	Pin	Pin
385	247	Fixed	Fixed	Fixed	Pin	Pin	Pin
386	251	Fixed	Fixed	Fixed	Pin	Pin	Pin
386	255	Fixed	Fixed	Fixed	Pin	Pin	Pin
388	250	Fixed	Fixed	Fixed	Pin	Pin	Pin
388	255	Fixed	Fixed	Fixed	Pin	Pin	Pin
389	254	Fixed	Fixed	Fixed	Pin	Pin	Pin
389	253	Fixed	Fixed	Fixed	Pin	Pin	Pin
391	258	Fixed	Fixed	Fixed	Pin	Pin	Pin
391	257	Fixed	Fixed	Fixed	Pin	Pin	Pin
431	289	Fixed	Fixed	Fixed	Pin	Pin	Pin
431	285	Fixed	Fixed	Fixed	Pin	Pin	Pin
461	58	Fixed	Fixed	Fixed	Pin	Pin	Pin
530	275	Fixed	Fixed	Fixed	Pin	Pin	Pin
530	276	Fixed	Fixed	Fixed	Pin	Pin	Pin
533	277	Fixed	Fixed	Fixed	Pin	Pin	Pin
533	278	Fixed	Fixed	Fixed	Pin	Pin	Pin
539	281	Fixed	Fixed	Fixed	Pin	Pin	Pin
539	282	Fixed	Fixed	Fixed	Pin	Pin	Pin
542	283	Fixed	Fixed	Fixed	Pin	Pin	Pin
542	284	Fixed	Fixed	Fixed	Pin	Pin	Pin
552	289	Fixed	Fixed	Fixed	Pin	Pin	Pin
552	258	Fixed	Fixed	Fixed	Pin	Pin	Pin
553	290	Fixed	Fixed	Fixed	Pin	Pin	Pin
553	254	Fixed	Fixed	Fixed	Pin	Pin	Pin
555	291	Fixed	Fixed	Fixed	Pin	Pin	Pin
556	248	Fixed	Fixed	Fixed	Pin	Pin	Pin
557	292	Fixed	Fixed	Fixed	Pin	Pin	Pin

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
5	DERX1	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.80
6	DERX2	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.80
7	DERZ1	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	0.80
8	DERZ2	1	DEAD	1.20
		2	LIVE	1.00
		4	EQZ	-0.80
9	DERX3	1	DEAD	0.90
		3	EQX	0.80
10	DERX4	1	DEAD	0.90
		3	EQX	-0.80
11	DERZ3	1	DEAD	0.90
		4	EQZ	0.80
12	DERZ4	1	DEAD	0.90
		4	EQZ	-0.80
13	COM1	1	DEAD	1.40
14	COM2	1	DEAD	1.20
		2	LIVE	1.60
		3	EQX	0.22
15	COM3	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.22
		4	EQZ	0.07
16	COM4	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.22
		4	EQZ	-0.07
17	COM5	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.22
		4	EQZ	-0.07
18	COM6	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.22
		4	EQZ	0.07
19	COM7	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.07
		4	EQZ	0.22
20	COM8	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	0.07
		4	EQZ	-0.22
21	COM9	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.07
		4	EQZ	-0.22
22	COM10	1	DEAD	1.20
		2	LIVE	1.00
		3	EQX	-0.07

Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		4	EQZ	0.22
23	COM11	1	DEAD	0.90
		3	EQX	0.22
		4	EQZ	0.07
24	COM12	1	DEAD	0.90
		3	EQX	0.22
		4	EQZ	-0.07
25	COM13	1	DEAD	0.90
		3	EQX	-0.22
		4	EQZ	-0.07
26	COM14	1	DEAD	0.90
		3	EQX	-0.22
		4	EQZ	0.07
27	COM15	1	DEAD	0.90
		3	EQX	0.07
		4	EQZ	0.22
28	COM16	1	DEAD	0.90
		3	EQX	0.07
		4	EQZ	-0.22
29	COM17	1	DEAD	0.90
		3	EQX	-0.07
		4	EQZ	-0.22
30	COM18	1	DEAD	0.90
		3	EQX	-0.07
		4	EQZ	0.22
31	CIM	1	DEAD	1.00
		2	LIVE	1.00
32	CIMX1	1	DEAD	0.90
		3	EQX	0.16
		4	EQZ	0.05
33	CIMX2	1	DEAD	0.90
		3	EQX	-0.16
		4	EQZ	0.05
34	CIMX3	1	DEAD	0.90
		3	EQX	0.16
		4	EQZ	-0.05
35	CIMX4	1	DEAD	0.90
		3	EQX	-0.16
		4	EQZ	-0.05
36	CIMX5	1	DEAD	0.90
		3	EQX	0.05
		4	EQZ	0.16
37	CIMX6	1	DEAD	0.90
		3	EQX	-0.05
		4	EQZ	0.16
38	CIMX7	1	DEAD	0.90
		3	EQX	0.05
		4	EQZ	-0.16
39	CIMX8	1	DEAD	0.90
		3	EQX	-0.05
		4	EQZ	-0.16
40	CIMX9	3	EQX	0.16
		4	EQZ	0.05
		1	DEAD	1.00

Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		2	LIVE	1.00
41	CIMX10	3	EQX	0.16
		4	EQZ	-0.05
		1	DEAD	1.00
		2	LIVE	1.00
42	CIMX11	3	EQX	-0.16
		4	EQZ	0.05
		1	DEAD	1.00
		2	LIVE	1.00
43	CIMX12	3	EQX	-0.16
		4	EQZ	-0.05
		1	DEAD	1.00
		2	LIVE	1.00
44	CIMX13	3	EQX	0.05
		4	EQZ	0.16
		1	DEAD	1.00
		2	LIVE	1.00
45	CIMX14	3	EQX	0.05
		4	EQZ	-0.16
		1	DEAD	1.00
		2	LIVE	1.00
46	CIMX15	3	EQX	-0.05
		4	EQZ	0.16
		1	DEAD	1.00
		2	LIVE	1.00
47	CIMX16	3	EQX	-0.05
		4	EQZ	-0.16
		1	DEAD	1.00
		2	LIVE	1.00

Load Generators

There is no data of this type.

```

*****
*
*          STAAD.Pro V8i SELECTseries6          *
*          Version  20.07.11.82                  *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    AUG 10, 2018                 *
*          Time=    10:38:36                     *
*
*          USER ID: Microsoft                    *
*****

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1. STAAD SPACE DXF IMPORT OF MODULOC.DXF

INPUT FILE: \\192.168.200.2\proyectos\PROYECTOS 2018\181_JARDIN CAMPO VERDE\2. MODELOS\1.CURADURIA\MOD... .STD

2. START JOB INFORMATION

3. ENGINEER DATE 17-APR-18

4. JOB NAME CIMENTACION MODULO C

5. END JOB INFORMATION

6. INPUT WIDTH 79

7. UNIT METER MTON

8. JOINT COORDINATES

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9. 5 -3.04791E-007 0.15 -26.55; 6 -3.04791E-007 0.15 2.15; 7 5.8 0.15 -26.55
10. 8 5.8 0.15 2.15; 9 11.6 0.15 -26.55; 12 11.6 0.15 2.15; 19 11.6 0.15 -14.7
11. 20 11.6 0.15 -9.6; 22 -3.04791E-007 3.75 -26.55; 23 -3.04791E-007 3.75 2.15
12. 24 5.8 3.75 -26.55; 25 5.8 3.75 2.15; 26 11.6 3.75 -26.55
13. 28 -3.04791E-007 0.15 -24.3; 29 11.6 3.75 2.15; 30 11.6 0.15 -24.3
14. 31 -3.04791E-007 0.15 -14.7; 32 -3.04791E-007 0.15 -9.6
15. 33 -3.04791E-007 0.15 2.0546E-007; 34 11.6 0.15 2.0546E-007
16. 35 5.8 0.15 2.0546E-007; 36 11 3.75 -9.6; 37 11 3.75 -14.7; 38 5.8 0.15 -9.6
17. 39 5.8 0.15 -14.7; 42 5.8 0.15 -24.3; 43 11.6 3.75 -14.7; 44 11.6 7.35 -26.55
18. 45 11.6 3.75 -9.6; 46 -3.04791E-007 3.75 -24.3; 47 11.6 7.35 2.15
19. 48 11.6 3.75 -24.3; 49 -3.04791E-007 3.75 -14.7; 50 -3.04791E-007 3.75 -9.6
20. 51 -3.04791E-007 3.75 2.0546E-007; 52 11.6 3.75 2.0546E-007
21. 53 5.8 3.75 2.0546E-007; 54 11 7.35 -9.6; 55 11 7.35 -14.7
22. 56 -3.04791E-007 7.65 -26.55; 57 -3.04791E-007 7.65 2.15; 58 11.6 10.95 -26.55
23. 59 5.8 3.75 -9.6; 60 5.8 3.75 -14.7; 61 11.6 10.95 2.15; 62 5.8 3.75 -24.3
24. 63 11.6 7.35 -14.7; 64 11.6 7.35 -9.6; 65 11.6 7.35 -24.3
25. 66 -3.04791E-007 7.35 -14.7; 67 -3.04791E-007 7.35 -9.6
26. 68 -3.04791E-007 7.35 2.0546E-007; 69 11.6 7.35 2.0546E-007
27. 70 -3.04791E-007 7.35 -24.3; 71 5.8 7.35 -9.6; 72 5.8 7.35 -14.7
28. 73 11.6 7.65 -14.7; 74 11.6 7.65 -9.6; 75 -3.04791E-007 8.25383 1.53876E-007
29. 76 -3.04791E-007 8.27658 -24.3; 77 5.8 9.3 -14.7; 78 5.8 9.3 -9.6
30. 79 5.8 9.90383 7.69381E-008; 80 5.8 9.92658 -24.3; 81 11.6 10.3234 -24.3
31. 82 11.6 10.3462 2.3289E-007; 83 -3.04791E-007 10.95 -14.7
32. 84 -3.04791E-007 10.95 -9.6; 100 9.39747 10.95 -24.3
33. 101 9.47745 10.95 2.81561E-008; 104 5.8 10.95 -3.725; 111 8.43 10.0482 2.15
34. 112 5.62 9.24879 2.15; 113 2.81 8.4494 2.15; 120 11.6 10.0488 -1.059
35. 121 11.6 9.24918 -3.906; 122 11.6 8.44959 -6.753; 125 10.015 10.95 0.545199
36. 138 8.79 8.4494 -9.6; 140 3.17 10.0482 -9.6; 141 -3.04791E-007 8.44958 -0.697
37. 142 -3.04791E-007 9.24917 -3.544; 143 -3.04791E-007 10.0487 -6.391
38. 146 1.5844 10.95 -7.994; 147 2.12255 8.85766 1.2572E-007

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39. 148 10.5537 10.6438 1.31965E-007; 151 7.73012 10.4529 5.13347E-008
40. 152 4.92395 9.65461 8.8559E-008; 155 5.8 10.95 -20.625
41. 162 -3.04791E-007 9.98089 -18.18; 163 -3.04791E-007 9.20392 -20.97
42. 164 -3.04791E-007 8.42696 -23.76; 183 8.73 8.46646 -14.7
43. 185 2.99 10.0994 -14.7; 186 8.61 10.0994 -26.55; 187 5.74 9.28293 -26.55
44. 188 2.87 8.46647 -26.55; 189 11.6 8.42696 -17.49; 190 11.6 9.20391 -20.28
45. 191 11.6 9.98087 -23.07; 204 4.4 10.95 -19.1948; 205 3 10.95 -17.7647
46. 206 1.6 10.95 -16.3345; 207 10 10.95 -24.9155; 208 8.6 10.95 -23.4853
47. 209 7.2 10.95 -22.0552; 210 7.83975 10.5069 -24.3; 211 5.03749 9.70966 -24.3
48. 212 2.20253 8.90316 -24.3; 213 10.5336 10.6268 -24.3; 214 11.6 0.15 -17.1
49. 215 -3.04791E-007 0.15 -17.1; 216 -3.04791E-007 0.15 -2.4; 217 11.6 0.15 -2.4
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62. 271 7.19608 10.95 -2.31087; 272 4.38586 10.95 -5.15705
63. 273 2.97178 10.95 -6.58905; 274 8.60135 10.95 -0.88743; 275 1.9 7.35 -14.7
64. 276 1.9 7.35 -9.6; 277 3.8 7.35 -14.7; 278 3.8 7.35 -9.6; 281 7.6 7.35 -14.7
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68. 293 -3.04791E-007 0.15 -8.75; 294 5.8 0.15 -8.75; 295 -3.04791E-007 3.75 -8.75
69. 296 4.3 3.75 -8.75; 297 5.8 3.75 -8.75
70. MEMBER INCIDENCES
71. 4 5 28; 5 7 42; 6 9 30; 7 20 231; 8 28 42; 9 31 39; 10 32 38; 11 33 35; 12 6 8
72. 13 20 236; 14 5 7; 15 22 46; 16 24 62; 17 26 48; 18 45 253; 19 46 62
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85. 144 65 81; 146 66 83; 148 67 84; 150 69 82; 151 69 47; 155 76 212; 156 75 147
86. 157 100 207; 158 101 125; 159 100 213; 160 101 148; 192 57 147; 193 104 271
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93. 293 204 155; 294 205 204; 295 206 205; 296 207 58; 297 208 100; 298 209 208
94. 299 186 207; 300 207 213; 301 187 210; 302 208 190; 303 164 204; 304 204 183

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95. 305 163 205; 306 205 77; 307 162 206; 308 206 185; 309 188 211; 310 209 189
 96. 315 212 155; 316 213 191; 317 210 208; 318 211 209; 325 215 220; 326 216 219
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 119. ELEMENT INCIDENCES SHELL
 120. 161 6 8 35 33; 162 8 12 34 35; 163 33 35 38 32; 164 35 34 20 38
 121. 165 32 38 39 31; 166 38 20 19 39; 167 31 39 42 28; 168 39 19 30 42
 122. 169 28 42 7 5; 170 42 30 9 7; 171 23 25 53 51; 172 25 29 52 53
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 124. 177 49 60 62 46; 178 60 43 48 62; 179 46 62 24 22; 180 62 48 26 24
 125. 191 66 67 54 55; 478 142 273 146 143; 479 141 272 273 142; 480 57 113 152 147
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 130. 497 143 146 84; 498 146 140 84; 499 185 206 83; 500 206 162 83; 501 191 81 213
 131. 502 213 207 100; 503 208 100 210; 504 76 212 56; 505 207 58 186
 132. 506 81 58 207 213; 507 190 191 213 100; 508 190 208 209 189
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 134. 513 206 205 163 162; 514 205 204 164 163; 515 155 209 211 212
 135. 516 209 208 210 211; 517 211 210 187 188; 518 210 100 207 186
 136. 519 120 121 274 101; 520 148 101 125; 521 210 186 187; 523 148 120 101
 137. 525 76 164 204; 543 212 76 204 155; 544 188 56 212 211; 545 208 190 100
 138. 546 75 147 104; 547 141 75 104 272
 139. START GROUP DEFINITION

WARNING PLATE NO. 525(JOINTS 76 - 164 - 204 - 0)
 IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 547(JOINTS 141 - 75 - 104 - 272)
 IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

140. MEMBER

141. _COLU 120 TO 144 146 148 150 395 TO 398 404 406

142. _VIGASCIM 4 TO 14 28 TO 35 92 TO 99 325 TO 327 329 336 TO 338 340 347 TO 349 -

143. 351 355 356 407 TO 410 415 TO 424 435 TO 441 558 TO 560

144. FLOOR

145. JOINT
146. END GROUP DEFINITION
147. ELEMENT PROPERTY
148. 161 TO 180 191 478 TO 492 495 TO 521 523 525 543 TO 547 THICKNESS 0.12
149. DEFINE MATERIAL START
150. ISOTROPIC CONCRETE
151. E 2.48701E+006
152. POISSON 0.17
153. DENSITY 2.40262
154. ALPHA 1E-005
155. DAMP 0.05
156. G 946439
157. TYPE CONCRETE
158. TYPE CONCRETE
159. STRENGTH FCU 2812.28
160. STRENGTH FCU 2812.28
161. ISOTROPIC DIAFRAGMA
162. E 2.48701E+006
163. POISSON 0.17
164. DENSITY 0.0001
165. ALPHA 1E-005
166. DAMP 0.05
167. G 946439
168. TYPE CONCRETE
169. STRENGTH FCU 2812.28
170. ISOTROPIC CONC28
171. E 2.487E+006
172. POISSON 0.17
173. DENSITY 2.40262
174. ALPHA 1E-005
175. DAMP 0.05
176. G 946439
177. TYPE CONCRETE
178. STRENGTH FCU 2812.28
179. END DEFINE MATERIAL
180. MEMBER PROPERTY AMERICAN
181. 8 TO 11 19 TO 22 46 47 50 51 53 54 57 63 TO 66 69 70 96 TO 99 104 TO 107 151 -
182. 403 405 528 529 531 532 536 TO 538 540 541 548 TO 551 554 565 -
183. 567 PRIS YD 0.6 ZD 0.4
184. 12 14 23 25 28 29 38 39 PRIS YD 0.6 ZD 0.2
185. 76 77 245 TO 247 461 TO 463 PRIS YD 0.6 ZD 0.2
186. 71 72 74 75 87 89 155 156 159 160 243 244 248 TO 251 254 TO 256 258 259 399 -
187. 400 TO 401 451 TO 460 464 TO 468 470 471 473 PRIS YD 0.7 ZD 0.4
188. MEMBER PROPERTY AMERICAN
189. 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 TO 318 530 533 -
190. 539 542 PRIS YD 0.5 ZD 0.15
191. 135 140 396 397 404 406 PRIS YD 0.5
192. MEMBER PROPERTY AMERICAN
193. 120 TO 134 136 TO 139 141 TO 144 146 148 150 395 398 PRIS YD 0.5 ZD 0.6
194. MEMBER PROPERTY AMERICAN
195. 325 TO 327 329 336 TO 338 340 347 TO 349 351 355 356 378 TO 386 388 389 391 -
196. 552 553 555 TO 557 562 PRIS YD 0.5 ZD 0.15
197. MEMBER PROPERTY AMERICAN
198. 90 91 157 158 193 207 229 261 293 TO 298 474 TO 477 560 PRIS YD 0.6 ZD 0.3
199. MEMBER PROPERTY AMERICAN
200. 5 15 TO 18 24 40 TO 45 92 TO 95 100 TO 103 411 TO 414 425 TO 448 559 561 -

201. 564 PRIS YD 0.6 ZD 0.5
202. MEMBER PROPERTY AMERICAN
203. 4 6 7 13 30 TO 35 407 TO 410 415 TO 424 558 PRIS YD 0.6 ZD 0.65
204. CONSTANTS
205. BETA 0 MEMB 4 TO 25 28 TO 35 38 TO 47 50 51 53 54 57 63 TO 66 69 TO 72 74 -
206. 75 TO 77 87 89 TO 107 120 TO 144 146 148 150 151 155 TO 160 192 TO 194 207 -
207. 208 TO 213 229 TO 235 238 TO 251 254 TO 256 258 259 261 262 293 TO 310 315 -
208. 316 TO 318 325 TO 327 329 336 TO 338 340 347 TO 349 351 355 356 378 TO 386 -
209. 388 389 391 395 TO 401 403 TO 448 451 TO 468 470 471 473 TO 477 528 TO 533 -
210. 536 TO 542
211. MATERIAL CONC28 MEMB 4 TO 11 13 15 TO 22 24 30 TO 35 40 TO 47 50 51 53 54 -
212. 57 63 TO 66 69 TO 72 74 TO 77 87 89 TO 107 120 TO 144 146 148 150 151 155 -
213. 156 TO 160 192 TO 194 207 TO 213 229 TO 235 238 TO 251 254 TO 256 258 259 -
214. 261 262 293 TO 310 315 TO 318 325 TO 327 329 336 TO 338 340 347 TO 349 351 -
215. 355 356 378 TO 386 388 389 391 395 TO 401 403 TO 448 451 TO 468 470 471 473 -
216. 474 TO 477 528 TO 533 536 TO 542 548 TO 562 564 565 565 567
217. MATERIAL DIAFRAGMA MEMB 161 TO 180 191 478 TO 492 495 TO 521 523 525 543 TO 547
218. MATERIAL CONCRETE MEMB 12 14 23 25 28 29 38 39
219. ELEMENT PLANE STRESS
220. 161 TO 180 191
221. MEMBER RELEASE
222. 42 65 76 77 194 209 211 230 TO 235 262 302 TO 308 310 325 TO 327 329 -
223. 336 TO 338 340 347 TO 349 351 355 356 378 TO 386 388 389 391 431 530 533 -
224. 539 542 552 553 555 START MX MY MZ
225. 42 65 194 209 211 230 TO 235 238 240 241 245 262 302 TO 308 310 315 317 318 -
226. 325 TO 327 329 336 TO 338 340 347 TO 349 351 355 356 378 TO 382 384 TO 386 -
227. 388 389 391 431 461 530 533 539 542 552 553 556 557 END MX MY MZ
228. SUPPORTS
229. 19 20 28 30 TO 35 38 39 42 PINNED
230. CUT OFF MODE SHAPE 40
231. LOAD 1 LOADTYPE DEAD TITLE DEAD
232. MEMBER LOAD
233. 50 51 53 54 63 64 66 151 403 405 528 529 531 532 537 538 540 541 550 -
234. 551 UNI GY -0.33
235. MEMBER LOAD
236. 16 100 101 103 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 -
237. 316 TO 318 442 TO 444 446 TO 448 564 UNI Y -1.04
238. MEMBER LOAD
239. 7 13 15 17 18 23 TO 25 30 31 33 38 TO 41 43 TO 47 93 95 407 TO 437 -
240. 439 TO 441 555 557 TO 559 561 562 UNI GY -0.5
241. 4 TO 6 34 35 92 UNI GY -1.
242. 8 TO 11 19 TO 22 46 47 96 TO 99 104 TO 107 325 TO 327 329 336 TO 338 340 347 -
243. 348 TO 349 351 355 356 378 TO 386 388 389 391 548 549 552 TO 554 -
244. 556 UNI GY -1.17
245. 12 14 28 29 UNI GY -1.7
246. 57 65 530 533 536 539 542 UNI GY -1.
247. 53 54 69 70 403 405 528 529 531 532 537 538 540 541 550 551 UNI GY -0.63
248. SELFWEIGHT Y -1
249. MEMBER LOAD
250. 12 14 23 25 28 29 38 39 UNI GY -0.7
251. 32 34 42 44 UNI GY -2.8
252. 551 UNI GY -1.3
253. 565 UNI GY -1.3 0.25 4.3
254. 560 UNI GY -1.3 2.9 4.4
255. 65 UNI GY -3.09 0 2.5
256. 560 567 UNI GY -0.2

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257. 565 UNI GY -0.2 0.25 4.3
258. 337 383 UNI GY -1.86
259. LOAD 2 LOADTYPE LIVE TITLE LIVE
260. MEMBER LOAD
261. 8 TO 11 19 TO 22 46 47 96 TO 99 104 TO 107 325 TO 327 329 336 TO 338 340 347 -
262. 348 TO 349 351 355 356 378 TO 386 388 389 391 548 549 552 TO 554 556 -
263. 567 UNI GY -0.44
264. 12 14 23 25 28 29 38 39 UNI GY -0.24
265. 65 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 TO 318 539 -
266. 542 UNI GY -0.36
267. 57 UNI GY -0.18
268. 32 34 42 44 UNI GY -1.4
269. 337 530 533 536 UNI GY -1.03
270. 337 383 551 UNI GY -0.89
271. 565 UNI GY -0.89 0.25 4.3
272. 560 UNI GY -0.89 2.9 4.4
273. 65 UNI GY -2.89 0 2.5
274. 560 UNI GY -0.16
275. 565 UNI GY -0.16 0.25 4.3
276. 565 UNI GY -0.16 0 0.25
277. LOAD 3 LOADTYPE SEISMIC TITLE EQX
278. SPECTRUM CQC X 1.34 ACC SCALE 9.81 DAMP 0.05 LIN
279. 0 0.492; 1.28 0.492; 1.391 0.453; 1.502 0.419; 1.613 0.391; 1.724 0.365
280. 1.835 0.343; 1.946 0.324; 2.057 0.306; 2.168 0.291; 2.279 0.276; 2.39 0.264
281. 2.501 0.252; 2.612 0.241; 2.723 0.231; 2.834 0.222; 2.945 0.214; 3.056 0.206
282. 3.167 0.199; 3.278 0.192; 3.389 0.186; 3.5 0.18; 3.7 0.161; 3.9 0.145
283. 4.1 0.131; 4.3 0.119; 4.5 0.109; 4.7 0.1
284. MEMBER LOAD
285. 50 51 53 54 63 64 66 151 403 405 528 529 531 532 537 538 540 541 550 -
286. 551 UNI GX 0.33
287. MEMBER LOAD
288. 16 100 101 103 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 -
289. 316 TO 318 442 TO 444 446 TO 448 564 UNI X 1.04
290. MEMBER LOAD
291. 15 17 18 23 TO 25 38 TO 47 411 TO 414 425 TO 434 555 557 561 562 UNI GX 0.5
292. 19 TO 22 46 47 104 TO 107 378 TO 386 388 389 391 548 549 552 TO 554 556 -
293. 567 UNI GX 1.43
294. 565 UNI GX 1.43 0.25 4.3
295. 565 UNI GX 1.43 0 0.25
296. 57 65 530 533 536 539 542 UNI GX 1
297. 53 54 69 70 403 405 528 529 531 532 537 538 540 541 550 551 UNI GX 0.63
298. MEMBER LOAD
299. 23 25 38 39 UNI GX 0.7
300. 42 44 551 UNI GX 2.75
301. 565 UNI GX 2.75 0.25 4.3
302. SELFWEIGHT X 1
303. MEMBER LOAD
304. 50 51 53 54 63 64 66 151 403 405 528 529 531 532 537 538 540 541 550 -
305. 551 UNI GZ 0.33
306. MEMBER LOAD
307. 16 100 101 103 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 -
308. 316 TO 318 442 TO 444 446 TO 448 564 UNI Z 1.04
309. MEMBER LOAD
310. 15 17 18 23 TO 25 38 TO 47 411 TO 414 425 TO 434 555 557 561 562 UNI GZ 0.5
311. 19 TO 22 46 47 104 TO 107 378 TO 386 388 389 391 548 549 552 TO 554 556 -
312. 567 UNI GZ 1.43

313. 565 UNI GZ 1.43 0.25 4.3
314. 565 UNI GZ 1.43 0 0.25
315. 57 65 530 533 536 539 542 UNI GZ 1
316. 53 54 69 70 403 405 528 529 531 532 537 538 540 541 550 551 UNI GZ 0.63
317. MEMBER LOAD
318. 23 25 38 39 UNI GZ 0.7
319. 42 44 551 565 UNI GZ 2.75
320. 565 UNI GZ 2.75 0.25 4.3
321. SELFWEIGHT Z 1
322. LOAD 4 LOADTYPE SEISMIC TITLE EQZ
323. SPECTRUM CQC Z 1.03 ACC SCALE 9.81 DAMP 0.05 LIN
324. *COMBINACIONES DERIVAS
325. 0 0.492; 1.28 0.492; 1.391 0.453; 1.502 0.419; 1.613 0.391; 1.724 0.365
326. 1.835 0.343; 1.946 0.324; 2.057 0.306; 2.168 0.291; 2.279 0.276; 2.39 0.264
327. 2.501 0.252; 2.612 0.241; 2.723 0.231; 2.834 0.222; 2.945 0.214; 3.056 0.206
328. 3.167 0.199; 3.278 0.192; 3.389 0.186; 3.5 0.18; 3.7 0.161; 3.9 0.145
329. 4.1 0.131; 4.3 0.119; 4.5 0.109; 4.7 0.1
330. LOAD COMB 5 DEX1
331. 1 1.2 2 1.0 3 0.8
332. LOAD COMB 6 DEX2
333. 1 1.2 2 1.0 3 -0.8
334. LOAD COMB 7 DERZ1
335. 1 1.2 2 1.0 4 0.8
336. LOAD COMB 8 DERZ2
337. 1 1.2 2 1.0 4 -0.8
338. LOAD COMB 9 DEX3
339. 1 0.9 3 0.8
340. LOAD COMB 10 DEX4
341. 1 0.9 3 -0.8
342. LOAD COMB 11 DERZ3
343. 1 0.9 4 0.8
344. LOAD COMB 12 DERZ4
345. 1 0.9 4 -0.8
346. *COMBINACIONES DISENO
347. LOAD COMB 13 COM1
348. 1 1.4
349. LOAD COMB 14 COM2
350. 1 1.2 2 1.6
351. LOAD COMB 15 COM3
352. 1 1.2 2 1.0 3 0.22 4 0.067
353. LOAD COMB 16 COM4
354. 1 1.2 2 1.0 3 0.22 4 -0.067
355. LOAD COMB 17 COM5
356. 1 1.2 2 1.0 3 -0.22 4 -0.067
357. LOAD COMB 18 COM6
358. 1 1.2 2 1.0 3 -0.22 4 0.067
359. LOAD COMB 19 COM7
360. 1 1.2 2 1.0 3 0.067 4 0.22
361. LOAD COMB 20 COM8
362. 1 1.2 2 1.0 3 0.067 4 -0.22
363. LOAD COMB 21 COM9
364. 1 1.2 2 1.0 3 -0.067 4 -0.22
365. LOAD COMB 22 COM10
366. 1 1.2 2 1.0 3 -0.067 4 0.22
367. LOAD COMB 23 COM11
368. 1 0.9 3 0.22 4 0.067

369. LOAD COMB 24 COM12
370. 1 0.9 3 0.22 4 -0.067
371. LOAD COMB 25 COM13
372. 1 0.9 3 -0.22 4 -0.067
373. LOAD COMB 26 COM14
374. 1 0.9 3 -0.22 4 0.067
375. LOAD COMB 27 COM15
376. 1 0.9 3 0.067 4 0.22
377. LOAD COMB 28 COM16
378. 1 0.9 3 0.067 4 -0.22
379. LOAD COMB 29 COM17
380. 1 0.9 3 -0.067 4 -0.22
381. LOAD COMB 30 COM18
382. 1 0.9 3 -0.067 4 0.22
383. *COMBINACIONES CIMENTACION
384. LOAD COMB 31 CIM
385. 1 1.0 2 1.0
386. LOAD COMB 32 CIMX1
387. 1 0.9 3 0.156 4 0.047
388. LOAD COMB 33 CIMX2
389. 1 0.9 3 -0.156 4 0.047
390. LOAD COMB 34 CIMX3
391. 1 0.9 3 0.156 4 -0.047
392. LOAD COMB 35 CIMX4
393. 1 0.9 3 -0.156 4 -0.047
394. LOAD COMB 36 CIMX5
395. 1 0.9 3 0.047 4 0.156
396. LOAD COMB 37 CIMX6
397. 1 0.9 3 -0.047 4 0.156
398. LOAD COMB 38 CIMX7
399. 1 0.9 3 0.047 4 -0.156
400. LOAD COMB 39 CIMX8
401. 1 0.9 3 -0.047 4 -0.156
402. LOAD COMB 40 CIMX9
403. 3 0.156 4 0.047 1 1.0 2 1.0
404. LOAD COMB 41 CIMX10
405. 3 0.156 4 -0.047 1 1.0 2 1.0
406. LOAD COMB 42 CIMX11
407. 3 -0.156 4 0.047 1 1.0 2 1.0
408. LOAD COMB 43 CIMX12
409. 3 -0.156 4 -0.047 1 1.0 2 1.0
410. LOAD COMB 44 CIMX13
411. 3 0.047 4 0.156 1 1.0 2 1.0
412. LOAD COMB 45 CIMX14
413. 3 0.047 4 -0.156 1 1.0 2 1.0
414. LOAD COMB 46 CIMX15
415. 3 -0.047 4 0.156 1 1.0 2 1.0
416. LOAD COMB 47 CIMX16
417. 3 -0.047 4 -0.156 1 1.0 2 1.0
418. PERFORM ANALYSIS

ESPECTRO DE DISEÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: **181_JARDIN CAMPO VERDE**

Ciudad: **Bogotá**

CALCULÓ: **JDH**

Sistema Estructural: **Porticos en concreto**

Zona Microzonificación: **ALUVIAL 200**

PARÁMETROS SÍSMICOS

$A_a =$ **0.15**

$F_a =$ **1.05**

$A_v =$ **0.20**

$F_v =$ **2.10**

$A_0 =$ **0.16**

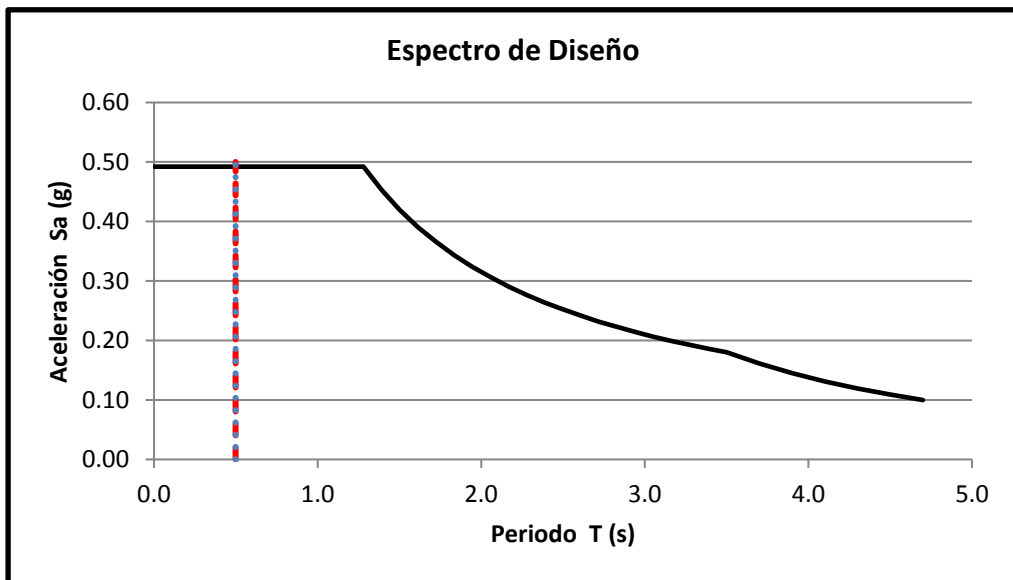
Grupo de Uso **III**

$T_c (s) =$ **1.28**

$I =$ **1.25**

$T_L (s) =$ **3.50**

$R_0 =$ **5.0**



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: **Pórticos de concreto**

$h (m) =$ **10.8**

$T_a =$ **0.400 s**

$C_t =$ **0.047**

$C_u =$ **1.246**

$a =$ **0.9**

$C_u * T_a =$ **0.499 s**

PARA ANÁLISIS DINÁMICO

Periodo calculado, $T_x =$ **0.726 s**

$T_z =$ **0.726 s**

Chequeo A.5.4.5 $T < C_u * T_a$: Usar $C_u * T_a$

Usar $C_u * T_a$

$T_x(s) =$ **0.499 s**

$T_x(s) =$ **0.499 s**

$S_{ax} =$ **0.492**

$S_{ax} =$ **0.492**

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
5	31:CIM	-0.000	-1.203	0.000	1.203	-0.001	0.000	-0.001
	32:CIMX1	0.002	-0.253	0.000	0.253	-0.000	0.000	-0.001
	33:CIMX2	-0.001	-1.270	-0.000	1.270	-0.001	-0.000	-0.001
	34:CIMX3	0.001	-1.026	0.000	1.026	-0.001	0.000	-0.001
	35:CIMX4	-0.002	-2.043	-0.000	2.043	-0.001	-0.000	-0.001
	36:CIMX5	0.001	0.289	0.000	0.289	-0.000	0.000	-0.001
	37:CIMX6	-0.000	-0.018	-0.000	0.018	-0.000	-0.000	-0.001
	38:CIMX7	0.000	-2.278	0.000	2.278	-0.001	0.000	-0.001
	39:CIMX8	-0.001	-2.585	-0.000	2.585	-0.001	-0.000	-0.001
	40:CIMX9	0.001	-0.308	0.000	0.308	-0.000	0.000	-0.001
	41:CIMX10	0.001	-1.081	0.000	1.081	-0.001	0.000	-0.001
	42:CIMX11	-0.001	-1.325	-0.000	1.325	-0.001	-0.000	-0.001
	43:CIMX12	-0.002	-2.099	-0.000	2.099	-0.001	-0.000	-0.001
	44:CIMX13	0.001	0.234	0.000	0.234	-0.000	0.000	-0.001
	45:CIMX14	0.000	-2.334	0.000	2.334	-0.001	0.000	-0.001
	46:CIMX15	-0.000	-0.073	-0.000	0.073	-0.000	-0.000	-0.001
	47:CIMX16	-0.001	-2.640	-0.000	2.640	-0.001	-0.000	-0.001
6	31:CIM	0.000	-0.894	0.000	0.894	0.001	0.000	-0.001
	32:CIMX1	0.002	-0.292	0.000	0.292	0.001	0.000	-0.000
	33:CIMX2	-0.001	-1.067	-0.000	1.067	0.001	-0.000	-0.001
	34:CIMX3	0.001	-1.044	0.000	1.044	0.001	0.000	-0.000
	35:CIMX4	-0.002	-1.819	-0.000	1.819	0.000	-0.000	-0.001
	36:CIMX5	0.001	0.309	0.000	0.309	0.001	0.000	-0.001
	37:CIMX6	-0.000	0.075	-0.000	0.075	0.001	-0.000	-0.001
	38:CIMX7	0.000	-2.187	0.000	2.187	0.000	0.000	-0.001
	39:CIMX8	-0.001	-2.420	-0.000	2.420	0.000	-0.000	-0.001
	40:CIMX9	0.002	-0.131	0.000	0.131	0.001	0.000	-0.001
	41:CIMX10	0.001	-0.883	0.000	0.883	0.001	0.000	-0.001
	42:CIMX11	-0.001	-0.906	-0.000	0.906	0.001	-0.000	-0.001
	43:CIMX12	-0.001	-1.658	-0.000	1.658	0.000	-0.000	-0.001
	44:CIMX13	0.001	0.470	0.000	0.470	0.001	0.000	-0.001
	45:CIMX14	0.000	-2.026	0.000	2.026	0.000	0.000	-0.001
	46:CIMX15	-0.000	0.237	-0.000	0.237	0.001	-0.000	-0.001
	47:CIMX16	-0.001	-2.259	-0.000	2.259	0.000	-0.000	-0.001
7	31:CIM	-0.000	-3.548	0.000	3.548	-0.002	0.000	-0.000
	32:CIMX1	0.001	-2.491	0.000	2.491	-0.002	0.000	0.000
	33:CIMX2	-0.001	-3.081	0.000	3.081	-0.002	-0.000	-0.000
	34:CIMX3	0.001	-3.334	0.000	3.334	-0.002	0.000	0.000
	35:CIMX4	-0.001	-3.924	0.000	3.924	-0.002	-0.000	-0.000
	36:CIMX5	0.000	-1.720	0.000	1.720	-0.001	0.000	0.000
	37:CIMX6	-0.000	-1.897	0.000	1.897	-0.001	-0.000	-0.000
	38:CIMX7	0.000	-4.518	0.000	4.518	-0.002	0.000	0.000
	39:CIMX8	-0.000	-4.695	0.000	4.695	-0.003	-0.000	-0.000
	40:CIMX9	0.001	-2.832	0.000	2.832	-0.002	0.000	0.000
	41:CIMX10	0.001	-3.675	0.000	3.675	-0.002	0.000	0.000
	42:CIMX11	-0.001	-3.421	0.000	3.421	-0.002	-0.000	-0.000
	43:CIMX12	-0.001	-4.264	0.000	4.264	-0.002	-0.000	-0.000
	44:CIMX13	0.000	-2.060	0.000	2.060	-0.002	0.000	0.000
	45:CIMX14	0.000	-4.858	0.000	4.858	-0.003	0.000	0.000
	46:CIMX15	-0.000	-2.237	0.000	2.237	-0.002	-0.000	-0.000
	47:CIMX16	-0.000	-5.036	-0.000	5.036	-0.003	-0.000	-0.000
8	31:CIM	0.000	-2.232	-0.000	2.232	0.002	0.000	0.000
	32:CIMX1	0.001	-1.754	0.000	1.754	0.002	0.000	0.000
	33:CIMX2	-0.001	-2.320	-0.000	2.320	0.002	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	34:CIMX3	0.001	-2.567	-0.000	2.567	0.002	0.000	0.000
	35:CIMX4	-0.001	-3.133	-0.000	3.133	0.001	-0.000	-0.000
	36:CIMX5	0.000	-1.010	-0.000	1.010	0.002	0.000	0.000
	37:CIMX6	-0.000	-1.180	-0.000	1.180	0.002	-0.000	0.000
	38:CIMX7	0.000	-3.707	-0.000	3.707	0.001	0.000	0.000
	39:CIMX8	-0.000	-3.877	-0.000	3.877	0.001	-0.000	-0.000
	40:CIMX9	0.001	-1.543	0.000	1.543	0.002	0.000	0.000
	41:CIMX10	0.001	-2.355	0.000	2.355	0.002	0.000	0.000
	42:CIMX11	-0.001	-2.108	-0.000	2.108	0.002	-0.000	-0.000
	43:CIMX12	-0.001	-2.921	-0.000	2.921	0.001	-0.000	-0.000
	44:CIMX13	0.000	-0.798	-0.000	0.798	0.002	0.000	0.000
	45:CIMX14	0.000	-3.495	-0.000	3.495	0.001	0.000	0.000
	46:CIMX15	-0.000	-0.968	-0.000	0.968	0.002	-0.000	0.000
	47:CIMX16	-0.000	-3.666	-0.000	3.666	0.001	-0.000	-0.000
9	31:CIM	-0.000	-1.233	-0.000	1.233	-0.001	0.000	0.001
	32:CIMX1	0.001	-0.339	0.000	0.339	-0.000	0.000	0.001
	33:CIMX2	-0.001	-1.262	-0.000	1.262	-0.001	-0.000	0.001
	34:CIMX3	0.001	-1.077	0.000	1.077	-0.001	0.000	0.001
	35:CIMX4	-0.002	-2.000	-0.000	2.000	-0.001	-0.000	0.001
	36:CIMX5	0.001	0.194	0.000	0.194	-0.000	0.000	0.001
	37:CIMX6	-0.000	-0.085	-0.000	0.085	-0.000	-0.000	0.001
	38:CIMX7	0.000	-2.254	0.000	2.254	-0.001	0.000	0.001
	39:CIMX8	-0.001	-2.532	-0.000	2.532	-0.001	-0.000	0.001
	40:CIMX9	0.001	-0.402	0.000	0.402	-0.000	0.000	0.001
	41:CIMX10	0.001	-1.140	0.000	1.140	-0.001	0.000	0.001
	42:CIMX11	-0.001	-1.325	-0.000	1.325	-0.001	-0.000	0.001
	43:CIMX12	-0.002	-2.063	-0.000	2.063	-0.001	-0.000	0.001
	44:CIMX13	0.001	0.130	0.000	0.130	-0.000	0.000	0.001
	45:CIMX14	0.000	-2.317	0.000	2.317	-0.001	0.000	0.001
	46:CIMX15	-0.000	-0.148	-0.000	0.148	-0.000	-0.000	0.001
	47:CIMX16	-0.001	-2.595	-0.000	2.595	-0.001	-0.000	0.001
12	31:CIM	0.000	-0.807	-0.000	0.807	0.001	0.000	0.001
	32:CIMX1	0.002	-0.150	0.000	0.150	0.001	0.000	0.001
	33:CIMX2	-0.001	-0.886	-0.000	0.886	0.001	-0.000	0.000
	34:CIMX3	0.001	-0.844	0.000	0.844	0.001	0.000	0.001
	35:CIMX4	-0.002	-1.580	-0.000	1.580	0.000	-0.000	0.000
	36:CIMX5	0.001	0.397	0.000	0.397	0.001	0.000	0.001
	37:CIMX6	-0.000	0.176	-0.000	0.176	0.001	-0.000	0.001
	38:CIMX7	0.000	-1.905	0.000	1.905	0.000	0.000	0.001
	39:CIMX8	-0.001	-2.127	-0.000	2.127	-0.000	-0.000	0.001
	40:CIMX9	0.002	-0.092	0.000	0.092	0.001	0.000	0.001
	41:CIMX10	0.001	-0.785	0.000	0.785	0.001	0.000	0.001
	42:CIMX11	-0.001	-0.828	-0.000	0.828	0.001	-0.000	0.000
	43:CIMX12	-0.001	-1.521	-0.000	1.521	0.000	-0.000	0.000
	44:CIMX13	0.001	0.456	0.000	0.456	0.001	0.000	0.001
	45:CIMX14	0.000	-1.847	0.000	1.847	0.000	0.000	0.001
	46:CIMX15	-0.000	0.234	-0.000	0.234	0.001	-0.000	0.001
	47:CIMX16	-0.001	-2.069	-0.000	2.069	0.000	-0.000	0.001
19	31:CIM	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	32:CIMX1	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	33:CIMX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	35:CIMX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	-0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	37:CIMX6	0.000	0.000	0.000	0.000	-0.000	-0.000	0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	41:CIMX10	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	42:CIMX11	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	43:CIMX12	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	45:CIMX14	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	46:CIMX15	0.000	0.000	0.000	0.000	-0.000	-0.000	0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
20	31:CIM	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	33:CIMX2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	35:CIMX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	37:CIMX6	0.000	0.000	0.000	0.000	0.001	-0.000	0.000
	38:CIMX7	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	41:CIMX10	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	42:CIMX11	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	43:CIMX12	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	45:CIMX14	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.001	-0.000	0.000
	47:CIMX16	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
22	31:CIM	-0.157	-0.851	0.048	0.867	-0.000	0.000	-0.001
	32:CIMX1	2.885	0.551	2.328	3.748	0.000	0.000	-0.000
	33:CIMX2	-2.685	-0.977	-0.380	2.882	-0.000	-0.000	-0.001
	34:CIMX3	2.455	-0.434	0.455	2.535	-0.000	0.000	-0.000
	35:CIMX4	-3.115	-1.963	-2.253	4.316	-0.001	-0.000	-0.001
	36:CIMX5	1.438	1.160	3.553	4.005	0.000	0.000	-0.000
	37:CIMX6	-0.240	0.699	2.737	2.835	0.000	-0.000	-0.000
	38:CIMX7	0.011	-2.111	-2.662	3.398	-0.001	0.000	-0.000
	39:CIMX8	-1.667	-2.572	-3.478	4.636	-0.001	-0.000	-0.001
	40:CIMX9	2.843	0.406	2.339	3.704	0.000	0.000	-0.000
	41:CIMX10	2.413	-0.580	0.466	2.525	-0.000	0.000	-0.000
	42:CIMX11	-2.727	-1.122	-0.370	2.972	-0.001	-0.000	-0.001
	43:CIMX12	-3.157	-2.108	-2.242	4.409	-0.001	-0.000	-0.001
	44:CIMX13	1.396	1.015	3.564	3.960	0.000	0.000	-0.000
	45:CIMX14	-0.031	-2.256	-2.651	3.482	-0.001	0.000	-0.000
	46:CIMX15	-0.283	0.554	2.748	2.818	0.000	-0.000	-0.001
	47:CIMX16	-1.709	-2.717	-3.467	4.725	-0.001	-0.000	-0.001
23	31:CIM	0.115	-1.485	0.013	1.489	0.001	0.000	-0.000
	32:CIMX1	5.438	0.030	2.284	5.898	0.001	0.000	0.000
	33:CIMX2	-4.855	-1.129	-0.349	4.997	0.000	-0.000	-0.001
	34:CIMX3	4.998	-0.927	0.404	5.100	0.001	0.000	0.000
	35:CIMX4	-5.295	-2.086	-2.228	6.112	0.000	-0.000	-0.001
	36:CIMX5	2.352	0.735	3.544	4.317	0.001	0.000	-0.000
	37:CIMX6	-0.749	0.386	2.751	2.877	0.001	-0.000	-0.000
	38:CIMX7	0.892	-2.442	-2.695	3.745	-0.000	0.000	-0.000
	39:CIMX8	-2.209	-2.791	-3.488	4.984	-0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	40:CIMX9	5.482	-0.427	2.270	5.948	0.001	0.000	0.000
	41:CIMX10	5.042	-1.384	0.390	5.243	0.001	0.000	0.000
	42:CIMX11	-4.811	-1.586	-0.363	5.079	0.001	-0.000	-0.001
	43:CIMX12	-5.251	-2.543	-2.243	6.251	0.000	-0.000	-0.001
	44:CIMX13	2.396	0.278	3.529	4.275	0.002	0.000	-0.000
	45:CIMX14	0.936	-2.899	-2.710	4.077	0.000	0.000	-0.000
	46:CIMX15	-0.706	-0.071	2.736	2.827	0.001	-0.000	-0.001
	47:CIMX16	-2.165	-3.248	-3.503	5.245	-0.000	-0.000	-0.001
24	31:CIM	-0.158	-1.624	-0.019	1.632	-0.001	0.000	0.000
	32:CIMX1	2.882	-0.550	1.533	3.310	-0.000	0.000	0.000
	33:CIMX2	-2.686	-1.170	0.265	2.942	-0.001	-0.000	-0.000
	34:CIMX3	2.454	-1.438	-0.283	2.858	-0.001	0.000	0.000
	35:CIMX4	-3.115	-2.058	-1.550	4.042	-0.001	-0.000	-0.000
	36:CIMX5	1.434	0.262	3.195	3.512	-0.000	0.000	0.000
	37:CIMX6	-0.244	0.075	2.813	2.824	-0.000	-0.000	-0.000
	38:CIMX7	0.011	-2.684	-2.831	3.901	-0.001	0.000	0.000
	39:CIMX8	-1.666	-2.870	-3.213	4.619	-0.001	-0.000	-0.000
	40:CIMX9	2.840	-0.870	1.523	3.338	-0.001	0.000	0.000
	41:CIMX10	2.412	-1.758	-0.292	2.999	-0.001	0.000	0.000
	42:CIMX11	-2.728	-1.490	0.255	3.119	-0.001	-0.000	-0.000
	43:CIMX12	-3.157	-2.377	-1.560	4.249	-0.001	-0.000	-0.000
	44:CIMX13	1.392	-0.058	3.185	3.476	-0.000	0.000	0.000
	45:CIMX14	-0.031	-3.003	-2.840	4.134	-0.002	0.000	0.000
	46:CIMX15	-0.286	-0.244	2.803	2.828	-0.000	-0.000	-0.000
	47:CIMX16	-1.708	-3.190	-3.222	4.845	-0.002	-0.000	-0.000
25	31:CIM	0.113	-1.383	-0.034	1.388	0.001	0.000	0.000
	32:CIMX1	5.430	-0.358	1.538	5.656	0.001	0.000	0.000
	33:CIMX2	-4.853	-0.945	0.266	4.951	0.001	-0.000	-0.000
	34:CIMX3	4.991	-1.186	-0.277	5.137	0.001	0.000	0.000
	35:CIMX4	-5.292	-1.773	-1.549	5.792	0.000	-0.000	-0.000
	36:CIMX5	2.347	0.396	3.199	3.987	0.001	0.000	0.000
	37:CIMX6	-0.751	0.219	2.816	2.922	0.001	-0.000	0.000
	38:CIMX7	0.889	-2.350	-2.826	3.781	0.000	0.000	0.000
	39:CIMX8	-2.209	-2.527	-3.209	4.644	-0.000	-0.000	0.000
	40:CIMX9	5.474	-0.676	1.509	5.718	0.001	0.000	0.000
	41:CIMX10	5.035	-1.503	-0.306	5.263	0.001	0.000	0.000
	42:CIMX11	-4.809	-1.263	0.237	4.978	0.001	-0.000	0.000
	43:CIMX12	-5.249	-2.090	-1.578	5.866	0.000	-0.000	0.000
	44:CIMX13	2.391	0.078	3.169	3.971	0.001	0.000	0.000
	45:CIMX14	0.932	-2.668	-2.855	4.017	0.000	0.000	0.000
	46:CIMX15	-0.707	-0.099	2.786	2.876	0.001	-0.000	0.000
	47:CIMX16	-2.166	-2.844	-3.238	4.824	0.000	-0.000	0.000
26	31:CIM	-0.161	-0.876	-0.096	0.896	-0.000	0.000	0.001
	32:CIMX1	2.878	0.493	2.099	3.596	0.000	0.000	0.001
	33:CIMX2	-2.688	-0.922	-0.452	2.877	-0.000	-0.000	0.000
	34:CIMX3	2.451	-0.515	0.327	2.525	-0.000	0.000	0.001
	35:CIMX4	-3.115	-1.930	-2.224	4.287	-0.001	-0.000	0.000
	36:CIMX5	1.429	1.166	3.262	3.748	0.000	0.000	0.001
	37:CIMX6	-0.248	0.740	2.494	2.613	0.000	-0.000	0.000
	38:CIMX7	0.011	-2.177	-2.619	3.406	-0.001	0.000	0.000
	39:CIMX8	-1.666	-2.603	-3.388	4.586	-0.001	-0.000	0.000
	40:CIMX9	2.836	0.335	2.066	3.524	0.000	0.000	0.001
	41:CIMX10	2.409	-0.673	0.294	2.518	-0.000	0.000	0.001
	42:CIMX11	-2.730	-1.080	-0.486	2.976	-0.001	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	43:CIMX12	-3.157	-2.087	-2.257	4.407	-0.001	-0.000	0.000
	44:CIMX13	1.387	1.009	3.229	3.656	0.000	0.000	0.001
	45:CIMX14	-0.031	-2.335	-2.652	3.534	-0.001	0.000	0.001
	46:CIMX15	-0.290	0.582	2.460	2.545	0.000	-0.000	0.001
	47:CIMX16	-1.708	-2.761	-3.421	4.716	-0.001	-0.000	0.000
28	31:CIM	0.000	0.000	0.000	0.000	0.000	0.000	-0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	34:CIMX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
	37:CIMX6	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.000	0.000	-0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	40:CIMX9	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	0.000	0.000	-0.000
	42:CIMX11	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	43:CIMX12	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	44:CIMX13	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
	45:CIMX14	0.000	0.000	0.000	0.000	-0.000	0.000	-0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
29	31:CIM	0.108	-0.708	-0.059	0.719	0.000	0.000	0.001
	32:CIMX1	5.423	0.477	2.096	5.833	0.001	0.000	0.001
	33:CIMX2	-4.852	-0.706	-0.377	4.918	0.000	-0.000	0.000
	34:CIMX3	4.983	-0.457	0.331	5.015	0.000	0.000	0.001
	35:CIMX4	-5.291	-1.640	-2.142	5.939	-0.000	-0.000	0.000
	36:CIMX5	2.342	1.147	3.279	4.190	0.001	0.000	0.001
	37:CIMX6	-0.753	0.791	2.534	2.760	0.001	-0.000	0.000
	38:CIMX7	0.884	-1.954	-2.580	3.356	-0.000	0.000	0.000
	39:CIMX8	-2.211	-2.311	-3.325	4.614	-0.001	-0.000	0.000
	40:CIMX9	5.465	0.351	2.060	5.851	0.001	0.000	0.001
	41:CIMX10	5.026	-0.584	0.295	5.068	0.000	0.000	0.001
	42:CIMX11	-4.809	-0.832	-0.413	4.898	0.000	-0.000	0.000
	43:CIMX12	-5.249	-1.767	-2.178	5.951	-0.000	-0.000	0.000
	44:CIMX13	2.385	1.021	3.243	4.153	0.001	0.000	0.001
	45:CIMX14	0.927	-2.081	-2.616	3.469	-0.000	0.000	0.001
	46:CIMX15	-0.710	0.665	2.498	2.681	0.001	-0.000	0.000
	47:CIMX16	-2.168	-2.437	-3.361	4.684	-0.000	-0.000	0.000
30	31:CIM	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	33:CIMX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	35:CIMX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	37:CIMX6	0.000	0.000	0.000	0.000	0.000	-0.000	0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	0.000
	40:CIMX9	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	41:CIMX10	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	42:CIMX11	0.000	0.000	0.000	0.000	0.000	-0.000	0.000
	43:CIMX12	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	45:CIMX14	0.000	0.000	0.000	0.000	-0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	46:CIMX15	0.000	0.000	0.000	0.000	0.001	-0.000	0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	0.000
31	31:CIM	0.000	0.000	0.000	0.000	-0.000	0.000	-0.000
	32:CIMX1	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	34:CIMX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	36:CIMX5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.000	0.000	-0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	42:CIMX11	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	43:CIMX12	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	44:CIMX13	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	45:CIMX14	0.000	0.000	0.000	0.000	-0.001	0.000	-0.000
	46:CIMX15	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
32	31:CIM	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	34:CIMX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	37:CIMX6	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	38:CIMX7	0.000	0.000	0.000	0.000	0.000	0.000	-0.000
	39:CIMX8	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	42:CIMX11	0.000	0.000	0.000	0.000	0.001	-0.000	-0.001
	43:CIMX12	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	44:CIMX13	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
	45:CIMX14	0.000	0.000	0.000	0.000	0.000	0.000	-0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	47:CIMX16	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
33	31:CIM	0.000	0.000	0.000	0.000	-0.000	0.000	-0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	34:CIMX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	-0.000
	37:CIMX6	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.001	0.000	-0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	40:CIMX9	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	42:CIMX11	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.001
	43:CIMX12	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	44:CIMX13	0.000	0.000	0.000	0.000	0.000	0.000	-0.000
	45:CIMX14	0.000	0.000	0.000	0.000	-0.001	0.000	-0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.000	-0.000	-0.001
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
34	31:CIM	0.000	0.000	0.000	0.000	-0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	32:CIMX1	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	33:CIMX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	35:CIMX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	37:CIMX6	0.000	0.000	0.000	0.000	0.000	-0.000	0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	41:CIMX10	0.000	0.000	0.000	0.000	-0.000	0.000	0.001
	42:CIMX11	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	43:CIMX12	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	45:CIMX14	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.000	-0.000	0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	0.000
35	31:CIM	0.000	0.000	0.000	0.000	-0.000	0.000	-0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	37:CIMX6	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	42:CIMX11	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	43:CIMX12	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	45:CIMX14	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
36	31:CIM	0.065	-0.458	-0.068	0.468	-0.000	0.000	0.000
	32:CIMX1	3.676	-0.005	2.000	4.184	0.000	0.000	0.001
	33:CIMX2	-3.279	-0.673	-0.300	3.361	-0.000	-0.000	-0.000
	34:CIMX3	3.354	-0.041	0.230	3.362	-0.000	0.000	0.001
	35:CIMX4	-3.601	-0.709	-2.070	4.214	-0.000	-0.000	-0.000
	36:CIMX5	1.619	-0.197	3.249	3.635	0.000	0.000	0.000
	37:CIMX6	-0.476	-0.398	2.556	2.631	0.000	-0.000	0.000
	38:CIMX7	0.551	-0.316	-2.626	2.701	-0.000	0.000	0.000
	39:CIMX8	-1.545	-0.517	-3.319	3.697	-0.000	-0.000	-0.000
	40:CIMX9	3.703	-0.107	1.967	4.195	0.000	0.000	0.001
	41:CIMX10	3.381	-0.142	0.197	3.390	-0.000	0.000	0.001
	42:CIMX11	-3.252	-0.775	-0.332	3.359	-0.000	-0.000	-0.000
	43:CIMX12	-3.573	-0.810	-2.102	4.224	-0.000	-0.000	-0.000
	44:CIMX13	1.647	-0.299	3.216	3.626	0.000	0.000	0.000
	45:CIMX14	0.578	-0.417	-2.659	2.753	-0.000	0.000	0.000
	46:CIMX15	-0.448	-0.500	2.524	2.611	0.000	-0.000	0.000
	47:CIMX16	-1.517	-0.618	-3.351	3.730	-0.000	-0.000	-0.000
37	31:CIM	0.014	-0.474	-0.075	0.481	0.000	0.000	0.000
	32:CIMX1	3.100	-0.079	2.001	3.690	0.000	0.000	0.001
	33:CIMX2	-2.775	-0.629	-0.314	2.863	-0.000	-0.000	-0.000
	34:CIMX3	2.781	-0.105	0.230	2.792	0.000	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	35:CIMX4	-3.094	-0.655	-2.085	3.788	-0.000	-0.000	-0.000
	36:CIMX5	1.417	-0.241	3.246	3.550	0.000	0.000	0.000
	37:CIMX6	-0.353	-0.407	2.549	2.605	0.000	-0.000	0.000
	38:CIMX7	0.359	-0.327	-2.633	2.677	-0.000	0.000	0.000
	39:CIMX8	-1.411	-0.493	-3.330	3.650	-0.000	-0.000	0.000
	40:CIMX9	3.111	-0.187	1.968	3.685	0.000	0.000	0.001
	41:CIMX10	2.792	-0.213	0.196	2.807	0.000	0.000	0.001
	42:CIMX11	-2.764	-0.736	-0.347	2.882	-0.000	-0.000	-0.000
	43:CIMX12	-3.083	-0.762	-2.118	3.818	-0.000	-0.000	-0.000
	44:CIMX13	1.428	-0.349	3.213	3.533	0.000	0.000	0.000
	45:CIMX14	0.369	-0.434	-2.666	2.726	-0.000	0.000	0.000
	46:CIMX15	-0.342	-0.514	2.516	2.590	0.000	-0.000	0.000
	47:CIMX16	-1.401	-0.600	-3.363	3.692	-0.000	-0.000	0.000
38	31:CIM	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	37:CIMX6	0.000	0.000	0.000	0.000	0.001	-0.000	0.000
	38:CIMX7	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	42:CIMX11	0.000	0.000	0.000	0.000	0.002	-0.000	-0.000
	43:CIMX12	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	45:CIMX14	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.002	-0.000	0.000
	47:CIMX16	0.000	0.000	0.000	0.000	0.001	-0.000	0.000
39	31:CIM	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	32:CIMX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	37:CIMX6	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	38:CIMX7	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	42:CIMX11	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	43:CIMX12	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	45:CIMX14	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	46:CIMX15	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
42	31:CIM	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	32:CIMX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	33:CIMX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	34:CIMX3	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	35:CIMX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	36:CIMX5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	37:CIMX6	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	38:CIMX7	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	39:CIMX8	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	40:CIMX9	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	41:CIMX10	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	42:CIMX11	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	43:CIMX12	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000
	44:CIMX13	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	45:CIMX14	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	46:CIMX15	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	47:CIMX16	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
43	31:CIM	0.015	-0.334	-0.095	0.347	-0.000	0.000	0.000
	32:CIMX1	3.101	-0.226	2.090	3.747	0.000	0.000	0.001
	33:CIMX2	-2.774	-0.290	-0.442	2.824	-0.000	-0.000	-0.001
	34:CIMX3	2.782	-0.233	0.326	2.811	-0.000	0.000	0.001
	35:CIMX4	-3.093	-0.296	-2.207	3.811	-0.001	-0.000	-0.001
	36:CIMX5	1.418	-0.241	3.251	3.555	0.001	0.000	0.000
	37:CIMX6	-0.352	-0.261	2.488	2.527	0.000	-0.000	-0.000
	38:CIMX7	0.360	-0.262	-2.605	2.643	-0.001	0.000	0.000
	39:CIMX8	-1.410	-0.281	-3.368	3.662	-0.001	-0.000	-0.000
	40:CIMX9	3.112	-0.299	2.054	3.741	0.000	0.000	0.001
	41:CIMX10	2.793	-0.305	0.289	2.825	-0.000	0.000	0.001
	42:CIMX11	-2.763	-0.362	-0.479	2.828	-0.000	-0.000	-0.001
	43:CIMX12	-3.082	-0.368	-2.243	3.830	-0.001	-0.000	-0.001
	44:CIMX13	1.429	-0.314	3.215	3.532	0.001	0.000	0.000
	45:CIMX14	0.371	-0.334	-2.641	2.688	-0.001	0.000	0.000
	46:CIMX15	-0.341	-0.333	2.452	2.498	0.000	-0.000	-0.000
	47:CIMX16	-1.399	-0.353	-3.404	3.698	-0.001	-0.000	-0.000
44	31:CIM	0.050	-0.639	-0.101	0.649	-0.000	-0.000	-0.000
	32:CIMX1	5.459	0.176	4.236	6.912	0.000	0.000	0.001
	33:CIMX2	-4.507	-0.655	-0.986	4.660	-0.000	-0.000	-0.000
	34:CIMX3	4.568	-0.337	0.843	4.657	0.000	0.000	0.000
	35:CIMX4	-5.398	-1.167	-4.378	7.048	-0.000	-0.000	-0.001
	36:CIMX5	3.010	0.481	6.346	7.040	0.000	0.000	0.000
	37:CIMX6	0.008	0.230	4.772	4.778	0.000	-0.000	0.000
	38:CIMX7	0.053	-1.221	-4.915	5.065	-0.000	0.000	-0.000
	39:CIMX8	-2.950	-1.472	-6.488	7.277	-0.000	-0.000	-0.000
	40:CIMX9	5.478	0.032	4.206	6.907	0.000	0.000	0.001
	41:CIMX10	4.587	-0.480	0.814	4.684	-0.000	0.000	0.000
	42:CIMX11	-4.487	-0.798	-1.016	4.670	-0.000	-0.000	-0.000
	43:CIMX12	-5.378	-1.311	-4.408	7.077	-0.000	-0.000	-0.001
	44:CIMX13	3.030	0.337	6.316	7.013	0.000	0.000	0.000
	45:CIMX14	0.072	-1.365	-4.945	5.130	-0.000	0.000	-0.000
	46:CIMX15	0.027	0.087	4.743	4.743	0.000	-0.000	0.000
	47:CIMX16	-2.930	-1.616	-6.518	7.327	-0.000	-0.000	-0.000
45	31:CIM	0.067	-0.332	-0.059	0.344	0.000	0.000	0.000
	32:CIMX1	3.677	-0.199	2.092	4.235	0.001	0.000	0.001
	33:CIMX2	-3.278	-0.314	-0.384	3.315	0.000	-0.000	-0.001
	34:CIMX3	3.355	-0.207	0.332	3.378	0.000	0.000	0.001
	35:CIMX4	-3.600	-0.321	-2.144	4.203	-0.000	-0.000	-0.001
	36:CIMX5	1.620	-0.230	3.268	3.655	0.001	0.000	0.000
	37:CIMX6	-0.475	-0.265	2.522	2.580	0.001	-0.000	-0.000
	38:CIMX7	0.552	-0.256	-2.574	2.645	-0.000	0.000	0.000
	39:CIMX8	-1.544	-0.290	-3.320	3.673	-0.001	-0.000	-0.000
	40:CIMX9	3.705	-0.271	2.060	4.248	0.001	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	41:CIMX10	3.383	-0.279	0.300	3.408	0.000	0.000	0.001
	42:CIMX11	-3.250	-0.386	-0.417	3.299	0.000	-0.000	-0.001
	43:CIMX12	-3.572	-0.393	-2.177	4.201	-0.000	-0.000	-0.001
	44:CIMX13	1.649	-0.302	3.236	3.644	0.001	0.000	0.000
	45:CIMX14	0.580	-0.328	-2.607	2.690	-0.000	0.000	0.000
	46:CIMX15	-0.447	-0.337	2.490	2.552	0.001	-0.000	-0.000
	47:CIMX16	-1.515	-0.362	-3.353	3.697	-0.001	-0.000	-0.000
46	31:CIM	-0.131	-0.316	0.048	0.345	0.000	0.000	0.000
	32:CIMX1	2.759	-0.221	2.328	3.617	0.001	0.000	0.001
	33:CIMX2	-2.554	-0.263	-0.381	2.596	0.000	-0.000	-0.000
	34:CIMX3	2.361	-0.233	0.456	2.416	0.000	0.000	0.001
	35:CIMX4	-2.952	-0.275	-2.253	3.724	-0.000	-0.000	-0.001
	36:CIMX5	1.365	-0.221	3.552	3.812	0.001	0.000	0.000
	37:CIMX6	-0.236	-0.234	2.736	2.756	0.001	-0.000	0.000
	38:CIMX7	0.043	-0.261	-2.662	2.675	-0.000	0.000	0.000
	39:CIMX8	-1.558	-0.274	-3.477	3.820	-0.001	-0.000	-0.000
	40:CIMX9	2.725	-0.289	2.339	3.603	0.001	0.000	0.001
	41:CIMX10	2.327	-0.301	0.467	2.392	0.000	0.000	0.001
	42:CIMX11	-2.588	-0.331	-0.370	2.635	0.000	-0.000	-0.000
	43:CIMX12	-2.987	-0.343	-2.242	3.750	-0.000	-0.000	-0.001
	44:CIMX13	1.330	-0.289	3.563	3.815	0.001	0.000	0.000
	45:CIMX14	0.009	-0.329	-2.650	2.671	-0.000	0.000	0.000
	46:CIMX15	-0.270	-0.302	2.747	2.777	0.001	-0.000	0.000
	47:CIMX16	-1.592	-0.342	-3.466	3.830	-0.001	-0.000	-0.000
47	31:CIM	0.480	-0.607	-0.069	0.777	0.000	0.000	-0.000
	32:CIMX1	10.344	0.196	4.269	11.192	0.000	0.000	0.001
	33:CIMX2	-8.888	-0.653	-0.995	8.968	-0.000	-0.000	-0.001
	34:CIMX3	9.524	-0.270	0.917	9.572	0.000	0.000	0.001
	35:CIMX4	-9.709	-1.119	-4.347	10.696	-0.000	-0.000	-0.001
	36:CIMX5	4.576	0.439	6.318	7.814	0.000	0.000	0.000
	37:CIMX6	-1.218	0.183	4.732	4.890	0.000	-0.000	-0.000
	38:CIMX7	1.854	-1.106	-4.810	5.272	-0.000	0.000	0.000
	39:CIMX8	-3.941	-1.362	-6.396	7.635	-0.000	-0.000	-0.001
	40:CIMX9	10.506	0.050	4.239	11.329	0.000	0.000	0.001
	41:CIMX10	9.686	-0.416	0.886	9.735	0.000	0.000	0.001
	42:CIMX11	-8.727	-0.799	-1.025	8.823	-0.000	-0.000	-0.001
	43:CIMX12	-9.547	-1.264	-4.377	10.578	-0.000	-0.000	-0.001
	44:CIMX13	4.738	0.294	6.288	7.879	0.000	0.000	0.000
	45:CIMX14	2.016	-1.252	-4.840	5.391	-0.000	0.000	0.000
	46:CIMX15	-1.056	0.038	4.702	4.819	0.000	-0.000	-0.000
	47:CIMX16	-3.779	-1.508	-6.426	7.606	-0.000	-0.000	-0.001
48	31:CIM	-0.131	-0.328	-0.096	0.366	0.000	0.000	0.000
	32:CIMX1	2.751	-0.233	2.098	3.468	0.001	0.000	0.001
	33:CIMX2	-2.552	-0.265	-0.452	2.605	0.000	-0.000	-0.000
	34:CIMX3	2.355	-0.251	0.326	2.390	0.000	0.000	0.001
	35:CIMX4	-2.949	-0.283	-2.224	3.704	-0.000	-0.000	-0.000
	36:CIMX5	1.359	-0.222	3.261	3.540	0.001	0.000	0.000
	37:CIMX6	-0.239	-0.232	2.493	2.515	0.001	-0.000	0.000
	38:CIMX7	0.042	-0.284	-2.619	2.635	-0.000	0.000	0.000
	39:CIMX8	-1.556	-0.294	-3.387	3.739	-0.001	-0.000	-0.000
	40:CIMX9	2.719	-0.303	2.065	3.428	0.001	0.000	0.001
	41:CIMX10	2.322	-0.322	0.293	2.363	0.000	0.000	0.001
	42:CIMX11	-2.584	-0.335	-0.486	2.651	0.000	-0.000	-0.000
	43:CIMX12	-2.981	-0.354	-2.257	3.756	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	44:CIMX13	1.326	-0.292	3.228	3.502	0.001	0.000	0.000
	45:CIMX14	0.009	-0.355	-2.652	2.676	-0.000	0.000	0.000
	46:CIMX15	-0.271	-0.302	2.460	2.493	0.001	-0.000	0.000
	47:CIMX16	-1.589	-0.364	-3.420	3.789	-0.001	-0.000	-0.000
49	31:CIM	0.008	-0.411	0.038	0.413	-0.000	0.000	-0.000
	32:CIMX1	3.097	-0.262	2.311	3.873	0.000	0.000	0.001
	33:CIMX2	-2.777	-0.306	-0.371	2.819	-0.000	-0.000	-0.001
	34:CIMX3	2.778	-0.279	0.440	2.827	-0.000	0.000	0.001
	35:CIMX4	-3.096	-0.323	-2.243	3.836	-0.001	-0.000	-0.001
	36:CIMX5	1.414	-0.257	3.544	3.824	0.001	0.000	0.000
	37:CIMX6	-0.355	-0.271	2.736	2.772	0.000	-0.000	-0.000
	38:CIMX7	0.357	-0.314	-2.667	2.709	-0.001	0.000	-0.000
	39:CIMX8	-1.413	-0.327	-3.475	3.766	-0.001	-0.000	-0.000
	40:CIMX9	3.105	-0.381	2.315	3.891	0.000	0.000	0.001
	41:CIMX10	2.786	-0.398	0.444	2.849	-0.000	0.000	0.000
	42:CIMX11	-2.770	-0.425	-0.368	2.826	-0.001	-0.000	-0.001
	43:CIMX12	-3.088	-0.442	-2.239	3.840	-0.001	-0.000	-0.001
	44:CIMX13	1.422	-0.377	3.548	3.840	0.001	0.000	0.000
	45:CIMX14	0.364	-0.433	-2.663	2.723	-0.001	0.000	-0.000
	46:CIMX15	-0.348	-0.390	2.739	2.789	0.000	-0.000	-0.000
	47:CIMX16	-1.406	-0.446	-3.472	3.772	-0.001	-0.000	-0.000
50	31:CIM	0.058	-0.410	0.039	0.416	0.001	0.000	-0.000
	32:CIMX1	3.673	-0.234	2.299	4.339	0.001	0.000	0.001
	33:CIMX2	-3.283	-0.346	-0.350	3.319	0.000	-0.000	-0.001
	34:CIMX3	3.351	-0.246	0.425	3.387	0.001	0.000	0.001
	35:CIMX4	-3.605	-0.357	-2.224	4.251	-0.000	-0.000	-0.001
	36:CIMX5	1.616	-0.259	3.547	3.906	0.001	0.000	0.000
	37:CIMX6	-0.480	-0.293	2.749	2.805	0.001	-0.000	-0.000
	38:CIMX7	0.548	-0.299	-2.674	2.746	-0.000	0.000	-0.000
	39:CIMX8	-1.548	-0.332	-3.472	3.816	-0.000	-0.000	-0.001
	40:CIMX9	3.696	-0.348	2.300	4.368	0.001	0.000	0.001
	41:CIMX10	3.374	-0.360	0.426	3.420	0.001	0.000	0.000
	42:CIMX11	-3.259	-0.460	-0.348	3.310	0.000	-0.000	-0.001
	43:CIMX12	-3.581	-0.471	-2.222	4.241	-0.000	-0.000	-0.001
	44:CIMX13	1.639	-0.373	3.548	3.926	0.002	0.000	0.000
	45:CIMX14	0.571	-0.413	-2.672	2.764	-0.000	0.000	-0.000
	46:CIMX15	-0.456	-0.407	2.750	2.817	0.001	-0.000	-0.000
	47:CIMX16	-1.524	-0.446	-3.470	3.816	-0.000	-0.000	-0.001
51	31:CIM	0.098	-0.370	0.013	0.383	-0.000	0.000	-0.000
	32:CIMX1	5.068	-0.241	2.283	5.564	0.000	0.000	0.001
	33:CIMX2	-4.540	-0.307	-0.348	4.564	-0.000	-0.000	-0.001
	34:CIMX3	4.659	-0.253	0.404	4.684	-0.000	0.000	0.001
	35:CIMX4	-4.949	-0.319	-2.228	5.436	-0.001	-0.000	-0.001
	36:CIMX5	2.185	-0.249	3.543	4.170	0.001	0.000	0.000
	37:CIMX6	-0.709	-0.269	2.750	2.853	0.001	-0.000	-0.000
	38:CIMX7	0.829	-0.290	-2.694	2.834	-0.001	0.000	0.000
	39:CIMX8	-2.066	-0.310	-3.487	4.065	-0.001	-0.000	-0.000
	40:CIMX9	5.106	-0.331	2.269	5.597	0.000	0.000	0.001
	41:CIMX10	4.697	-0.343	0.389	4.726	-0.000	0.000	0.001
	42:CIMX11	-4.502	-0.397	-0.363	4.534	-0.000	-0.000	-0.001
	43:CIMX12	-4.911	-0.409	-2.243	5.414	-0.001	-0.000	-0.001
	44:CIMX13	2.223	-0.340	3.528	4.184	0.001	0.000	0.000
	45:CIMX14	0.867	-0.381	-2.709	2.870	-0.001	0.000	0.000
	46:CIMX15	-0.672	-0.360	2.735	2.839	0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	47:CIMX16	-2.028	-0.401	-3.502	4.067	-0.001	-0.000	-0.000
52	31:CIM	0.099	-0.327	-0.059	0.347	-0.000	0.000	0.000
	32:CIMX1	5.051	-0.226	2.095	5.473	0.000	0.000	0.001
	33:CIMX2	-4.528	-0.274	-0.376	4.551	-0.000	-0.000	-0.001
	34:CIMX3	4.644	-0.240	0.330	4.662	-0.000	0.000	0.001
	35:CIMX4	-4.935	-0.287	-2.141	5.387	-0.001	-0.000	-0.001
	36:CIMX5	2.178	-0.228	3.279	3.942	0.001	0.000	0.000
	37:CIMX6	-0.708	-0.242	2.534	2.642	0.000	-0.000	-0.000
	38:CIMX7	0.825	-0.271	-2.580	2.722	-0.001	0.000	0.000
	39:CIMX8	-2.061	-0.286	-3.324	3.922	-0.001	-0.000	-0.000
	40:CIMX9	5.092	-0.297	2.059	5.501	0.000	0.000	0.001
	41:CIMX10	4.685	-0.310	0.294	4.704	-0.000	0.000	0.001
	42:CIMX11	-4.487	-0.344	-0.412	4.519	-0.000	-0.000	-0.001
	43:CIMX12	-4.895	-0.357	-2.177	5.369	-0.001	-0.000	-0.001
	44:CIMX13	2.218	-0.298	3.243	3.940	0.001	0.000	0.000
	45:CIMX14	0.865	-0.342	-2.616	2.777	-0.001	0.000	0.000
	46:CIMX15	-0.668	-0.312	2.498	2.605	0.000	-0.000	-0.000
	47:CIMX16	-2.021	-0.356	-3.360	3.937	-0.001	-0.000	-0.000
53	31:CIM	0.100	-0.468	-0.036	0.480	-0.000	0.000	0.000
	32:CIMX1	5.058	-0.340	1.537	5.297	-0.000	0.000	0.001
	33:CIMX2	-4.530	-0.363	0.266	4.552	-0.000	-0.000	-0.001
	34:CIMX3	4.650	-0.346	-0.277	4.671	-0.000	0.000	0.001
	35:CIMX4	-4.938	-0.369	-1.548	5.188	-0.001	-0.000	-0.001
	36:CIMX5	2.181	-0.341	3.197	3.885	0.000	0.000	0.000
	37:CIMX6	-0.707	-0.348	2.814	2.922	0.000	-0.000	-0.000
	38:CIMX7	0.827	-0.361	-2.825	2.966	-0.001	0.000	0.000
	39:CIMX8	-2.061	-0.368	-3.208	3.831	-0.001	-0.000	-0.000
	40:CIMX9	5.097	-0.454	1.507	5.335	-0.000	0.000	0.001
	41:CIMX10	4.689	-0.460	-0.307	4.722	-0.001	0.000	0.001
	42:CIMX11	-4.490	-0.477	0.236	4.521	-0.000	-0.000	-0.000
	43:CIMX12	-4.898	-0.483	-1.578	5.169	-0.001	-0.000	-0.001
	44:CIMX13	2.221	-0.455	3.167	3.895	0.000	0.000	0.000
	45:CIMX14	0.867	-0.475	-2.855	3.021	-0.001	0.000	0.000
	46:CIMX15	-0.668	-0.462	2.784	2.900	0.000	-0.000	-0.000
	47:CIMX16	-2.021	-0.482	-3.238	3.847	-0.001	-0.000	-0.000
54	31:CIM	0.557	-0.804	-0.073	0.981	-0.000	0.000	0.000
	32:CIMX1	7.710	-0.502	4.120	8.756	0.000	0.000	0.001
	33:CIMX2	-6.358	-0.757	-0.793	6.452	-0.000	-0.000	0.000
	34:CIMX3	7.066	-0.516	0.701	7.119	0.000	0.000	0.001
	35:CIMX4	-7.002	-0.771	-4.212	8.208	-0.000	-0.000	0.000
	36:CIMX5	3.542	-0.575	6.369	7.310	0.000	0.000	0.001
	37:CIMX6	-0.697	-0.652	4.889	4.981	0.000	-0.000	0.000
	38:CIMX7	1.404	-0.621	-4.981	5.212	-0.000	0.000	0.000
	39:CIMX8	-2.834	-0.698	-6.461	7.090	-0.000	-0.000	0.000
	40:CIMX9	7.913	-0.670	4.093	8.934	0.000	0.000	0.001
	41:CIMX10	7.269	-0.684	0.674	7.332	0.000	0.000	0.001
	42:CIMX11	-6.155	-0.925	-0.819	6.278	-0.000	-0.000	0.000
	43:CIMX12	-6.799	-0.939	-4.239	8.067	-0.000	-0.000	0.000
	44:CIMX13	3.745	-0.743	6.342	7.403	0.000	0.000	0.001
	45:CIMX14	1.608	-0.789	-5.008	5.318	-0.000	0.000	0.000
	46:CIMX15	-0.493	-0.820	4.862	4.955	0.000	-0.000	0.000
	47:CIMX16	-2.631	-0.866	-6.488	7.054	-0.000	-0.000	0.000
55	31:CIM	0.456	-0.801	-0.071	0.925	0.000	0.000	0.000
	32:CIMX1	6.272	-0.532	4.116	7.521	0.000	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	33:CIMX2	-5.095	-0.725	-0.776	5.205	0.000	-0.000	0.000
	34:CIMX3	5.666	-0.544	0.682	5.733	0.000	0.000	0.001
	35:CIMX4	-5.701	-0.737	-4.210	7.125	-0.000	-0.000	0.000
	36:CIMX5	3.003	-0.586	6.389	7.084	0.000	0.000	0.000
	37:CIMX6	-0.422	-0.644	4.915	4.975	0.000	-0.000	0.000
	38:CIMX7	0.993	-0.625	-5.009	5.145	-0.000	0.000	0.000
	39:CIMX8	-2.432	-0.683	-6.483	6.958	-0.000	-0.000	0.000
	40:CIMX9	6.443	-0.699	4.092	7.664	0.000	0.000	0.001
	41:CIMX10	5.837	-0.710	0.658	5.917	0.000	0.000	0.001
	42:CIMX11	-4.925	-0.892	-0.800	5.068	0.000	-0.000	0.000
	43:CIMX12	-5.530	-0.904	-4.234	7.024	-0.000	-0.000	0.000
	44:CIMX13	3.174	-0.752	6.365	7.152	0.000	0.000	0.001
	45:CIMX14	1.163	-0.792	-5.033	5.226	-0.000	0.000	0.000
	46:CIMX15	-0.251	-0.811	4.891	4.964	0.000	-0.000	0.000
	47:CIMX16	-2.261	-0.850	-6.507	6.941	-0.000	-0.000	0.000
56	31:CIM	-1.951	-0.616	0.211	2.056	-0.000	-0.000	-0.000
	32:CIMX1	5.184	0.295	5.112	7.286	0.000	0.001	-0.000
	33:CIMX2	-6.779	-0.610	-0.955	6.873	-0.000	-0.000	-0.000
	34:CIMX3	3.970	-0.364	1.281	4.188	-0.000	0.000	-0.000
	35:CIMX4	-7.992	-1.269	-4.787	9.402	-0.000	-0.001	-0.000
	36:CIMX5	2.412	0.743	7.435	7.851	0.000	0.000	-0.000
	37:CIMX6	-1.192	0.471	5.607	5.751	0.000	0.000	-0.000
	38:CIMX7	-1.616	-1.444	-5.281	5.709	-0.001	-0.000	-0.000
	39:CIMX8	-5.220	-1.717	-7.109	8.986	-0.001	-0.000	-0.000
	40:CIMX9	4.637	0.166	5.160	6.940	0.000	0.001	-0.000
	41:CIMX10	3.424	-0.493	1.329	3.706	-0.000	0.000	-0.000
	42:CIMX11	-7.325	-0.738	-0.907	7.418	-0.000	-0.000	-0.001
	43:CIMX12	-8.539	-1.397	-4.738	9.865	-0.000	-0.001	-0.001
	44:CIMX13	1.865	0.615	7.483	7.737	0.000	0.000	-0.000
	45:CIMX14	-2.163	-1.573	-5.233	5.877	-0.001	-0.000	-0.000
	46:CIMX15	-1.739	0.342	5.655	5.926	0.000	0.000	-0.000
	47:CIMX16	-5.767	-1.846	-7.061	9.302	-0.001	-0.000	-0.001
57	31:CIM	-1.351	-0.547	0.118	1.462	0.000	0.000	-0.000
	32:CIMX1	11.898	0.465	5.018	12.922	0.000	0.001	0.000
	33:CIMX2	-12.829	-0.816	-1.161	12.907	-0.000	-0.001	-0.001
	34:CIMX3	10.822	-0.031	1.291	10.899	0.000	0.001	0.000
	35:CIMX4	-13.905	-1.312	-4.888	14.797	-0.000	-0.001	-0.001
	36:CIMX5	4.507	0.594	7.181	8.499	0.001	0.000	-0.000
	37:CIMX6	-2.943	0.208	5.320	6.083	0.000	0.000	-0.000
	38:CIMX7	0.936	-1.055	-5.189	5.377	-0.000	0.000	-0.000
	39:CIMX8	-6.513	-1.441	-7.051	9.706	-0.000	-0.000	-0.000
	40:CIMX9	11.551	0.342	5.071	12.619	0.001	0.001	0.000
	41:CIMX10	10.475	-0.155	1.344	10.562	0.000	0.001	-0.000
	42:CIMX11	-13.177	-0.939	-1.108	13.256	-0.000	-0.001	-0.001
	43:CIMX12	-14.252	-1.436	-4.835	15.118	-0.000	-0.001	-0.001
	44:CIMX13	4.159	0.470	7.234	8.358	0.001	0.000	-0.000
	45:CIMX14	0.589	-1.179	-5.136	5.303	-0.000	0.000	-0.000
	46:CIMX15	-3.290	0.084	5.372	6.300	0.000	0.000	-0.000
	47:CIMX16	-6.861	-1.564	-6.998	9.924	-0.000	-0.000	-0.001
58	31:CIM	-1.491	-1.644	-0.618	2.304	-0.001	0.000	0.001
	32:CIMX1	5.393	-1.184	4.065	6.857	-0.000	0.001	0.001
	33:CIMX2	-6.465	-1.256	-1.395	6.732	-0.000	-0.000	0.001
	34:CIMX3	4.312	-1.234	0.488	4.512	-0.000	0.000	0.001
	35:CIMX4	-7.546	-1.306	-4.972	9.131	-0.000	-0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	36:CIMX5	2.504	-1.151	6.306	6.882	-0.000	0.000	0.001
	37:CIMX6	-1.069	-1.172	4.661	4.923	-0.000	0.000	0.001
	38:CIMX7	-1.084	-1.317	-5.567	5.822	-0.000	0.000	0.001
	39:CIMX8	-4.657	-1.339	-7.212	8.689	-0.000	-0.000	0.001
	40:CIMX9	4.979	-1.583	3.900	6.520	-0.001	0.001	0.001
	41:CIMX10	3.898	-1.633	0.323	4.239	-0.001	0.001	0.001
	42:CIMX11	-6.879	-1.655	-1.560	7.246	-0.001	-0.000	0.001
	43:CIMX12	-7.961	-1.706	-5.137	9.626	-0.001	-0.000	0.001
	44:CIMX13	2.090	-1.550	6.140	6.669	-0.001	0.000	0.001
	45:CIMX14	-1.498	-1.717	-5.732	6.169	-0.001	0.000	0.001
	46:CIMX15	-1.483	-1.572	4.495	4.988	-0.001	0.000	0.001
	47:CIMX16	-5.071	-1.739	-7.377	9.119	-0.001	-0.000	0.001
59	31:CIM	0.060	-0.702	-0.016	0.705	0.001	0.000	0.000
	32:CIMX1	3.675	-0.491	1.546	4.017	0.001	0.000	0.000
	33:CIMX2	-3.283	-0.512	0.273	3.334	0.001	-0.000	-0.000
	34:CIMX3	3.353	-0.508	-0.272	3.402	0.001	0.000	0.000
	35:CIMX4	-3.605	-0.528	-1.544	3.958	0.001	-0.000	-0.000
	36:CIMX5	1.618	-0.479	3.209	3.626	0.001	0.000	0.000
	37:CIMX6	-0.479	-0.485	2.826	2.907	0.001	-0.000	0.000
	38:CIMX7	0.548	-0.534	-2.824	2.926	0.001	0.000	0.000
	39:CIMX8	-1.548	-0.541	-3.208	3.602	0.001	-0.000	-0.000
	40:CIMX9	3.700	-0.684	1.529	4.062	0.001	0.000	0.000
	41:CIMX10	3.378	-0.700	-0.289	3.462	0.001	0.000	0.000
	42:CIMX11	-3.258	-0.704	0.256	3.343	0.001	-0.000	-0.000
	43:CIMX12	-3.580	-0.721	-1.561	3.971	0.001	-0.000	-0.000
	44:CIMX13	1.643	-0.671	3.192	3.653	0.002	0.000	0.000
	45:CIMX14	0.574	-0.727	-2.841	2.988	0.001	0.000	0.000
	46:CIMX15	-0.453	-0.678	2.809	2.925	0.001	-0.000	0.000
	47:CIMX16	-1.523	-0.733	-3.225	3.640	0.001	-0.000	-0.000
60	31:CIM	0.010	-0.632	-0.026	0.632	-0.001	0.000	-0.000
	32:CIMX1	3.100	-0.442	1.535	3.487	-0.001	0.000	0.000
	33:CIMX2	-2.778	-0.471	0.265	2.830	-0.001	-0.000	-0.000
	34:CIMX3	2.781	-0.456	-0.283	2.832	-0.001	0.000	0.000
	35:CIMX4	-3.097	-0.486	-1.553	3.499	-0.001	-0.000	-0.000
	36:CIMX5	1.416	-0.435	3.198	3.525	-0.000	0.000	0.000
	37:CIMX6	-0.355	-0.444	2.816	2.872	-0.000	-0.000	-0.000
	38:CIMX7	0.357	-0.484	-2.834	2.897	-0.001	0.000	0.000
	39:CIMX8	-1.414	-0.492	-3.216	3.548	-0.001	-0.000	-0.000
	40:CIMX9	3.109	-0.610	1.518	3.513	-0.001	0.000	0.000
	41:CIMX10	2.790	-0.624	-0.299	2.874	-0.001	0.000	0.000
	42:CIMX11	-2.769	-0.639	0.248	2.853	-0.001	-0.000	-0.000
	43:CIMX12	-3.088	-0.654	-1.569	3.525	-0.001	-0.000	-0.000
	44:CIMX13	1.425	-0.603	3.182	3.538	-0.001	0.000	0.000
	45:CIMX14	0.366	-0.652	-2.850	2.946	-0.001	0.000	0.000
	46:CIMX15	-0.346	-0.612	2.799	2.886	-0.001	-0.000	-0.000
	47:CIMX16	-1.405	-0.660	-3.233	3.586	-0.001	-0.000	-0.000
61	31:CIM	-0.885	-1.555	0.429	1.840	0.001	-0.000	0.001
	32:CIMX1	12.027	-1.150	4.885	13.032	0.000	0.000	0.001
	33:CIMX2	-12.323	-1.194	-0.737	12.403	0.000	-0.000	0.000
	34:CIMX3	10.984	-1.155	1.387	11.132	0.000	0.000	0.001
	35:CIMX4	-13.366	-1.200	-4.235	14.072	0.000	-0.001	0.000
	36:CIMX5	4.728	-1.159	6.978	8.508	0.000	0.000	0.001
	37:CIMX6	-2.608	-1.173	5.284	6.008	0.000	-0.000	0.001
	38:CIMX7	1.269	-1.177	-4.634	4.947	0.000	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	39:CIMX8	-6.067	-1.190	-6.328	8.847	0.000	-0.000	0.001
	40:CIMX9	11.811	-1.530	4.989	12.912	0.001	0.000	0.001
	41:CIMX10	10.769	-1.536	1.491	10.979	0.001	0.000	0.001
	42:CIMX11	-12.539	-1.575	-0.632	12.654	0.001	-0.001	0.001
	43:CIMX12	-13.581	-1.580	-4.131	14.283	0.001	-0.001	0.001
	44:CIMX13	4.512	-1.540	7.082	8.538	0.001	0.000	0.001
	45:CIMX14	1.053	-1.557	-4.530	4.905	0.001	-0.000	0.001
	46:CIMX15	-2.824	-1.553	5.388	6.279	0.001	-0.000	0.001
	47:CIMX16	-6.283	-1.571	-6.224	8.982	0.001	-0.000	0.001
62	31:CIM	-0.130	-0.458	-0.018	0.477	0.000	0.000	0.000
	32:CIMX1	2.755	-0.339	1.532	3.171	0.001	0.000	0.000
	33:CIMX2	-2.551	-0.351	0.265	2.589	0.000	-0.000	-0.000
	34:CIMX3	2.358	-0.346	-0.282	2.400	0.000	0.000	0.000
	35:CIMX4	-2.948	-0.357	-1.549	3.350	0.000	-0.000	-0.000
	36:CIMX5	1.362	-0.335	3.193	3.488	0.001	0.000	0.000
	37:CIMX6	-0.237	-0.339	2.812	2.842	0.001	-0.000	0.000
	38:CIMX7	0.044	-0.358	-2.829	2.852	-0.000	0.000	0.000
	39:CIMX8	-1.555	-0.362	-3.211	3.586	-0.000	-0.000	-0.000
	40:CIMX9	2.722	-0.449	1.523	3.151	0.001	0.000	0.000
	41:CIMX10	2.325	-0.456	-0.292	2.387	0.000	0.000	0.000
	42:CIMX11	-2.584	-0.461	0.256	2.637	0.001	-0.000	-0.000
	43:CIMX12	-2.981	-0.468	-1.559	3.397	0.000	-0.000	-0.000
	44:CIMX13	1.329	-0.445	3.184	3.479	0.001	0.000	0.000
	45:CIMX14	0.010	-0.468	-2.839	2.877	-0.000	0.000	0.000
	46:CIMX15	-0.270	-0.449	2.802	2.851	0.001	-0.000	0.000
	47:CIMX16	-1.588	-0.472	-3.220	3.621	-0.000	-0.000	-0.000
63	31:CIM	0.461	-0.531	-0.111	0.712	-0.000	0.000	0.000
	32:CIMX1	6.277	-0.360	4.296	7.615	0.000	0.001	0.001
	33:CIMX2	-5.092	-0.460	-1.013	5.213	-0.000	-0.000	-0.000
	34:CIMX3	5.671	-0.373	0.857	5.748	-0.000	0.000	0.001
	35:CIMX4	-5.698	-0.473	-4.452	7.247	-0.001	-0.000	-0.000
	36:CIMX5	3.007	-0.380	6.429	7.108	0.000	0.000	0.000
	37:CIMX6	-0.418	-0.410	4.830	4.865	0.000	0.000	0.000
	38:CIMX7	0.997	-0.422	-4.986	5.102	-0.001	0.000	0.000
	39:CIMX8	-2.428	-0.453	-6.586	7.034	-0.001	-0.000	0.000
	40:CIMX9	6.449	-0.475	4.263	7.745	0.000	0.001	0.001
	41:CIMX10	5.843	-0.488	0.824	5.921	-0.000	0.001	0.001
	42:CIMX11	-4.921	-0.575	-1.046	5.063	-0.000	-0.000	-0.000
	43:CIMX12	-5.526	-0.588	-4.485	7.142	-0.001	-0.000	-0.000
	44:CIMX13	3.179	-0.495	6.396	7.160	0.000	0.000	0.000
	45:CIMX14	1.169	-0.537	-5.019	5.182	-0.001	0.000	0.000
	46:CIMX15	-0.246	-0.525	4.797	4.832	0.000	0.000	0.000
	47:CIMX16	-2.256	-0.568	-6.619	7.016	-0.001	-0.000	0.000
64	31:CIM	0.562	-0.529	-0.056	0.774	0.000	-0.000	0.000
	32:CIMX1	7.723	-0.310	4.348	8.868	0.001	0.000	0.001
	33:CIMX2	-6.363	-0.507	-1.010	6.462	0.000	-0.000	-0.000
	34:CIMX3	7.078	-0.324	0.948	7.148	0.000	0.000	0.001
	35:CIMX4	-7.007	-0.521	-4.410	8.296	-0.000	-0.001	-0.000
	36:CIMX5	3.550	-0.362	6.419	7.344	0.001	0.000	0.000
	37:CIMX6	-0.694	-0.421	4.804	4.872	0.001	-0.000	0.000
	38:CIMX7	1.409	-0.409	-4.866	5.082	-0.000	-0.000	0.000
	39:CIMX8	-2.834	-0.469	-6.480	7.089	-0.000	-0.000	0.000
	40:CIMX9	7.927	-0.424	4.323	9.039	0.001	0.000	0.001
	41:CIMX10	7.282	-0.438	0.923	7.353	0.000	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	42:CIMX11	-6.158	-0.620	-1.035	6.275	0.000	-0.000	-0.000
	43:CIMX12	-6.803	-0.635	-4.435	8.146	-0.000	-0.001	-0.000
	44:CIMX13	3.754	-0.476	6.393	7.429	0.001	0.000	0.001
	45:CIMX14	1.613	-0.523	-4.891	5.177	-0.000	-0.000	0.000
	46:CIMX15	-0.490	-0.535	4.779	4.834	0.001	-0.000	0.000
	47:CIMX16	-2.630	-0.583	-6.506	7.042	-0.000	-0.000	0.000
65	31:CIM	0.033	-0.514	-0.101	0.525	0.000	-0.000	-0.000
	32:CIMX1	5.060	-0.369	4.236	6.609	0.000	0.000	0.001
	33:CIMX2	-4.249	-0.409	-0.986	4.381	-0.000	-0.000	-0.000
	34:CIMX3	4.269	-0.399	0.843	4.370	0.000	0.000	0.000
	35:CIMX4	-5.041	-0.439	-4.378	6.691	-0.000	-0.000	-0.001
	36:CIMX5	2.726	-0.348	6.345	6.915	0.000	0.000	0.000
	37:CIMX6	-0.079	-0.360	4.772	4.786	0.000	-0.000	0.000
	38:CIMX7	0.099	-0.448	-4.915	4.936	-0.000	0.000	-0.000
	39:CIMX8	-2.706	-0.460	-6.488	7.045	-0.000	-0.000	-0.000
	40:CIMX9	5.083	-0.479	4.206	6.615	0.000	0.000	0.001
	41:CIMX10	4.292	-0.509	0.813	4.398	0.000	0.000	0.000
	42:CIMX11	-4.226	-0.519	-1.016	4.378	-0.000	-0.000	-0.000
	43:CIMX12	-5.018	-0.549	-4.408	6.702	-0.000	-0.000	-0.001
	44:CIMX13	2.749	-0.458	6.315	6.903	0.000	0.000	0.000
	45:CIMX14	0.122	-0.558	-4.944	4.977	-0.000	0.000	-0.000
	46:CIMX15	-0.056	-0.470	4.742	4.766	0.000	-0.000	0.000
	47:CIMX16	-2.683	-0.570	-6.517	7.071	-0.000	-0.000	-0.000
66	31:CIM	0.426	-0.687	0.147	0.821	0.000	0.000	-0.000
	32:CIMX1	6.238	-0.438	4.824	7.898	0.000	0.000	0.000
	33:CIMX2	-5.101	-0.501	-1.003	5.223	-0.000	-0.000	-0.000
	34:CIMX3	5.631	-0.465	1.204	5.777	0.000	0.000	0.000
	35:CIMX4	-5.709	-0.528	-4.624	7.365	-0.000	-0.000	-0.001
	36:CIMX5	2.981	-0.429	6.986	7.608	0.001	0.000	-0.000
	37:CIMX6	-0.435	-0.448	5.230	5.268	0.000	-0.000	-0.000
	38:CIMX7	0.965	-0.518	-5.030	5.148	-0.000	0.000	-0.000
	39:CIMX8	-2.452	-0.537	-6.786	7.235	-0.000	-0.000	-0.000
	40:CIMX9	6.400	-0.642	4.871	8.068	0.000	0.000	-0.000
	41:CIMX10	5.792	-0.668	1.250	5.963	0.000	0.000	-0.000
	42:CIMX11	-4.940	-0.705	-0.957	5.081	0.000	-0.000	-0.001
	43:CIMX12	-5.548	-0.732	-4.577	7.229	-0.000	-0.000	-0.001
	44:CIMX13	3.143	-0.633	7.033	7.729	0.001	0.000	-0.000
	45:CIMX14	1.126	-0.722	-4.983	5.160	-0.000	0.000	-0.000
	46:CIMX15	-0.274	-0.652	5.277	5.324	0.000	-0.000	-0.000
	47:CIMX16	-2.290	-0.741	-6.739	7.156	-0.000	-0.000	-0.000
67	31:CIM	0.533	-0.667	0.160	0.868	-0.000	0.000	-0.000
	32:CIMX1	7.620	-0.384	4.823	9.026	0.000	0.000	0.000
	33:CIMX2	-6.306	-0.557	-0.999	6.409	-0.000	-0.000	-0.001
	34:CIMX3	6.980	-0.402	1.221	7.098	0.000	0.000	0.000
	35:CIMX4	-6.946	-0.574	-4.600	8.351	-0.000	-0.000	-0.001
	36:CIMX5	3.496	-0.424	6.964	7.804	0.000	0.000	0.000
	37:CIMX6	-0.700	-0.476	5.210	5.279	0.000	-0.000	-0.000
	38:CIMX7	1.374	-0.483	-4.988	5.196	-0.000	0.000	-0.000
	39:CIMX8	-2.822	-0.535	-6.742	7.329	-0.001	-0.000	-0.000
	40:CIMX9	7.816	-0.572	4.871	9.227	0.000	0.000	0.000
	41:CIMX10	7.176	-0.590	1.270	7.312	0.000	0.000	0.000
	42:CIMX11	-6.111	-0.744	-0.951	6.229	-0.000	-0.000	-0.001
	43:CIMX12	-6.750	-0.762	-4.552	8.177	-0.000	-0.000	-0.001
	44:CIMX13	3.692	-0.611	7.013	7.949	0.000	0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	45:CIMX14	1.569	-0.670	-4.940	5.226	-0.000	0.000	-0.000
	46:CIMX15	-0.504	-0.663	5.259	5.324	0.000	-0.000	-0.000
	47:CIMX16	-2.626	-0.722	-6.694	7.227	-0.001	-0.000	-0.001
68	31:CIM	-1.119	-0.534	0.217	1.258	-0.000	-0.000	0.000
	32:CIMX1	10.024	-0.358	4.903	11.165	0.000	0.001	0.001
	33:CIMX2	-10.811	-0.441	-0.995	10.865	-0.000	-0.001	-0.001
	34:CIMX3	9.144	-0.376	1.298	9.243	0.000	0.000	0.001
	35:CIMX4	-11.691	-0.459	-4.600	12.571	-0.001	-0.001	-0.001
	36:CIMX5	3.766	-0.366	7.023	7.977	0.001	0.000	0.001
	37:CIMX6	-2.511	-0.391	5.246	5.829	0.000	-0.000	-0.000
	38:CIMX7	0.844	-0.426	-4.943	5.032	-0.001	-0.000	0.000
	39:CIMX8	-5.433	-0.451	-6.719	8.653	-0.001	-0.000	-0.000
	40:CIMX9	9.739	-0.484	4.968	10.943	0.000	0.000	0.001
	41:CIMX10	8.858	-0.502	1.363	8.977	0.000	0.000	0.001
	42:CIMX11	-11.096	-0.566	-0.929	11.149	-0.000	-0.001	-0.001
	43:CIMX12	-11.976	-0.584	-4.534	12.819	-0.001	-0.001	-0.001
	44:CIMX13	3.481	-0.491	7.088	7.912	0.001	0.000	0.001
	45:CIMX14	0.559	-0.551	-4.877	4.940	-0.001	-0.000	0.000
	46:CIMX15	-2.796	-0.516	5.311	6.024	0.000	-0.000	0.000
	47:CIMX16	-5.718	-0.576	-6.654	8.792	-0.001	-0.000	-0.000
69	31:CIM	0.414	-0.512	-0.069	0.662	-0.000	0.000	-0.000
	32:CIMX1	9.624	-0.366	4.269	10.534	0.000	0.000	0.001
	33:CIMX2	-8.334	-0.417	-0.995	8.404	-0.000	-0.000	-0.001
	34:CIMX3	8.866	-0.387	0.916	8.921	0.000	0.000	0.001
	35:CIMX4	-9.092	-0.438	-4.347	10.088	-0.000	-0.000	-0.001
	36:CIMX5	4.229	-0.360	6.318	7.611	0.000	0.000	0.000
	37:CIMX6	-1.182	-0.375	4.732	4.892	0.000	-0.000	-0.000
	38:CIMX7	1.713	-0.429	-4.810	5.124	-0.000	0.000	0.000
	39:CIMX8	-3.698	-0.444	-6.396	7.401	-0.000	-0.000	-0.001
	40:CIMX9	9.772	-0.477	4.239	10.663	0.000	0.000	0.001
	41:CIMX10	9.014	-0.497	0.886	9.071	0.000	0.000	0.001
	42:CIMX11	-8.186	-0.527	-1.025	8.267	-0.000	-0.000	-0.001
	43:CIMX12	-8.944	-0.548	-4.377	9.973	-0.000	-0.000	-0.001
	44:CIMX13	4.377	-0.470	6.287	7.676	0.000	0.000	0.000
	45:CIMX14	1.861	-0.539	-4.840	5.214	-0.000	0.000	0.000
	46:CIMX15	-1.033	-0.485	4.702	4.838	0.000	0.000	-0.000
	47:CIMX16	-3.549	-0.554	-6.426	7.362	-0.000	-0.000	-0.001
70	31:CIM	-1.614	-0.483	0.082	1.687	0.000	0.000	0.000
	32:CIMX1	4.437	-0.342	4.800	6.545	0.001	0.001	0.001
	33:CIMX2	-5.878	-0.397	-1.025	5.980	0.000	-0.000	-0.000
	34:CIMX3	3.545	-0.361	1.133	3.739	0.000	0.001	0.001
	35:CIMX4	-6.770	-0.416	-4.693	8.248	-0.000	-0.000	-0.000
	36:CIMX5	1.868	-0.338	7.017	7.269	0.001	0.000	0.001
	37:CIMX6	-1.240	-0.355	5.262	5.418	0.001	0.000	0.000
	38:CIMX7	-1.093	-0.403	-5.155	5.285	-0.000	0.000	0.000
	39:CIMX8	-4.201	-0.420	-6.910	8.098	-0.001	-0.000	-0.000
	40:CIMX9	3.989	-0.446	4.828	6.279	0.001	0.001	0.001
	41:CIMX10	3.097	-0.465	1.161	3.340	0.000	0.001	0.001
	42:CIMX11	-6.325	-0.501	-0.997	6.423	0.000	-0.000	-0.000
	43:CIMX12	-7.217	-0.520	-4.664	8.609	-0.000	-0.000	-0.000
	44:CIMX13	1.420	-0.442	7.046	7.201	0.001	0.000	0.001
	45:CIMX14	-1.541	-0.507	-5.126	5.377	-0.000	0.000	0.000
	46:CIMX15	-1.687	-0.459	5.291	5.572	0.001	0.000	0.000
	47:CIMX16	-4.649	-0.524	-6.882	8.321	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
71	31:CIM	0.532	-1.011	0.073	1.144	-0.000	0.000	0.000
	32:CIMX1	7.648	-0.689	2.937	8.221	-0.000	0.000	0.000
	33:CIMX2	-6.336	-0.746	0.532	6.402	-0.000	-0.000	-0.000
	34:CIMX3	7.006	-0.716	-0.425	7.056	-0.000	0.000	0.000
	35:CIMX4	-6.977	-0.773	-2.831	7.569	-0.000	-0.000	-0.000
	36:CIMX5	3.506	-0.678	5.997	6.979	0.000	0.000	0.000
	37:CIMX6	-0.707	-0.695	5.272	5.364	-0.000	-0.000	-0.000
	38:CIMX7	1.377	-0.767	-5.165	5.400	-0.001	0.000	0.000
	39:CIMX8	-2.836	-0.784	-5.890	6.584	-0.001	-0.000	-0.000
	40:CIMX9	7.844	-0.969	2.957	8.439	-0.000	0.000	0.000
	41:CIMX10	7.203	-0.996	-0.406	7.283	-0.000	0.000	0.000
	42:CIMX11	-6.139	-1.026	0.551	6.249	-0.000	-0.000	-0.000
	43:CIMX12	-6.781	-1.052	-2.812	7.416	-0.001	-0.000	-0.000
	44:CIMX13	3.703	-0.958	6.016	7.129	-0.000	0.000	0.000
	45:CIMX14	1.574	-1.046	-5.146	5.482	-0.001	0.000	0.000
	46:CIMX15	-0.510	-0.975	5.291	5.404	-0.000	-0.000	0.000
	47:CIMX16	-2.639	-1.064	-5.871	6.524	-0.001	-0.000	-0.000
72	31:CIM	0.431	-0.941	0.056	1.036	0.000	0.000	0.000
	32:CIMX1	6.239	-0.647	2.926	6.921	0.000	0.000	0.000
	33:CIMX2	-5.100	-0.702	0.522	5.174	0.000	-0.000	-0.000
	34:CIMX3	5.633	-0.669	-0.439	5.690	0.000	0.000	0.000
	35:CIMX4	-5.705	-0.724	-2.843	6.415	0.000	-0.000	-0.000
	36:CIMX5	2.980	-0.640	5.988	6.718	0.001	0.000	0.000
	37:CIMX6	-0.436	-0.657	5.263	5.322	0.001	-0.000	-0.000
	38:CIMX7	0.970	-0.714	-5.181	5.319	-0.000	0.000	0.000
	39:CIMX8	-2.446	-0.731	-5.905	6.433	-0.000	-0.000	-0.000
	40:CIMX9	6.403	-0.902	2.941	7.103	0.001	0.001	0.000
	41:CIMX10	5.797	-0.924	-0.424	5.886	0.000	0.000	0.000
	42:CIMX11	-4.936	-0.957	0.537	5.056	0.000	-0.000	-0.000
	43:CIMX12	-5.541	-0.980	-2.828	6.298	0.000	-0.000	-0.000
	44:CIMX13	3.144	-0.895	6.003	6.835	0.001	0.000	0.000
	45:CIMX14	1.134	-0.970	-5.166	5.377	0.000	0.000	0.000
	46:CIMX15	-0.272	-0.912	5.278	5.364	0.001	-0.000	0.000
	47:CIMX16	-2.282	-0.987	-5.890	6.393	0.000	-0.000	0.000
73	31:CIM	0.385	-0.541	-0.218	0.699	-0.000	0.000	0.000
	32:CIMX1	6.307	-0.366	4.308	7.647	-0.000	0.001	0.000
	33:CIMX2	-5.240	-0.468	-1.117	5.378	-0.000	-0.000	0.000
	34:CIMX3	5.696	-0.379	0.786	5.762	-0.000	0.001	0.000
	35:CIMX4	-5.851	-0.481	-4.639	7.482	-0.001	-0.000	-0.000
	36:CIMX5	2.983	-0.386	6.496	7.159	0.000	0.000	0.000
	37:CIMX6	-0.496	-0.416	4.862	4.905	-0.000	0.000	0.000
	38:CIMX7	0.952	-0.430	-5.193	5.297	-0.001	0.000	0.000
	39:CIMX8	-2.526	-0.461	-6.827	7.294	-0.001	-0.000	0.000
	40:CIMX9	6.465	-0.483	4.255	7.755	-0.000	0.001	0.001
	41:CIMX10	5.853	-0.497	0.734	5.920	-0.000	0.001	0.001
	42:CIMX11	-5.082	-0.585	-1.169	5.248	-0.000	-0.000	0.000
	43:CIMX12	-5.694	-0.598	-4.691	7.401	-0.001	-0.000	0.000
	44:CIMX13	3.140	-0.503	6.444	7.186	0.000	0.000	0.000
	45:CIMX14	1.110	-0.548	-5.245	5.389	-0.001	0.000	0.000
	46:CIMX15	-0.339	-0.534	4.810	4.851	-0.000	0.000	0.000
	47:CIMX16	-2.369	-0.579	-6.880	7.299	-0.001	-0.000	0.000
74	31:CIM	0.483	-0.539	0.049	0.725	0.000	-0.000	0.000
	32:CIMX1	7.814	-0.314	4.542	9.044	0.001	0.000	0.001
	33:CIMX2	-6.565	-0.516	-0.963	6.655	0.000	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	34:CIMX3	7.154	-0.329	1.073	7.241	0.000	0.000	0.001
	35:CIMX4	-7.225	-0.531	-4.432	8.493	0.000	-0.001	-0.000
	36:CIMX5	3.557	-0.367	6.641	7.543	0.001	0.000	0.000
	37:CIMX6	-0.775	-0.428	4.983	5.061	0.001	-0.000	0.000
	38:CIMX7	1.364	-0.416	-4.874	5.078	0.000	-0.000	0.000
	39:CIMX8	-2.968	-0.477	-6.532	7.191	-0.000	-0.000	0.000
	40:CIMX9	8.003	-0.430	4.537	9.209	0.001	0.000	0.001
	41:CIMX10	7.342	-0.445	1.067	7.433	0.001	0.000	0.001
	42:CIMX11	-6.376	-0.632	-0.968	6.480	0.000	-0.001	-0.000
	43:CIMX12	-7.036	-0.647	-4.438	8.344	0.000	-0.001	-0.000
	44:CIMX13	3.745	-0.484	6.636	7.635	0.001	0.000	0.001
	45:CIMX14	1.553	-0.533	-4.879	5.148	0.000	-0.000	0.000
	46:CIMX15	-0.587	-0.545	4.978	5.042	0.001	-0.000	0.000
	47:CIMX16	-2.779	-0.594	-6.537	7.128	0.000	-0.000	0.000
75	31:CIM	-1.159	-0.568	0.104	1.295	-0.000	-0.000	-0.000
	32:CIMX1	10.863	-0.381	5.258	12.075	0.000	0.001	0.000
	33:CIMX2	-11.635	-0.469	-1.285	11.716	-0.000	-0.001	-0.001
	34:CIMX3	9.912	-0.400	1.398	10.018	-0.000	0.001	0.000
	35:CIMX4	-12.587	-0.488	-5.145	13.606	-0.001	-0.001	-0.001
	36:CIMX5	4.106	-0.390	7.448	8.514	0.000	0.000	0.000
	37:CIMX6	-2.672	-0.416	5.477	6.108	0.000	-0.000	-0.000
	38:CIMX7	0.949	-0.452	-5.364	5.466	-0.000	-0.000	-0.000
	39:CIMX8	-5.830	-0.479	-7.335	9.382	-0.001	-0.000	-0.000
	40:CIMX9	10.566	-0.515	5.305	11.834	0.000	0.001	0.000
	41:CIMX10	9.614	-0.533	1.445	9.737	-0.000	0.001	0.000
	42:CIMX11	-11.933	-0.602	-1.238	12.012	-0.000	-0.001	-0.001
	43:CIMX12	-12.884	-0.621	-5.098	13.870	-0.001	-0.001	-0.001
	44:CIMX13	3.808	-0.523	7.495	8.423	0.000	0.000	0.000
	45:CIMX14	0.651	-0.586	-5.317	5.388	-0.001	-0.000	-0.000
	46:CIMX15	-2.970	-0.550	5.524	6.296	0.000	-0.000	-0.000
	47:CIMX16	-6.127	-0.612	-7.288	9.541	-0.001	-0.001	-0.000
76	31:CIM	-1.693	-0.519	0.191	1.781	0.000	0.000	-0.000
	32:CIMX1	4.773	-0.367	5.303	7.144	0.001	0.001	0.000
	33:CIMX2	-6.251	-0.425	-1.007	6.346	0.000	-0.000	-0.000
	34:CIMX3	3.811	-0.388	1.298	4.044	0.000	0.001	0.000
	35:CIMX4	-7.213	-0.446	-5.012	8.795	-0.000	-0.000	-0.000
	36:CIMX5	2.037	-0.363	7.743	8.015	0.001	0.000	0.000
	37:CIMX6	-1.284	-0.381	5.842	5.993	0.001	0.000	-0.000
	38:CIMX7	-1.156	-0.432	-5.551	5.687	-0.000	0.000	-0.000
	39:CIMX8	-4.477	-0.449	-7.453	8.706	-0.000	-0.000	-0.000
	40:CIMX9	4.300	-0.480	5.349	6.880	0.001	0.001	0.000
	41:CIMX10	3.338	-0.500	1.344	3.633	0.000	0.001	0.000
	42:CIMX11	-6.724	-0.538	-0.961	6.813	0.000	-0.000	-0.000
	43:CIMX12	-7.686	-0.558	-4.966	9.168	-0.000	-0.000	-0.000
	44:CIMX13	1.564	-0.476	7.789	7.959	0.001	0.001	-0.000
	45:CIMX14	-1.629	-0.545	-5.505	5.767	-0.000	0.000	-0.000
	46:CIMX15	-1.757	-0.493	5.888	6.164	0.001	0.000	-0.000
	47:CIMX16	-4.950	-0.562	-7.406	8.926	-0.000	-0.000	-0.000
77	31:CIM	0.246	-0.996	0.354	1.085	-0.000	0.000	-0.000
	32:CIMX1	6.266	-0.684	3.480	7.200	0.000	0.001	-0.000
	33:CIMX2	-5.375	-0.751	0.796	5.486	-0.000	-0.000	-0.000
	34:CIMX3	5.652	-0.705	-0.326	5.705	-0.000	0.001	-0.000
	35:CIMX4	-5.989	-0.772	-3.010	6.747	-0.000	-0.000	-0.000
	36:CIMX5	2.910	-0.682	6.956	7.571	0.000	0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	37:CIMX6	-0.597	-0.703	6.147	6.216	0.000	0.000	-0.000
	38:CIMX7	0.874	-0.753	-5.677	5.793	-0.000	0.000	-0.000
	39:CIMX8	-2.633	-0.774	-6.486	7.043	-0.000	-0.000	-0.000
	40:CIMX9	6.373	-0.952	3.599	7.381	0.000	0.001	-0.000
	41:CIMX10	5.760	-0.973	-0.207	5.845	-0.000	0.001	-0.000
	42:CIMX11	-5.268	-1.019	0.915	5.443	-0.000	-0.000	-0.000
	43:CIMX12	-5.881	-1.040	-2.891	6.635	-0.000	-0.000	-0.000
	44:CIMX13	3.018	-0.951	7.075	7.750	0.000	0.000	-0.000
	45:CIMX14	0.982	-1.021	-5.558	5.736	-0.000	0.000	-0.000
	46:CIMX15	-0.489	-0.971	6.266	6.360	0.000	0.000	-0.000
	47:CIMX16	-2.526	-1.042	-6.367	6.928	-0.001	-0.000	-0.000
78	31:CIM	0.320	-1.065	-0.258	1.142	0.000	-0.000	-0.000
	32:CIMX1	7.807	-0.721	3.011	8.399	0.000	0.000	0.000
	33:CIMX2	-6.757	-0.798	0.334	6.812	0.000	-0.001	-0.000
	34:CIMX3	7.135	-0.748	-0.676	7.206	0.000	0.000	-0.000
	35:CIMX4	-7.429	-0.825	-3.353	8.192	-0.000	-0.001	-0.000
	36:CIMX5	3.498	-0.717	6.351	7.285	0.000	0.000	-0.000
	37:CIMX6	-0.890	-0.740	5.544	5.663	0.000	-0.000	-0.000
	38:CIMX7	1.269	-0.806	-5.886	6.075	-0.000	-0.000	-0.000
	39:CIMX8	-3.119	-0.829	-6.693	7.430	-0.000	-0.000	-0.000
	40:CIMX9	7.938	-1.013	2.924	8.520	0.000	0.000	-0.000
	41:CIMX10	7.266	-1.040	-0.763	7.380	0.000	0.000	-0.000
	42:CIMX11	-6.626	-1.091	0.246	6.720	0.000	-0.001	-0.000
	43:CIMX12	-7.298	-1.118	-3.441	8.145	0.000	-0.001	-0.000
	44:CIMX13	3.629	-1.009	6.263	7.308	0.000	0.000	-0.000
	45:CIMX14	1.400	-1.098	-5.973	6.233	-0.000	-0.000	-0.000
	46:CIMX15	-0.759	-1.032	5.456	5.605	0.000	-0.000	-0.000
	47:CIMX16	-2.988	-1.122	-6.780	7.494	-0.000	-0.000	-0.000
79	31:CIM	-1.077	-0.788	0.483	1.419	0.000	0.000	-0.000
	32:CIMX1	10.948	-0.563	3.484	11.503	0.000	0.001	0.000
	33:CIMX2	-11.603	-0.613	0.881	11.653	0.000	-0.000	-0.000
	34:CIMX3	9.995	-0.571	-0.199	10.013	0.000	0.001	0.000
	35:CIMX4	-12.557	-0.621	-2.803	12.881	0.000	-0.000	-0.000
	36:CIMX5	4.175	-0.571	6.846	8.039	0.001	0.000	-0.000
	37:CIMX6	-2.619	-0.586	6.062	6.629	0.001	0.000	-0.000
	38:CIMX7	1.011	-0.598	-5.381	5.507	-0.000	0.000	-0.000
	39:CIMX8	-5.784	-0.614	-6.165	8.475	-0.000	-0.000	-0.000
	40:CIMX9	10.675	-0.758	3.626	11.300	0.001	0.001	-0.000
	41:CIMX10	9.722	-0.767	-0.058	9.752	0.000	0.001	-0.000
	42:CIMX11	-11.877	-0.808	1.023	11.948	0.000	-0.000	-0.000
	43:CIMX12	-12.830	-0.817	-2.661	13.129	0.000	-0.000	-0.000
	44:CIMX13	3.902	-0.766	6.988	8.040	0.001	0.000	-0.000
	45:CIMX14	0.737	-0.794	-5.239	5.350	0.000	0.000	-0.000
	46:CIMX15	-2.892	-0.781	6.204	6.889	0.001	0.000	-0.000
	47:CIMX16	-6.057	-0.809	-6.023	8.580	-0.000	-0.000	-0.000
80	31:CIM	-1.600	-0.782	-0.431	1.833	-0.000	-0.000	-0.000
	32:CIMX1	4.851	-0.571	2.945	5.703	-0.000	0.000	-0.000
	33:CIMX2	-6.201	-0.597	0.252	6.235	-0.000	-0.000	-0.000
	34:CIMX3	3.888	-0.582	-0.865	4.026	-0.000	0.000	-0.000
	35:CIMX4	-7.164	-0.608	-3.559	8.022	-0.000	-0.001	-0.000
	36:CIMX5	2.105	-0.567	6.423	6.783	0.000	0.000	-0.000
	37:CIMX6	-1.224	-0.575	5.611	5.772	0.000	-0.000	-0.000
	38:CIMX7	-1.089	-0.604	-6.225	6.348	-0.001	-0.000	-0.000
	39:CIMX8	-4.418	-0.612	-7.037	8.331	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	40:CIMX9	4.407	-0.764	2.822	5.288	-0.000	0.000	-0.000
	41:CIMX10	3.444	-0.775	-0.989	3.666	-0.000	0.000	-0.000
	42:CIMX11	-6.645	-0.789	0.128	6.693	-0.000	-0.000	-0.000
	43:CIMX12	-7.607	-0.800	-3.683	8.490	-0.000	-0.001	-0.000
	44:CIMX13	1.662	-0.760	6.299	6.559	0.000	0.000	-0.000
	45:CIMX14	-1.533	-0.797	-6.349	6.580	-0.001	-0.000	-0.000
	46:CIMX15	-1.668	-0.767	5.488	5.787	0.000	-0.000	-0.000
	47:CIMX16	-4.862	-0.804	-7.160	8.693	-0.001	-0.000	-0.000
81	31:CIM	-0.820	-0.631	-0.326	1.085	-0.000	-0.000	0.001
	32:CIMX1	5.396	-0.451	4.286	6.906	-0.000	0.000	0.001
	33:CIMX2	-5.623	-0.497	-1.187	5.768	-0.000	-0.000	0.000
	34:CIMX3	4.421	-0.488	0.714	4.504	-0.000	0.000	0.001
	35:CIMX4	-6.598	-0.534	-4.760	8.153	-0.000	-0.001	0.000
	36:CIMX5	2.678	-0.423	6.517	7.058	-0.000	0.000	0.001
	37:CIMX6	-0.642	-0.437	4.867	4.929	-0.000	-0.000	0.001
	38:CIMX7	-0.560	-0.548	-5.341	5.398	-0.000	-0.000	0.001
	39:CIMX8	-3.880	-0.562	-6.990	8.014	-0.000	-0.000	0.000
	40:CIMX9	5.177	-0.590	4.197	6.691	-0.000	0.000	0.001
	41:CIMX10	4.201	-0.627	0.625	4.294	-0.000	0.000	0.001
	42:CIMX11	-5.842	-0.635	-1.276	6.014	-0.000	-0.000	0.001
	43:CIMX12	-6.818	-0.673	-4.849	8.393	-0.000	-0.001	0.001
	44:CIMX13	2.458	-0.562	6.427	6.904	-0.000	0.000	0.001
	45:CIMX14	-0.779	-0.687	-5.430	5.528	-0.000	-0.000	0.001
	46:CIMX15	-0.861	-0.576	4.778	4.889	-0.000	-0.000	0.001
	47:CIMX16	-4.099	-0.700	-7.079	8.210	-0.000	-0.000	0.001
82	31:CIM	-0.337	-0.630	0.160	0.732	0.000	0.000	0.001
	32:CIMX1	11.375	-0.450	4.681	12.309	0.000	0.001	0.001
	33:CIMX2	-10.986	-0.506	-0.924	11.036	0.000	-0.000	0.000
	34:CIMX3	10.430	-0.475	1.178	10.507	0.000	0.000	0.001
	35:CIMX4	-11.931	-0.531	-4.428	12.737	0.000	-0.000	0.000
	36:CIMX5	4.659	-0.440	6.785	8.243	0.000	0.000	0.001
	37:CIMX6	-2.078	-0.457	5.097	5.523	0.000	0.000	0.000
	38:CIMX7	1.522	-0.524	-4.843	5.103	0.000	0.000	0.001
	39:CIMX8	-5.215	-0.541	-6.532	8.376	-0.000	-0.000	0.000
	40:CIMX9	11.316	-0.590	4.715	12.273	0.000	0.001	0.001
	41:CIMX10	10.371	-0.615	1.211	10.460	0.000	0.000	0.001
	42:CIMX11	-11.045	-0.646	-0.891	11.100	0.000	-0.000	0.000
	43:CIMX12	-11.990	-0.671	-4.394	12.788	0.000	-0.000	0.000
	44:CIMX13	4.600	-0.580	6.819	8.246	0.000	0.000	0.001
	45:CIMX14	1.463	-0.663	-4.809	5.071	0.000	0.000	0.001
	46:CIMX15	-2.137	-0.597	5.130	5.590	0.000	0.000	0.001
	47:CIMX16	-5.274	-0.680	-6.498	8.397	0.000	-0.000	0.001
83	31:CIM	0.160	-0.803	0.436	0.927	-0.000	0.000	-0.000
	32:CIMX1	6.235	-0.517	5.490	8.324	-0.000	0.001	-0.000
	33:CIMX2	-5.436	-0.589	-0.850	5.533	-0.000	-0.000	-0.000
	34:CIMX3	5.606	-0.550	1.448	5.816	-0.000	0.001	-0.000
	35:CIMX4	-6.065	-0.622	-4.892	7.817	-0.000	-0.000	-0.000
	36:CIMX5	2.887	-0.504	7.963	8.485	-0.000	0.000	-0.000
	37:CIMX6	-0.629	-0.526	6.052	6.108	-0.000	0.000	-0.000
	38:CIMX7	0.799	-0.613	-5.454	5.546	-0.000	0.000	-0.000
	39:CIMX8	-2.717	-0.635	-7.364	7.875	-0.000	-0.000	-0.000
	40:CIMX9	6.311	-0.751	5.627	8.488	-0.000	0.001	-0.000
	41:CIMX10	5.681	-0.784	1.585	5.950	-0.000	0.001	-0.000
	42:CIMX11	-5.361	-0.822	-0.714	5.470	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	43:CIMX12	-5.990	-0.855	-4.756	7.696	-0.000	-0.000	-0.000
	44:CIMX13	2.963	-0.738	8.099	8.655	-0.000	0.000	-0.000
	45:CIMX14	0.874	-0.847	-5.318	5.455	-0.000	0.000	-0.000
	46:CIMX15	-0.554	-0.759	6.189	6.260	-0.000	0.000	-0.000
	47:CIMX16	-2.642	-0.868	-7.228	7.745	-0.000	-0.000	-0.000
84	31:CIM	0.260	-0.785	-0.121	0.836	0.000	-0.000	-0.000
	32:CIMX1	7.829	-0.452	5.191	9.405	0.000	0.000	-0.000
	33:CIMX2	-6.859	-0.661	-1.484	7.049	0.000	-0.001	-0.000
	34:CIMX3	7.160	-0.473	1.307	7.294	0.000	0.000	-0.000
	35:CIMX4	-7.528	-0.682	-5.367	9.271	0.000	-0.001	-0.000
	36:CIMX5	3.474	-0.501	7.362	8.156	0.000	0.000	-0.000
	37:CIMX6	-0.952	-0.563	5.351	5.464	0.000	-0.000	-0.000
	38:CIMX7	1.252	-0.571	-5.527	5.696	0.000	-0.000	-0.000
	39:CIMX8	-3.173	-0.633	-7.538	8.203	0.000	-0.000	-0.000
	40:CIMX9	7.939	-0.670	5.158	9.491	0.000	0.000	-0.000
	41:CIMX10	7.270	-0.691	1.274	7.413	0.000	0.000	-0.000
	42:CIMX11	-6.749	-0.879	-1.517	6.973	0.000	-0.001	-0.000
	43:CIMX12	-7.419	-0.900	-5.400	9.220	0.000	-0.001	-0.000
	44:CIMX13	3.584	-0.719	7.329	8.190	0.000	0.000	-0.000
	45:CIMX14	1.362	-0.788	-5.561	5.779	0.000	-0.000	-0.000
	46:CIMX15	-0.842	-0.781	5.318	5.441	0.000	-0.000	-0.000
	47:CIMX16	-3.063	-0.851	-7.572	8.212	0.000	-0.000	-0.000
100	31:CIM	-1.229	-2.082	-0.404	2.451	-0.000	0.000	0.000
	32:CIMX1	5.115	-1.463	3.448	6.340	-0.000	0.001	0.000
	33:CIMX2	-5.924	-1.527	-0.386	6.130	-0.000	-0.000	0.000
	34:CIMX3	4.143	-1.520	-0.215	4.418	-0.000	0.000	0.000
	35:CIMX4	-6.897	-1.584	-4.049	8.153	-0.000	-0.000	0.000
	36:CIMX5	2.386	-1.419	6.355	6.935	-0.000	0.000	0.000
	37:CIMX6	-0.940	-1.438	5.200	5.477	-0.000	0.000	0.000
	38:CIMX7	-0.842	-1.608	-5.801	6.079	-0.000	0.000	0.000
	39:CIMX8	-4.168	-1.628	-6.956	8.271	-0.000	-0.000	0.000
	40:CIMX9	4.777	-2.022	3.344	6.172	-0.000	0.001	0.000
	41:CIMX10	3.805	-2.079	-0.318	4.347	-0.000	0.001	0.000
	42:CIMX11	-6.262	-2.086	-0.490	6.618	-0.000	-0.000	0.000
	43:CIMX12	-7.234	-2.143	-4.152	8.612	-0.000	-0.000	0.000
	44:CIMX13	2.048	-1.978	6.252	6.870	-0.000	0.000	0.000
	45:CIMX14	-1.179	-2.167	-5.905	6.400	-0.000	0.000	0.000
	46:CIMX15	-1.278	-1.997	5.097	5.621	-0.000	0.000	0.000
	47:CIMX16	-4.505	-2.187	-7.060	8.656	-0.000	-0.000	0.000
101	31:CIM	-0.724	-2.011	0.315	2.160	0.000	-0.000	0.000
	32:CIMX1	11.155	-1.299	3.979	11.914	0.000	0.000	0.000
	33:CIMX2	-11.309	-1.613	0.064	11.424	0.000	-0.000	0.000
	34:CIMX3	10.205	-1.327	0.417	10.299	0.000	0.000	0.000
	35:CIMX4	-12.259	-1.641	-3.498	12.853	0.000	-0.001	0.000
	36:CIMX5	4.408	-1.376	6.743	8.172	0.000	0.000	0.000
	37:CIMX6	-2.360	-1.471	5.563	6.220	0.000	-0.000	0.000
	38:CIMX7	1.256	-1.469	-5.082	5.438	0.000	0.000	0.000
	39:CIMX8	-5.512	-1.564	-6.262	8.488	0.000	-0.000	0.000
	40:CIMX9	10.983	-1.839	4.054	11.851	0.000	0.000	0.000
	41:CIMX10	10.033	-1.867	0.491	10.217	0.000	0.000	0.000
	42:CIMX11	-11.481	-2.154	0.139	11.682	0.000	-0.000	0.000
	43:CIMX12	-12.430	-2.182	-3.424	13.077	0.000	-0.001	0.000
	44:CIMX13	4.236	-1.917	6.817	8.252	0.000	0.000	0.000
	45:CIMX14	1.084	-2.010	-5.008	5.504	0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	46:CIMX15	-2.532	-2.011	5.638	6.499	0.000	-0.000	0.000
	47:CIMX16	-5.684	-2.105	-6.187	8.661	0.000	-0.000	0.000
104	31:CIM	-0.378	-2.586	0.117	2.616	-0.000	-0.000	-0.000
	32:CIMX1	9.741	-1.538	3.248	10.383	-0.000	0.000	-0.000
	33:CIMX2	-9.544	-2.108	0.614	9.793	-0.000	-0.001	-0.000
	34:CIMX3	8.933	-1.565	-0.432	9.080	-0.000	0.000	-0.000
	35:CIMX4	-10.352	-2.135	-3.066	11.005	-0.000	-0.001	-0.000
	36:CIMX5	3.940	-1.707	6.595	7.870	0.000	0.000	0.000
	37:CIMX6	-1.870	-1.878	5.801	6.378	-0.000	-0.000	-0.000
	38:CIMX7	1.259	-1.795	-5.619	6.032	-0.000	-0.000	-0.000
	39:CIMX8	-4.551	-1.966	-6.413	8.106	-0.000	-0.000	-0.000
	40:CIMX9	9.668	-2.288	3.274	10.461	-0.000	0.000	-0.000
	41:CIMX10	8.860	-2.314	-0.406	9.167	-0.000	0.000	-0.000
	42:CIMX11	-9.617	-2.857	0.639	10.053	-0.000	-0.001	-0.000
	43:CIMX12	-10.425	-2.884	-3.041	11.235	-0.000	-0.001	-0.000
	44:CIMX13	3.867	-2.456	6.621	8.051	-0.000	0.000	-0.000
	45:CIMX14	1.186	-2.544	-5.594	6.258	-0.000	-0.000	-0.000
	46:CIMX15	-1.943	-2.627	5.827	6.681	-0.000	-0.000	-0.000
	47:CIMX16	-4.624	-2.716	-6.387	8.340	-0.000	-0.000	-0.000
111	31:CIM	-0.086	-4.543	-0.396	4.561	0.001	0.000	0.000
	32:CIMX1	12.712	-3.188	3.138	13.476	0.001	0.001	0.000
	33:CIMX2	-11.781	-3.612	-0.199	12.324	0.001	-0.000	0.000
	34:CIMX3	11.662	-3.273	-0.441	12.121	0.001	0.001	0.000
	35:CIMX4	-12.831	-3.697	-3.778	13.878	0.001	-0.000	0.000
	36:CIMX5	5.373	-3.237	6.122	8.765	0.001	0.000	0.000
	37:CIMX6	-2.007	-3.365	5.117	6.445	0.001	0.000	0.000
	38:CIMX7	1.888	-3.520	-5.757	7.007	0.001	0.000	0.000
	39:CIMX8	-5.492	-3.648	-6.762	9.444	0.001	-0.000	0.000
	40:CIMX9	12.685	-4.288	3.061	13.736	0.002	0.001	0.001
	41:CIMX10	11.635	-4.373	-0.518	12.441	0.002	0.001	0.001
	42:CIMX11	-11.808	-4.712	-0.275	12.717	0.001	-0.000	0.000
	43:CIMX12	-12.858	-4.797	-3.854	14.255	0.001	-0.000	0.000
	44:CIMX13	5.346	-4.337	6.046	9.162	0.002	0.001	0.001
	45:CIMX14	1.861	-4.620	-5.833	7.670	0.001	0.000	0.000
	46:CIMX15	-2.034	-4.465	5.040	7.034	0.001	0.000	0.000
	47:CIMX16	-5.519	-4.748	-6.839	9.988	0.001	0.000	0.000
112	31:CIM	-0.057	-4.855	-0.608	4.893	0.002	0.001	-0.000
	32:CIMX1	12.828	-3.141	2.594	13.460	0.002	0.001	-0.000
	33:CIMX2	-11.816	-4.078	0.048	12.500	0.002	0.000	-0.000
	34:CIMX3	11.769	-3.339	-1.041	12.278	0.002	0.001	-0.000
	35:CIMX4	-12.875	-4.275	-3.586	14.033	0.002	-0.000	-0.000
	36:CIMX5	5.447	-3.239	5.919	8.672	0.002	0.001	-0.000
	37:CIMX6	-1.978	-3.521	5.152	6.546	0.002	0.000	-0.000
	38:CIMX7	1.931	-3.895	-6.144	7.527	0.002	0.001	-0.000
	39:CIMX8	-5.494	-4.178	-6.911	9.768	0.002	0.000	-0.000
	40:CIMX9	12.795	-4.287	2.482	13.720	0.003	0.001	-0.000
	41:CIMX10	11.735	-4.485	-1.152	12.616	0.003	0.001	-0.000
	42:CIMX11	-11.849	-5.224	-0.064	12.950	0.002	0.000	-0.000
	43:CIMX12	-12.909	-5.422	-3.698	14.481	0.002	0.000	-0.000
	44:CIMX13	5.414	-4.385	5.807	9.070	0.002	0.001	-0.000
	45:CIMX14	1.897	-5.042	-6.256	8.256	0.002	0.001	-0.000
	46:CIMX15	-2.011	-4.668	5.040	7.158	0.002	0.001	-0.000
	47:CIMX16	-5.528	-5.324	-7.023	10.403	0.002	0.000	-0.000
113	31:CIM	-0.502	-3.467	-0.432	3.530	0.002	0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	32:CIMX1	12.566	-1.804	3.408	13.144	0.002	0.001	-0.001
	33:CIMX2	-12.202	-3.191	-0.453	12.621	0.001	0.000	-0.001
	34:CIMX3	11.496	-2.141	-0.276	11.697	0.002	0.001	-0.001
	35:CIMX4	-13.272	-3.528	-4.137	14.343	0.001	0.000	-0.001
	36:CIMX5	5.154	-1.898	6.331	8.381	0.002	0.001	-0.001
	37:CIMX6	-2.309	-2.316	5.167	6.115	0.002	0.001	-0.001
	38:CIMX7	1.603	-3.017	-5.897	6.815	0.001	0.001	-0.001
	39:CIMX8	-5.860	-3.435	-7.060	9.797	0.001	0.000	-0.001
	40:CIMX9	12.418	-2.605	3.341	13.120	0.002	0.001	-0.001
	41:CIMX10	11.348	-2.942	-0.343	11.728	0.002	0.001	-0.001
	42:CIMX11	-12.351	-3.992	-0.520	12.990	0.002	0.000	-0.001
	43:CIMX12	-13.421	-4.329	-4.204	14.715	0.002	0.000	-0.001
	44:CIMX13	5.005	-2.699	6.264	8.460	0.002	0.001	-0.001
	45:CIMX14	1.454	-3.818	-5.964	7.229	0.002	0.001	-0.001
	46:CIMX15	-2.457	-3.116	5.100	6.462	0.002	0.001	-0.001
	47:CIMX16	-6.008	-4.236	-7.127	10.239	0.002	0.000	-0.001
120	31:CIM	-0.263	-0.877	0.220	0.942	-0.000	0.000	0.001
	32:CIMX1	10.940	-0.609	4.745	11.941	-0.000	0.001	0.001
	33:CIMX2	-10.505	-0.693	-0.881	10.565	-0.000	-0.000	0.000
	34:CIMX3	10.038	-0.678	1.231	10.136	-0.000	0.001	0.001
	35:CIMX4	-11.408	-0.762	-4.394	12.248	-0.000	-0.000	0.000
	36:CIMX5	4.495	-0.558	6.854	8.215	-0.000	0.000	0.001
	37:CIMX6	-1.966	-0.584	5.159	5.552	-0.000	0.000	0.000
	38:CIMX7	1.499	-0.788	-4.808	5.097	-0.000	0.000	0.001
	39:CIMX8	-4.962	-0.813	-6.503	8.220	-0.000	-0.000	0.000
	40:CIMX9	10.911	-0.801	4.790	11.943	-0.000	0.001	0.001
	41:CIMX10	10.009	-0.870	1.276	10.127	-0.000	0.001	0.001
	42:CIMX11	-10.534	-0.885	-0.836	10.604	-0.000	-0.000	0.000
	43:CIMX12	-11.437	-0.954	-4.349	12.273	-0.000	-0.000	0.000
	44:CIMX13	4.466	-0.750	6.898	8.252	-0.000	0.000	0.001
	45:CIMX14	1.470	-0.980	-4.763	5.080	-0.000	0.000	0.001
	46:CIMX15	-1.995	-0.775	5.204	5.627	-0.000	0.000	0.001
	47:CIMX16	-4.991	-1.005	-6.458	8.224	-0.000	-0.000	0.001
121	31:CIM	-0.394	-2.437	0.615	2.544	-0.000	0.000	0.000
	32:CIMX1	9.590	-1.529	5.122	10.980	-0.000	0.001	0.000
	33:CIMX2	-9.497	-1.996	-0.594	9.722	-0.000	-0.000	0.000
	34:CIMX3	8.777	-1.782	1.564	9.092	-0.000	0.000	0.000
	35:CIMX4	-10.310	-2.249	-4.152	11.340	-0.000	-0.000	0.000
	36:CIMX5	3.865	-1.399	7.252	8.336	-0.000	0.000	0.000
	37:CIMX6	-1.885	-1.540	5.529	6.042	-0.000	0.000	0.000
	38:CIMX7	1.166	-2.238	-4.559	5.211	-0.000	0.000	0.000
	39:CIMX8	-4.585	-2.379	-6.282	8.132	-0.000	-0.000	0.000
	40:CIMX9	9.556	-2.077	5.252	11.101	-0.000	0.001	0.001
	41:CIMX10	8.743	-2.330	1.693	9.205	-0.000	0.001	0.001
	42:CIMX11	-9.530	-2.544	-0.464	9.875	-0.000	-0.000	0.000
	43:CIMX12	-10.344	-2.797	-4.023	11.445	-0.000	-0.000	0.000
	44:CIMX13	3.831	-1.947	7.381	8.541	-0.000	0.000	0.000
	45:CIMX14	1.132	-2.786	-4.430	5.354	-0.000	0.000	0.000
	46:CIMX15	-1.919	-2.088	5.659	6.330	-0.000	0.000	0.000
	47:CIMX16	-4.619	-2.927	-6.152	8.231	-0.000	-0.000	0.000
122	31:CIM	-0.159	-2.331	0.551	2.400	0.000	-0.000	0.000
	32:CIMX1	8.559	-1.383	5.084	10.051	0.000	0.000	0.000
	33:CIMX2	-8.197	-1.924	-0.635	8.444	0.000	-0.001	-0.000
	34:CIMX3	7.810	-1.691	1.517	8.134	0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	35:CIMX4	-8.946	-2.233	-4.202	10.133	0.000	-0.001	-0.000
	36:CIMX5	3.573	-1.215	7.222	8.149	0.000	0.000	0.000
	37:CIMX6	-1.475	-1.378	5.499	5.858	0.000	-0.000	0.000
	38:CIMX7	1.089	-2.238	-4.618	5.246	0.000	-0.000	0.000
	39:CIMX8	-3.960	-2.401	-6.341	7.852	0.000	-0.000	-0.000
	40:CIMX9	8.593	-1.906	5.194	10.220	0.001	0.000	0.000
	41:CIMX10	7.845	-2.214	1.627	8.312	0.000	0.000	0.000
	42:CIMX11	-8.163	-2.447	-0.525	8.538	0.000	-0.001	-0.000
	43:CIMX12	-8.911	-2.756	-4.092	10.186	0.000	-0.001	-0.000
	44:CIMX13	3.607	-1.738	7.332	8.354	0.001	0.000	0.000
	45:CIMX14	1.123	-2.761	-4.507	5.404	0.000	-0.000	0.000
	46:CIMX15	-1.441	-1.901	5.609	6.095	0.001	-0.000	0.000
	47:CIMX16	-3.926	-2.924	-6.230	7.923	0.000	-0.000	0.000
125	31:CIM	-0.774	-1.963	0.352	2.139	0.000	-0.000	0.001
	32:CIMX1	11.368	-1.299	4.200	12.189	0.000	0.000	0.000
	33:CIMX2	-11.572	-1.562	-0.120	11.677	0.000	-0.000	0.000
	34:CIMX3	10.396	-1.325	0.654	10.500	0.000	0.000	0.000
	35:CIMX4	-12.544	-1.588	-3.666	13.165	0.000	-0.001	0.000
	36:CIMX5	4.482	-1.361	6.803	8.260	0.000	0.000	0.000
	37:CIMX6	-2.430	-1.441	5.502	6.184	0.000	-0.000	0.000
	38:CIMX7	1.254	-1.447	-4.967	5.323	0.000	0.000	0.000
	39:CIMX8	-5.658	-1.526	-6.269	8.581	0.000	-0.000	0.000
	40:CIMX9	11.182	-1.819	4.285	12.112	0.001	0.000	0.001
	41:CIMX10	10.210	-1.844	0.739	10.401	0.001	0.000	0.001
	42:CIMX11	-11.758	-2.082	-0.035	11.940	0.000	-0.001	0.001
	43:CIMX12	-12.730	-2.107	-3.582	13.391	0.000	-0.001	0.001
	44:CIMX13	4.296	-1.881	6.888	8.332	0.001	0.000	0.001
	45:CIMX14	1.068	-1.966	-4.883	5.371	0.000	-0.000	0.001
	46:CIMX15	-2.616	-1.960	5.586	6.472	0.000	-0.000	0.001
	47:CIMX16	-5.843	-2.045	-6.184	8.751	0.000	-0.000	0.001
138	31:CIM	0.271	-1.347	0.037	1.374	0.000	-0.000	0.000
	32:CIMX1	7.801	-0.723	3.559	8.605	0.000	0.000	0.000
	33:CIMX2	-6.846	-1.270	0.126	6.964	0.000	-0.001	-0.000
	34:CIMX3	7.126	-0.761	-0.023	7.166	0.000	0.000	0.000
	35:CIMX4	-7.522	-1.307	-3.456	8.381	0.000	-0.001	-0.000
	36:CIMX5	3.467	-0.871	6.514	7.430	0.001	0.000	0.000
	37:CIMX6	-0.946	-1.036	5.479	5.656	0.000	-0.000	0.000
	38:CIMX7	1.225	-0.995	-5.377	5.603	0.000	-0.000	0.000
	39:CIMX8	-3.188	-1.160	-6.411	7.253	-0.000	-0.000	0.000
	40:CIMX9	7.933	-1.055	3.545	8.752	0.001	0.000	0.000
	41:CIMX10	7.257	-1.092	-0.038	7.339	0.000	0.000	0.000
	42:CIMX11	-6.715	-1.601	0.112	6.904	0.000	-0.001	0.000
	43:CIMX12	-7.391	-1.639	-3.471	8.328	0.000	-0.001	0.000
	44:CIMX13	3.599	-1.202	6.499	7.526	0.001	0.000	0.000
	45:CIMX14	1.356	-1.326	-5.391	5.715	0.000	-0.000	0.000
	46:CIMX15	-0.814	-1.367	5.465	5.692	0.001	-0.000	0.000
	47:CIMX16	-3.057	-1.491	-6.425	7.270	0.000	-0.000	0.000
140	31:CIM	0.218	-1.209	-0.297	1.264	0.000	-0.000	0.000
	32:CIMX1	7.772	-0.779	3.754	8.666	0.000	0.000	0.000
	33:CIMX2	-6.870	-0.978	-0.374	6.949	0.000	-0.001	-0.000
	34:CIMX3	7.098	-0.800	-0.026	7.143	0.000	0.000	0.000
	35:CIMX4	-7.543	-0.999	-4.154	8.669	0.000	-0.001	-0.000
	36:CIMX5	3.437	-0.825	6.695	7.571	0.000	0.000	0.000
	37:CIMX6	-0.974	-0.885	5.451	5.608	0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	38:CIMX7	1.203	-0.894	-5.851	6.040	0.000	-0.000	-0.000
	39:CIMX8	-3.209	-0.954	-7.095	7.845	0.000	-0.000	-0.000
	40:CIMX9	7.875	-1.099	3.658	8.752	0.000	0.000	0.000
	41:CIMX10	7.202	-1.120	-0.122	7.290	0.000	0.000	0.000
	42:CIMX11	-6.766	-1.298	-0.471	6.906	0.000	-0.001	-0.000
	43:CIMX12	-7.440	-1.319	-4.251	8.669	0.000	-0.001	-0.000
	44:CIMX13	3.540	-1.145	6.598	7.575	0.000	0.000	0.000
	45:CIMX14	1.306	-1.214	-5.948	6.209	0.000	-0.000	-0.000
	46:CIMX15	-0.871	-1.205	5.354	5.557	0.000	-0.000	0.000
	47:CIMX16	-3.105	-1.274	-7.192	7.936	0.000	-0.000	-0.000
141	31:CIM	-1.031	-0.865	0.026	1.346	-0.000	-0.000	-0.000
	32:CIMX1	10.610	-0.381	5.272	11.854	-0.000	0.001	0.000
	33:CIMX2	-11.218	-0.818	-1.377	11.331	-0.001	-0.001	-0.000
	34:CIMX3	9.688	-0.502	1.372	9.798	-0.000	0.000	0.000
	35:CIMX4	-12.139	-0.939	-5.277	13.269	-0.001	-0.001	-0.000
	36:CIMX5	4.052	-0.393	7.472	8.509	-0.000	0.000	0.000
	37:CIMX6	-2.524	-0.525	5.469	6.046	-0.000	-0.000	-0.000
	38:CIMX7	0.995	-0.795	-5.473	5.619	-0.001	-0.000	0.000
	39:CIMX8	-5.581	-0.927	-7.476	9.376	-0.001	-0.001	-0.000
	40:CIMX9	10.343	-0.585	5.300	11.637	-0.000	0.001	0.000
	41:CIMX10	9.422	-0.706	1.400	9.551	-0.000	0.000	0.000
	42:CIMX11	-11.484	-1.023	-1.349	11.608	-0.001	-0.001	-0.000
	43:CIMX12	-12.405	-1.144	-5.249	13.519	-0.001	-0.001	-0.001
	44:CIMX13	3.786	-0.598	7.500	8.422	-0.000	0.000	0.000
	45:CIMX14	0.728	-1.000	-5.445	5.583	-0.001	-0.000	0.000
	46:CIMX15	-2.791	-0.729	5.497	6.208	-0.000	-0.000	-0.000
	47:CIMX16	-5.848	-1.131	-7.448	9.537	-0.001	-0.001	-0.000
142	31:CIM	-0.362	-2.523	-0.459	2.590	-0.000	-0.000	0.000
	32:CIMX1	9.811	-1.226	5.040	11.098	-0.000	0.000	0.000
	33:CIMX2	-9.506	-2.254	-1.803	9.934	-0.000	-0.001	-0.000
	34:CIMX3	8.983	-1.575	1.072	9.183	-0.000	0.000	0.000
	35:CIMX4	-10.334	-2.602	-5.771	12.118	-0.000	-0.001	-0.000
	36:CIMX5	4.022	-1.180	7.250	8.375	-0.000	0.000	0.000
	37:CIMX6	-1.798	-1.490	5.189	5.690	-0.000	-0.000	0.000
	38:CIMX7	1.275	-2.338	-5.919	6.491	-0.000	-0.000	0.000
	39:CIMX8	-4.545	-2.648	-7.981	9.558	-0.000	-0.000	-0.000
	40:CIMX9	9.710	-1.835	4.946	11.051	-0.000	0.000	0.000
	41:CIMX10	8.883	-2.184	0.978	9.199	-0.000	0.000	0.000
	42:CIMX11	-9.607	-2.863	-1.897	10.202	-0.000	-0.001	-0.000
	43:CIMX12	-10.434	-3.212	-5.865	12.393	-0.000	-0.001	-0.000
	44:CIMX13	3.921	-1.790	7.156	8.354	-0.000	0.000	0.000
	45:CIMX14	1.174	-2.947	-6.013	6.799	-0.000	-0.000	0.000
	46:CIMX15	-1.899	-2.099	5.095	5.828	-0.000	-0.000	0.000
	47:CIMX16	-4.645	-3.257	-8.075	9.869	-0.000	-0.000	-0.000
143	31:CIM	-0.022	-2.558	-0.539	2.614	0.000	-0.000	0.000
	32:CIMX1	8.896	-1.448	4.950	10.283	0.000	0.000	0.000
	33:CIMX2	-8.196	-2.169	-1.840	8.675	0.000	-0.000	-0.000
	34:CIMX3	8.151	-1.670	1.015	8.382	0.000	0.000	0.000
	35:CIMX4	-8.941	-2.391	-5.776	10.909	0.000	-0.001	-0.000
	36:CIMX5	3.789	-1.443	7.142	8.212	0.000	0.000	0.000
	37:CIMX6	-1.360	-1.660	5.096	5.529	0.000	-0.000	0.000
	38:CIMX7	1.316	-2.179	-5.922	6.445	0.000	0.000	0.000
	39:CIMX8	-3.834	-2.396	-7.967	9.161	0.000	-0.000	-0.000
	40:CIMX9	8.896	-2.087	4.825	10.333	0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	41:CIMX10	8.151	-2.309	0.889	8.518	0.000	0.000	0.000
	42:CIMX11	-8.195	-2.807	-1.966	8.883	0.000	-0.000	-0.000
	43:CIMX12	-8.940	-3.029	-5.902	11.133	0.000	-0.001	-0.000
	44:CIMX13	3.789	-2.081	7.016	8.241	0.000	0.000	0.000
	45:CIMX14	1.316	-2.817	-6.047	6.800	0.000	0.000	0.000
	46:CIMX15	-1.360	-2.298	4.970	5.642	0.000	-0.000	0.000
	47:CIMX16	-3.833	-3.034	-8.093	9.455	0.000	-0.000	-0.000
146	31:CIM	0.092	-1.856	-0.045	1.859	0.000	-0.000	-0.000
	32:CIMX1	8.306	-1.050	4.530	9.519	0.000	0.000	0.000
	33:CIMX2	-7.555	-1.563	-0.771	7.753	0.000	-0.001	-0.000
	34:CIMX3	7.614	-1.082	0.704	7.722	0.000	0.000	-0.000
	35:CIMX4	-8.247	-1.595	-4.597	9.575	0.000	-0.001	-0.000
	36:CIMX5	3.568	-1.191	7.114	8.047	0.000	0.000	0.000
	37:CIMX6	-1.211	-1.346	5.517	5.807	0.000	-0.000	0.000
	38:CIMX7	1.270	-1.299	-5.584	5.872	0.000	-0.000	-0.000
	39:CIMX8	-3.508	-1.454	-7.181	8.124	0.000	-0.000	-0.000
	40:CIMX9	8.368	-1.583	4.518	9.641	0.000	0.000	0.000
	41:CIMX10	7.676	-1.615	0.693	7.875	0.000	0.000	-0.000
	42:CIMX11	-7.492	-2.096	-0.783	7.819	0.000	-0.001	-0.000
	43:CIMX12	-8.184	-2.129	-4.608	9.631	0.000	-0.001	-0.000
	44:CIMX13	3.630	-1.724	7.103	8.161	0.000	0.000	0.000
	45:CIMX14	1.332	-1.832	-5.596	6.037	0.000	-0.000	-0.000
	46:CIMX15	-1.148	-1.879	5.506	5.930	0.000	-0.000	0.000
	47:CIMX16	-3.446	-1.987	-7.193	8.220	0.000	-0.000	-0.000
147	31:CIM	-0.988	-1.180	0.153	1.547	-0.000	-0.000	-0.000
	32:CIMX1	11.131	-0.458	4.264	11.928	0.000	0.001	-0.000
	33:CIMX2	-11.638	-1.280	-0.286	11.712	-0.000	-0.001	-0.000
	34:CIMX3	10.168	-0.496	0.470	10.191	-0.000	0.000	-0.000
	35:CIMX4	-12.601	-1.318	-4.080	13.311	-0.000	-0.001	-0.000
	36:CIMX5	4.293	-0.700	7.074	8.304	0.000	0.000	-0.000
	37:CIMX6	-2.567	-0.948	5.703	6.326	0.000	-0.000	-0.000
	38:CIMX7	1.097	-0.828	-5.520	5.688	-0.000	-0.000	-0.000
	39:CIMX8	-5.763	-1.076	-6.891	9.047	-0.000	-0.000	-0.000
	40:CIMX9	10.878	-0.750	4.325	11.730	0.000	0.000	-0.000
	41:CIMX10	9.915	-0.788	0.531	9.960	-0.000	0.000	-0.000
	42:CIMX11	-11.891	-1.572	-0.225	11.997	-0.000	-0.001	-0.000
	43:CIMX12	-12.854	-1.610	-4.019	13.564	-0.000	-0.001	-0.000
	44:CIMX13	4.040	-0.992	7.135	8.259	0.000	0.000	-0.000
	45:CIMX14	0.844	-1.120	-5.458	5.636	-0.000	-0.000	-0.000
	46:CIMX15	-2.820	-1.240	5.765	6.536	0.000	-0.000	-0.000
	47:CIMX16	-6.016	-1.368	-6.829	9.203	-0.001	-0.000	-0.000
148	31:CIM	-0.561	-1.431	0.257	1.558	0.000	0.000	0.001
	32:CIMX1	11.266	-0.903	4.347	12.109	0.000	0.001	0.001
	33:CIMX2	-11.189	-1.186	-0.420	11.260	0.000	-0.000	0.000
	34:CIMX3	10.316	-0.931	0.815	10.390	0.000	0.000	0.001
	35:CIMX4	-12.139	-1.214	-3.952	12.823	0.000	-0.000	0.000
	36:CIMX5	4.521	-0.970	6.776	8.204	0.000	0.000	0.001
	37:CIMX6	-2.244	-1.055	5.340	5.888	0.000	-0.000	0.000
	38:CIMX7	1.371	-1.062	-4.945	5.240	0.000	0.000	0.000
	39:CIMX8	-5.394	-1.147	-6.381	8.434	0.000	-0.000	0.000
	40:CIMX9	11.141	-1.275	4.407	12.049	0.000	0.001	0.001
	41:CIMX10	10.192	-1.303	0.875	10.312	0.000	0.000	0.001
	42:CIMX11	-11.314	-1.558	-0.361	11.426	0.000	-0.000	0.001
	43:CIMX12	-12.263	-1.586	-3.892	12.963	0.000	-0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	44:CIMX13	4.397	-1.342	6.836	8.238	0.000	0.000	0.001
	45:CIMX14	1.247	-1.434	-4.885	5.242	0.000	0.000	0.001
	46:CIMX15	-2.368	-1.427	5.400	6.067	0.000	0.000	0.001
	47:CIMX16	-5.519	-1.520	-6.321	8.528	0.000	-0.000	0.001
151	31:CIM	-0.791	-1.805	0.358	2.003	0.000	0.000	-0.000
	32:CIMX1	11.145	-1.286	3.522	11.759	0.000	0.001	-0.000
	33:CIMX2	-11.391	-1.339	0.617	11.486	0.000	-0.000	-0.000
	34:CIMX3	10.192	-1.307	-0.096	10.276	0.000	0.001	-0.000
	35:CIMX4	-12.343	-1.360	-3.001	12.776	0.000	-0.000	-0.000
	36:CIMX5	4.377	-1.281	6.702	8.106	0.000	0.000	-0.000
	37:CIMX6	-2.413	-1.297	5.827	6.439	0.000	0.000	-0.000
	38:CIMX7	1.215	-1.350	-5.306	5.608	0.000	0.000	-0.000
	39:CIMX8	-5.575	-1.366	-6.181	8.435	0.000	-0.000	-0.000
	40:CIMX9	10.953	-1.768	3.620	11.670	0.001	0.001	-0.000
	41:CIMX10	10.000	-1.788	0.002	10.159	0.001	0.001	-0.000
	42:CIMX11	-11.583	-1.821	0.714	11.747	0.000	-0.000	-0.001
	43:CIMX12	-12.535	-1.841	-2.904	12.998	0.000	-0.000	-0.001
	44:CIMX13	4.185	-1.762	6.800	8.176	0.001	0.000	-0.000
	45:CIMX14	1.023	-1.831	-5.208	5.615	0.000	0.000	-0.000
	46:CIMX15	-2.605	-1.778	5.924	6.712	0.001	0.000	-0.000
	47:CIMX16	-5.767	-1.847	-6.084	8.584	0.000	-0.000	-0.000
152	31:CIM	-1.051	-0.927	0.458	1.474	0.000	-0.000	0.000
	32:CIMX1	10.977	-0.652	3.601	11.570	0.000	0.001	0.000
	33:CIMX2	-11.588	-0.740	0.746	11.636	0.000	-0.000	0.000
	34:CIMX3	10.022	-0.659	-0.108	10.045	0.000	0.000	0.000
	35:CIMX4	-12.542	-0.747	-2.962	12.909	0.000	-0.001	0.000
	36:CIMX5	4.200	-0.674	6.903	8.108	0.000	0.000	0.000
	37:CIMX6	-2.599	-0.700	6.043	6.616	0.000	-0.000	0.000
	38:CIMX7	1.033	-0.699	-5.405	5.547	-0.000	-0.000	0.000
	39:CIMX8	-5.765	-0.725	-6.265	8.545	-0.000	-0.000	0.000
	40:CIMX9	10.708	-0.879	3.739	11.377	0.000	0.000	0.000
	41:CIMX10	9.754	-0.887	0.031	9.795	0.000	0.000	0.000
	42:CIMX11	-11.856	-0.967	0.885	11.929	0.000	-0.000	0.000
	43:CIMX12	-12.810	-0.975	-2.823	13.154	0.000	-0.001	0.000
	44:CIMX13	3.931	-0.901	7.042	8.115	0.001	0.000	0.000
	45:CIMX14	0.765	-0.926	-5.266	5.401	0.000	-0.000	0.000
	46:CIMX15	-2.867	-0.928	6.182	6.877	0.000	-0.000	0.000
	47:CIMX16	-6.033	-0.953	-6.126	8.651	-0.000	-0.000	0.000
155	31:CIM	-0.734	-2.605	-0.048	2.707	0.000	0.000	-0.000
	32:CIMX1	5.088	-1.781	3.199	6.269	0.000	0.001	-0.000
	33:CIMX2	-5.362	-1.904	0.514	5.713	0.000	-0.000	-0.000
	34:CIMX3	4.275	-1.796	-0.605	4.676	0.000	0.000	-0.000
	35:CIMX4	-6.176	-1.918	-3.290	7.255	0.000	-0.000	-0.000
	36:CIMX5	2.380	-1.807	6.673	7.312	0.000	0.000	-0.000
	37:CIMX6	-0.769	-1.844	5.864	6.195	0.000	0.000	-0.000
	38:CIMX7	-0.319	-1.855	-5.955	6.245	0.000	0.000	-0.000
	39:CIMX8	-3.468	-1.892	-6.764	7.833	0.000	-0.000	-0.000
	40:CIMX9	4.898	-2.537	3.197	6.375	0.000	0.001	-0.000
	41:CIMX10	4.085	-2.551	-0.608	4.854	0.000	0.001	-0.000
	42:CIMX11	-5.552	-2.659	0.511	6.178	0.000	-0.000	-0.000
	43:CIMX12	-6.366	-2.674	-3.293	7.649	0.000	-0.000	-0.000
	44:CIMX13	2.190	-2.563	6.670	7.474	0.000	0.000	-0.000
	45:CIMX14	-0.509	-2.611	-5.958	6.525	0.000	0.000	-0.000
	46:CIMX15	-0.959	-2.600	5.861	6.483	0.000	0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
162	47:CIMX16	-3.658	-2.648	-6.767	8.135	0.000	-0.000	-0.000
	31:CIM	-0.293	-2.643	0.861	2.795	-0.000	0.000	0.000
	32:CIMX1	5.473	-1.607	5.914	8.216	-0.000	0.001	0.000
	33:CIMX2	-5.211	-2.061	-0.539	5.629	-0.000	-0.000	-0.000
	34:CIMX3	4.805	-1.903	1.805	5.474	-0.000	0.000	0.000
	35:CIMX4	-5.878	-2.356	-4.648	7.856	-0.000	-0.000	-0.000
	36:CIMX5	2.515	-1.423	8.424	8.906	-0.000	0.000	0.000
	37:CIMX6	-0.704	-1.560	6.480	6.702	-0.000	-0.000	0.000
	38:CIMX7	0.298	-2.404	-5.214	5.749	-0.000	0.000	-0.000
	39:CIMX8	-2.921	-2.540	-7.158	8.138	-0.000	-0.000	-0.000
	40:CIMX9	5.382	-2.269	6.142	8.476	-0.000	0.001	0.000
	41:CIMX10	4.715	-2.564	2.033	5.739	-0.000	0.001	0.000
	42:CIMX11	-5.301	-2.722	-0.311	5.967	-0.000	-0.000	-0.000
	43:CIMX12	-5.969	-3.017	-4.420	8.017	-0.000	-0.000	-0.000
	44:CIMX13	2.424	-2.085	8.652	9.224	-0.000	0.000	0.000
	45:CIMX14	0.208	-3.065	-4.986	5.856	-0.000	0.000	-0.000
	46:CIMX15	-0.794	-2.221	6.708	7.111	-0.000	0.000	0.000
	47:CIMX16	-3.011	-3.202	-6.930	8.206	-0.000	-0.000	-0.000
163	31:CIM	-0.794	-2.396	0.728	2.627	0.000	0.000	0.000
	32:CIMX1	5.041	-1.273	5.869	7.841	0.000	0.001	0.000
	33:CIMX2	-5.422	-1.925	-0.633	5.788	0.000	-0.000	-0.000
	34:CIMX3	4.313	-1.716	1.725	4.952	0.000	0.001	0.000
	35:CIMX4	-6.150	-2.369	-4.777	8.139	0.000	-0.000	-0.000
	36:CIMX5	2.231	-0.986	8.402	8.749	0.000	0.000	0.000
	37:CIMX6	-0.922	-1.183	6.443	6.616	0.000	0.000	0.000
	38:CIMX7	-0.187	-2.459	-5.352	5.892	0.000	0.000	-0.000
	39:CIMX8	-3.339	-2.655	-7.310	8.464	0.000	-0.000	-0.000
	40:CIMX9	4.802	-1.848	6.051	7.943	0.000	0.001	0.000
	41:CIMX10	4.074	-2.292	1.907	5.048	0.000	0.001	0.000
	42:CIMX11	-5.661	-2.501	-0.450	6.205	0.000	-0.000	-0.000
	43:CIMX12	-6.389	-2.944	-4.594	8.402	0.000	-0.000	-0.000
	44:CIMX13	1.991	-1.562	8.585	8.950	0.000	0.001	0.000
	45:CIMX14	-0.426	-3.034	-5.169	6.009	0.000	0.000	-0.000
	46:CIMX15	-1.161	-1.758	6.626	6.953	0.000	0.000	0.000
	47:CIMX16	-3.578	-3.231	-7.128	8.605	0.000	-0.000	-0.000
164	31:CIM	-1.581	-0.732	0.250	1.760	0.000	0.000	-0.000
	32:CIMX1	4.751	-0.406	5.397	7.201	0.001	0.001	0.000
	33:CIMX2	-6.116	-0.607	-0.971	6.222	0.000	-0.000	-0.000
	34:CIMX3	3.843	-0.529	1.350	4.107	0.000	0.001	0.000
	35:CIMX4	-7.024	-0.729	-5.018	8.663	0.000	-0.000	-0.000
	36:CIMX5	2.008	-0.335	7.865	8.124	0.001	0.001	0.000
	37:CIMX6	-1.267	-0.395	5.946	6.092	0.001	0.000	-0.000
	38:CIMX7	-1.006	-0.740	-5.567	5.706	-0.000	0.000	-0.000
	39:CIMX8	-4.281	-0.801	-7.486	8.660	-0.000	-0.000	-0.000
	40:CIMX9	4.307	-0.571	5.457	6.976	0.001	0.001	0.000
	41:CIMX10	3.399	-0.693	1.411	3.744	0.000	0.001	0.000
	42:CIMX11	-6.561	-0.771	-0.910	6.668	0.000	-0.000	-0.000
	43:CIMX12	-7.469	-0.893	-4.957	9.008	0.000	-0.000	-0.000
	44:CIMX13	1.563	-0.499	7.926	8.094	0.001	0.001	-0.000
	45:CIMX14	-1.451	-0.905	-5.506	5.766	0.000	0.000	-0.000
	46:CIMX15	-1.711	-0.560	6.007	6.271	0.001	0.000	-0.000
	47:CIMX16	-4.725	-0.965	-7.425	8.853	-0.000	-0.000	-0.000
183	31:CIM	0.181	-1.337	-0.078	1.351	-0.000	0.000	0.000
	32:CIMX1	6.238	-0.822	3.452	7.176	-0.000	0.001	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	33:CIMX2	-5.466	-1.184	0.060	5.593	-0.000	-0.000	-0.000
	34:CIMX3	5.622	-0.839	-0.217	5.688	-0.000	0.001	0.000
	35:CIMX4	-6.082	-1.201	-3.609	7.173	-0.000	-0.000	-0.000
	36:CIMX5	2.863	-0.929	6.521	7.182	0.000	0.000	0.000
	37:CIMX6	-0.663	-1.038	5.499	5.636	-0.000	0.000	0.000
	38:CIMX7	0.819	-0.985	-5.656	5.800	-0.001	0.000	0.000
	39:CIMX8	-2.707	-1.094	-6.678	7.288	-0.001	-0.000	-0.000
	40:CIMX9	6.341	-1.147	3.452	7.310	-0.000	0.001	0.000
	41:CIMX10	5.725	-1.164	-0.217	5.847	-0.000	0.001	0.000
	42:CIMX11	-5.363	-1.509	0.060	5.571	-0.000	-0.000	0.000
	43:CIMX12	-5.978	-1.527	-3.609	7.148	-0.001	-0.000	0.000
	44:CIMX13	2.966	-1.254	6.521	7.273	-0.000	0.000	0.000
	45:CIMX14	0.923	-1.311	-5.656	5.879	-0.001	0.000	0.000
	46:CIMX15	-0.560	-1.363	5.500	5.694	-0.000	0.000	0.000
	47:CIMX16	-2.603	-1.420	-6.678	7.307	-0.001	0.000	0.000
185	31:CIM	0.130	-1.162	0.498	1.271	-0.000	0.000	0.000
	32:CIMX1	6.200	-0.799	4.322	7.600	-0.000	0.001	0.000
	33:CIMX2	-5.469	-0.905	0.278	5.550	-0.000	-0.000	-0.000
	34:CIMX3	5.580	-0.804	0.394	5.651	-0.000	0.001	0.000
	35:CIMX4	-6.089	-0.910	-3.651	7.158	-0.000	-0.000	-0.000
	36:CIMX5	2.843	-0.830	7.464	8.030	-0.000	0.000	0.000
	37:CIMX6	-0.673	-0.862	6.246	6.341	-0.000	0.000	0.000
	38:CIMX7	0.784	-0.846	-5.575	5.693	-0.000	0.000	-0.000
	39:CIMX8	-2.732	-0.878	-6.793	7.374	-0.000	-0.000	-0.000
	40:CIMX9	6.275	-1.106	4.485	7.792	-0.000	0.001	0.000
	41:CIMX10	5.655	-1.111	0.556	5.789	-0.000	0.001	0.000
	42:CIMX11	-5.394	-1.212	0.440	5.546	-0.000	-0.000	0.000
	43:CIMX12	-6.014	-1.217	-3.488	7.058	-0.000	-0.000	-0.000
	44:CIMX13	2.917	-1.137	7.627	8.245	-0.000	0.000	0.000
	45:CIMX14	0.859	-1.154	-5.412	5.600	-0.000	0.000	-0.000
	46:CIMX15	-0.598	-1.169	6.409	6.542	-0.000	0.000	0.000
	47:CIMX16	-2.657	-1.186	-6.630	7.241	-0.000	-0.000	-0.000
186	31:CIM	-0.682	-4.650	0.356	4.714	-0.001	-0.000	0.001
	32:CIMX1	6.036	-3.365	3.823	7.897	-0.001	0.000	0.000
	33:CIMX2	-5.865	-3.578	0.440	6.884	-0.001	-0.001	0.000
	34:CIMX3	4.944	-3.470	0.144	6.042	-0.001	0.000	0.000
	35:CIMX4	-6.956	-3.683	-3.239	8.512	-0.001	-0.001	0.000
	36:CIMX5	3.143	-3.318	6.908	8.283	-0.001	0.000	0.000
	37:CIMX6	-0.442	-3.382	5.889	6.805	-0.001	-0.000	0.000
	38:CIMX7	-0.479	-3.666	-5.305	6.466	-0.001	-0.000	0.000
	39:CIMX8	-4.064	-3.731	-6.324	8.392	-0.001	-0.000	0.000
	40:CIMX9	5.814	-4.491	3.887	8.312	-0.001	0.000	0.001
	41:CIMX10	4.722	-4.596	0.208	6.593	-0.001	0.000	0.001
	42:CIMX11	-6.087	-4.704	0.504	7.709	-0.001	-0.001	0.001
	43:CIMX12	-7.178	-4.809	-3.175	9.205	-0.001	-0.001	0.001
	44:CIMX13	2.922	-4.444	6.972	8.769	-0.001	0.000	0.001
	45:CIMX14	-0.700	-4.793	-5.240	7.136	-0.001	-0.000	0.001
	46:CIMX15	-0.664	-4.508	5.953	7.497	-0.001	-0.000	0.001
	47:CIMX16	-4.286	-4.857	-6.260	9.008	-0.001	-0.000	0.001
187	31:CIM	-0.592	-5.158	0.743	5.245	-0.002	-0.001	-0.000
	32:CIMX1	6.145	-3.650	3.801	8.095	-0.002	0.000	-0.000
	33:CIMX2	-5.789	-4.018	1.140	7.138	-0.002	-0.001	-0.000
	34:CIMX3	5.032	-3.861	0.046	6.343	-0.002	-0.000	-0.000
	35:CIMX4	-6.901	-4.229	-2.615	8.506	-0.002	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	36:CIMX5	3.266	-3.533	7.225	8.680	-0.002	-0.000	-0.000
	37:CIMX6	-0.330	-3.644	6.423	7.392	-0.002	-0.001	-0.000
	38:CIMX7	-0.427	-4.235	-5.237	6.748	-0.002	-0.000	-0.000
	39:CIMX8	-4.022	-4.345	-6.039	8.457	-0.002	-0.001	-0.000
	40:CIMX9	5.930	-4.868	3.951	8.630	-0.002	-0.000	-0.000
	41:CIMX10	4.818	-5.079	0.197	7.004	-0.002	-0.000	-0.000
	42:CIMX11	-6.003	-5.236	1.290	8.069	-0.002	-0.001	-0.000
	43:CIMX12	-7.115	-5.447	-2.465	9.294	-0.002	-0.001	-0.000
	44:CIMX13	3.051	-4.752	7.375	9.289	-0.002	-0.000	-0.000
	45:CIMX14	-0.641	-5.453	-5.087	7.485	-0.002	-0.001	-0.000
	46:CIMX15	-0.544	-4.862	6.574	8.195	-0.002	-0.001	-0.000
	47:CIMX16	-4.236	-5.564	-5.888	9.142	-0.002	-0.001	-0.000
188	31:CIM	-1.049	-3.731	0.685	3.936	-0.002	-0.001	-0.001
	32:CIMX1	5.845	-2.367	4.424	7.703	-0.001	-0.000	-0.001
	33:CIMX2	-6.122	-2.980	0.467	6.825	-0.002	-0.001	-0.001
	34:CIMX3	4.692	-2.767	0.620	5.482	-0.002	-0.000	-0.001
	35:CIMX4	-7.276	-3.380	-3.337	8.689	-0.002	-0.001	-0.001
	36:CIMX5	3.002	-2.119	7.453	8.309	-0.001	-0.000	-0.000
	37:CIMX6	-0.604	-2.303	6.261	6.698	-0.001	-0.001	-0.001
	38:CIMX7	-0.827	-3.444	-5.174	6.270	-0.002	-0.001	-0.001
	39:CIMX8	-4.432	-3.629	-6.366	8.564	-0.002	-0.001	-0.001
	40:CIMX9	5.512	-3.225	4.566	7.850	-0.002	-0.000	-0.001
	41:CIMX10	4.358	-3.624	0.762	5.719	-0.002	-0.000	-0.001
	42:CIMX11	-6.456	-3.838	0.609	7.535	-0.002	-0.001	-0.001
	43:CIMX12	-7.609	-4.237	-3.195	9.277	-0.002	-0.001	-0.001
	44:CIMX13	2.668	-2.976	7.595	8.583	-0.002	-0.000	-0.001
	45:CIMX14	-1.160	-4.302	-5.032	6.721	-0.002	-0.001	-0.001
	46:CIMX15	-0.937	-3.161	6.403	7.202	-0.002	-0.001	-0.001
	47:CIMX16	-4.766	-4.486	-6.224	9.032	-0.002	-0.001	-0.001
189	31:CIM	-0.378	-2.338	-0.714	2.474	-0.000	0.000	0.000
	32:CIMX1	5.322	-1.361	4.067	6.834	-0.000	0.001	0.000
	33:CIMX2	-5.382	-1.905	-1.523	5.909	-0.000	-0.000	0.000
	34:CIMX3	4.700	-1.727	0.426	5.025	-0.000	0.001	0.000
	35:CIMX4	-6.004	-2.271	-5.164	8.238	-0.000	-0.000	0.000
	36:CIMX5	2.303	-1.127	6.336	6.835	-0.000	0.000	0.000
	37:CIMX6	-0.922	-1.291	4.652	4.915	-0.000	0.000	0.000
	38:CIMX7	0.240	-2.341	-5.749	6.212	-0.000	0.000	0.000
	39:CIMX8	-2.985	-2.504	-7.433	8.392	-0.000	-0.000	0.000
	40:CIMX9	5.285	-1.884	3.902	6.834	-0.000	0.001	0.000
	41:CIMX10	4.663	-2.249	0.261	5.184	-0.000	0.001	0.000
	42:CIMX11	-5.419	-2.428	-1.688	6.173	-0.000	-0.000	0.000
	43:CIMX12	-6.041	-2.793	-5.329	8.526	-0.001	-0.000	0.000
	44:CIMX13	2.266	-1.650	6.171	6.778	-0.000	0.000	0.000
	45:CIMX14	0.203	-2.863	-5.914	6.574	-0.001	0.000	0.000
	46:CIMX15	-0.959	-1.814	4.487	4.933	-0.000	0.000	0.000
	47:CIMX16	-3.022	-3.027	-7.598	8.719	-0.001	-0.000	0.000
190	31:CIM	-0.721	-2.486	-0.790	2.707	0.000	-0.000	0.000
	32:CIMX1	5.002	-1.543	4.005	6.591	0.000	0.000	0.000
	33:CIMX2	-5.426	-2.008	-1.576	5.997	0.000	-0.001	0.000
	34:CIMX3	4.265	-1.848	0.371	4.663	0.000	0.000	0.000
	35:CIMX4	-6.163	-2.313	-5.211	8.396	0.000	-0.001	0.000
	36:CIMX5	2.213	-1.353	6.270	6.785	0.000	0.000	0.000
	37:CIMX6	-0.929	-1.493	4.588	4.914	0.000	-0.000	0.000
	38:CIMX7	-0.233	-2.363	-5.794	6.262	0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	39:CIMX8	-3.375	-2.503	-7.475	8.575	0.000	-0.000	0.000
	40:CIMX9	4.861	-2.101	3.818	6.529	0.000	0.000	0.001
	41:CIMX10	4.124	-2.406	0.183	4.778	0.000	0.000	0.001
	42:CIMX11	-5.567	-2.566	-1.764	6.379	0.000	-0.001	0.000
	43:CIMX12	-6.304	-2.871	-5.398	8.782	0.000	-0.001	0.000
	44:CIMX13	2.073	-1.911	6.082	6.704	0.001	0.000	0.000
	45:CIMX14	-0.374	-2.921	-5.981	6.667	0.000	-0.000	0.000
	46:CIMX15	-1.069	-2.051	4.401	4.971	0.000	-0.000	0.000
	47:CIMX16	-3.515	-3.061	-7.663	8.969	0.000	-0.000	0.000
191	31:CIM	-0.717	-0.965	-0.406	1.269	0.000	-0.000	0.001
	32:CIMX1	5.270	-0.640	4.241	6.795	0.000	0.000	0.001
	33:CIMX2	-5.445	-0.776	-1.259	5.642	0.000	-0.001	0.000
	34:CIMX3	4.364	-0.731	0.657	4.473	0.000	0.000	0.001
	35:CIMX4	-6.351	-0.867	-4.843	8.034	0.000	-0.001	0.000
	36:CIMX5	2.577	-0.583	6.475	6.993	0.000	0.000	0.001
	37:CIMX6	-0.651	-0.624	4.818	4.902	0.000	-0.000	0.000
	38:CIMX7	-0.430	-0.883	-5.420	5.509	0.000	-0.000	0.001
	39:CIMX8	-3.658	-0.924	-7.077	8.020	0.000	-0.000	0.000
	40:CIMX9	5.093	-0.852	4.136	6.616	0.001	0.000	0.001
	41:CIMX10	4.187	-0.942	0.552	4.327	0.000	0.000	0.001
	42:CIMX11	-5.622	-0.988	-1.364	5.869	0.000	-0.001	0.001
	43:CIMX12	-6.528	-1.078	-4.948	8.262	0.000	-0.001	0.001
	44:CIMX13	2.400	-0.794	6.370	6.853	0.001	0.000	0.001
	45:CIMX14	-0.607	-1.095	-5.525	5.665	0.000	-0.000	0.001
	46:CIMX15	-0.828	-0.835	4.713	4.857	0.001	-0.000	0.001
	47:CIMX16	-3.835	-1.136	-7.182	8.221	0.000	-0.000	0.001
204	31:CIM	-0.525	-2.576	0.071	2.630	-0.000	0.000	0.000
	32:CIMX1	5.234	-1.745	3.557	6.564	0.000	0.001	0.000
	33:CIMX2	-5.270	-1.889	0.385	5.612	-0.000	-0.000	0.000
	34:CIMX3	4.475	-1.756	-0.304	4.817	-0.000	0.001	0.000
	35:CIMX4	-6.029	-1.901	-3.476	7.214	-0.000	-0.000	-0.000
	36:CIMX5	2.444	-1.782	6.927	7.558	0.000	0.000	0.000
	37:CIMX6	-0.721	-1.826	5.971	6.285	0.000	0.000	0.000
	38:CIMX7	-0.075	-1.820	-5.890	6.165	-0.000	0.000	-0.000
	39:CIMX8	-3.239	-1.863	-6.846	7.799	-0.000	-0.000	-0.000
	40:CIMX9	5.106	-2.498	3.588	6.722	0.000	0.001	0.000
	41:CIMX10	4.347	-2.510	-0.274	5.027	-0.000	0.001	0.000
	42:CIMX11	-5.398	-2.643	0.415	6.024	-0.000	-0.000	0.000
	43:CIMX12	-6.157	-2.654	-3.446	7.538	-0.000	-0.000	-0.000
	44:CIMX13	2.316	-2.536	6.957	7.758	0.000	0.000	0.000
	45:CIMX14	-0.202	-2.573	-5.859	6.403	-0.000	0.000	-0.000
	46:CIMX15	-0.848	-2.579	6.001	6.587	0.000	0.000	0.000
	47:CIMX16	-3.367	-2.617	-6.815	8.039	-0.000	-0.000	-0.000
205	31:CIM	-0.306	-2.360	0.184	2.386	-0.000	0.000	0.000
	32:CIMX1	5.470	-1.577	4.091	7.010	-0.000	0.001	0.000
	33:CIMX2	-5.248	-1.727	0.072	5.525	-0.000	-0.000	0.000
	34:CIMX3	4.761	-1.611	0.173	5.029	-0.000	0.001	0.000
	35:CIMX4	-5.957	-1.760	-3.847	7.306	-0.000	-0.000	-0.000
	36:CIMX5	2.548	-1.591	7.231	7.830	-0.000	0.000	0.000
	37:CIMX6	-0.681	-1.636	6.020	6.275	-0.000	0.000	0.000
	38:CIMX7	0.194	-1.702	-5.775	6.024	-0.000	0.000	-0.000
	39:CIMX8	-3.035	-1.747	-6.986	7.815	-0.000	-0.000	-0.000
	40:CIMX9	5.407	-2.268	4.153	7.186	-0.000	0.001	0.000
	41:CIMX10	4.698	-2.302	0.235	5.237	-0.000	0.001	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	42:CIMX11	-5.310	-2.418	0.134	5.836	-0.000	-0.000	-0.000
	43:CIMX12	-6.020	-2.451	-3.785	7.521	-0.000	-0.000	-0.000
	44:CIMX13	2.486	-2.282	7.293	8.036	-0.000	0.000	0.000
	45:CIMX14	0.131	-2.392	-5.713	6.195	-0.000	0.000	-0.000
	46:CIMX15	-0.743	-2.327	6.082	6.554	-0.000	0.000	0.000
	47:CIMX16	-3.098	-2.437	-6.924	7.968	-0.000	-0.000	-0.000
206	31:CIM	-0.078	-1.885	0.290	1.908	-0.000	0.000	-0.000
	32:CIMX1	5.790	-1.246	4.711	7.568	-0.000	0.001	0.000
	33:CIMX2	-5.292	-1.382	-0.339	5.480	-0.000	-0.000	-0.000
	34:CIMX3	5.124	-1.291	0.735	5.335	-0.000	0.001	-0.000
	35:CIMX4	-5.958	-1.428	-4.315	7.493	-0.000	-0.000	-0.000
	36:CIMX5	2.691	-1.241	7.557	8.117	-0.000	0.000	0.000
	37:CIMX6	-0.648	-1.282	6.036	6.204	-0.000	0.000	0.000
	38:CIMX7	0.480	-1.391	-5.639	5.828	-0.000	0.000	-0.000
	39:CIMX8	-2.858	-1.432	-7.161	7.842	-0.000	-0.000	-0.000
	40:CIMX9	5.796	-1.794	4.803	7.738	-0.000	0.001	0.000
	41:CIMX10	5.130	-1.839	0.828	5.512	-0.000	0.001	-0.000
	42:CIMX11	-5.286	-1.930	-0.247	5.633	-0.000	-0.000	-0.000
	43:CIMX12	-5.953	-1.976	-4.223	7.561	-0.000	-0.000	-0.000
	44:CIMX13	2.696	-1.789	7.649	8.306	-0.000	0.000	0.000
	45:CIMX14	0.486	-1.939	-5.547	5.896	-0.000	0.000	-0.000
	46:CIMX15	-0.642	-1.830	6.128	6.427	-0.000	0.000	0.000
	47:CIMX16	-2.853	-1.980	-7.069	7.876	-0.000	-0.000	-0.000
207	31:CIM	-1.305	-2.021	-0.467	2.451	-0.000	0.000	0.001
	32:CIMX1	5.172	-1.433	3.597	6.461	-0.000	0.001	0.000
	33:CIMX2	-6.061	-1.488	-0.650	6.275	-0.000	-0.000	0.000
	34:CIMX3	4.170	-1.491	-0.042	4.429	-0.000	0.000	0.000
	35:CIMX4	-7.062	-1.546	-4.289	8.406	-0.000	-0.000	0.000
	36:CIMX5	2.409	-1.384	6.333	6.916	-0.000	0.000	0.000
	37:CIMX6	-0.976	-1.401	5.054	5.334	-0.000	0.000	0.000
	38:CIMX7	-0.915	-1.578	-5.745	6.028	-0.000	0.000	0.000
	39:CIMX8	-4.299	-1.595	-7.025	8.389	-0.000	-0.000	0.000
	40:CIMX9	4.811	-1.964	3.476	6.252	-0.000	0.001	0.001
	41:CIMX10	3.810	-2.023	-0.163	4.317	-0.000	0.001	0.001
	42:CIMX11	-6.421	-2.019	-0.772	6.775	-0.001	-0.000	0.001
	43:CIMX12	-7.422	-2.078	-4.411	8.880	-0.001	-0.000	0.001
	44:CIMX13	2.048	-1.916	6.212	6.815	-0.000	0.000	0.001
	45:CIMX14	-1.275	-2.110	-5.867	6.364	-0.001	0.000	0.001
	46:CIMX15	-1.336	-1.932	4.932	5.463	-0.000	0.000	0.001
	47:CIMX16	-4.659	-2.126	-7.146	8.792	-0.001	-0.000	0.001
208	31:CIM	-1.128	-2.238	-0.321	2.527	0.000	0.000	0.000
	32:CIMX1	5.059	-1.554	3.279	6.225	0.000	0.001	0.000
	33:CIMX2	-5.764	-1.632	-0.067	5.991	0.000	-0.000	0.000
	34:CIMX3	4.123	-1.607	-0.415	4.445	0.000	0.000	0.000
	35:CIMX4	-6.700	-1.686	-3.761	7.866	-0.000	-0.000	0.000
	36:CIMX5	2.363	-1.519	6.393	6.983	0.000	0.000	0.000
	37:CIMX6	-0.898	-1.543	5.385	5.673	0.000	0.000	0.000
	38:CIMX7	-0.743	-1.697	-5.867	6.153	0.000	0.000	0.000
	39:CIMX8	-4.004	-1.720	-6.875	8.140	0.000	-0.000	0.000
	40:CIMX9	4.751	-2.172	3.199	6.126	0.000	0.001	0.000
	41:CIMX10	3.815	-2.226	-0.495	4.445	0.000	0.001	0.000
	42:CIMX11	-6.072	-2.251	-0.147	6.477	0.000	-0.000	0.000
	43:CIMX12	-7.007	-2.304	-3.840	8.316	0.000	-0.000	0.000
	44:CIMX13	2.055	-2.138	6.313	6.975	0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	45:CIMX14	-1.051	-2.315	-5.947	6.468	0.000	0.000	0.000
	46:CIMX15	-1.206	-2.161	5.305	5.854	0.000	0.000	0.000
	47:CIMX16	-4.311	-2.339	-6.955	8.510	0.000	-0.000	0.000
209	31:CIM	-0.936	-2.471	-0.176	2.648	0.000	0.000	-0.000
	32:CIMX1	5.031	-1.696	3.114	6.155	0.000	0.001	-0.000
	33:CIMX2	-5.528	-1.800	0.360	5.825	0.000	-0.000	-0.000
	34:CIMX3	4.157	-1.733	-0.636	4.549	0.000	0.000	-0.000
	35:CIMX4	-6.401	-1.838	-3.389	7.472	0.000	-0.000	-0.000
	36:CIMX5	2.355	-1.689	6.500	7.116	0.000	0.000	0.000
	37:CIMX6	-0.826	-1.721	5.670	5.983	0.000	0.000	-0.000
	38:CIMX7	-0.544	-1.813	-5.945	6.239	0.000	0.000	-0.000
	39:CIMX8	-3.725	-1.845	-6.775	7.948	0.000	-0.000	-0.000
	40:CIMX9	4.780	-2.400	3.075	6.170	0.000	0.001	-0.000
	41:CIMX10	3.907	-2.438	-0.674	4.654	0.000	0.001	-0.000
	42:CIMX11	-5.778	-2.505	0.322	6.306	0.000	-0.000	-0.000
	43:CIMX12	-6.651	-2.542	-3.428	7.903	0.000	-0.000	-0.000
	44:CIMX13	2.104	-2.394	6.461	7.204	0.000	0.000	-0.000
	45:CIMX14	-0.794	-2.518	-5.984	6.540	0.000	0.000	-0.000
	46:CIMX15	-1.077	-2.425	5.631	6.225	0.000	0.000	-0.000
	47:CIMX16	-3.975	-2.549	-6.814	8.290	0.000	-0.000	-0.000
210	31:CIM	-1.287	-1.896	-0.363	2.320	-0.000	-0.000	-0.000
	32:CIMX1	5.084	-1.337	3.089	6.097	-0.000	0.000	-0.000
	33:CIMX2	-5.976	-1.393	0.105	6.137	-0.000	-0.001	-0.000
	34:CIMX3	4.112	-1.387	-0.634	4.386	-0.000	0.000	-0.000
	35:CIMX4	-6.948	-1.444	-3.618	7.965	-0.000	-0.001	-0.000
	36:CIMX5	2.347	-1.298	6.364	6.906	-0.000	0.000	-0.000
	37:CIMX6	-0.985	-1.316	5.465	5.707	-0.000	-0.000	-0.000
	38:CIMX7	-0.878	-1.465	-5.994	6.232	-0.000	-0.000	-0.000
	39:CIMX8	-4.211	-1.482	-6.893	8.212	-0.000	-0.000	-0.000
	40:CIMX9	4.729	-1.843	2.990	5.891	-0.000	0.000	-0.000
	41:CIMX10	3.758	-1.893	-0.733	4.271	-0.000	0.000	-0.000
	42:CIMX11	-6.331	-1.900	0.007	6.610	-0.000	-0.001	-0.000
	43:CIMX12	-7.303	-1.950	-3.716	8.423	-0.000	-0.001	-0.000
	44:CIMX13	1.992	-1.805	6.265	6.818	-0.000	0.000	-0.000
	45:CIMX14	-1.233	-1.971	-6.092	6.521	-0.000	-0.000	-0.000
	46:CIMX15	-1.340	-1.822	5.367	5.824	-0.000	-0.000	-0.000
	47:CIMX16	-4.565	-1.988	-6.991	8.583	-0.000	-0.000	-0.000
211	31:CIM	-1.583	-0.884	-0.381	1.853	-0.000	0.000	0.000
	32:CIMX1	4.862	-0.659	3.096	5.802	-0.000	0.001	0.000
	33:CIMX2	-6.186	-0.676	0.203	6.226	-0.000	-0.000	0.000
	34:CIMX3	3.902	-0.662	-0.741	4.026	-0.000	0.000	0.000
	35:CIMX4	-7.147	-0.679	-3.634	8.046	-0.000	-0.000	0.000
	36:CIMX5	2.116	-0.661	6.535	6.900	0.000	0.000	0.000
	37:CIMX6	-1.213	-0.666	5.663	5.830	0.000	0.000	0.000
	38:CIMX7	-1.072	-0.671	-6.200	6.328	-0.000	0.000	0.000
	39:CIMX8	-4.400	-0.676	-7.072	8.357	-0.001	-0.000	0.000
	40:CIMX9	4.421	-0.874	2.984	5.405	-0.000	0.001	0.000
	41:CIMX10	3.461	-0.877	-0.853	3.670	-0.000	0.000	0.000
	42:CIMX11	-6.627	-0.890	0.091	6.688	-0.000	-0.000	0.000
	43:CIMX12	-7.588	-0.893	-3.746	8.509	-0.000	-0.000	0.000
	44:CIMX13	1.675	-0.876	6.422	6.695	0.000	0.000	0.000
	45:CIMX14	-1.513	-0.886	-6.313	6.551	-0.001	0.000	0.000
	46:CIMX15	-1.654	-0.881	5.551	5.859	-0.000	0.000	0.000
	47:CIMX16	-4.841	-0.891	-7.184	8.709	-0.001	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
212	31:CIM	-1.517	-1.161	0.052	1.911	0.000	0.000	-0.000
	32:CIMX1	4.959	-0.707	4.290	6.595	0.000	0.001	-0.000
	33:CIMX2	-6.170	-1.019	-0.265	6.259	0.000	-0.000	-0.000
	34:CIMX3	3.990	-0.744	0.361	4.075	0.000	0.001	-0.000
	35:CIMX4	-7.139	-1.056	-4.193	8.346	-0.000	-0.000	-0.000
	36:CIMX5	2.194	-0.772	7.254	7.618	0.000	0.000	-0.000
	37:CIMX6	-1.158	-0.866	5.882	6.057	0.000	0.000	-0.000
	38:CIMX7	-1.021	-0.897	-5.785	5.943	-0.000	0.000	-0.000
	39:CIMX8	-4.374	-0.991	-7.157	8.446	-0.000	-0.000	-0.000
	40:CIMX9	4.532	-0.986	4.294	6.320	0.000	0.001	-0.000
	41:CIMX10	3.563	-1.024	0.365	3.725	0.000	0.001	-0.000
	42:CIMX11	-6.597	-1.298	-0.261	6.728	0.000	-0.000	-0.000
	43:CIMX12	-7.566	-1.336	-4.189	8.750	-0.000	-0.000	-0.000
	44:CIMX13	1.767	-1.052	7.258	7.544	0.001	0.000	-0.000
	45:CIMX14	-1.449	-1.176	-5.781	6.075	-0.000	0.000	-0.000
	46:CIMX15	-1.585	-1.146	5.886	6.202	0.000	0.000	-0.000
	47:CIMX16	-4.801	-1.270	-7.153	8.708	-0.000	-0.000	-0.000
213	31:CIM	-1.055	-1.470	-0.394	1.852	-0.000	-0.000	0.001
	32:CIMX1	5.242	-1.027	3.843	6.580	-0.000	0.000	0.001
	33:CIMX2	-5.802	-1.102	-0.807	5.961	-0.000	-0.000	0.000
	34:CIMX3	4.267	-1.075	0.228	4.407	-0.000	0.000	0.001
	35:CIMX4	-6.777	-1.150	-4.422	8.173	-0.000	-0.000	0.000
	36:CIMX5	2.513	-0.998	6.410	6.957	-0.000	0.000	0.001
	37:CIMX6	-0.814	-1.021	5.009	5.177	-0.000	-0.000	0.001
	38:CIMX7	-0.721	-1.157	-5.588	5.752	-0.000	0.000	0.000
	39:CIMX8	-4.048	-1.179	-6.989	8.163	-0.000	-0.000	0.000
	40:CIMX9	4.955	-1.409	3.738	6.364	-0.000	0.000	0.001
	41:CIMX10	3.980	-1.456	0.123	4.240	-0.000	0.000	0.001
	42:CIMX11	-6.089	-1.484	-0.911	6.333	-0.000	-0.000	0.001
	43:CIMX12	-7.064	-1.531	-4.526	8.528	-0.000	-0.001	0.001
	44:CIMX13	2.226	-1.380	6.305	6.828	-0.000	0.000	0.001
	45:CIMX14	-1.008	-1.538	-5.693	5.983	-0.000	0.000	0.001
	46:CIMX15	-1.101	-1.402	4.905	5.219	-0.000	-0.000	0.001
	47:CIMX16	-4.335	-1.561	-7.094	8.459	-0.000	-0.000	0.001
214	31:CIM	-0.000	-2.222	0.000	2.222	-0.001	-0.000	0.000
	32:CIMX1	0.057	-1.590	0.000	1.591	-0.001	0.000	0.001
	33:CIMX2	-0.057	-1.686	-0.000	1.687	-0.001	-0.000	-0.000
	34:CIMX3	0.056	-1.647	0.000	1.648	-0.001	0.000	0.001
	35:CIMX4	-0.058	-1.743	-0.000	1.744	-0.001	-0.000	-0.000
	36:CIMX5	0.018	-1.558	0.000	1.558	-0.001	0.000	0.000
	37:CIMX6	-0.016	-1.587	0.000	1.587	-0.001	-0.000	0.000
	38:CIMX7	0.016	-1.746	-0.000	1.747	-0.001	0.000	0.000
	39:CIMX8	-0.019	-1.775	-0.000	1.775	-0.001	-0.000	-0.000
	40:CIMX9	0.057	-2.146	0.000	2.146	-0.001	0.000	0.001
	41:CIMX10	0.056	-2.203	0.000	2.203	-0.001	0.000	0.001
	42:CIMX11	-0.057	-2.242	-0.000	2.242	-0.001	-0.000	-0.000
	43:CIMX12	-0.058	-2.299	-0.000	2.299	-0.001	-0.000	-0.000
	44:CIMX13	0.018	-2.113	0.000	2.113	-0.001	0.000	0.000
	45:CIMX14	0.015	-2.302	-0.000	2.302	-0.001	0.000	0.000
	46:CIMX15	-0.016	-2.142	0.000	2.142	-0.001	-0.000	0.000
	47:CIMX16	-0.019	-2.331	-0.000	2.331	-0.001	-0.000	0.000
215	31:CIM	-0.000	-2.086	0.000	2.086	-0.001	-0.000	-0.000
	32:CIMX1	0.057	-1.511	0.000	1.512	-0.001	0.000	0.000
	33:CIMX2	-0.057	-1.585	-0.000	1.586	-0.001	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	34:CIMX3	0.056	-1.558	0.000	1.559	-0.001	0.000	0.000
	35:CIMX4	-0.058	-1.632	-0.000	1.633	-0.001	-0.000	-0.001
	36:CIMX5	0.018	-1.483	0.000	1.483	-0.001	0.000	0.000
	37:CIMX6	-0.016	-1.505	0.000	1.505	-0.001	-0.000	-0.000
	38:CIMX7	0.016	-1.638	-0.000	1.638	-0.001	0.000	-0.000
	39:CIMX8	-0.019	-1.660	-0.000	1.660	-0.001	-0.000	-0.000
	40:CIMX9	0.057	-2.026	0.000	2.027	-0.001	0.000	0.000
	41:CIMX10	0.056	-2.073	0.000	2.074	-0.001	0.000	0.000
	42:CIMX11	-0.057	-2.100	-0.000	2.101	-0.001	-0.000	-0.001
	43:CIMX12	-0.058	-2.147	-0.000	2.148	-0.001	-0.000	-0.001
	44:CIMX13	0.018	-1.998	0.000	1.998	-0.001	0.000	-0.000
	45:CIMX14	0.016	-2.153	-0.000	2.153	-0.001	0.000	-0.000
	46:CIMX15	-0.016	-2.020	0.000	2.020	-0.001	-0.000	-0.000
	47:CIMX16	-0.019	-2.175	-0.000	2.175	-0.001	-0.000	-0.000
216	31:CIM	-0.000	-3.267	0.000	3.267	-0.002	-0.000	-0.000
	32:CIMX1	0.059	-1.526	0.000	1.527	-0.001	0.000	0.000
	33:CIMX2	-0.058	-1.989	-0.000	1.990	-0.001	-0.000	-0.001
	34:CIMX3	0.058	-1.924	0.000	1.925	-0.001	0.000	0.000
	35:CIMX4	-0.059	-2.388	-0.000	2.388	-0.001	-0.000	-0.001
	36:CIMX5	0.019	-1.226	0.000	1.226	-0.001	0.000	-0.000
	37:CIMX6	-0.016	-1.365	-0.000	1.365	-0.001	-0.000	-0.000
	38:CIMX7	0.016	-2.548	0.000	2.548	-0.001	0.000	-0.000
	39:CIMX8	-0.019	-2.688	-0.000	2.688	-0.001	-0.000	-0.001
	40:CIMX9	0.058	-2.836	0.000	2.837	-0.002	0.000	0.000
	41:CIMX10	0.058	-3.235	0.000	3.235	-0.002	0.000	0.000
	42:CIMX11	-0.058	-3.300	-0.000	3.300	-0.002	-0.000	-0.001
	43:CIMX12	-0.059	-3.698	-0.000	3.699	-0.002	-0.000	-0.001
	44:CIMX13	0.019	-2.536	0.000	2.537	-0.002	0.000	-0.000
	45:CIMX14	0.016	-3.859	0.000	3.859	-0.002	0.000	-0.000
	46:CIMX15	-0.017	-2.676	-0.000	2.676	-0.002	-0.000	-0.000
	47:CIMX16	-0.019	-3.998	-0.000	3.998	-0.002	-0.000	-0.001
217	31:CIM	-0.000	-2.046	-0.000	2.046	-0.001	-0.000	0.000
	32:CIMX1	0.059	-1.087	0.000	1.089	-0.001	0.000	0.001
	33:CIMX2	-0.058	-1.501	-0.000	1.502	-0.001	-0.000	-0.000
	34:CIMX3	0.058	-1.450	0.000	1.451	-0.001	0.000	0.001
	35:CIMX4	-0.059	-1.864	-0.000	1.865	-0.001	-0.000	-0.000
	36:CIMX5	0.019	-0.811	0.000	0.811	-0.001	0.000	0.001
	37:CIMX6	-0.016	-0.936	0.000	0.936	-0.001	-0.000	0.000
	38:CIMX7	0.016	-2.015	-0.000	2.015	-0.001	0.000	0.000
	39:CIMX8	-0.019	-2.139	-0.000	2.140	-0.001	-0.000	-0.000
	40:CIMX9	0.058	-1.658	0.000	1.659	-0.001	0.000	0.001
	41:CIMX10	0.058	-2.020	0.000	2.021	-0.001	0.000	0.001
	42:CIMX11	-0.058	-2.072	-0.000	2.072	-0.001	-0.000	-0.000
	43:CIMX12	-0.059	-2.434	-0.000	2.435	-0.001	-0.000	-0.000
	44:CIMX13	0.019	-1.382	0.000	1.382	-0.001	0.000	0.001
	45:CIMX14	0.016	-2.585	-0.000	2.585	-0.001	0.000	0.000
	46:CIMX15	-0.017	-1.506	0.000	1.507	-0.001	-0.000	0.000
	47:CIMX16	-0.019	-2.710	-0.000	2.710	-0.001	-0.000	0.000
219	31:CIM	-0.000	-5.677	-0.000	5.677	-0.003	-0.000	0.000
	32:CIMX1	0.060	-2.978	0.000	2.978	-0.002	0.000	0.000
	33:CIMX2	-0.059	-3.305	-0.000	3.306	-0.002	-0.000	-0.000
	34:CIMX3	0.059	-3.452	0.000	3.452	-0.002	0.000	0.000
	35:CIMX4	-0.060	-3.779	-0.000	3.780	-0.002	-0.000	-0.000
	36:CIMX5	0.019	-2.542	0.000	2.542	-0.002	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	37:CIMX6	-0.017	-2.641	-0.000	2.641	-0.002	-0.000	-0.000
	38:CIMX7	0.017	-4.116	0.000	4.116	-0.002	0.000	0.000
	39:CIMX8	-0.019	-4.215	-0.000	4.215	-0.002	-0.000	-0.000
	40:CIMX9	0.060	-5.276	0.000	5.277	-0.003	0.000	0.000
	41:CIMX10	0.059	-5.751	0.000	5.751	-0.003	0.000	0.000
	42:CIMX11	-0.059	-5.604	-0.000	5.604	-0.003	-0.000	-0.000
	43:CIMX12	-0.060	-6.078	-0.000	6.078	-0.003	-0.000	-0.000
	44:CIMX13	0.019	-4.841	0.000	4.841	-0.003	0.000	0.000
	45:CIMX14	0.016	-6.415	0.000	6.415	-0.003	0.000	0.000
	46:CIMX15	-0.017	-4.940	-0.000	4.940	-0.003	-0.000	0.000
	47:CIMX16	-0.019	-6.513	-0.000	6.513	-0.003	-0.000	-0.000
220	31:CIM	-0.000	-4.745	0.000	4.745	-0.002	-0.000	0.000
	32:CIMX1	0.058	-3.281	0.000	3.281	-0.001	0.000	0.000
	33:CIMX2	-0.058	-3.320	-0.000	3.321	-0.001	-0.000	-0.000
	34:CIMX3	0.058	-3.332	0.000	3.333	-0.001	0.000	0.000
	35:CIMX4	-0.059	-3.372	-0.000	3.372	-0.001	-0.000	-0.000
	36:CIMX5	0.019	-3.235	0.000	3.235	-0.001	0.000	0.000
	37:CIMX6	-0.017	-3.247	0.000	3.247	-0.001	-0.000	-0.000
	38:CIMX7	0.016	-3.406	-0.000	3.406	-0.001	0.000	0.000
	39:CIMX8	-0.019	-3.418	-0.000	3.418	-0.002	-0.000	-0.000
	40:CIMX9	0.058	-4.700	0.000	4.700	-0.002	0.000	0.000
	41:CIMX10	0.058	-4.752	0.000	4.752	-0.002	0.000	0.000
	42:CIMX11	-0.058	-4.739	-0.000	4.740	-0.002	-0.000	-0.000
	43:CIMX12	-0.059	-4.791	-0.000	4.791	-0.002	-0.000	-0.000
	44:CIMX13	0.019	-4.654	0.000	4.654	-0.002	0.000	0.000
	45:CIMX14	0.016	-4.825	-0.000	4.825	-0.002	0.000	0.000
	46:CIMX15	-0.017	-4.666	0.000	4.666	-0.002	-0.000	-0.000
	47:CIMX16	-0.019	-4.837	-0.000	4.837	-0.002	-0.000	-0.000
221	31:CIM	0.000	-3.440	0.000	3.440	0.000	-0.000	0.000
	32:CIMX1	0.103	-2.333	0.000	2.335	0.000	0.000	0.001
	33:CIMX2	-0.102	-2.589	-0.000	2.591	0.000	-0.000	-0.000
	34:CIMX3	0.102	-2.539	0.000	2.541	0.000	0.000	0.001
	35:CIMX4	-0.103	-2.795	-0.000	2.797	-0.000	-0.000	-0.000
	36:CIMX5	0.031	-2.184	0.000	2.184	0.000	0.000	0.000
	37:CIMX6	-0.031	-2.261	0.000	2.261	0.000	-0.000	0.000
	38:CIMX7	0.031	-2.867	-0.000	2.867	-0.000	0.000	0.000
	39:CIMX8	-0.031	-2.944	-0.000	2.944	-0.000	-0.000	0.000
	40:CIMX9	0.103	-3.209	0.000	3.211	0.000	0.000	0.001
	41:CIMX10	0.102	-3.415	0.000	3.416	0.000	0.000	0.001
	42:CIMX11	-0.102	-3.465	-0.000	3.467	0.000	-0.000	-0.000
	43:CIMX12	-0.103	-3.671	-0.000	3.672	-0.000	-0.000	-0.000
	44:CIMX13	0.031	-3.060	0.000	3.060	0.000	0.000	0.001
	45:CIMX14	0.031	-3.743	-0.000	3.743	-0.000	0.000	0.000
	46:CIMX15	-0.031	-3.137	0.000	3.137	0.000	-0.000	0.000
	47:CIMX16	-0.031	-3.820	-0.000	3.820	-0.000	-0.000	0.000
222	31:CIM	0.000	-3.330	0.000	3.330	0.000	-0.000	-0.000
	32:CIMX1	0.103	-2.219	0.000	2.221	0.000	0.000	0.000
	33:CIMX2	-0.102	-2.524	-0.000	2.526	0.000	-0.000	-0.001
	34:CIMX3	0.102	-2.450	0.000	2.452	0.000	0.000	0.000
	35:CIMX4	-0.103	-2.755	-0.000	2.757	-0.000	-0.000	-0.001
	36:CIMX5	0.031	-2.057	0.000	2.058	0.000	0.000	-0.000
	37:CIMX6	-0.031	-2.149	0.000	2.149	0.000	-0.000	-0.000
	38:CIMX7	0.031	-2.825	-0.000	2.825	-0.000	0.000	-0.000
	39:CIMX8	-0.031	-2.917	-0.000	2.917	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	40:CIMX9	0.103	-3.062	0.000	3.064	0.000	0.000	0.000
	41:CIMX10	0.102	-3.293	0.000	3.295	0.000	0.000	0.000
	42:CIMX11	-0.102	-3.367	-0.000	3.368	0.000	-0.000	-0.001
	43:CIMX12	-0.103	-3.598	-0.000	3.600	-0.000	-0.000	-0.001
	44:CIMX13	0.031	-2.900	0.000	2.900	0.000	0.000	-0.000
	45:CIMX14	0.031	-3.668	-0.000	3.668	-0.000	0.000	-0.000
	46:CIMX15	-0.031	-2.992	0.000	2.992	0.000	-0.000	-0.000
	47:CIMX16	-0.031	-3.760	-0.000	3.760	-0.000	-0.000	-0.001
223	31:CIM	0.000	-5.850	0.000	5.850	-0.000	-0.000	-0.000
	32:CIMX1	0.102	-3.345	0.000	3.346	0.000	0.000	0.000
	33:CIMX2	-0.102	-3.611	-0.000	3.613	-0.000	-0.000	-0.001
	34:CIMX3	0.102	-3.580	0.000	3.582	-0.000	0.000	0.000
	35:CIMX4	-0.102	-3.846	-0.000	3.848	-0.000	-0.000	-0.001
	36:CIMX5	0.031	-3.165	0.000	3.165	0.000	0.000	-0.000
	37:CIMX6	-0.031	-3.245	-0.000	3.246	0.000	-0.000	-0.000
	38:CIMX7	0.031	-3.946	0.000	3.946	-0.000	0.000	-0.000
	39:CIMX8	-0.031	-4.026	-0.000	4.026	-0.000	-0.000	-0.001
	40:CIMX9	0.102	-5.599	0.000	5.600	0.000	0.000	0.000
	41:CIMX10	0.102	-5.834	0.000	5.835	-0.000	0.000	0.000
	42:CIMX11	-0.102	-5.865	-0.000	5.866	-0.000	-0.000	-0.001
	43:CIMX12	-0.102	-6.101	-0.000	6.101	-0.000	-0.000	-0.001
	44:CIMX13	0.031	-5.420	0.000	5.420	0.000	0.000	-0.000
	45:CIMX14	0.031	-6.200	0.000	6.200	-0.000	0.000	-0.000
	46:CIMX15	-0.031	-5.500	-0.000	5.500	0.000	-0.000	-0.000
	47:CIMX16	-0.031	-6.280	-0.000	6.280	-0.000	-0.000	-0.001
224	31:CIM	0.000	-3.558	-0.000	3.558	-0.000	-0.000	0.000
	32:CIMX1	0.102	-2.429	0.000	2.431	0.000	0.000	0.001
	33:CIMX2	-0.102	-2.642	-0.000	2.644	-0.000	-0.000	-0.000
	34:CIMX3	0.102	-2.633	0.000	2.635	-0.000	0.000	0.001
	35:CIMX4	-0.102	-2.846	-0.000	2.848	-0.000	-0.000	-0.000
	36:CIMX5	0.031	-2.267	0.000	2.268	0.000	0.000	0.000
	37:CIMX6	-0.031	-2.331	0.000	2.332	0.000	-0.000	0.000
	38:CIMX7	0.031	-2.943	-0.000	2.944	-0.000	0.000	0.000
	39:CIMX8	-0.031	-3.008	-0.000	3.008	-0.000	-0.000	-0.000
	40:CIMX9	0.102	-3.350	0.000	3.351	0.000	0.000	0.001
	41:CIMX10	0.102	-3.554	0.000	3.555	-0.000	0.000	0.001
	42:CIMX11	-0.102	-3.563	-0.000	3.564	-0.000	-0.000	-0.000
	43:CIMX12	-0.102	-3.766	-0.000	3.768	-0.000	-0.000	-0.000
	44:CIMX13	0.031	-3.188	0.000	3.188	0.000	0.000	0.001
	45:CIMX14	0.031	-3.864	-0.000	3.864	-0.000	0.000	0.000
	46:CIMX15	-0.031	-3.252	0.000	3.252	0.000	-0.000	0.000
	47:CIMX16	-0.031	-3.928	-0.000	3.928	-0.000	-0.000	-0.000
226	31:CIM	0.000	-10.416	-0.000	10.416	-0.000	-0.000	0.000
	32:CIMX1	0.104	-6.115	0.000	6.116	-0.000	0.000	0.000
	33:CIMX2	-0.104	-6.359	-0.000	6.360	-0.000	-0.000	-0.000
	34:CIMX3	0.104	-6.466	0.000	6.467	-0.000	0.000	0.000
	35:CIMX4	-0.104	-6.710	-0.000	6.711	-0.000	-0.000	-0.000
	36:CIMX5	0.031	-5.793	0.000	5.793	-0.000	0.000	0.000
	37:CIMX6	-0.031	-5.867	-0.000	5.867	-0.000	-0.000	0.000
	38:CIMX7	0.031	-6.959	0.000	6.959	-0.000	0.000	0.000
	39:CIMX8	-0.031	-7.033	-0.000	7.033	-0.000	-0.000	-0.000
	40:CIMX9	0.104	-10.118	0.000	10.119	-0.000	0.000	0.000
	41:CIMX10	0.104	-10.470	0.000	10.470	-0.000	0.000	0.000
	42:CIMX11	-0.104	-10.362	-0.000	10.363	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	43:CIMX12	-0.104	-10.714	-0.000	10.714	-0.000	-0.000	-0.000
	44:CIMX13	0.032	-9.796	0.000	9.796	-0.000	0.000	0.000
	45:CIMX14	0.031	-10.962	0.000	10.962	-0.000	0.000	0.000
	46:CIMX15	-0.031	-9.870	-0.000	9.870	-0.000	-0.000	0.000
	47:CIMX16	-0.031	-11.036	-0.000	11.036	-0.000	-0.000	0.000
227	31:CIM	0.000	-6.986	0.000	6.986	0.000	-0.000	0.000
	32:CIMX1	0.105	-4.568	0.000	4.569	0.000	0.000	0.000
	33:CIMX2	-0.105	-4.813	-0.000	4.814	0.000	-0.000	-0.000
	34:CIMX3	0.105	-4.916	0.000	4.917	0.000	0.000	0.000
	35:CIMX4	-0.105	-5.161	-0.000	5.162	0.000	-0.000	-0.000
	36:CIMX5	0.032	-4.250	0.000	4.250	0.000	0.000	0.000
	37:CIMX6	-0.032	-4.324	0.000	4.324	0.000	-0.000	-0.000
	38:CIMX7	0.032	-5.405	-0.000	5.405	0.000	0.000	0.000
	39:CIMX8	-0.032	-5.478	-0.000	5.479	0.000	-0.000	-0.000
	40:CIMX9	0.105	-6.690	0.000	6.691	0.000	0.000	0.000
	41:CIMX10	0.105	-7.038	0.000	7.038	0.000	0.000	0.000
	42:CIMX11	-0.105	-6.935	-0.000	6.935	0.000	-0.000	-0.000
	43:CIMX12	-0.105	-7.282	-0.000	7.283	0.000	-0.000	-0.000
	44:CIMX13	0.032	-6.372	0.000	6.372	0.000	0.000	0.000
	45:CIMX14	0.032	-7.527	-0.000	7.527	0.000	0.000	0.000
	46:CIMX15	-0.032	-6.446	0.000	6.446	0.000	-0.000	-0.000
	47:CIMX16	-0.032	-7.600	-0.000	7.600	0.000	-0.000	-0.000
228	31:CIM	0.000	-1.911	0.000	1.911	0.001	-0.000	0.000
	32:CIMX1	0.059	-0.973	0.000	0.975	0.001	0.000	0.001
	33:CIMX2	-0.057	-1.445	-0.000	1.447	0.001	-0.000	-0.000
	34:CIMX3	0.058	-1.338	0.000	1.340	0.001	0.000	0.001
	35:CIMX4	-0.058	-1.811	-0.000	1.812	0.001	-0.000	-0.000
	36:CIMX5	0.019	-0.714	0.000	0.714	0.001	0.000	0.000
	37:CIMX6	-0.016	-0.857	0.000	0.857	0.001	-0.000	0.000
	38:CIMX7	0.017	-1.927	-0.000	1.927	0.001	0.000	0.000
	39:CIMX8	-0.018	-2.070	-0.000	2.070	0.001	-0.000	0.000
	40:CIMX9	0.059	-1.492	0.000	1.494	0.001	0.000	0.001
	41:CIMX10	0.058	-1.858	0.000	1.859	0.001	0.000	0.001
	42:CIMX11	-0.057	-1.965	-0.000	1.966	0.001	-0.000	-0.000
	43:CIMX12	-0.058	-2.330	-0.000	2.331	0.001	-0.000	-0.000
	44:CIMX13	0.019	-1.234	0.000	1.234	0.001	0.000	0.001
	45:CIMX14	0.017	-2.447	-0.000	2.447	0.001	0.000	0.000
	46:CIMX15	-0.016	-1.376	0.000	1.376	0.001	-0.000	0.000
	47:CIMX16	-0.018	-2.589	-0.000	2.589	0.001	-0.000	0.000
229	31:CIM	0.000	-1.882	0.000	1.882	0.001	-0.000	-0.000
	32:CIMX1	0.059	-0.914	0.000	0.915	0.001	0.000	0.000
	33:CIMX2	-0.057	-1.437	-0.000	1.438	0.001	-0.000	-0.001
	34:CIMX3	0.058	-1.307	0.000	1.309	0.001	0.000	0.000
	35:CIMX4	-0.058	-1.831	-0.000	1.832	0.001	-0.000	-0.001
	36:CIMX5	0.019	-0.640	0.000	0.640	0.001	0.000	-0.000
	37:CIMX6	-0.016	-0.797	0.000	0.798	0.001	-0.000	-0.000
	38:CIMX7	0.017	-1.947	-0.000	1.947	0.001	0.000	-0.000
	39:CIMX8	-0.018	-2.104	-0.000	2.104	0.001	-0.000	-0.000
	40:CIMX9	0.059	-1.424	0.000	1.425	0.001	0.000	0.000
	41:CIMX10	0.058	-1.818	0.000	1.819	0.001	0.000	0.000
	42:CIMX11	-0.057	-1.947	-0.000	1.948	0.001	-0.000	-0.001
	43:CIMX12	-0.058	-2.341	-0.000	2.342	0.001	-0.000	-0.001
	44:CIMX13	0.019	-1.150	0.000	1.150	0.001	0.000	-0.000
	45:CIMX14	0.017	-2.457	-0.000	2.457	0.001	0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	46:CIMX15	-0.016	-1.308	0.000	1.308	0.001	-0.000	-0.000
	47:CIMX16	-0.018	-2.615	-0.000	2.615	0.001	-0.000	-0.001
230	31:CIM	0.000	-3.568	0.000	3.568	0.002	-0.000	-0.000
	32:CIMX1	0.055	-2.189	0.000	2.189	0.001	0.000	0.000
	33:CIMX2	-0.054	-2.255	-0.000	2.255	0.001	-0.000	-0.001
	34:CIMX3	0.055	-2.234	0.000	2.235	0.001	0.000	0.000
	35:CIMX4	-0.055	-2.301	-0.000	2.301	0.001	-0.000	-0.001
	36:CIMX5	0.018	-2.159	0.000	2.159	0.001	0.000	-0.000
	37:CIMX6	-0.015	-2.179	-0.000	2.179	0.001	-0.000	-0.000
	38:CIMX7	0.015	-2.310	0.000	2.310	0.001	0.000	-0.000
	39:CIMX8	-0.018	-2.330	-0.000	2.330	0.001	-0.000	-0.000
	40:CIMX9	0.056	-3.512	0.000	3.513	0.002	0.000	0.000
	41:CIMX10	0.055	-3.558	0.000	3.558	0.002	0.000	-0.000
	42:CIMX11	-0.054	-3.578	-0.000	3.579	0.002	-0.000	-0.001
	43:CIMX12	-0.055	-3.624	-0.000	3.625	0.002	-0.000	-0.001
	44:CIMX13	0.018	-3.482	0.000	3.482	0.002	0.000	-0.000
	45:CIMX14	0.016	-3.634	0.000	3.634	0.002	0.000	-0.000
	46:CIMX15	-0.015	-3.502	-0.000	3.502	0.002	-0.000	-0.000
	47:CIMX16	-0.018	-3.654	-0.000	3.654	0.001	-0.000	-0.001
231	31:CIM	0.000	-2.265	-0.000	2.265	0.001	-0.000	0.000
	32:CIMX1	0.056	-1.608	0.000	1.609	0.001	0.000	0.001
	33:CIMX2	-0.055	-1.723	-0.000	1.723	0.001	-0.000	-0.000
	34:CIMX3	0.056	-1.665	0.000	1.666	0.001	0.000	0.001
	35:CIMX4	-0.056	-1.780	-0.000	1.781	0.001	-0.000	-0.000
	36:CIMX5	0.018	-1.581	0.000	1.582	0.001	0.000	0.000
	37:CIMX6	-0.015	-1.616	0.000	1.616	0.001	-0.000	0.000
	38:CIMX7	0.016	-1.771	-0.000	1.771	0.001	0.000	0.000
	39:CIMX8	-0.018	-1.806	-0.000	1.806	0.001	-0.000	-0.000
	40:CIMX9	0.056	-2.179	0.000	2.180	0.001	0.000	0.001
	41:CIMX10	0.056	-2.236	0.000	2.237	0.001	0.000	0.001
	42:CIMX11	-0.055	-2.294	-0.000	2.295	0.001	-0.000	-0.000
	43:CIMX12	-0.056	-2.351	-0.000	2.352	0.001	-0.000	-0.000
	44:CIMX13	0.018	-2.153	0.000	2.153	0.001	0.000	0.000
	45:CIMX14	0.016	-2.343	-0.000	2.343	0.001	0.000	0.000
	46:CIMX15	-0.015	-2.187	0.000	2.187	0.001	-0.000	0.000
	47:CIMX16	-0.018	-2.377	-0.000	2.377	0.001	-0.000	-0.000
233	31:CIM	0.000	-6.710	-0.000	6.710	0.003	-0.000	0.000
	32:CIMX1	0.057	-4.155	0.000	4.156	0.002	0.000	0.000
	33:CIMX2	-0.056	-4.237	-0.000	4.238	0.002	-0.000	0.000
	34:CIMX3	0.056	-4.208	0.000	4.208	0.002	0.000	0.000
	35:CIMX4	-0.056	-4.290	-0.000	4.291	0.002	-0.000	0.000
	36:CIMX5	0.018	-4.122	0.000	4.122	0.002	0.000	0.000
	37:CIMX6	-0.016	-4.147	-0.000	4.147	0.002	-0.000	0.000
	38:CIMX7	0.016	-4.298	0.000	4.298	0.002	0.000	0.000
	39:CIMX8	-0.018	-4.323	-0.000	4.323	0.002	-0.000	0.000
	40:CIMX9	0.057	-6.643	0.000	6.643	0.003	0.000	0.000
	41:CIMX10	0.056	-6.696	0.000	6.696	0.003	0.000	0.000
	42:CIMX11	-0.056	-6.725	-0.000	6.725	0.003	-0.000	0.000
	43:CIMX12	-0.056	-6.778	-0.000	6.778	0.003	-0.000	0.000
	44:CIMX13	0.019	-6.610	0.000	6.610	0.003	0.000	0.000
	45:CIMX14	0.016	-6.786	0.000	6.786	0.003	0.000	0.000
	46:CIMX15	-0.015	-6.635	-0.000	6.635	0.003	-0.000	0.000
	47:CIMX16	-0.018	-6.811	-0.000	6.811	0.003	-0.000	0.000
234	31:CIM	0.000	-3.678	0.000	3.678	0.002	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	32:CIMX1	0.060	-2.075	0.000	2.076	0.001	0.000	0.000
	33:CIMX2	-0.059	-2.404	-0.000	2.405	0.001	-0.000	-0.000
	34:CIMX3	0.059	-2.545	0.000	2.546	0.001	0.000	0.000
	35:CIMX4	-0.059	-2.874	-0.000	2.875	0.001	-0.000	-0.000
	36:CIMX5	0.019	-1.645	0.000	1.645	0.002	0.000	0.000
	37:CIMX6	-0.016	-1.744	0.000	1.744	0.002	-0.000	-0.000
	38:CIMX7	0.017	-3.206	-0.000	3.206	0.001	0.000	0.000
	39:CIMX8	-0.019	-3.305	-0.000	3.305	0.001	-0.000	-0.000
	40:CIMX9	0.060	-3.278	0.000	3.279	0.002	0.000	0.000
	41:CIMX10	0.059	-3.749	0.000	3.749	0.002	0.000	0.000
	42:CIMX11	-0.059	-3.608	-0.000	3.608	0.002	-0.000	-0.000
	43:CIMX12	-0.059	-4.078	-0.000	4.078	0.002	-0.000	-0.000
	44:CIMX13	0.019	-2.848	0.000	2.848	0.002	0.000	0.000
	45:CIMX14	0.017	-4.409	-0.000	4.409	0.002	0.000	0.000
	46:CIMX15	-0.016	-2.947	0.000	2.947	0.002	-0.000	-0.000
	47:CIMX16	-0.019	-4.508	-0.000	4.508	0.002	-0.000	-0.000
235	31:CIM	0.000	0.196	0.000	0.196	-0.000	-0.000	-0.000
	32:CIMX1	0.001	0.124	0.000	0.124	0.000	0.000	0.000
	33:CIMX2	-0.001	0.115	-0.000	0.115	-0.000	-0.000	-0.001
	34:CIMX3	0.001	0.123	0.000	0.123	-0.000	0.000	0.000
	35:CIMX4	-0.001	0.114	-0.000	0.114	-0.000	-0.000	-0.001
	36:CIMX5	0.000	0.121	0.000	0.121	0.000	0.000	0.000
	37:CIMX6	-0.000	0.119	0.000	0.119	0.000	-0.000	-0.000
	38:CIMX7	0.000	0.119	-0.000	0.119	-0.000	0.000	-0.000
	39:CIMX8	-0.000	0.117	-0.000	0.117	-0.000	-0.000	-0.000
	40:CIMX9	0.001	0.200	0.000	0.200	-0.000	0.000	0.000
	41:CIMX10	0.001	0.200	0.000	0.200	-0.000	0.000	0.000
	42:CIMX11	-0.001	0.192	-0.000	0.192	-0.000	-0.000	-0.001
	43:CIMX12	-0.001	0.191	-0.000	0.191	-0.000	-0.000	-0.001
	44:CIMX13	0.000	0.198	0.000	0.198	0.000	0.000	-0.000
	45:CIMX14	0.000	0.196	-0.000	0.196	-0.000	0.000	-0.000
	46:CIMX15	-0.000	0.195	0.000	0.195	0.000	-0.000	-0.000
	47:CIMX16	-0.000	0.193	-0.000	0.193	-0.000	-0.000	-0.000
236	31:CIM	0.000	0.278	0.000	0.278	0.000	-0.000	0.000
	32:CIMX1	0.001	0.203	0.000	0.203	0.000	0.000	0.001
	33:CIMX2	-0.001	0.196	-0.000	0.196	-0.000	-0.000	-0.000
	34:CIMX3	0.001	0.203	0.000	0.203	0.000	0.000	0.001
	35:CIMX4	-0.001	0.196	-0.000	0.196	-0.000	-0.000	-0.000
	36:CIMX5	0.000	0.201	0.000	0.201	0.000	0.000	0.000
	37:CIMX6	-0.000	0.199	0.000	0.199	0.000	-0.000	0.000
	38:CIMX7	0.000	0.200	-0.000	0.200	-0.000	0.000	0.000
	39:CIMX8	-0.000	0.198	-0.000	0.198	-0.000	-0.000	-0.000
	40:CIMX9	0.001	0.282	0.000	0.282	0.000	0.000	0.001
	41:CIMX10	0.001	0.282	0.000	0.282	0.000	0.000	0.001
	42:CIMX11	-0.001	0.275	-0.000	0.275	-0.000	-0.000	-0.000
	43:CIMX12	-0.001	0.275	-0.000	0.275	-0.000	-0.000	-0.000
	44:CIMX13	0.000	0.280	0.000	0.280	0.000	0.000	0.000
	45:CIMX14	0.000	0.279	-0.000	0.279	-0.000	0.000	0.000
	46:CIMX15	-0.000	0.278	0.000	0.278	0.000	-0.000	0.000
	47:CIMX16	-0.000	0.277	-0.000	0.277	-0.000	-0.000	-0.000
237	31:CIM	0.000	1.225	0.000	1.225	-0.000	-0.000	0.000
	32:CIMX1	0.001	0.785	0.000	0.785	-0.000	0.000	0.000
	33:CIMX2	-0.001	0.760	-0.000	0.760	-0.000	-0.000	-0.000
	34:CIMX3	0.001	0.784	0.000	0.784	-0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	35:CIMX4	-0.001	0.759	-0.000	0.759	-0.000	-0.000	-0.000
	36:CIMX5	0.000	0.778	0.000	0.778	0.000	0.000	0.000
	37:CIMX6	-0.000	0.770	0.000	0.770	0.000	-0.000	0.000
	38:CIMX7	0.000	0.774	-0.000	0.774	-0.000	0.000	0.000
	39:CIMX8	-0.000	0.767	-0.000	0.767	-0.000	-0.000	-0.000
	40:CIMX9	0.001	1.238	0.000	1.238	-0.000	0.000	0.000
	41:CIMX10	0.001	1.237	0.000	1.237	-0.000	0.000	0.000
	42:CIMX11	-0.001	1.213	-0.000	1.213	-0.000	-0.000	-0.000
	43:CIMX12	-0.001	1.212	-0.000	1.212	-0.000	-0.000	-0.000
	44:CIMX13	0.000	1.231	0.000	1.231	-0.000	0.000	0.000
	45:CIMX14	0.000	1.227	-0.000	1.227	-0.000	0.000	0.000
	46:CIMX15	-0.000	1.223	0.000	1.223	-0.000	-0.000	0.000
	47:CIMX16	-0.000	1.219	-0.000	1.219	-0.000	-0.000	-0.000
238	31:CIM	-0.022	-2.794	-0.095	2.795	-0.001	0.000	0.000
	32:CIMX1	3.059	-1.654	2.094	4.059	-0.001	0.000	0.001
	33:CIMX2	-2.751	-2.238	-0.445	3.574	-0.001	-0.000	-0.001
	34:CIMX3	2.709	-2.006	0.326	3.386	-0.001	0.000	0.001
	35:CIMX4	-3.101	-2.589	-2.212	4.606	-0.001	-0.000	-0.001
	36:CIMX5	1.435	-1.450	3.256	3.842	-0.001	0.000	0.000
	37:CIMX6	-0.315	-1.626	2.491	2.991	-0.001	-0.000	-0.000
	38:CIMX7	0.273	-2.617	-2.610	3.706	-0.001	0.000	0.000
	39:CIMX8	-1.477	-2.793	-3.375	4.623	-0.001	-0.000	-0.000
	40:CIMX9	3.058	-2.326	2.058	4.358	-0.001	0.000	0.001
	41:CIMX10	2.708	-2.678	0.291	3.819	-0.001	0.000	0.001
	42:CIMX11	-2.751	-2.910	-0.481	4.033	-0.001	-0.000	-0.000
	43:CIMX12	-3.102	-3.261	-2.248	5.031	-0.001	-0.000	-0.001
	44:CIMX13	1.435	-2.122	3.220	4.115	-0.001	0.000	0.000
	45:CIMX14	0.272	-3.289	-2.646	4.230	-0.001	0.000	0.000
	46:CIMX15	-0.316	-2.298	2.455	3.378	-0.001	0.000	0.000
	47:CIMX16	-1.478	-3.465	-3.410	5.082	-0.001	-0.000	-0.000
239	31:CIM	-0.022	-3.052	0.041	3.052	-0.001	0.000	-0.000
	32:CIMX1	3.059	-1.695	2.317	4.194	-0.001	0.000	0.001
	33:CIMX2	-2.750	-2.443	-0.374	3.697	-0.001	-0.000	-0.001
	34:CIMX3	2.709	-2.146	0.444	3.484	-0.001	0.000	0.001
	35:CIMX4	-3.100	-2.895	-2.247	4.799	-0.001	-0.000	-0.001
	36:CIMX5	1.435	-1.432	3.548	4.087	-0.001	0.000	0.000
	37:CIMX6	-0.315	-1.658	2.737	3.216	-0.001	-0.000	-0.000
	38:CIMX7	0.274	-2.931	-2.667	3.973	-0.001	0.000	-0.000
	39:CIMX8	-1.476	-3.157	-3.478	4.923	-0.001	-0.000	-0.000
	40:CIMX9	3.057	-2.452	2.322	4.555	-0.001	0.000	0.001
	41:CIMX10	2.708	-2.903	0.450	3.995	-0.001	0.000	0.000
	42:CIMX11	-2.751	-3.200	-0.368	4.236	-0.001	-0.000	-0.001
	43:CIMX12	-3.101	-3.652	-2.241	5.289	-0.001	-0.000	-0.001
	44:CIMX13	1.434	-2.190	3.554	4.413	-0.001	0.000	0.000
	45:CIMX14	0.272	-3.688	-2.662	4.557	-0.001	0.000	-0.000
	46:CIMX15	-0.316	-2.415	2.743	3.668	-0.001	0.000	-0.000
	47:CIMX16	-1.478	-3.914	-3.472	5.437	-0.001	-0.000	-0.000
240	31:CIM	0.090	-3.507	0.020	3.508	-0.002	0.000	-0.000
	32:CIMX1	4.857	-2.083	2.289	5.759	-0.001	0.000	0.001
	33:CIMX2	-4.358	-2.700	-0.349	5.138	-0.001	-0.000	-0.001
	34:CIMX3	4.463	-2.449	0.410	5.108	-0.001	0.000	0.001
	35:CIMX4	-4.751	-3.066	-2.228	6.078	-0.001	-0.000	-0.001
	36:CIMX5	2.095	-1.874	3.546	4.525	-0.001	0.000	0.000
	37:CIMX6	-0.682	-2.060	2.751	3.504	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	38:CIMX7	0.787	-3.089	-2.691	4.172	-0.001	0.000	-0.000
	39:CIMX8	-1.989	-3.275	-3.485	5.180	-0.001	-0.000	-0.001
	40:CIMX9	4.894	-3.016	2.278	6.183	-0.002	0.000	0.001
	41:CIMX10	4.500	-3.382	0.399	5.643	-0.002	0.000	0.001
	42:CIMX11	-4.321	-3.632	-0.360	5.656	-0.002	-0.000	-0.001
	43:CIMX12	-4.714	-3.998	-2.239	6.575	-0.002	-0.000	-0.001
	44:CIMX13	2.132	-2.806	3.535	4.992	-0.002	0.000	0.000
	45:CIMX14	0.824	-4.022	-2.701	4.914	-0.002	0.000	-0.000
	46:CIMX15	-0.645	-2.992	2.740	4.108	-0.002	-0.000	-0.000
	47:CIMX16	-1.952	-4.208	-3.496	5.808	-0.002	-0.000	-0.001
241	31:CIM	0.090	-2.746	-0.059	2.748	-0.001	0.000	0.000
	32:CIMX1	4.855	-1.599	2.096	5.524	-0.001	0.000	0.001
	33:CIMX2	-4.355	-2.197	-0.378	4.892	-0.001	-0.000	-0.001
	34:CIMX3	4.461	-1.983	0.331	4.893	-0.001	0.000	0.001
	35:CIMX4	-4.748	-2.581	-2.143	5.814	-0.001	-0.000	-0.001
	36:CIMX5	2.094	-1.363	3.278	4.121	-0.001	0.000	0.000
	37:CIMX6	-0.681	-1.543	2.533	3.043	-0.001	-0.000	-0.000
	38:CIMX7	0.787	-2.637	-2.580	3.772	-0.001	0.000	0.000
	39:CIMX8	-1.987	-2.817	-3.325	4.790	-0.001	-0.000	-0.000
	40:CIMX9	4.892	-2.255	2.061	5.767	-0.001	0.000	0.001
	41:CIMX10	4.498	-2.639	0.296	5.223	-0.001	0.000	0.001
	42:CIMX11	-4.318	-2.853	-0.413	5.192	-0.001	-0.000	-0.001
	43:CIMX12	-4.711	-3.237	-2.178	6.117	-0.001	-0.000	-0.001
	44:CIMX13	2.131	-2.019	3.243	4.374	-0.001	0.000	0.000
	45:CIMX14	0.824	-3.293	-2.615	4.285	-0.001	0.000	0.000
	46:CIMX15	-0.644	-2.199	2.497	3.389	-0.001	-0.000	-0.000
	47:CIMX16	-1.951	-3.473	-3.361	5.212	-0.001	-0.000	-0.000
242	31:CIM	0.090	-5.749	-0.031	5.750	-0.003	0.000	0.000
	32:CIMX1	4.856	-3.919	1.541	6.427	-0.002	0.000	0.001
	33:CIMX2	-4.356	-4.204	0.268	6.060	-0.002	-0.000	-0.000
	34:CIMX3	4.462	-4.327	-0.276	6.222	-0.002	0.000	0.001
	35:CIMX4	-4.750	-4.613	-1.549	6.800	-0.002	-0.000	-0.000
	36:CIMX5	2.094	-3.545	3.203	5.217	-0.002	0.000	0.000
	37:CIMX6	-0.681	-3.631	2.820	4.647	-0.002	-0.000	0.000
	38:CIMX7	0.787	-4.900	-2.827	5.712	-0.002	0.000	0.000
	39:CIMX8	-1.988	-4.986	-3.211	6.255	-0.002	-0.000	-0.000
	40:CIMX9	4.893	-5.402	1.514	7.444	-0.003	0.000	0.001
	41:CIMX10	4.499	-5.810	-0.303	7.355	-0.003	0.000	0.001
	42:CIMX11	-4.319	-5.687	0.241	7.146	-0.003	-0.000	-0.000
	43:CIMX12	-4.713	-6.096	-1.576	7.865	-0.003	-0.000	-0.000
	44:CIMX13	2.131	-5.028	3.176	6.318	-0.003	0.000	0.000
	45:CIMX14	0.824	-6.384	-2.854	7.041	-0.003	0.000	0.000
	46:CIMX15	-0.644	-5.114	2.793	5.863	-0.003	-0.000	0.000
	47:CIMX16	-1.951	-6.470	-3.238	7.493	-0.003	-0.000	0.000
243	31:CIM	-0.022	-5.779	-0.024	5.779	-0.002	0.000	0.000
	32:CIMX1	3.060	-4.230	1.536	5.442	-0.002	0.000	0.000
	33:CIMX2	-2.751	-4.304	0.265	5.115	-0.002	-0.000	-0.000
	34:CIMX3	2.710	-4.305	-0.283	5.094	-0.002	0.000	0.000
	35:CIMX4	-3.101	-4.379	-1.554	5.586	-0.002	-0.000	-0.000
	36:CIMX5	1.436	-4.170	3.200	5.449	-0.001	0.000	0.000
	37:CIMX6	-0.315	-4.192	2.818	5.061	-0.002	-0.000	-0.000
	38:CIMX7	0.273	-4.417	-2.835	5.256	-0.002	0.000	0.000
	39:CIMX8	-1.477	-4.440	-3.218	5.679	-0.002	-0.000	-0.000
	40:CIMX9	3.059	-5.704	1.521	6.649	-0.002	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	41:CIMX10	2.708	-5.779	-0.298	6.389	-0.002	0.000	0.000
	42:CIMX11	-2.752	-5.778	0.250	6.405	-0.002	-0.000	-0.000
	43:CIMX12	-3.102	-5.853	-1.568	6.808	-0.002	-0.000	-0.000
	44:CIMX13	1.435	-5.644	3.186	6.638	-0.002	0.000	0.000
	45:CIMX14	0.272	-5.891	-2.850	6.550	-0.002	0.000	0.000
	46:CIMX15	-0.316	-5.666	2.803	6.329	-0.002	0.000	-0.000
	47:CIMX16	-1.478	-5.914	-3.233	6.900	-0.002	-0.000	-0.000
244	31:CIM	-0.059	-4.406	-0.095	4.408	0.000	0.000	0.000
	32:CIMX1	3.066	-3.313	2.096	4.977	0.000	0.000	0.001
	33:CIMX2	-2.774	-3.349	-0.448	4.372	-0.000	-0.000	-0.000
	34:CIMX3	2.681	-3.340	0.327	4.295	0.000	0.000	0.001
	35:CIMX4	-3.160	-3.376	-2.217	5.129	-0.000	-0.000	-0.001
	36:CIMX5	1.473	-3.294	3.259	4.863	0.000	0.000	0.000
	37:CIMX6	-0.286	-3.305	2.493	4.150	0.000	-0.000	0.000
	38:CIMX7	0.193	-3.384	-2.614	4.280	-0.000	0.000	0.000
	39:CIMX8	-1.567	-3.395	-3.380	5.041	-0.000	-0.000	-0.000
	40:CIMX9	3.055	-4.374	2.061	5.720	0.000	0.000	0.001
	41:CIMX10	2.669	-4.402	0.292	5.156	0.000	0.000	0.001
	42:CIMX11	-2.786	-4.411	-0.483	5.239	-0.000	-0.000	-0.000
	43:CIMX12	-3.172	-4.438	-2.252	5.902	-0.000	-0.000	-0.000
	44:CIMX13	1.461	-4.356	3.224	5.613	0.000	0.000	0.000
	45:CIMX14	0.181	-4.446	-2.649	5.178	-0.000	0.000	0.000
	46:CIMX15	-0.298	-4.367	2.458	5.020	0.000	-0.000	0.000
	47:CIMX16	-1.579	-4.457	-3.415	5.832	-0.000	-0.000	-0.000
245	31:CIM	-0.058	-4.626	0.043	4.626	0.000	0.000	-0.000
	32:CIMX1	3.066	-3.404	2.321	5.136	0.000	0.000	0.001
	33:CIMX2	-2.774	-3.522	-0.376	4.499	-0.000	-0.000	-0.001
	34:CIMX3	2.681	-3.467	0.448	4.405	0.000	0.000	0.000
	35:CIMX4	-3.160	-3.585	-2.249	5.282	-0.000	-0.000	-0.001
	36:CIMX5	1.473	-3.373	3.551	5.115	0.000	0.000	0.000
	37:CIMX6	-0.286	-3.409	2.738	4.382	0.000	-0.000	-0.000
	38:CIMX7	0.193	-3.580	-2.667	4.468	-0.000	0.000	0.000
	39:CIMX8	-1.567	-3.616	-3.479	5.257	-0.000	-0.000	-0.000
	40:CIMX9	3.055	-4.536	2.329	5.944	0.000	0.000	0.001
	41:CIMX10	2.669	-4.598	0.455	5.336	0.000	0.000	0.000
	42:CIMX11	-2.786	-4.654	-0.369	5.436	-0.000	-0.000	-0.001
	43:CIMX12	-3.172	-4.716	-2.242	6.109	-0.000	-0.000	-0.001
	44:CIMX13	1.462	-4.505	3.558	5.924	0.000	0.000	0.000
	45:CIMX14	0.181	-4.711	-2.659	5.413	-0.000	0.000	-0.000
	46:CIMX15	-0.298	-4.540	2.746	5.314	0.000	-0.000	-0.000
	47:CIMX16	-1.579	-4.747	-3.472	6.089	-0.000	-0.000	-0.000
246	31:CIM	0.084	-6.092	0.026	6.092	-0.000	0.000	-0.000
	32:CIMX1	4.629	-4.339	2.293	6.746	0.000	0.000	0.000
	33:CIMX2	-4.151	-4.429	-0.349	6.080	-0.000	-0.000	-0.001
	34:CIMX3	4.250	-4.390	0.415	6.124	-0.000	0.000	0.000
	35:CIMX4	-4.530	-4.479	-2.227	6.749	-0.000	-0.000	-0.001
	36:CIMX5	2.002	-4.312	3.547	5.931	0.000	0.000	0.000
	37:CIMX6	-0.644	-4.339	2.751	5.178	0.000	-0.000	-0.000
	38:CIMX7	0.742	-4.480	-2.686	5.276	-0.000	0.000	-0.000
	39:CIMX8	-1.903	-4.507	-3.482	6.005	-0.000	-0.000	-0.001
	40:CIMX9	4.663	-6.022	2.286	7.952	0.000	0.000	0.000
	41:CIMX10	4.284	-6.072	0.408	7.442	-0.000	0.000	0.000
	42:CIMX11	-4.116	-6.111	-0.356	7.377	-0.000	-0.000	-0.001
	43:CIMX12	-4.496	-6.162	-2.234	7.948	-0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	44:CIMX13	2.036	-5.994	3.541	7.253	0.000	0.000	-0.000
	45:CIMX14	0.777	-6.162	-2.693	6.770	-0.000	0.000	-0.000
	46:CIMX15	-0.609	-6.021	2.745	6.645	0.000	-0.000	-0.001
	47:CIMX16	-1.868	-6.189	-3.489	7.346	-0.000	-0.000	-0.001
247	31:CIM	0.083	-4.405	-0.059	4.406	-0.000	0.000	0.000
	32:CIMX1	4.633	-3.308	2.095	6.066	0.000	0.000	0.001
	33:CIMX2	-4.155	-3.367	-0.380	5.362	-0.000	-0.000	-0.001
	34:CIMX3	4.253	-3.330	0.331	5.412	0.000	0.000	0.001
	35:CIMX4	-4.534	-3.389	-2.145	6.054	-0.000	-0.000	-0.001
	36:CIMX5	2.002	-3.303	3.276	5.065	0.000	0.000	0.000
	37:CIMX6	-0.645	-3.321	2.530	4.224	0.000	-0.000	-0.000
	38:CIMX7	0.743	-3.376	-2.579	4.313	-0.000	0.000	0.000
	39:CIMX8	-1.904	-3.394	-3.325	5.119	-0.000	-0.000	-0.000
	40:CIMX9	4.667	-4.364	2.061	6.714	0.000	0.000	0.001
	41:CIMX10	4.287	-4.387	0.297	6.141	0.000	0.000	0.001
	42:CIMX11	-4.121	-4.424	-0.415	6.060	-0.000	-0.000	-0.001
	43:CIMX12	-4.501	-4.446	-2.179	6.691	-0.000	-0.000	-0.001
	44:CIMX13	2.036	-4.359	3.242	5.802	0.000	0.000	0.000
	45:CIMX14	0.777	-4.433	-2.613	5.204	-0.000	0.000	0.000
	46:CIMX15	-0.611	-4.377	2.496	5.076	0.000	-0.000	-0.000
	47:CIMX16	-1.870	-4.451	-3.359	5.882	-0.000	-0.000	-0.000
248	31:CIM	0.083	-9.775	-0.026	9.775	-0.000	0.000	0.000
	32:CIMX1	4.633	-6.998	1.544	8.533	-0.000	0.000	0.001
	33:CIMX2	-4.155	-7.198	0.270	8.316	-0.000	-0.000	-0.000
	34:CIMX3	4.253	-7.208	-0.275	8.374	-0.000	0.000	0.000
	35:CIMX4	-4.534	-7.408	-1.548	8.822	-0.000	-0.000	-0.000
	36:CIMX5	2.003	-6.825	3.207	7.802	0.000	0.000	0.000
	37:CIMX6	-0.645	-6.885	2.823	7.470	0.000	-0.000	0.000
	38:CIMX7	0.743	-7.521	-2.828	8.070	-0.000	0.000	0.000
	39:CIMX8	-1.904	-7.581	-3.212	8.451	-0.000	-0.000	0.000
	40:CIMX9	4.667	-9.570	1.520	10.755	-0.000	0.000	0.001
	41:CIMX10	4.287	-9.780	-0.298	10.683	-0.000	0.000	0.001
	42:CIMX11	-4.121	-9.770	0.247	10.606	-0.000	-0.000	0.000
	43:CIMX12	-4.500	-9.980	-1.572	11.060	-0.000	-0.000	0.000
	44:CIMX13	2.037	-9.397	3.184	10.128	0.000	0.000	0.000
	45:CIMX14	0.777	-10.093	-2.852	10.517	-0.000	0.000	0.000
	46:CIMX15	-0.611	-9.457	2.800	9.882	0.000	-0.000	0.000
	47:CIMX16	-1.870	-10.153	-3.235	10.819	-0.000	-0.000	0.000
249	31:CIM	-0.059	-8.620	-0.022	8.620	0.000	0.000	0.000
	32:CIMX1	3.067	-6.219	1.536	7.102	0.000	0.000	0.000
	33:CIMX2	-2.775	-6.386	0.265	6.968	0.000	-0.000	-0.000
	34:CIMX3	2.681	-6.459	-0.283	6.999	0.000	0.000	0.000
	35:CIMX4	-3.161	-6.627	-1.553	7.504	0.000	-0.000	-0.000
	36:CIMX5	1.474	-5.999	3.200	6.957	0.000	0.000	0.000
	37:CIMX6	-0.286	-6.050	2.818	6.680	0.000	-0.000	0.000
	38:CIMX7	0.193	-6.796	-2.835	7.366	-0.000	0.000	0.000
	39:CIMX8	-1.567	-6.846	-3.218	7.726	-0.000	-0.000	-0.000
	40:CIMX9	3.055	-8.416	1.523	9.082	0.000	0.000	0.000
	41:CIMX10	2.669	-8.657	-0.296	9.064	0.000	0.000	0.000
	42:CIMX11	-2.787	-8.584	0.252	9.028	0.000	-0.000	-0.000
	43:CIMX12	-3.173	-8.824	-1.566	9.507	0.000	-0.000	-0.000
	44:CIMX13	1.462	-8.197	3.187	8.915	0.000	0.000	0.000
	45:CIMX14	0.181	-8.993	-2.848	9.435	-0.000	0.000	0.000
	46:CIMX15	-0.298	-8.247	2.805	8.716	0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
250	47:CIMX16	-1.579	-9.044	-3.231	9.733	-0.000	-0.000	-0.000
	31:CIM	-0.096	-2.727	-0.096	2.731	0.001	0.000	0.000
	32:CIMX1	2.888	-1.591	2.097	3.908	0.001	0.000	0.001
	33:CIMX2	-2.644	-2.168	-0.450	3.448	0.001	-0.000	-0.000
	34:CIMX3	2.497	-1.980	0.327	3.203	0.001	0.000	0.001
	35:CIMX4	-3.034	-2.556	-2.221	4.547	0.001	-0.000	-0.000
	36:CIMX5	1.409	-1.343	3.261	3.797	0.001	0.000	0.000
	37:CIMX6	-0.258	-1.516	2.493	2.930	0.001	-0.000	0.000
	38:CIMX7	0.111	-2.631	-2.617	3.713	0.001	0.000	0.000
	39:CIMX8	-1.555	-2.805	-3.384	4.663	0.001	-0.000	-0.000
	40:CIMX9	2.865	-2.245	2.063	4.184	0.001	0.000	0.001
	41:CIMX10	2.474	-2.633	0.293	3.625	0.001	0.000	0.001
	42:CIMX11	-2.666	-2.821	-0.484	3.912	0.001	-0.000	-0.000
	43:CIMX12	-3.057	-3.210	-2.255	4.973	0.001	-0.000	-0.000
	44:CIMX13	1.386	-1.996	3.227	4.039	0.001	0.000	0.000
	45:CIMX14	0.089	-3.285	-2.651	4.222	0.001	0.000	0.000
	46:CIMX15	-0.281	-2.170	2.459	3.292	0.001	-0.000	0.000
	47:CIMX16	-1.578	-3.458	-3.418	5.112	0.001	-0.000	-0.000
251	31:CIM	-0.096	-2.815	0.046	2.817	0.001	0.000	-0.000
	32:CIMX1	2.889	-1.666	2.325	4.065	0.001	0.000	0.001
	33:CIMX2	-2.644	-2.236	-0.379	3.484	0.001	-0.000	-0.001
	34:CIMX3	2.498	-2.026	0.452	3.248	0.001	0.000	0.001
	35:CIMX4	-3.035	-2.596	-2.252	4.585	0.001	-0.000	-0.001
	36:CIMX5	1.409	-1.449	3.552	4.087	0.001	0.000	0.000
	37:CIMX6	-0.258	-1.620	2.738	3.192	0.001	-0.000	-0.000
	38:CIMX7	0.111	-2.642	-2.665	3.754	0.001	0.000	0.000
	39:CIMX8	-1.556	-2.813	-3.479	4.737	0.001	-0.000	-0.000
	40:CIMX9	2.866	-2.350	2.334	4.380	0.001	0.000	0.001
	41:CIMX10	2.475	-2.709	0.461	3.699	0.001	0.000	0.000
	42:CIMX11	-2.667	-2.920	-0.369	3.972	0.001	-0.000	-0.001
	43:CIMX12	-3.058	-3.279	-2.242	5.013	0.001	-0.000	-0.001
	44:CIMX13	1.387	-2.132	3.561	4.376	0.001	0.000	0.000
	45:CIMX14	0.089	-3.325	-2.655	4.256	0.001	0.000	0.000
	46:CIMX15	-0.281	-2.304	2.747	3.596	0.001	-0.000	-0.000
	47:CIMX16	-1.578	-3.497	-3.470	5.173	0.001	-0.000	-0.000
252	31:CIM	0.076	-3.869	0.032	3.870	0.002	0.000	-0.001
	32:CIMX1	4.146	-2.293	2.296	5.265	0.001	0.000	0.000
	33:CIMX2	-3.708	-2.875	-0.350	4.705	0.001	-0.000	-0.001
	34:CIMX3	3.799	-2.734	0.420	4.699	0.001	0.000	0.000
	35:CIMX4	-4.056	-3.315	-2.226	5.692	0.001	-0.000	-0.001
	36:CIMX5	1.805	-1.986	3.548	4.449	0.001	0.000	-0.000
	37:CIMX6	-0.561	-2.161	2.751	3.543	0.001	-0.000	-0.000
	38:CIMX7	0.652	-3.447	-2.681	4.415	0.001	0.000	-0.000
	39:CIMX8	-1.715	-3.623	-3.478	5.306	0.001	-0.000	-0.001
	40:CIMX9	4.177	-3.358	2.294	5.830	0.002	0.000	-0.000
	41:CIMX10	3.829	-3.799	0.417	5.410	0.002	0.000	-0.000
	42:CIMX11	-3.678	-3.940	-0.352	5.401	0.002	-0.000	-0.001
	43:CIMX12	-4.025	-4.380	-2.229	6.353	0.001	-0.000	-0.001
	44:CIMX13	1.836	-3.051	3.545	5.025	0.002	0.000	-0.000
	45:CIMX14	0.682	-4.512	-2.683	5.294	0.001	0.000	-0.001
	46:CIMX15	-0.531	-3.226	2.748	4.271	0.002	-0.000	-0.001
	47:CIMX16	-1.684	-4.688	-3.480	6.076	0.001	-0.000	-0.001
253	31:CIM	0.075	-2.773	-0.059	2.774	0.001	0.000	0.000
	32:CIMX1	4.158	-1.679	2.094	4.949	0.001	0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	33:CIMX2	-3.723	-2.189	-0.382	4.336	0.001	-0.000	-0.001
	34:CIMX3	3.812	-2.032	0.332	4.332	0.001	0.000	0.001
	35:CIMX4	-4.070	-2.542	-2.145	5.256	0.001	-0.000	-0.001
	36:CIMX5	1.807	-1.448	3.273	4.009	0.001	0.000	0.000
	37:CIMX6	-0.568	-1.602	2.526	3.045	0.001	-0.000	-0.000
	38:CIMX7	0.656	-2.619	-2.577	3.733	0.001	0.000	0.000
	39:CIMX8	-1.718	-2.773	-3.323	4.657	0.001	-0.000	-0.000
	40:CIMX9	4.189	-2.341	2.061	5.222	0.001	0.000	0.001
	41:CIMX10	3.842	-2.694	0.299	4.702	0.001	0.000	0.001
	42:CIMX11	-3.693	-2.851	-0.416	4.684	0.001	-0.000	-0.001
	43:CIMX12	-4.040	-3.204	-2.178	5.597	0.001	-0.000	-0.001
	44:CIMX13	1.837	-2.110	3.239	4.280	0.001	0.000	0.000
	45:CIMX14	0.687	-3.281	-2.610	4.249	0.001	0.000	0.000
	46:CIMX15	-0.538	-2.264	2.493	3.410	0.001	-0.000	-0.000
	47:CIMX16	-1.688	-3.435	-3.357	5.091	0.001	-0.000	-0.000
254	31:CIM	0.075	-6.534	-0.021	6.535	0.002	0.000	0.000
	32:CIMX1	4.157	-4.679	1.545	6.446	0.002	0.000	0.000
	33:CIMX2	-3.722	-4.848	0.272	6.118	0.002	-0.000	0.000
	34:CIMX3	3.811	-4.770	-0.273	6.111	0.002	0.000	0.000
	35:CIMX4	-4.068	-4.939	-1.547	6.583	0.002	-0.000	0.000
	36:CIMX5	1.805	-4.632	3.209	5.917	0.002	0.000	0.000
	37:CIMX6	-0.569	-4.683	2.826	5.499	0.002	-0.000	0.000
	38:CIMX7	0.657	-4.935	-2.827	5.725	0.002	0.000	0.000
	39:CIMX8	-1.716	-4.986	-3.211	6.174	0.002	-0.000	0.000
	40:CIMX9	4.187	-6.404	1.525	7.801	0.003	0.000	0.001
	41:CIMX10	3.841	-6.495	-0.294	7.551	0.002	0.000	0.001
	42:CIMX11	-3.692	-6.573	0.252	7.543	0.002	-0.000	0.000
	43:CIMX12	-4.037	-6.664	-1.567	7.948	0.002	-0.000	0.000
	44:CIMX13	1.835	-6.357	3.189	7.345	0.003	0.000	0.001
	45:CIMX14	0.688	-6.660	-2.847	7.276	0.002	0.000	0.000
	46:CIMX15	-0.538	-6.408	2.806	7.016	0.003	-0.000	0.000
	47:CIMX16	-1.686	-6.711	-3.231	7.637	0.002	-0.000	0.000
255	31:CIM	-0.096	-5.168	-0.020	5.169	0.002	0.000	0.000
	32:CIMX1	2.889	-3.493	1.534	4.785	0.002	0.000	0.000
	33:CIMX2	-2.644	-3.793	0.265	4.631	0.002	-0.000	-0.000
	34:CIMX3	2.498	-3.922	-0.283	4.658	0.002	0.000	0.000
	35:CIMX4	-3.035	-4.222	-1.552	5.426	0.002	-0.000	-0.000
	36:CIMX5	1.409	-3.100	3.198	4.671	0.002	0.000	0.000
	37:CIMX6	-0.258	-3.190	2.816	4.263	0.002	-0.000	0.000
	38:CIMX7	0.111	-4.524	-2.833	5.339	0.002	0.000	0.000
	39:CIMX8	-1.555	-4.615	-3.216	5.836	0.002	-0.000	-0.000
	40:CIMX9	2.866	-4.804	1.523	5.797	0.002	0.000	0.000
	41:CIMX10	2.475	-5.233	-0.294	5.796	0.002	0.000	0.000
	42:CIMX11	-2.667	-5.104	0.254	5.764	0.002	-0.000	-0.000
	43:CIMX12	-3.058	-5.533	-1.563	6.512	0.002	-0.000	-0.000
	44:CIMX13	1.386	-4.411	3.187	5.616	0.002	0.000	0.000
	45:CIMX14	0.089	-5.835	-2.844	6.492	0.002	0.000	0.000
	46:CIMX15	-0.281	-4.501	2.804	5.311	0.002	-0.000	0.000
	47:CIMX16	-1.578	-5.926	-3.227	6.930	0.002	-0.000	-0.000
257	31:CIM	0.042	-0.806	-0.071	0.810	-0.000	0.000	0.000
	32:CIMX1	3.407	-0.314	2.001	3.964	0.000	0.000	0.001
	33:CIMX2	-3.040	-0.920	-0.307	3.191	0.000	-0.000	-0.000
	34:CIMX3	3.087	-0.344	0.230	3.115	-0.000	0.000	0.001
	35:CIMX4	-3.360	-0.951	-2.078	4.063	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	36:CIMX5	1.526	-0.491	3.248	3.622	0.000	0.000	0.000
	37:CIMX6	-0.416	-0.673	2.553	2.673	0.000	-0.000	0.000
	38:CIMX7	0.464	-0.591	-2.630	2.735	-0.000	0.000	0.000
	39:CIMX8	-1.479	-0.774	-3.325	3.720	-0.000	-0.000	-0.000
	40:CIMX9	3.426	-0.487	1.968	3.981	0.000	0.000	0.001
	41:CIMX10	3.106	-0.518	0.197	3.155	-0.000	0.000	0.001
	42:CIMX11	-3.021	-1.094	-0.340	3.231	0.000	-0.000	-0.000
	43:CIMX12	-3.341	-1.124	-2.111	4.109	-0.000	-0.000	-0.000
	44:CIMX13	1.545	-0.664	3.215	3.628	0.000	0.000	0.000
	45:CIMX14	0.482	-0.765	-2.663	2.812	-0.000	0.000	0.000
	46:CIMX15	-0.398	-0.847	2.520	2.688	0.000	-0.000	0.000
	47:CIMX16	-1.460	-0.947	-3.358	3.782	-0.000	-0.000	0.000
258	31:CIM	0.041	0.322	-0.021	0.326	-0.000	0.000	0.000
	32:CIMX1	3.412	0.293	1.541	3.755	0.000	0.000	0.000
	33:CIMX2	-3.046	0.243	0.269	3.068	-0.000	-0.000	-0.000
	34:CIMX3	3.091	0.291	-0.277	3.117	-0.000	0.000	0.000
	35:CIMX4	-3.367	0.241	-1.549	3.714	-0.000	-0.000	-0.000
	36:CIMX5	1.527	0.278	3.205	3.561	0.000	0.000	0.000
	37:CIMX6	-0.418	0.263	2.822	2.864	0.000	-0.000	-0.000
	38:CIMX7	0.463	0.270	-2.830	2.880	-0.000	0.000	0.000
	39:CIMX8	-1.483	0.255	-3.213	3.548	-0.000	-0.000	-0.000
	40:CIMX9	3.430	0.348	1.524	3.770	0.000	0.000	0.000
	41:CIMX10	3.109	0.346	-0.294	3.142	-0.000	0.000	0.000
	42:CIMX11	-3.028	0.298	0.252	3.053	-0.000	-0.000	-0.000
	43:CIMX12	-3.349	0.296	-1.566	3.709	-0.000	-0.000	-0.000
	44:CIMX13	1.546	0.334	3.188	3.559	0.000	0.000	0.000
	45:CIMX14	0.481	0.326	-2.846	2.905	-0.000	0.000	0.000
	46:CIMX15	-0.400	0.318	2.805	2.851	0.000	-0.000	0.000
	47:CIMX16	-1.464	0.311	-3.230	3.560	-0.000	-0.000	-0.000
271	31:CIM	-0.518	-2.451	0.187	2.512	-0.000	-0.000	-0.000
	32:CIMX1	10.260	-1.484	3.299	10.879	-0.000	0.000	-0.000
	33:CIMX2	-10.212	-1.989	0.624	10.423	-0.000	-0.001	-0.000
	34:CIMX3	9.402	-1.512	-0.335	9.529	-0.000	0.000	-0.000
	35:CIMX4	-11.070	-2.018	-3.011	11.648	-0.000	-0.001	-0.000
	36:CIMX5	4.103	-1.627	6.579	7.922	-0.000	0.000	0.000
	37:CIMX6	-2.065	-1.779	5.773	6.384	-0.000	-0.000	-0.000
	38:CIMX7	1.255	-1.722	-5.484	5.884	-0.000	-0.000	-0.000
	39:CIMX8	-4.913	-1.874	-6.291	8.199	-0.000	-0.000	-0.000
	40:CIMX9	10.147	-2.184	3.342	10.904	-0.000	0.000	-0.000
	41:CIMX10	9.289	-2.212	-0.293	9.554	-0.000	0.000	-0.000
	42:CIMX11	-10.325	-2.689	0.666	10.690	-0.000	-0.001	-0.000
	43:CIMX12	-11.183	-2.718	-2.969	11.885	-0.000	-0.001	-0.000
	44:CIMX13	3.990	-2.327	6.621	8.073	-0.000	0.000	-0.000
	45:CIMX14	1.142	-2.422	-5.442	6.065	-0.000	-0.000	-0.000
	46:CIMX15	-2.178	-2.479	5.815	6.686	-0.000	-0.000	-0.000
	47:CIMX16	-5.026	-2.575	-6.248	8.422	-0.000	-0.000	-0.000
272	31:CIM	-0.231	-2.539	0.051	2.550	0.000	-0.000	-0.000
	32:CIMX1	9.231	-1.476	3.519	9.989	0.000	0.000	0.000
	33:CIMX2	-8.870	-2.093	0.291	9.119	0.000	-0.001	-0.000
	34:CIMX3	8.469	-1.503	-0.208	8.604	0.000	0.000	-0.000
	35:CIMX4	-9.632	-2.121	-3.437	10.444	-0.000	-0.001	-0.000
	36:CIMX5	3.790	-1.659	6.714	7.887	0.000	0.000	0.000
	37:CIMX6	-1.663	-1.845	5.741	6.256	0.000	-0.000	0.000
	38:CIMX7	1.262	-1.751	-5.659	6.056	-0.000	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	39:CIMX8	-4.192	-1.937	-6.631	8.081	-0.000	-0.000	-0.000
	40:CIMX9	9.200	-2.216	3.529	10.100	0.000	0.000	0.000
	41:CIMX10	8.439	-2.244	-0.198	8.734	0.000	0.000	-0.000
	42:CIMX11	-8.901	-2.833	0.301	9.346	0.000	-0.001	-0.000
	43:CIMX12	-9.663	-2.861	-3.427	10.644	-0.000	-0.001	-0.000
	44:CIMX13	3.760	-2.400	6.724	8.069	0.000	0.000	0.000
	45:CIMX14	1.231	-2.492	-5.649	6.295	-0.000	-0.000	-0.000
	46:CIMX15	-1.694	-2.586	5.751	6.529	0.000	-0.000	0.000
	47:CIMX16	-4.222	-2.678	-6.621	8.297	-0.000	-0.000	-0.000
273	31:CIM	-0.072	-2.324	-0.002	2.325	0.000	-0.000	0.000
	32:CIMX1	8.749	-1.326	3.983	9.704	0.000	0.000	0.000
	33:CIMX2	-8.202	-1.938	-0.207	8.430	0.000	-0.001	0.000
	34:CIMX3	8.027	-1.357	0.207	8.143	0.000	0.000	0.000
	35:CIMX4	-8.924	-1.969	-3.984	9.970	0.000	-0.001	-0.000
	36:CIMX5	3.665	-1.504	6.899	7.955	0.000	0.000	0.000
	37:CIMX6	-1.442	-1.688	5.636	6.058	0.000	-0.000	0.000
	38:CIMX7	1.267	-1.607	-5.637	5.997	0.000	-0.000	-0.000
	39:CIMX8	-3.840	-1.791	-6.899	8.097	0.000	-0.000	-0.000
	40:CIMX9	8.765	-2.002	3.981	9.833	0.000	0.000	0.000
	41:CIMX10	8.042	-2.033	0.205	8.298	0.000	0.000	-0.000
	42:CIMX11	-8.186	-2.615	-0.209	8.597	0.000	-0.001	0.000
	43:CIMX12	-8.909	-2.646	-3.986	10.113	0.000	-0.001	-0.000
	44:CIMX13	3.681	-2.180	6.897	8.116	0.000	0.000	0.000
	45:CIMX14	1.282	-2.283	-5.639	6.217	0.000	-0.000	-0.000
	46:CIMX15	-1.426	-2.365	5.634	6.275	0.000	-0.000	0.000
	47:CIMX16	-3.825	-2.468	-6.901	8.267	0.000	-0.000	-0.000
274	31:CIM	-0.652	-2.208	0.266	2.318	-0.000	-0.000	0.000
	32:CIMX1	10.803	-1.384	3.660	11.489	0.000	0.000	0.000
	33:CIMX2	-10.891	-1.778	0.338	11.040	-0.000	-0.001	0.000
	34:CIMX3	9.890	-1.412	0.070	9.990	0.000	0.000	0.000
	35:CIMX4	-11.804	-1.807	-3.252	12.376	-0.000	-0.001	-0.000
	36:CIMX5	4.283	-1.488	6.662	8.059	0.000	0.000	0.000
	37:CIMX6	-2.253	-1.607	5.661	6.301	-0.000	-0.000	0.000
	38:CIMX7	1.252	-1.583	-5.254	5.628	-0.000	0.000	0.000
	39:CIMX8	-5.284	-1.702	-6.254	8.363	-0.000	-0.000	-0.000
	40:CIMX9	10.651	-1.997	3.722	11.458	0.000	0.000	0.000
	41:CIMX10	9.738	-2.025	0.132	9.947	-0.000	0.000	0.000
	42:CIMX11	-11.042	-2.391	0.400	11.305	-0.000	-0.001	0.000
	43:CIMX12	-11.955	-2.420	-3.190	12.608	-0.000	-0.001	0.000
	44:CIMX13	4.131	-2.102	6.724	8.167	-0.000	0.000	0.000
	45:CIMX14	1.100	-2.196	-5.192	5.744	-0.000	-0.000	0.000
	46:CIMX15	-2.404	-2.220	5.723	6.593	-0.000	-0.000	0.000
	47:CIMX16	-5.436	-2.315	-6.192	8.559	-0.000	-0.000	0.000
275	31:CIM	0.428	-1.762	0.122	1.817	0.000	0.000	-0.000
	32:CIMX1	6.240	-0.949	4.162	7.561	0.000	0.000	-0.000
	33:CIMX2	-5.103	-1.305	-0.391	5.281	0.000	-0.000	-0.000
	34:CIMX3	5.633	-0.964	0.561	5.743	0.000	0.000	-0.000
	35:CIMX4	-5.710	-1.320	-3.993	7.091	-0.000	-0.000	-0.000
	36:CIMX5	2.982	-1.056	6.748	7.452	0.001	0.000	-0.000
	37:CIMX6	-0.436	-1.163	5.376	5.518	0.000	-0.000	-0.000
	38:CIMX7	0.967	-1.106	-5.206	5.410	-0.000	0.000	-0.000
	39:CIMX8	-2.451	-1.213	-6.578	7.124	-0.000	-0.000	-0.000
	40:CIMX9	6.403	-1.577	4.199	7.818	0.001	0.000	-0.000
	41:CIMX10	5.796	-1.592	0.597	6.040	0.000	0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	42:CIMX11	-4.940	-1.933	-0.354	5.317	0.000	-0.000	-0.000
	43:CIMX12	-5.547	-1.948	-3.956	7.086	-0.000	-0.000	-0.000
	44:CIMX13	3.144	-1.684	6.785	7.665	0.001	0.000	-0.000
	45:CIMX14	1.129	-1.734	-5.170	5.568	-0.000	0.000	-0.000
	46:CIMX15	-0.273	-1.791	5.413	5.708	0.001	-0.000	-0.000
	47:CIMX16	-2.289	-1.841	-6.541	7.170	-0.000	-0.000	-0.000
276	31:CIM	0.533	-1.835	0.122	1.914	-0.000	0.000	-0.000
	32:CIMX1	7.632	-0.936	4.165	8.744	0.000	0.000	-0.000
	33:CIMX2	-6.319	-1.405	-0.391	6.485	-0.000	-0.000	-0.000
	34:CIMX3	6.991	-0.960	0.561	7.079	-0.000	0.000	-0.000
	35:CIMX4	-6.959	-1.429	-3.994	8.150	-0.000	-0.000	-0.000
	36:CIMX5	3.501	-1.071	6.752	7.680	0.000	0.000	-0.000
	37:CIMX6	-0.702	-1.213	5.379	5.559	0.000	-0.000	-0.000
	38:CIMX7	1.375	-1.152	-5.209	5.509	-0.000	0.000	-0.000
	39:CIMX8	-2.828	-1.293	-6.581	7.279	-0.001	-0.000	-0.000
	40:CIMX9	7.828	-1.588	4.202	9.025	0.000	0.000	-0.000
	41:CIMX10	7.187	-1.613	0.598	7.390	-0.000	0.000	-0.000
	42:CIMX11	-6.122	-2.057	-0.354	6.468	-0.000	-0.000	-0.000
	43:CIMX12	-6.763	-2.081	-3.957	8.107	-0.001	-0.000	-0.000
	44:CIMX13	3.697	-1.724	6.789	7.920	0.000	0.000	-0.000
	45:CIMX14	1.571	-1.805	-5.172	5.698	-0.001	0.000	-0.000
	46:CIMX15	-0.506	-1.865	5.416	5.751	0.000	-0.000	-0.000
	47:CIMX16	-2.632	-1.946	-6.544	7.317	-0.001	-0.000	-0.000
277	31:CIM	0.429	-1.791	0.098	1.844	0.000	0.000	0.000
	32:CIMX1	6.241	-1.150	3.476	7.235	0.000	0.000	0.000
	33:CIMX2	-5.102	-1.166	0.163	5.236	0.000	-0.000	0.000
	34:CIMX3	5.634	-1.162	-0.023	5.753	0.000	0.000	0.000
	35:CIMX4	-5.708	-1.178	-3.336	6.716	-0.000	-0.000	0.000
	36:CIMX5	2.981	-1.142	6.376	7.131	0.001	0.000	0.000
	37:CIMX6	-0.436	-1.146	5.378	5.516	0.001	0.000	0.000
	38:CIMX7	0.968	-1.182	-5.238	5.456	-0.000	-0.000	0.000
	39:CIMX8	-2.449	-1.186	-6.236	6.804	-0.000	-0.000	0.000
	40:CIMX9	6.404	-1.777	3.504	7.513	0.001	0.000	0.000
	41:CIMX10	5.797	-1.789	0.005	6.067	0.000	0.000	0.000
	42:CIMX11	-4.939	-1.793	0.191	5.258	0.000	-0.000	0.000
	43:CIMX12	-5.545	-1.805	-3.308	6.704	0.000	-0.000	0.000
	44:CIMX13	3.144	-1.769	6.405	7.351	0.001	0.000	0.000
	45:CIMX14	1.131	-1.809	-5.210	5.630	0.000	-0.000	0.000
	46:CIMX15	-0.273	-1.773	5.406	5.696	0.001	0.000	0.000
	47:CIMX16	-2.286	-1.813	-6.208	6.859	-0.000	-0.000	0.000
278	31:CIM	0.532	-1.881	0.097	1.957	-0.000	0.000	0.000
	32:CIMX1	7.640	-1.208	3.476	8.480	0.000	0.000	0.000
	33:CIMX2	-6.328	-1.219	0.161	6.446	-0.000	-0.000	0.000
	34:CIMX3	7.000	-1.221	-0.024	7.105	-0.000	0.000	0.000
	35:CIMX4	-6.969	-1.233	-3.338	7.825	-0.000	-0.000	0.000
	36:CIMX5	3.504	-1.196	6.376	7.373	0.000	0.000	0.000
	37:CIMX6	-0.705	-1.200	5.377	5.554	0.000	0.000	0.000
	38:CIMX7	1.376	-1.241	-5.240	5.558	-0.000	-0.000	0.000
	39:CIMX8	-2.832	-1.245	-6.238	6.963	-0.001	-0.000	0.000
	40:CIMX9	7.837	-1.869	3.504	8.785	-0.000	0.000	0.000
	41:CIMX10	7.196	-1.882	0.004	7.438	-0.000	0.000	0.000
	42:CIMX11	-6.132	-1.880	0.189	6.416	-0.000	-0.000	0.000
	43:CIMX12	-6.773	-1.894	-3.310	7.772	-0.001	-0.000	0.000
	44:CIMX13	3.700	-1.857	6.404	7.625	0.000	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	45:CIMX14	1.573	-1.902	-5.212	5.766	-0.001	-0.000	0.000
	46:CIMX15	-0.508	-1.860	5.405	5.739	-0.000	0.000	0.000
	47:CIMX16	-2.636	-1.905	-6.210	7.010	-0.001	-0.000	0.000
281	31:CIM	0.440	-1.416	0.016	1.483	0.000	0.000	-0.000
	32:CIMX1	6.252	-1.084	3.060	7.045	0.000	0.001	-0.000
	33:CIMX2	-5.100	-1.121	0.375	5.235	0.000	-0.000	-0.000
	34:CIMX3	5.646	-1.107	-0.348	5.764	0.000	0.000	-0.000
	35:CIMX4	-5.705	-1.144	-3.033	6.562	0.000	-0.000	-0.000
	36:CIMX5	2.988	-1.071	6.074	6.853	0.000	0.000	-0.000
	37:CIMX6	-0.431	-1.082	5.265	5.392	0.000	-0.000	-0.000
	38:CIMX7	0.978	-1.146	-5.237	5.450	-0.000	0.000	-0.000
	39:CIMX8	-2.442	-1.157	-6.046	6.623	-0.000	-0.000	-0.000
	40:CIMX9	6.418	-1.386	3.062	7.245	0.000	0.001	-0.000
	41:CIMX10	5.812	-1.409	-0.346	5.991	0.000	0.000	-0.000
	42:CIMX11	-4.933	-1.423	0.377	5.148	0.000	-0.000	-0.000
	43:CIMX12	-5.539	-1.446	-3.031	6.477	0.000	-0.000	-0.000
	44:CIMX13	3.155	-1.373	6.076	6.982	0.001	0.000	-0.000
	45:CIMX14	1.144	-1.448	-5.235	5.551	0.000	0.000	-0.000
	46:CIMX15	-0.265	-1.384	5.267	5.452	0.001	-0.000	-0.000
	47:CIMX16	-2.276	-1.459	-6.044	6.621	0.000	-0.000	-0.000
282	31:CIM	0.540	-1.470	0.021	1.566	-0.000	0.000	-0.000
	32:CIMX1	7.671	-1.107	3.064	8.334	-0.000	0.001	-0.000
	33:CIMX2	-6.345	-1.163	0.379	6.462	-0.000	-0.000	-0.000
	34:CIMX3	7.028	-1.136	-0.344	7.128	-0.000	0.000	-0.000
	35:CIMX4	-6.988	-1.192	-3.029	7.708	-0.000	-0.000	-0.000
	36:CIMX5	3.519	-1.094	6.078	7.108	0.000	0.000	-0.000
	37:CIMX6	-0.704	-1.111	5.269	5.431	0.000	-0.000	-0.000
	38:CIMX7	1.387	-1.188	-5.234	5.543	-0.000	0.000	-0.000
	39:CIMX8	-2.836	-1.205	-6.043	6.783	-0.000	-0.000	-0.000
	40:CIMX9	7.870	-1.428	3.068	8.566	-0.000	0.001	-0.000
	41:CIMX10	7.227	-1.456	-0.340	7.380	-0.000	0.000	-0.000
	42:CIMX11	-6.146	-1.484	0.383	6.335	-0.000	-0.000	-0.000
	43:CIMX12	-6.789	-1.512	-3.025	7.585	-0.000	-0.000	-0.000
	44:CIMX13	3.718	-1.414	6.082	7.267	-0.000	0.000	-0.000
	45:CIMX14	1.586	-1.509	-5.230	5.670	-0.001	0.000	-0.000
	46:CIMX15	-0.505	-1.431	5.273	5.487	-0.000	-0.000	-0.000
	47:CIMX16	-2.637	-1.526	-6.039	6.764	-0.001	-0.000	-0.000
283	31:CIM	0.449	-1.473	-0.034	1.540	0.000	0.000	0.000
	32:CIMX1	6.264	-0.984	3.628	7.305	0.000	0.000	0.000
	33:CIMX2	-5.098	-1.339	-0.223	5.276	0.000	-0.000	0.000
	34:CIMX3	5.658	-1.000	0.181	5.749	0.000	0.000	0.000
	35:CIMX4	-5.704	-1.355	-3.670	6.916	-0.000	-0.000	0.000
	36:CIMX5	2.997	-1.090	6.279	7.043	0.000	0.000	0.000
	37:CIMX6	-0.426	-1.197	5.119	5.274	0.000	-0.000	0.000
	38:CIMX7	0.986	-1.143	-5.161	5.377	-0.000	0.000	0.000
	39:CIMX8	-2.437	-1.250	-6.321	6.889	-0.000	-0.000	0.000
	40:CIMX9	6.433	-1.288	3.614	7.490	0.000	0.000	0.000
	41:CIMX10	5.827	-1.304	0.168	5.973	0.000	0.000	0.000
	42:CIMX11	-4.929	-1.642	-0.237	5.201	0.000	-0.000	0.000
	43:CIMX12	-5.535	-1.658	-3.683	6.852	0.000	-0.000	0.000
	44:CIMX13	3.166	-1.393	6.266	7.157	0.000	0.000	0.000
	45:CIMX14	1.155	-1.446	-5.174	5.495	-0.000	0.000	0.000
	46:CIMX15	-0.257	-1.500	5.105	5.327	0.000	-0.000	0.000
	47:CIMX16	-2.268	-1.553	-6.335	6.905	-0.000	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
284	31:CIM	0.550	-1.497	-0.037	1.595	-0.000	0.000	0.000
	32:CIMX1	7.693	-0.907	3.627	8.554	0.000	0.000	0.000
	33:CIMX2	-6.353	-1.425	-0.227	6.515	-0.000	-0.000	0.000
	34:CIMX3	7.050	-0.945	0.181	7.116	-0.000	0.000	0.000
	35:CIMX4	-6.997	-1.463	-3.672	8.036	-0.000	-0.000	0.000
	36:CIMX5	3.532	-1.044	6.276	7.277	0.000	0.000	0.000
	37:CIMX6	-0.700	-1.200	5.115	5.300	0.000	-0.000	0.000
	38:CIMX7	1.397	-1.170	-5.161	5.473	-0.000	0.000	0.000
	39:CIMX8	-2.835	-1.326	-6.322	7.054	-0.000	-0.000	0.000
	40:CIMX9	7.895	-1.219	3.612	8.767	-0.000	0.001	0.000
	41:CIMX10	7.251	-1.257	0.166	7.361	-0.000	0.000	0.000
	42:CIMX11	-6.152	-1.737	-0.241	6.397	-0.000	-0.000	0.000
	43:CIMX12	-6.795	-1.775	-3.687	7.932	-0.000	-0.000	0.000
	44:CIMX13	3.733	-1.356	6.262	7.415	0.000	0.000	0.000
	45:CIMX14	1.598	-1.482	-5.175	5.615	-0.000	0.000	0.000
	46:CIMX15	-0.499	-1.512	5.101	5.343	0.000	-0.000	0.000
	47:CIMX16	-2.634	-1.638	-6.336	7.055	-0.000	-0.000	0.000
285	31:CIM	0.058	-0.496	0.036	0.500	0.001	0.000	-0.000
	32:CIMX1	3.673	-0.234	2.257	4.317	0.001	0.000	0.000
	33:CIMX2	-3.283	-0.458	-0.315	3.330	0.000	-0.000	-0.001
	34:CIMX3	3.351	-0.254	0.385	3.383	0.001	0.000	0.000
	35:CIMX4	-3.605	-0.479	-2.187	4.243	-0.000	-0.000	-0.001
	36:CIMX5	1.616	-0.288	3.529	3.892	0.001	0.000	0.000
	37:CIMX6	-0.480	-0.356	2.754	2.818	0.001	-0.000	-0.000
	38:CIMX7	0.548	-0.356	-2.684	2.763	-0.000	0.000	-0.000
	39:CIMX8	-1.548	-0.424	-3.459	3.813	-0.000	-0.000	-0.001
	40:CIMX9	3.697	-0.373	2.258	4.348	0.001	0.000	0.000
	41:CIMX10	3.375	-0.394	0.386	3.419	0.001	0.000	0.000
	42:CIMX11	-3.259	-0.598	-0.314	3.329	0.000	-0.000	-0.001
	43:CIMX12	-3.581	-0.618	-2.186	4.241	0.000	-0.000	-0.001
	44:CIMX13	1.640	-0.428	3.530	3.916	0.002	0.000	-0.000
	45:CIMX14	0.571	-0.496	-2.683	2.788	-0.000	0.000	-0.000
	46:CIMX15	-0.456	-0.496	2.755	2.836	0.001	-0.000	-0.000
	47:CIMX16	-1.524	-0.564	-3.458	3.821	-0.000	-0.000	-0.001
286	31:CIM	0.008	-0.473	0.036	0.474	-0.000	0.000	-0.000
	32:CIMX1	3.097	-0.200	2.264	3.842	0.000	0.000	0.000
	33:CIMX2	-2.777	-0.460	-0.328	2.834	-0.000	-0.000	-0.001
	34:CIMX3	2.779	-0.212	0.394	2.815	-0.000	0.000	0.000
	35:CIMX4	-3.096	-0.472	-2.198	3.826	-0.001	-0.000	-0.001
	36:CIMX5	1.415	-0.276	3.527	3.810	0.001	0.000	0.000
	37:CIMX6	-0.355	-0.355	2.746	2.792	0.000	-0.000	-0.000
	38:CIMX7	0.357	-0.317	-2.680	2.722	-0.001	0.000	-0.000
	39:CIMX8	-1.413	-0.396	-3.461	3.759	-0.001	-0.000	-0.000
	40:CIMX9	3.105	-0.336	2.266	3.859	0.000	0.000	0.000
	41:CIMX10	2.786	-0.349	0.396	2.836	-0.000	0.000	0.000
	42:CIMX11	-2.770	-0.597	-0.325	2.852	-0.001	-0.000	-0.001
	43:CIMX12	-3.089	-0.609	-2.195	3.838	-0.001	-0.000	-0.001
	44:CIMX13	1.422	-0.413	3.529	3.827	0.000	0.000	0.000
	45:CIMX14	0.364	-0.454	-2.677	2.740	-0.001	0.000	-0.000
	46:CIMX15	-0.348	-0.491	2.749	2.814	0.000	-0.000	-0.000
	47:CIMX16	-1.406	-0.532	-3.458	3.771	-0.001	-0.000	-0.000
287	31:CIM	0.426	-0.821	0.143	0.936	0.000	0.000	-0.000
	32:CIMX1	6.239	-0.507	4.732	7.847	0.000	0.000	-0.000
	33:CIMX2	-5.102	-0.596	-0.920	5.218	-0.000	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	34:CIMX3	5.631	-0.529	1.117	5.765	0.000	0.000	-0.000
	35:CIMX4	-5.709	-0.617	-4.535	7.317	-0.000	-0.000	-0.001
	36:CIMX5	2.982	-0.513	6.949	7.579	0.001	0.000	-0.000
	37:CIMX6	-0.435	-0.540	5.246	5.292	0.000	-0.000	-0.000
	38:CIMX7	0.965	-0.585	-5.049	5.174	-0.000	0.000	-0.000
	39:CIMX8	-2.452	-0.611	-6.752	7.210	-0.000	-0.000	-0.000
	40:CIMX9	6.400	-0.766	4.777	8.023	0.000	0.000	-0.000
	41:CIMX10	5.793	-0.788	1.162	5.961	0.000	0.000	-0.000
	42:CIMX11	-4.940	-0.855	-0.875	5.089	0.000	-0.000	-0.001
	43:CIMX12	-5.548	-0.876	-4.490	7.191	-0.000	-0.000	-0.001
	44:CIMX13	3.143	-0.772	6.994	7.707	0.001	0.000	-0.000
	45:CIMX14	1.126	-0.844	-5.004	5.198	-0.000	0.000	-0.000
	46:CIMX15	-0.274	-0.799	5.291	5.358	0.000	-0.000	-0.000
	47:CIMX16	-2.290	-0.870	-6.707	7.141	-0.000	-0.000	-0.001
288	31:CIM	0.533	-0.798	0.153	0.972	-0.000	0.000	-0.000
	32:CIMX1	7.622	-0.526	4.733	8.987	0.000	0.000	0.000
	33:CIMX2	-6.308	-0.571	-0.917	6.400	-0.000	-0.000	-0.001
	34:CIMX3	6.982	-0.545	1.130	7.094	0.000	0.000	0.000
	35:CIMX4	-6.948	-0.591	-4.520	8.310	-0.000	-0.000	-0.001
	36:CIMX5	3.497	-0.519	6.937	7.786	0.000	0.000	-0.000
	37:CIMX6	-0.700	-0.533	5.235	5.308	0.000	-0.000	-0.000
	38:CIMX7	1.374	-0.584	-5.022	5.239	-0.000	0.000	-0.000
	39:CIMX8	-2.823	-0.597	-6.724	7.317	-0.001	-0.000	-0.000
	40:CIMX9	7.818	-0.766	4.779	9.195	0.000	0.000	-0.000
	41:CIMX10	7.178	-0.786	1.176	7.316	0.000	0.000	-0.000
	42:CIMX11	-6.112	-0.811	-0.870	6.227	-0.000	-0.000	-0.001
	43:CIMX12	-6.752	-0.831	-4.473	8.142	-0.000	-0.000	-0.001
	44:CIMX13	3.693	-0.759	6.984	7.936	0.000	0.000	-0.000
	45:CIMX14	1.570	-0.824	-4.976	5.282	-0.000	0.000	-0.000
	46:CIMX15	-0.504	-0.773	5.282	5.362	0.000	-0.000	-0.001
	47:CIMX16	-2.627	-0.838	-6.678	7.225	-0.001	-0.000	-0.001
289	31:CIM	0.041	-0.000	0.036	0.054	0.000	0.000	0.000
	32:CIMX1	3.429	-0.000	2.261	4.108	0.000	0.000	0.000
	33:CIMX2	-3.062	-0.000	-0.321	3.079	0.000	0.000	0.000
	34:CIMX3	3.107	-0.000	0.389	3.131	0.000	0.000	0.000
	35:CIMX4	-3.385	-0.000	-2.193	4.033	0.000	0.000	0.000
	36:CIMX5	1.535	-0.000	3.529	3.849	0.000	0.000	0.000
	37:CIMX6	-0.420	-0.000	2.751	2.783	0.000	0.000	0.000
	38:CIMX7	0.465	-0.000	-2.683	2.723	0.000	0.000	0.000
	39:CIMX8	-1.491	-0.000	-3.461	3.768	0.000	0.000	0.000
	40:CIMX9	3.448	-0.000	2.263	4.124	0.000	0.000	0.000
	41:CIMX10	3.125	-0.000	0.391	3.150	0.000	0.000	0.000
	42:CIMX11	-3.044	-0.000	-0.320	3.061	0.000	0.000	0.000
	43:CIMX12	-3.366	-0.000	-2.191	4.017	0.000	0.000	0.000
	44:CIMX13	1.554	-0.000	3.531	3.858	0.000	0.000	0.000
	45:CIMX14	0.484	-0.000	-2.681	2.724	0.000	0.000	0.000
	46:CIMX15	-0.402	-0.000	2.753	2.782	0.000	0.000	0.000
	47:CIMX16	-1.472	-0.000	-3.459	3.759	0.000	0.000	0.000
290	31:CIM	0.075	-9.393	-0.005	9.394	0.004	0.000	0.000
	32:CIMX1	4.157	-6.383	1.684	7.801	0.003	0.000	0.000
	33:CIMX2	-3.723	-6.700	0.204	7.668	0.003	-0.000	0.000
	34:CIMX3	3.811	-6.537	-0.187	7.569	0.003	0.000	0.000
	35:CIMX4	-4.069	-6.854	-1.667	8.143	0.003	-0.000	0.000
	36:CIMX5	1.805	-6.315	3.337	7.367	0.003	0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	37:CIMX6	-0.569	-6.411	2.891	7.056	0.003	-0.000	0.000
	38:CIMX7	0.657	-6.826	-2.874	7.435	0.003	0.000	0.000
	39:CIMX8	-1.717	-6.922	-3.320	7.866	0.003	-0.000	0.000
	40:CIMX9	4.188	-9.158	1.671	10.207	0.004	0.000	0.001
	41:CIMX10	3.842	-9.312	-0.200	10.075	0.004	0.000	0.001
	42:CIMX11	-3.692	-9.475	0.191	10.171	0.004	-0.000	0.000
	43:CIMX12	-4.038	-9.629	-1.680	10.576	0.004	-0.000	0.000
	44:CIMX13	1.836	-9.090	3.323	9.851	0.004	0.000	0.001
	45:CIMX14	0.688	-9.601	-2.887	10.049	0.004	0.000	0.000
	46:CIMX15	-0.538	-9.186	2.877	9.641	0.004	-0.000	0.000
	47:CIMX16	-1.686	-9.696	-3.333	10.391	0.004	-0.000	0.000
291	31:CIM	0.060	-1.018	-0.005	1.019	0.001	0.000	0.000
	32:CIMX1	3.675	-0.702	1.680	4.102	0.001	0.000	0.000
	33:CIMX2	-3.284	-0.721	0.204	3.368	0.001	-0.000	-0.000
	34:CIMX3	3.353	-0.725	-0.187	3.436	0.001	0.000	0.000
	35:CIMX4	-3.606	-0.744	-1.663	4.040	0.000	-0.000	-0.000
	36:CIMX5	1.618	-0.681	3.330	3.764	0.001	0.000	0.000
	37:CIMX6	-0.479	-0.687	2.885	3.004	0.001	0.000	0.000
	38:CIMX7	0.548	-0.759	-2.868	3.017	0.000	0.000	0.000
	39:CIMX8	-1.548	-0.765	-3.313	3.736	0.000	-0.000	0.000
	40:CIMX9	3.700	-0.996	1.667	4.179	0.001	0.000	0.000
	41:CIMX10	3.378	-1.020	-0.200	3.534	0.001	0.000	0.000
	42:CIMX11	-3.259	-1.015	0.191	3.419	0.001	-0.000	0.000
	43:CIMX12	-3.581	-1.039	-1.677	4.088	0.001	-0.000	0.000
	44:CIMX13	1.643	-0.976	3.316	3.827	0.002	0.000	0.000
	45:CIMX14	0.573	-1.054	-2.881	3.121	0.001	0.000	0.000
	46:CIMX15	-0.454	-0.981	2.871	3.068	0.001	0.000	0.000
	47:CIMX16	-1.523	-1.059	-3.326	3.809	0.001	-0.000	0.000
292	31:CIM	0.083	-20.397	-0.005	20.397	0.000	0.000	0.005
	32:CIMX1	4.634	-13.940	1.686	14.786	0.000	0.000	0.003
	33:CIMX2	-4.156	-14.115	0.204	14.715	0.000	-0.000	0.003
	34:CIMX3	4.254	-14.015	-0.187	14.648	0.000	0.000	0.003
	35:CIMX4	-4.535	-14.191	-1.669	14.991	0.000	-0.000	0.003
	36:CIMX5	2.003	-13.913	3.341	14.448	0.000	0.000	0.003
	37:CIMX6	-0.645	-13.966	2.895	14.277	0.000	0.000	0.003
	38:CIMX7	0.743	-14.165	-2.878	14.473	0.000	0.000	0.003
	39:CIMX8	-1.905	-14.218	-3.324	14.725	0.000	-0.000	0.003
	40:CIMX9	4.668	-20.271	1.673	20.869	0.000	0.000	0.005
	41:CIMX10	4.288	-20.347	-0.201	20.795	0.000	0.000	0.005
	42:CIMX11	-4.122	-20.447	0.191	20.859	0.000	-0.000	0.005
	43:CIMX12	-4.501	-20.523	-1.683	21.078	0.000	-0.000	0.005
	44:CIMX13	2.037	-20.244	3.328	20.617	0.000	0.000	0.005
	45:CIMX14	0.778	-20.496	-2.891	20.714	0.000	0.000	0.005
	46:CIMX15	-0.611	-20.297	2.881	20.510	0.000	0.000	0.005
	47:CIMX16	-1.871	-20.549	-3.338	20.902	0.000	-0.000	0.005
293	31:CIM	0.000	-0.951	0.000	0.951	0.001	0.000	-0.000
	32:CIMX1	0.012	-0.511	0.000	0.511	0.001	0.000	0.000
	33:CIMX2	-0.011	-0.613	-0.000	0.613	0.001	-0.000	-0.001
	34:CIMX3	0.011	-0.592	0.000	0.592	0.001	0.000	0.000
	35:CIMX4	-0.011	-0.694	-0.000	0.695	0.001	-0.000	-0.001
	36:CIMX5	0.004	-0.452	0.000	0.452	0.001	0.000	-0.000
	37:CIMX6	-0.002	-0.483	-0.000	0.483	0.001	-0.000	-0.000
	38:CIMX7	0.003	-0.723	0.000	0.723	0.001	0.000	-0.000
	39:CIMX8	-0.004	-0.753	-0.000	0.753	0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	40:CIMX9	0.012	-0.859	0.000	0.859	0.001	0.000	-0.000
	41:CIMX10	0.011	-0.941	0.000	0.941	0.001	0.000	-0.000
	42:CIMX11	-0.011	-0.961	-0.000	0.961	0.001	-0.000	-0.001
	43:CIMX12	-0.011	-1.043	-0.000	1.043	0.001	-0.000	-0.001
	44:CIMX13	0.005	-0.800	0.000	0.800	0.001	0.000	-0.000
	45:CIMX14	0.003	-1.071	0.000	1.071	0.001	0.000	-0.000
	46:CIMX15	-0.002	-0.831	-0.000	0.831	0.001	-0.000	-0.000
	47:CIMX16	-0.004	-1.102	-0.000	1.102	0.001	-0.000	-0.001
294	31:CIM	0.000	-1.952	-0.000	1.952	0.003	0.000	0.000
	32:CIMX1	0.012	-1.193	0.000	1.193	0.002	0.000	0.000
	33:CIMX2	-0.011	-1.244	-0.000	1.244	0.002	-0.000	0.000
	34:CIMX3	0.011	-1.229	0.000	1.229	0.002	0.000	0.000
	35:CIMX4	-0.011	-1.279	-0.000	1.279	0.002	-0.000	0.000
	36:CIMX5	0.004	-1.169	0.000	1.169	0.002	0.000	0.000
	37:CIMX6	-0.002	-1.185	-0.000	1.185	0.002	-0.000	0.000
	38:CIMX7	0.003	-1.288	0.000	1.288	0.002	0.000	0.000
	39:CIMX8	-0.004	-1.303	-0.000	1.303	0.002	-0.000	0.000
	40:CIMX9	0.012	-1.909	0.000	1.909	0.003	0.000	0.000
	41:CIMX10	0.011	-1.944	0.000	1.944	0.003	0.000	0.000
	42:CIMX11	-0.011	-1.959	-0.000	1.959	0.003	-0.000	0.000
	43:CIMX12	-0.011	-1.995	-0.000	1.995	0.003	-0.000	0.000
	44:CIMX13	0.004	-1.885	0.000	1.885	0.003	0.000	0.000
	45:CIMX14	0.003	-2.003	0.000	2.003	0.003	0.000	0.000
	46:CIMX15	-0.002	-1.900	-0.000	1.900	0.003	-0.000	0.000
	47:CIMX16	-0.004	-2.019	-0.000	2.019	0.003	-0.000	0.000
295	31:CIM	0.066	-1.380	0.037	1.382	0.001	0.000	-0.001
	32:CIMX1	3.816	-0.660	2.298	4.503	0.001	0.000	-0.000
	33:CIMX2	-3.410	-1.036	-0.350	3.581	0.001	-0.000	-0.001
	34:CIMX3	3.488	-0.958	0.423	3.642	0.001	0.000	-0.000
	35:CIMX4	-3.738	-1.334	-2.225	4.550	0.001	-0.000	-0.001
	36:CIMX5	1.672	-0.446	3.548	3.947	0.001	0.000	-0.000
	37:CIMX6	-0.505	-0.559	2.750	2.851	0.001	-0.000	-0.001
	38:CIMX7	0.584	-1.435	-2.677	3.093	0.001	0.000	-0.000
	39:CIMX8	-1.593	-1.548	-3.475	4.124	0.001	-0.000	-0.001
	40:CIMX9	3.843	-1.042	2.299	4.597	0.002	0.000	-0.000
	41:CIMX10	3.515	-1.340	0.423	3.786	0.001	0.000	-0.000
	42:CIMX11	-3.383	-1.419	-0.350	3.686	0.001	-0.000	-0.001
	43:CIMX12	-3.711	-1.717	-2.225	4.655	0.001	-0.000	-0.001
	44:CIMX13	1.698	-0.829	3.548	4.020	0.002	0.000	-0.001
	45:CIMX14	0.610	-1.818	-2.677	3.292	0.001	0.000	-0.001
	46:CIMX15	-0.479	-0.942	2.750	2.946	0.002	-0.000	-0.001
	47:CIMX16	-1.567	-1.931	-3.475	4.273	0.001	-0.000	-0.001
296	31:CIM	0.066	-3.385	-0.005	3.386	0.003	0.000	0.000
	32:CIMX1	3.818	-2.232	1.682	4.732	0.002	0.000	0.000
	33:CIMX2	-3.413	-2.436	0.204	4.198	0.002	-0.000	0.000
	34:CIMX3	3.491	-2.357	-0.187	4.216	0.002	0.000	0.000
	35:CIMX4	-3.740	-2.561	-1.665	4.829	0.002	-0.000	0.000
	36:CIMX5	1.672	-2.159	3.333	4.308	0.002	0.000	0.000
	37:CIMX6	-0.507	-2.221	2.887	3.677	0.002	0.000	0.000
	38:CIMX7	0.585	-2.572	-2.870	3.898	0.002	0.000	0.000
	39:CIMX8	-1.594	-2.634	-3.315	4.524	0.002	-0.000	0.000
	40:CIMX9	3.845	-3.221	1.669	5.286	0.003	0.000	0.001
	41:CIMX10	3.518	-3.346	-0.200	4.859	0.003	0.000	0.001
	42:CIMX11	-3.386	-3.425	0.190	4.820	0.003	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	43:CIMX12	-3.713	-3.550	-1.678	5.404	0.003	-0.000	0.000
	44:CIMX13	1.699	-3.148	3.319	4.880	0.003	0.000	0.001
	45:CIMX14	0.612	-3.561	-2.884	4.623	0.003	0.000	0.000
	46:CIMX15	-0.480	-3.210	2.874	4.335	0.003	0.000	0.000
	47:CIMX16	-1.567	-3.623	-3.329	5.163	0.003	-0.000	0.000
297	31:CIM	0.066	-2.405	-0.018	2.406	0.002	0.000	0.001
	32:CIMX1	3.817	-1.655	1.546	4.439	0.002	0.000	0.000
	33:CIMX2	-3.412	-1.761	0.273	3.850	0.002	-0.000	0.000
	34:CIMX3	3.490	-1.770	-0.272	3.923	0.002	0.000	0.000
	35:CIMX4	-3.739	-1.876	-1.545	4.460	0.002	-0.000	0.000
	36:CIMX5	1.671	-1.560	3.210	3.941	0.002	0.000	0.000
	37:CIMX6	-0.507	-1.592	2.826	3.283	0.002	-0.000	0.000
	38:CIMX7	0.585	-1.939	-2.826	3.477	0.002	0.000	0.000
	39:CIMX8	-1.593	-1.971	-3.209	4.090	0.002	-0.000	0.000
	40:CIMX9	3.844	-2.295	1.528	4.731	0.002	0.000	0.001
	41:CIMX10	3.517	-2.409	-0.290	4.273	0.002	0.000	0.001
	42:CIMX11	-3.385	-2.401	0.255	4.158	0.002	-0.000	0.000
	43:CIMX12	-3.712	-2.516	-1.564	4.749	0.002	-0.000	0.000
	44:CIMX13	1.698	-2.200	3.192	4.232	0.003	0.000	0.001
	45:CIMX14	0.612	-2.579	-2.844	3.888	0.002	0.000	0.001
	46:CIMX15	-0.480	-2.231	2.808	3.619	0.002	-0.000	0.001
	47:CIMX16	-1.566	-2.611	-3.228	4.437	0.002	-0.000	0.000

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EJE: H-9

COMBO DERX_1

COMBO DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	25.381	1.77	0.190%	33.73	3.109	0.334%
N+7.35	70	7.35	23.611	10.505	0.292%	30.621	15.018	0.417%
N+3.75	46	3.75	13.106	13.106	0.364%	15.603	15.603	0.433%
N+0.15	28	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	-29.663	-2.003	0.215%	-33.329	-2.886	0.310%
N+7.35	70	7.35	-27.66	-14.242	0.396%	-30.443	-14.955	0.415%
N+3.75	46	3.75	-13.418	-13.418	0.373%	-15.488	-15.488	0.430%
N+0.15	28	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	26.197	1.817	0.195%	33.662	3.077	0.331%
N+7.35	70	7.35	24.38	11.217	0.312%	30.585	15.001	0.417%
N+3.75	46	3.75	13.163	13.163	0.366%	15.584	15.584	0.433%
N+0.15	28	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	-28.847	-1.956	0.210%	-33.396	-2.917	0.314%
N+7.35	70	7.35	-26.891	-13.53	0.376%	-30.479	-14.972	0.416%
N+3.75	46	3.75	-13.361	-13.361	0.371%	-15.507	-15.507	0.431%
N+0.15	28	0.15	0			0		

EJE: H-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	55.512	4.504	0.495%	32.348	2.104	0.231%
N+7.35	68	7.35	51.008	26.861	0.746%	30.244	14.619	0.406%
N+3.75	51	3.75	24.147	24.147	0.671%	15.625	15.625	0.434%
N+0.15	33	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	-58.534	-4.632	0.509%	-32.083	-2.346	0.258%
N+7.35	68	7.35	-53.902	-29.969	0.832%	-29.737	-14.146	0.393%
N+3.75	51	3.75	-23.933	-23.933	0.665%	-15.591	-15.591	0.433%
N+0.15	33	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	56.068	4.529	0.498%	32.283	2.139	0.235%
N+7.35	68	7.35	51.539	27.442	0.762%	30.144	14.509	0.403%
N+3.75	51	3.75	24.097	24.097	0.669%	15.635	15.635	0.434%
N+0.15	33	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	-57.978	-4.607	0.506%	-32.148	-2.311	0.254%
N+7.35	68	7.35	-53.371	-29.389	0.816%	-29.837	-14.256	0.396%
N+3.75	51	3.75	-23.982	-23.982	0.666%	-15.581	-15.581	0.433%
N+0.15	33	0.15	0			0		

EJE: J-9
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	26.542	3.216	0.108%	29.541	1.312	0.044%
N+7.35	65	7.35	23.326	10.242	0.285%	28.229	13.586	0.377%
N+3.75	48	3.75	13.084	13.084	0.363%	14.643	14.643	0.407%
N+0.15	30	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	-28.476	-5.417	0.182%	-30.324	-1.871	0.063%
N+7.35	65	7.35	-23.059	-9.665	0.268%	-28.453	-13.587	0.377%
N+3.75	48	3.75	-13.394	-13.394	0.372%	-14.866	-14.866	0.413%
N+0.15	30	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	26.902	3.639	0.123%	29.692	1.417	0.048%
N+7.35	65	7.35	23.263	10.124	0.281%	28.275	13.584	0.377%
N+3.75	48	3.75	13.139	13.139	0.365%	14.691	14.691	0.408%
N+0.15	30	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	-28.116	-4.994	0.168%	-30.173	-1.766	0.059%
N+7.35	65	7.35	-23.122	-9.783	0.272%	-28.407	-13.589	0.377%
N+3.75	48	3.75	-13.339	-13.339	0.371%	-14.818	-14.818	0.412%
N+0.15	30	0.15	0			0		

EJE: J-1
COMBO DERX_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	56.183	10.573	0.352%	29.503	1.596	0.053%
N+7.35	69	7.35	45.61	21.531	0.598%	27.907	13.272	0.369%
N+3.75	52	3.75	24.079	24.079	0.669%	14.635	14.635	0.407%
N+0.15	34	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	-56.998	-12.523	0.417%	-29.108	-1.029	0.034%
N+7.35	69	7.35	-44.475	-20.615	0.573%	-28.079	-13.316	0.370%
N+3.75	52	3.75	-23.86	-23.86	0.663%	-14.763	-14.763	0.410%
N+0.15	34	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	56.311	10.944	0.365%	29.436	1.487	0.050%
N+7.35	69	7.35	45.367	21.341	0.593%	27.949	13.273	0.369%
N+3.75	52	3.75	24.026	24.026	0.667%	14.676	14.676	0.408%
N+0.15	34	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	-56.87	-12.152	0.405%	-29.175	-1.138	0.038%
N+7.35	69	7.35	-44.718	-20.806	0.578%	-28.037	-13.316	0.370%
N+3.75	52	3.75	-23.912	-23.912	0.664%	-14.721	-14.721	0.409%
N+0.15	34	0.15	0			0		



JARDÍN INFANTIL CAMPO VERDE.
MODULO C, UMBRAL DE DAÑO

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 18 abril de 2018

ESPECTRO PARA UMBRAL DE DAÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: **181_JARDIN CAMPO VERDE**

Ciudad: **Bogotá**

CALCULÓ: **JDH**

Sistema Estructural: **PÓRTICOS EN CONCRETO**

Zona Microzonificación: **ALUVIAL 200**

PARÁMETROS SÍSMICOS

$A_d = 0.06$

$F_a = 1.2$

$A_v = 0.20$

$F_v = 2.9$

$A_{0d} = 0.07$

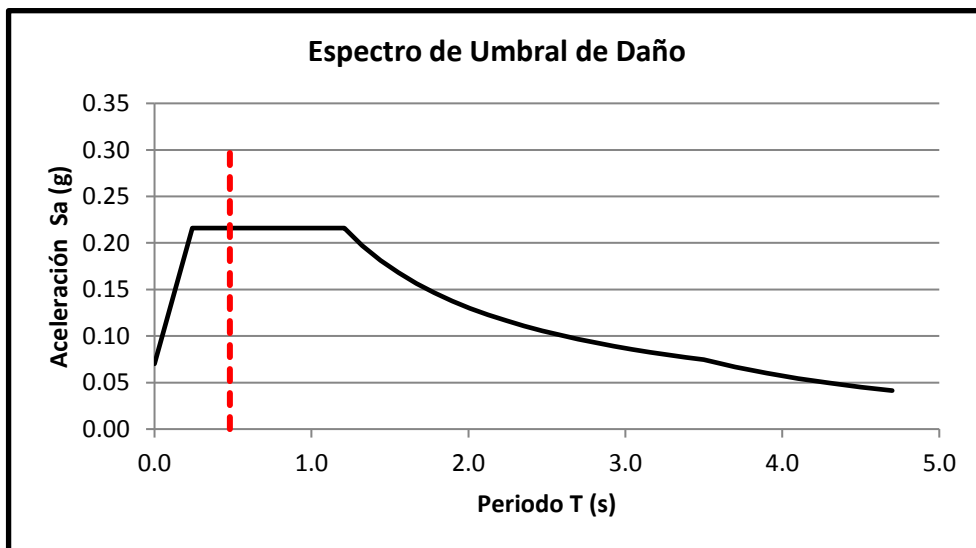
Grupo de Uso **III**

$T_{0d} (s) = 0.242$

$I = 1.25$

$T_{cd} (s) = 1.21$

$T_{ld} (s) = 3.5$



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: **Porticos de concreto**

$h (m) = 10.8$

$T_a (s) = 0.400$

$C_t = 0.047$

$C_u = 1.2$

$\alpha = 0.9$

$C_u * T_a = 0.480 s$

PARA ANÁLISIS DINÁMICO

Periodo calculado, $T_x = 0.710 s$

$T_z = 0.624 s$

Chequeo A.5.4.5 $T < C_u * T_a$: Usar $C_u * T_a$

Usar $C_u * T_a$

$T_x (s) = 0.480$

$T_z (s) = 0.480$

$S_{adx} = 0.216$

$S_{adz} = 0.216$

```
*****
*
*      STAAD.Pro V8i SELECTseries6      *
*      Version  20.07.11.90              *
*      Proprietary Program of            *
*      Bentley Systems, Inc.             *
*      Date=    JUL 12, 2018             *
*      Time=    11:16:45                 *
*
*      USER ID:                          *
*****
```

1. STAAD SPACE DXF IMPORT OF MODULOC.DXF

INPUT FILE: X:\PROYECTOS 2018\181_JARDIN CAMPO VERDE\2. MODELOS\1.CURADURIA\MODULO C_UMBRAL_MAYO02_18.STD

2. START JOB INFORMATION

3. ENGINEER DATE 17-APR-18

4. END JOB INFORMATION

5. INPUT WIDTH 79

6. UNIT METER MTON

7. JOINT COORDINATES

8. 5 -3.04791E-007 0.15 -26.55; 6 -3.04791E-007 0.15 2.15; 7 5.8 0.15 -26.55
9. 8 5.8 0.15 2.15; 9 11.6 0.15 -26.55; 12 11.6 0.15 2.15; 19 11.6 0.15 -14.7
10. 20 11.6 0.15 -9.6; 22 -3.04791E-007 3.75 -26.55; 23 -3.04791E-007 3.75 2.15
11. 24 5.8 3.75 -26.55; 25 5.8 3.75 2.15; 26 11.6 3.75 -26.55
12. 28 -3.04791E-007 0.15 -24.3; 29 11.6 3.75 2.15; 30 11.6 0.15 -24.3
13. 31 -3.04791E-007 0.15 -14.7; 32 -3.04791E-007 0.15 -9.6
14. 33 -3.04791E-007 0.15 2.0546E-007; 34 11.6 0.15 2.0546E-007
15. 35 5.8 0.15 2.0546E-007; 36 11 3.75 -9.6; 37 11 3.75 -14.7; 38 5.8 0.15 -9.6
16. 39 5.8 0.15 -14.7; 42 5.8 0.15 -24.3; 43 11.6 3.75 -14.7; 44 11.6 7.35 -26.55
17. 45 11.6 3.75 -9.6; 46 -3.04791E-007 3.75 -24.3; 47 11.6 7.35 2.15
18. 48 11.6 3.75 -24.3; 49 -3.04791E-007 3.75 -14.7; 50 -3.04791E-007 3.75 -9.6
19. 51 -3.04791E-007 3.75 2.0546E-007; 52 11.6 3.75 2.0546E-007
20. 53 5.8 3.75 2.0546E-007; 54 11 7.35 -9.6; 55 11 7.35 -14.7
21. 56 -3.04791E-007 7.65 -26.55; 57 -3.04791E-007 7.65 2.15; 58 11.6 10.95 -26.55
22. 59 5.8 3.75 -9.6; 60 5.8 3.75 -14.7; 61 11.6 10.95 2.15; 62 5.8 3.75 -24.3
23. 63 11.6 7.35 -14.7; 64 11.6 7.35 -9.6; 65 11.6 7.35 -24.3
24. 66 -3.04791E-007 7.35 -14.7; 67 -3.04791E-007 7.35 -9.6
25. 68 -3.04791E-007 7.35 2.0546E-007; 69 11.6 7.35 2.0546E-007
26. 70 -3.04791E-007 7.35 -24.3; 71 5.8 7.35 -9.6; 72 5.8 7.35 -14.7
27. 73 11.6 7.65 -14.7; 74 11.6 7.65 -9.6; 75 -3.04791E-007 8.25383 1.53876E-007
28. 76 -3.04791E-007 8.27658 -24.3; 77 5.8 9.3 -14.7; 78 5.8 9.3 -9.6
29. 79 5.8 9.90383 7.69381E-008; 80 5.8 9.92658 -24.3; 81 11.6 10.3234 -24.3
30. 82 11.6 10.3462 2.3289E-007; 83 -3.04791E-007 10.95 -14.7
31. 84 -3.04791E-007 10.95 -9.6; 100 9.39747 10.95 -24.3
32. 101 9.47745 10.95 2.81561E-008; 104 5.8 10.95 -3.725; 111 8.43 10.0482 2.15
33. 112 5.62 9.24879 2.15; 113 2.81 8.4494 2.15; 120 11.6 10.0488 -1.059
34. 121 11.6 9.24918 -3.906; 122 11.6 8.44959 -6.753; 125 10.015 10.95 0.545199
35. 138 8.79 8.4494 -9.6; 140 3.17 10.0482 -9.6; 141 -3.04791E-007 8.44958 -0.697
36. 142 -3.04791E-007 9.24917 -3.544; 143 -3.04791E-007 10.0487 -6.391
37. 146 1.5844 10.95 -7.994; 147 2.12255 8.85766 1.2572E-007
38. 148 10.5537 10.6438 1.31965E-007; 151 7.73012 10.4529 5.13347E-008

39. 152 4.92395 9.65461 8.8559E-008; 155 5.8 10.95 -20.625
 40. 162 -3.04791E-007 9.98089 -18.18; 163 -3.04791E-007 9.20392 -20.97
 41. 164 -3.04791E-007 8.42696 -23.76; 183 8.73 8.46646 -14.7
 42. 185 2.99 10.0994 -14.7; 186 8.61 10.0994 -26.55; 187 5.74 9.28293 -26.55
 43. 188 2.87 8.46647 -26.55; 189 11.6 8.42696 -17.49; 190 11.6 9.20391 -20.28
 44. 191 11.6 9.98087 -23.07; 204 4.4 10.95 -19.1948; 205 3 10.95 -17.7647
 45. 206 1.6 10.95 -16.3345; 207 10 10.95 -24.9155; 208 8.6 10.95 -23.4853
 46. 209 7.2 10.95 -22.0552; 210 7.83975 10.5069 -24.3; 211 5.03749 9.70966 -24.3
 47. 212 2.20253 8.90316 -24.3; 213 10.5336 10.6268 -24.3; 214 11.6 0.15 -17.1
 48. 215 -3.04791E-007 0.15 -17.1; 216 -3.04791E-007 0.15 -2.4; 217 11.6 0.15 -2.4
 49. 219 5.8 0.15 -2.4; 220 5.8 0.15 -17.1; 221 11.6 0.15 -19.5
 50. 222 -3.04791E-007 0.15 -19.5; 223 -3.04791E-007 0.15 -4.8; 224 11.6 0.15 -4.8
 51. 226 5.8 0.15 -4.8; 227 5.8 0.15 -19.5; 228 11.6 0.15 -21.9
 52. 229 -3.04791E-007 0.15 -21.9; 230 -3.04791E-007 0.15 -7.2; 231 11.6 0.15 -7.2
 53. 233 5.8 0.15 -7.2; 234 5.8 0.15 -21.9; 235 -3.04791E-007 0.15 -12.15
 54. 236 11.6 0.15 -12.15; 237 5.8 0.15 -12.15; 238 11.6 3.75 -17.1
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 56. 242 5.8 3.75 -2.4; 243 5.8 3.75 -17.1; 244 11.6 3.75 -19.5
 57. 245 -3.04791E-007 3.75 -19.5; 246 -3.04791E-007 3.75 -4.8; 247 11.6 3.75 -4.8
 58. 248 5.8 3.75 -4.8; 249 5.8 3.75 -19.5; 250 11.6 3.75 -21.9
 59. 251 -3.04791E-007 3.75 -21.9; 252 -3.04791E-007 3.75 -7.2; 253 11.6 3.75 -7.2
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 61. 271 7.19608 10.95 -2.31087; 272 4.38586 10.95 -5.15705
 62. 273 2.97178 10.95 -6.58905; 274 8.60135 10.95 -0.88743; 275 1.9 7.35 -14.7
 63. 276 1.9 7.35 -9.6; 277 3.8 7.35 -14.7; 278 3.8 7.35 -9.6; 281 7.6 7.35 -14.7
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 67. MEMBER INCIDENCES
 68. 4 5 28; 5 7 42; 6 9 30; 7 20 231; 8 28 42; 9 31 39; 10 32 38; 11 33 35; 12 6 8
 69. 13 20 236; 14 5 7; 15 22 46; 16 24 62; 17 26 48; 18 45 253; 19 46 62
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 74. 63 70 66; 64 65 63; 65 287 288; 66 67 68; 69 54 64; 70 55 63; 71 56 76
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 76. 90 83 206; 91 84 146; 92 35 8; 93 38 233; 94 39 237; 95 42 234; 96 42 30
 77. 97 39 19; 98 38 20; 99 35 34; 100 53 25; 101 59 254; 102 60 258; 103 62 255
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 79. 123 49 66; 124 34 52; 125 52 69; 126 20 45; 127 45 64; 128 64 74; 129 19 43
 80. 130 43 63; 131 63 73; 132 33 51; 133 51 68; 134 70 76; 135 38 59; 136 32 50
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 82. 144 65 81; 146 66 83; 148 67 84; 150 69 82; 151 69 47; 155 76 212; 156 75 147
 83. 157 100 207; 158 101 125; 159 100 213; 160 101 148; 192 57 147; 193 104 271
 84. 194 104 74; 207 125 61; 208 113 152; 209 271 122; 210 112 151; 211 274 121
 85. 212 111 125; 213 125 148; 229 146 273; 230 141 272; 231 272 138; 232 142 273
 86. 233 273 78; 234 143 146; 235 146 140; 238 147 104; 239 148 120; 240 152 271
 87. 241 151 274; 242 56 212; 243 75 57; 244 82 61; 245 111 61; 246 112 111
 88. 247 113 112; 248 120 82; 249 121 120; 250 122 121; 251 74 138; 254 141 75
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 91. 299 186 207; 300 207 213; 301 187 210; 302 208 190; 303 164 204; 304 204 183
 92. 305 163 205; 306 205 77; 307 162 206; 308 206 185; 309 188 211; 310 209 189
 93. 315 212 155; 316 213 191; 317 210 208; 318 211 209; 325 215 220; 326 216 219
 94. 327 214 220; 329 219 217; 336 222 227; 337 223 226; 338 221 227; 340 226 224

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95. 347 229 234; 348 230 233; 349 228 234; 351 233 231; 355 235 237; 356 237 236
 96. 378 239 243; 379 240 242; 380 238 243; 381 242 241; 382 245 249; 383 246 292
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 98. 395 62 80; 396 60 72; 397 59 71; 398 53 79; 399 77 183; 400 80 210; 401 78 138
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 113. 548 285 291; 549 286 60; 550 287 275; 551 288 276; 552 289 258; 553 290 254
 114. 554 291 59; 555 291 290; 556 292 248; 557 290 292
 115. ELEMENT INCIDENCES SHELL
 116. 161 6 8 35 33; 162 8 12 34 35; 163 33 35 38 32; 164 35 34 20 38
 117. 165 32 38 39 31; 166 38 20 19 39; 167 31 39 42 28; 168 39 19 30 42
 118. 169 28 42 7 5; 170 42 30 9 7; 171 23 25 53 51; 172 25 29 52 53
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 124. 487 74 138 272 104; 488 122 74 104 271; 489 121 122 271 274; 490 61 125 111
 125. 491 125 274 151; 492 82 120 148; 495 57 147 75; 496 61 82 148 125
 126. 497 143 146 84; 498 146 140 84; 499 185 206 83; 500 206 162 83; 501 191 81 213
 127. 502 213 207 100; 503 208 100 210; 504 76 212 56; 505 207 58 186
 128. 506 81 58 207 213; 507 190 191 213 100; 508 190 208 209 189
 129. 509 189 209 155 73; 510 73 155 204 183; 511 183 204 205 77; 512 77 205 206 185
 130. 513 206 205 163 162; 514 205 204 164 163; 515 155 209 211 212
 131. 516 209 208 210 211; 517 211 210 187 188; 518 210 100 207 186
 132. 519 120 121 274 101; 520 148 101 125; 521 210 186 187; 523 148 120 101
 133. 525 76 164 204; 543 212 76 204 155; 544 188 56 212 211; 545 208 190 100
 134. 546 75 147 104; 547 141 75 104 272
 135. START GROUP DEFINITION

WARNING PLATE NO. 525(JOINTS 76 - 164 - 204 - 0)
 IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 547(JOINTS 141 - 75 - 104 - 272)
 IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

136. MEMBER
 137. _COLU 120 TO 144 146 148 150 395 TO 398 404 406
 138. FLOOR
 139. JOINT
 140. END GROUP DEFINITION
 141. ELEMENT PROPERTY
 142. 161 TO 180 191 478 TO 492 495 TO 521 523 525 543 TO 547 THICKNESS 0.12
 143. DEFINE MATERIAL START
 144. ISOTROPIC CONCRETE

DXF IMPORT OF MODULOC.DXF

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145. E 2.48701E+006
146. POISSON 0.17
147. DENSITY 2.40262
148. ALPHA 1E-005
149. DAMP 0.05
150. G 946439
151. TYPE CONCRETE
152. TYPE CONCRETE
153. STRENGTH FCU 2812.28
154. STRENGTH FCU 2812.28
155. ISOTROPIC DIAFRAGMA
156. E 2.48701E+006
157. POISSON 0.17
158. DENSITY 0.0001
159. ALPHA 1E-005
160. DAMP 0.05
161. G 946439
162. TYPE CONCRETE
163. STRENGTH FCU 2812.28
164. ISOTROPIC CONC28
165. E 2.487E+006
166. POISSON 0.17
167. DENSITY 2.40262
168. ALPHA 1E-005
169. DAMP 0.05
170. G 946439
171. TYPE CONCRETE
172. STRENGTH FCU 2812.28
173. END DEFINE MATERIAL
174. MEMBER PROPERTY AMERICAN
175. 8 TO 11 19 TO 22 46 47 50 51 53 54 57 63 TO 66 69 70 96 TO 99 104 TO 107 151 -
176. 403 405 528 529 531 532 536 TO 538 540 541 548 TO 551 -
177. 554 PRIS YD 0.6 ZD 0.4
178. 12 14 23 25 28 29 38 39 PRIS YD 0.6 ZD 0.2
179. 76 77 245 TO 247 461 TO 463 PRIS YD 0.6 ZD 0.2
180. 71 72 74 75 87 89 155 156 159 160 243 244 248 TO 251 254 TO 256 258 259 399 -
181. 400 TO 401 451 TO 460 464 TO 468 470 471 473 PRIS YD 0.7 ZD 0.4
182. MEMBER PROPERTY AMERICAN
183. 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 TO 318 530 533 -
184. 539 542 PRIS YD 0.5 ZD 0.15
185. 135 140 396 397 404 406 PRIS YD 0.5
186. MEMBER PROPERTY AMERICAN
187. 120 TO 134 136 TO 139 141 TO 144 146 148 150 395 398 PRIS YD 0.5 ZD 0.6
188. MEMBER PROPERTY AMERICAN
189. 325 TO 327 329 336 TO 338 340 347 TO 349 351 355 356 378 TO 386 388 389 391 -
190. 552 553 555 TO 557 PRIS YD 0.5 ZD 0.15
191. MEMBER PROPERTY AMERICAN
192. 90 91 157 158 193 207 229 261 293 TO 298 474 TO 477 PRIS YD 0.6 ZD 0.3
193. MEMBER PROPERTY AMERICAN
194. 5 15 TO 18 24 40 TO 45 92 TO 95 100 TO 103 411 TO 414 425 TO 447 -
195. 448 PRIS YD 0.6 ZD 0.5
196. MEMBER PROPERTY AMERICAN
197. 4 6 7 13 30 TO 35 407 TO 410 415 TO 424 PRIS YD 0.6 ZD 0.65
198. CONSTANTS
199. BETA 0 MEMB 4 TO 25 28 TO 35 38 TO 47 50 51 53 54 57 63 TO 66 69 TO 72 74 -
200. 75 TO 77 87 89 TO 107 120 TO 144 146 148 150 151 155 TO 160 192 TO 194 207 -

DXF IMPORT OF MODULOC.DXF

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201. 208 TO 213 229 TO 235 238 TO 251 254 TO 256 258 259 261 262 293 TO 310 315 -
202. 316 TO 318 325 TO 327 329 336 TO 338 340 347 TO 349 351 355 356 378 TO 386 -
203. 388 389 391 395 TO 401 403 TO 448 451 TO 468 470 471 473 TO 477 528 TO 533 -
204. 536 TO 542
205. MATERIAL CONC28 MEMB 4 TO 11 13 15 TO 22 24 30 TO 35 40 TO 47 50 51 53 54 -
206. 57 63 TO 66 69 TO 72 74 TO 77 87 89 TO 107 120 TO 144 146 148 150 151 155 -
207. 156 TO 160 192 TO 194 207 TO 213 229 TO 235 238 TO 251 254 TO 256 258 259 -
208. 261 262 293 TO 310 315 TO 318 325 TO 327 329 336 TO 338 340 347 TO 349 351 -
209. 355 356 378 TO 386 388 389 391 395 TO 401 403 TO 448 451 TO 468 470 471 473 -
210. 474 TO 477 528 TO 533 536 TO 542 548 TO 557
211. MATERIAL DIAFRAGMA MEMB 161 TO 180 191 478 TO 492 495 TO 521 523 525 543 TO 547
212. MATERIAL CONCRETE MEMB 12 14 23 25 28 29 38 39
213. ELEMENT PLANE STRESS
214. 161 TO 180 191
215. MEMBER RELEASE
216. 42 65 76 77 194 209 211 230 TO 235 262 302 TO 308 310 325 TO 327 329 -
217. 336 TO 338 340 347 TO 349 351 355 356 378 TO 386 388 389 391 431 530 533 -
218. 539 542 552 553 555 START MX MY MZ
219. 42 65 194 209 211 230 TO 235 238 240 241 245 262 302 TO 308 310 315 317 318 -
220. 325 TO 327 329 336 TO 338 340 347 TO 349 351 355 356 378 TO 382 384 TO 386 -
221. 388 389 391 431 461 530 533 539 542 552 553 556 557 END MX MY MZ
222. SUPPORTS
223. 19 20 28 30 TO 35 38 39 42 FIXED
224. CUT OFF MODE SHAPE 40
225. LOAD 1 LOADTYPE DEAD TITLE DEAD
226. MEMBER LOAD
227. 50 51 53 54 63 64 66 151 403 405 528 529 531 532 537 538 540 541 550 -
228. 551 UNI GY -0.33
229. MEMBER LOAD
230. 16 100 101 103 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 -
231. 316 TO 318 442 TO 444 446 TO 448 UNI Y -1.04
232. MEMBER LOAD
233. 7 13 15 17 18 23 TO 25 30 31 33 38 TO 41 43 TO 47 93 95 407 TO 437 -
234. 439 TO 441 555 557 UNI GY -0.5
235. 4 TO 6 34 35 92 UNI GY -1.
236. 8 TO 11 19 TO 22 46 47 96 TO 99 104 TO 107 325 TO 327 329 336 TO 338 340 347 -
237. 348 TO 349 351 355 356 378 TO 386 388 389 391 548 549 552 TO 554 -
238. 556 UNI GY -1.17
239. 12 14 28 29 UNI GY -1.7
240. 57 65 530 533 536 539 542 UNI GY -1.
241. 53 54 69 70 403 405 528 529 531 532 537 538 540 541 550 551 UNI GY -0.63
242. SELFWEIGHT Y -1
243. MEMBER LOAD
244. 12 14 23 25 28 29 38 39 UNI GY -0.7
245. 32 42 UNI GY -2.8
246. 337 UNI GY -2.3
247. 548 UNI GY -1.53 0 1.5
248. 10 UNI GY -1.53 2.9 4.4
249. LOAD 2 LOADTYPE LIVE TITLE LIVE
250. MEMBER LOAD
251. 8 TO 11 19 TO 22 46 47 96 TO 99 104 TO 107 325 TO 327 329 336 TO 338 340 347 -
252. 348 TO 349 351 355 356 378 TO 386 388 389 391 548 549 552 TO 554 -
253. 556 UNI GY -0.44
254. 12 14 23 25 28 29 38 39 UNI GY -0.24
255. 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 TO 318 530 533 -
256. 536 539 542 UNI GY -0.36

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257. 57 65 UNI GY -0.18
258. 32 42 UNI GY -1.4
259. 337 UNI GY -1.03
260. 548 UNI GY -1.03 0 1.5
261. 10 UNI GY -1.03 2.9 4.4
262. LOAD 3 LOADTYPE SEISMIC TITLE EQX
263. SPECTRUM CQC X 1 ACC SCALE 9.81 DAMP 0.05 LIN
264. 0 0.07; 0.242 0.216; 1.21 0.216; 1.325 0.197; 1.439 0.181; 1.554 0.168
265. 1.668 0.156; 1.783 0.146; 1.897 0.138; 2.012 0.13; 2.126 0.123; 2.241 0.116
266. 2.355 0.111; 2.47 0.106; 2.584 0.101; 2.699 0.097; 2.813 0.093; 2.928 0.089
267. 3.042 0.086; 3.157 0.083; 3.271 0.08; 3.386 0.077; 3.5 0.075; 3.7 0.067
268. 3.9 0.06; 4.1 0.054; 4.3 0.049; 4.5 0.045; 4.7 0.041
269. MEMBER LOAD
270. 50 51 53 54 63 64 66 151 403 405 528 529 531 532 537 538 540 541 550 -
271. 551 UNI GX 0.33
272. MEMBER LOAD
273. 16 100 101 103 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 -
274. 316 TO 318 442 TO 444 446 TO 448 UNI X 1.04
275. MEMBER LOAD
276. 7 13 15 17 18 23 TO 25 30 31 33 38 TO 47 93 95 407 TO 437 439 TO 441 555 -
277. 557 UNI GX 0.5
278. 4 TO 6 34 35 92 UNI GX 1
279. 8 TO 11 19 TO 22 46 47 96 TO 99 104 TO 107 325 TO 327 329 336 TO 338 340 347 -
280. 348 TO 349 351 355 356 378 TO 386 388 389 391 548 549 552 TO 554 -
281. 556 UNI GX 1.43
282. 12 14 28 29 UNI GX 1.7
283. 57 65 530 533 536 539 542 UNI GX 1
284. 53 54 69 70 403 405 528 529 531 532 537 538 540 541 550 551 UNI GX 0.63
285. MEMBER LOAD
286. 12 14 23 25 28 29 38 39 UNI GX 0.7
287. 32 42 UNI GX 2.75
288. SELFWEIGHT X 1
289. MEMBER LOAD
290. 50 51 53 54 63 64 66 151 403 405 528 529 531 532 537 538 540 541 550 -
291. 551 UNI GZ 0.33
292. MEMBER LOAD
293. 16 100 101 103 192 194 208 TO 213 230 TO 235 238 TO 242 262 299 TO 310 315 -
294. 316 TO 318 442 TO 444 446 TO 448 UNI Z 1.04
295. MEMBER LOAD
296. 7 13 15 17 18 23 TO 25 30 TO 33 38 TO 47 93 95 407 TO 437 439 TO 441 555 -
297. 557 UNI GZ 0.5
298. 4 TO 6 34 35 92 UNI GZ 1
299. 8 TO 11 19 TO 22 46 47 96 TO 99 104 TO 107 325 TO 327 329 336 TO 338 340 347 -
300. 348 TO 349 351 355 356 378 TO 386 388 389 391 548 549 552 TO 554 -
301. 556 UNI GZ 1.43
302. 12 14 28 29 UNI GZ 1.7
303. 57 65 530 533 536 539 542 UNI GZ 1
304. 53 54 69 70 403 405 528 529 531 532 537 538 540 541 550 551 UNI GZ 0.63
305. MEMBER LOAD
306. 12 14 23 25 28 29 38 39 UNI GZ 0.7
307. 32 42 UNI GZ 2.75
308. SELFWEIGHT Z 1
309. LOAD 4 LOADTYPE SEISMIC TITLE EQZ
310. SPECTRUM CQC Z 1 ACC SCALE 9.81 DAMP 0.05 LIN
311. *COMBINACIONES DERIVAS
312. 0 0.07; 0.242 0.216; 1.21 0.216; 1.325 0.197; 1.439 0.181; 1.554 0.168

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313. 1.668 0.156; 1.783 0.146; 1.897 0.138; 2.012 0.13; 2.126 0.123; 2.241 0.116
314. 2.355 0.111; 2.47 0.106; 2.584 0.101; 2.699 0.097; 2.813 0.093; 2.928 0.089
315. 3.042 0.086; 3.157 0.083; 3.271 0.08; 3.386 0.077; 3.5 0.075; 3.7 0.067
316. 3.9 0.06; 4.1 0.054; 4.3 0.049; 4.5 0.045; 4.7 0.041
317. LOAD COMB 5 DERX1
318. 1 1.2 2 1.0 3 0.8
319. LOAD COMB 6 DERX2
320. 1 1.2 2 1.0 3 -0.8
321. LOAD COMB 7 DERZ1
322. 1 1.2 2 1.0 4 0.8
323. LOAD COMB 8 DERZ2
324. 1 1.2 2 1.0 4 -0.8
325. LOAD COMB 9 DERX3
326. 1 0.9 3 0.8
327. LOAD COMB 10 DERX4
328. 1 0.9 3 -0.8
329. LOAD COMB 11 DERZ3
330. 1 0.9 4 0.8
331. LOAD COMB 12 DERZ4
332. 1 0.9 4 -0.8
333. *COMBINACIONES DISENO
334. LOAD COMB 13 COM1
335. 1 1.4
336. LOAD COMB 14 COM2
337. 1 1.2 2 1.6
338. LOAD COMB 15 COM3
339. 1 1.2 2 1.0 3 0.22 4 0.067
340. LOAD COMB 16 COM4
341. 1 1.2 2 1.0 3 0.22 4 -0.067
342. LOAD COMB 17 COM5
343. 1 1.2 2 1.0 3 -0.22 4 -0.067
344. LOAD COMB 18 COM6
345. 1 1.2 2 1.0 3 -0.22 4 0.067
346. LOAD COMB 19 COM7
347. 1 1.2 2 1.0 3 0.067 4 0.22
348. LOAD COMB 20 COM8
349. 1 1.2 2 1.0 3 0.067 4 -0.22
350. LOAD COMB 21 COM9
351. 1 1.2 2 1.0 3 -0.067 4 -0.22
352. LOAD COMB 22 COM10
353. 1 1.2 2 1.0 3 -0.067 4 0.22
354. LOAD COMB 23 COM11
355. 1 0.9 3 0.22 4 0.067
356. LOAD COMB 24 COM12
357. 1 0.9 3 0.22 4 -0.067
358. LOAD COMB 25 COM13
359. 1 0.9 3 -0.22 4 -0.067
360. LOAD COMB 26 COM14
361. 1 0.9 3 -0.22 4 0.067
362. LOAD COMB 27 COM15
363. 1 0.9 3 0.067 4 0.22
364. LOAD COMB 28 COM16
365. 1 0.9 3 0.067 4 -0.22
366. LOAD COMB 29 COM17
367. 1 0.9 3 -0.067 4 -0.22
368. LOAD COMB 30 COM18

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369. 1 0.9 3 -0.067 4 0.22
370. *COMBINACIONES CIMENTACION
371. LOAD COMB 31 CIM
372. 1 1.0 2 1.0
373. LOAD COMB 32 CIMX1
374. 1 0.9 3 0.156 4 0.047
375. LOAD COMB 33 CIMX2
376. 1 0.9 3 -0.156 4 0.047
377. LOAD COMB 34 CIMX3
378. 1 0.9 3 0.156 4 -0.047
379. LOAD COMB 35 CIMX4
380. 1 0.9 3 -0.156 4 -0.047
381. LOAD COMB 36 CIMX5
382. 1 0.9 3 0.047 4 0.156
383. LOAD COMB 37 CIMX6
384. 1 0.9 3 -0.047 4 0.156
385. LOAD COMB 38 CIMX7
386. 1 0.9 3 0.047 4 -0.156
387. LOAD COMB 39 CIMX8
388. 1 0.9 3 -0.047 4 -0.156
389. LOAD COMB 40 CIMX9
390. 3 0.156 4 0.047 1 1.0 2 1.0
391. LOAD COMB 41 CIMX10
392. 3 0.156 4 -0.047 1 1.0 2 1.0
393. LOAD COMB 42 CIMX11
394. 3 -0.156 4 0.047 1 1.0 2 1.0
395. LOAD COMB 43 CIMX12
396. 3 -0.156 4 -0.047 1 1.0 2 1.0
397. LOAD COMB 44 CIMX13
398. 3 0.047 4 0.156 1 1.0 2 1.0
399. LOAD COMB 45 CIMX14
400. 3 0.047 4 -0.156 1 1.0 2 1.0
401. LOAD COMB 46 CIMX15
402. 3 -0.047 4 0.156 1 1.0 2 1.0
403. LOAD COMB 47 CIMX16
404. 3 -0.047 4 -0.156 1 1.0 2 1.0
405. PERFORM ANALYSIS

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P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	171	NUMBER OF MEMBERS	299
NUMBER OF PLATES	70	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	12

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

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ORIGINAL/FINAL BAND-WIDTH= 132/ 36/ 204 DOF
TOTAL PRIMARY LOAD CASES = 4, TOTAL DEGREES OF FREEDOM = 954
TOTAL LOAD COMBINATION CASES = 43 SO FAR.
SIZE OF STIFFNESS MATRIX = 195 DOUBLE KILO-WORDS

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Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
5	5:DERX1	0.007	1.125	0.000	1.125	0.000	0.000	-0.000
	6:DERX2	-0.008	-4.041	-0.000	4.041	-0.002	-0.000	-0.002
	7:DERZ1	0.001	4.976	0.000	4.976	0.002	0.000	-0.001
	8:DERZ2	-0.001	-7.893	-0.000	7.893	-0.004	-0.000	-0.002
	9:DERX3	0.007	1.435	0.000	1.435	0.000	0.000	0.000
	10:DERX4	-0.008	-3.731	-0.000	3.731	-0.002	-0.000	-0.002
	11:DERZ3	0.001	5.287	0.000	5.287	0.002	0.000	-0.001
	12:DERZ4	-0.001	-7.582	-0.000	7.582	-0.004	-0.000	-0.001
6	5:DERX1	0.007	0.843	0.000	0.843	0.002	0.000	0.001
	6:DERX2	-0.007	-3.098	-0.000	3.098	-0.000	-0.000	-0.003
	7:DERZ1	0.001	5.127	0.000	5.127	0.004	0.000	-0.001
	8:DERZ2	-0.001	-7.383	-0.000	7.383	-0.002	-0.000	-0.001
	9:DERX3	0.007	0.915	0.000	0.915	0.002	0.000	0.001
	10:DERX4	-0.007	-3.026	-0.000	3.026	-0.000	-0.000	-0.003
	11:DERZ3	0.001	5.199	0.000	5.199	0.004	0.000	-0.001
	12:DERZ4	-0.001	-7.310	-0.000	7.310	-0.002	-0.000	-0.001
7	5:DERX1	0.003	-2.773	0.000	2.773	-0.002	0.000	0.000
	6:DERX2	-0.004	-5.756	-0.000	5.756	-0.003	-0.000	-0.000
	7:DERZ1	0.001	2.756	0.000	2.756	0.001	0.000	0.000
	8:DERZ2	-0.001	-11.286	-0.000	11.286	-0.006	-0.000	-0.000
	9:DERX3	0.003	-1.719	0.000	1.719	-0.001	0.000	0.000
	10:DERX4	-0.004	-4.701	-0.000	4.701	-0.003	-0.000	-0.000
	11:DERZ3	0.001	3.811	0.000	3.811	0.001	0.000	0.000
	12:DERZ4	-0.001	-10.231	-0.000	10.231	-0.005	-0.000	-0.000
8	5:DERX1	0.003	-1.347	0.000	1.347	0.003	0.000	0.000
	6:DERX2	-0.003	-4.209	-0.000	4.209	0.001	-0.000	-0.000
	7:DERZ1	0.001	3.992	0.000	3.992	0.005	0.000	0.000
	8:DERZ2	-0.001	-9.548	-0.000	9.548	-0.001	-0.000	-0.000
	9:DERX3	0.003	-1.015	0.000	1.015	0.002	0.000	0.000
	10:DERX4	-0.003	-3.877	-0.000	3.877	0.001	-0.000	-0.000
	11:DERZ3	0.001	4.324	0.000	4.324	0.005	0.000	0.000
	12:DERZ4	-0.001	-9.216	-0.000	9.216	-0.002	-0.000	-0.000
9	5:DERX1	0.007	0.808	0.000	0.808	0.000	0.000	0.002
	6:DERX2	-0.008	-3.798	-0.000	3.798	-0.002	-0.000	-0.000
	7:DERZ1	0.001	4.639	0.000	4.639	0.002	0.000	0.001
	8:DERZ2	-0.001	-7.630	-0.000	7.630	-0.004	-0.000	0.001
	9:DERX3	0.007	1.132	0.000	1.132	0.000	0.000	0.002
	10:DERX4	-0.008	-3.474	-0.000	3.474	-0.002	-0.000	-0.000
	11:DERZ3	0.001	4.963	0.000	4.963	0.002	0.000	0.001
	12:DERZ4	-0.001	-7.305	-0.000	7.305	-0.003	-0.000	0.001
12	5:DERX1	0.007	0.851	0.000	0.851	0.002	0.000	0.003
	6:DERX2	-0.007	-2.852	-0.000	2.852	-0.000	-0.000	-0.001
	7:DERZ1	0.001	4.769	0.000	4.769	0.003	0.000	0.001
	8:DERZ2	-0.001	-6.770	-0.000	6.770	-0.002	-0.000	0.001
	9:DERX3	0.007	0.985	0.000	0.985	0.001	0.000	0.003
	10:DERX4	-0.007	-2.718	-0.000	2.718	-0.000	-0.000	-0.001
	11:DERZ3	0.001	4.903	0.000	4.903	0.003	0.000	0.001
	12:DERZ4	-0.001	-6.636	-0.000	6.636	-0.002	-0.000	0.000
19	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.003
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
20	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.003
	6:DERX2	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.000
22	5:DERX1	13.753	2.878	6.937	15.670	0.001	0.001	0.001
	6:DERX2	-14.131	-4.874	-6.820	16.430	-0.002	-0.001	-0.002
	7:DERZ1	3.314	7.153	15.608	17.486	0.003	0.000	-0.000
	8:DERZ2	-3.691	-9.150	-15.491	18.366	-0.004	-0.000	-0.001
	9:DERX3	13.823	3.178	6.918	15.781	0.001	0.001	0.001
	10:DERX4	-14.061	-4.573	-6.839	16.291	-0.002	-0.001	-0.002
	11:DERZ3	3.383	7.454	15.589	17.607	0.003	0.000	-0.000
	12:DERZ4	-3.621	-8.849	-15.510	18.220	-0.004	-0.000	-0.001
23	5:DERX1	25.900	1.231	6.701	26.781	0.002	0.001	0.002
	6:DERX2	-25.649	-4.641	-6.668	26.905	-0.000	-0.001	-0.003
	7:DERZ1	3.811	6.226	15.629	17.250	0.004	0.000	-0.000
	8:DERZ2	-3.559	-9.636	-15.596	18.675	-0.003	-0.000	-0.001
	9:DERX3	25.843	1.915	6.711	26.769	0.002	0.001	0.002
	10:DERX4	-25.706	-3.957	-6.658	26.847	-0.001	-0.001	-0.003
	11:DERZ3	3.754	6.910	15.639	17.505	0.004	0.000	0.000
	12:DERZ4	-3.617	-8.952	-15.586	18.334	-0.003	-0.000	-0.001
24	5:DERX1	13.749	-0.334	3.183	14.116	-0.000	0.001	0.000
	6:DERX2	-14.128	-3.455	-3.225	14.898	-0.002	-0.001	-0.000
	7:DERZ1	3.301	5.449	15.075	16.366	0.002	0.000	0.000
	8:DERZ2	-3.681	-9.238	-15.118	18.096	-0.004	-0.000	-0.000
	9:DERX3	13.818	0.269	3.195	14.185	-0.000	0.001	0.000
	10:DERX4	-14.059	-2.851	-3.213	14.700	-0.001	-0.001	-0.000
	11:DERZ3	3.371	6.053	15.088	16.603	0.003	0.000	0.000
	12:DERZ4	-3.612	-8.634	-15.105	17.770	-0.004	-0.000	-0.000
25	5:DERX1	25.874	-0.121	3.180	26.069	0.002	0.001	0.000
	6:DERX2	-25.628	-3.081	-3.253	26.017	0.000	-0.001	-0.000
	7:DERZ1	3.807	5.239	15.058	16.392	0.004	0.000	0.000
	8:DERZ2	-3.561	-8.441	-15.131	17.688	-0.002	-0.000	0.000
	9:DERX3	25.817	0.428	3.212	26.020	0.001	0.001	0.000
	10:DERX4	-25.685	-2.531	-3.222	26.010	-0.000	-0.001	-0.000
	11:DERZ3	3.750	5.789	15.089	16.591	0.004	0.000	0.000
	12:DERZ4	-3.617	-7.891	-15.100	17.417	-0.003	-0.000	-0.000
26	5:DERX1	13.740	2.537	6.290	15.323	0.001	0.001	0.002
	6:DERX2	-14.124	-4.580	-6.517	16.216	-0.002	-0.001	-0.000
	7:DERZ1	3.288	7.389	14.644	16.729	0.003	0.000	0.001
	8:DERZ2	-3.672	-9.433	-14.870	17.989	-0.004	-0.000	0.000
	9:DERX3	13.810	2.851	6.339	15.461	0.001	0.001	0.002
	10:DERX4	-14.054	-4.266	-6.468	16.049	-0.002	-0.001	-0.001
	11:DERZ3	3.358	7.703	14.693	16.926	0.003	0.000	0.001
	12:DERZ4	-3.602	-9.118	-14.822	17.771	-0.004	-0.000	0.000
28	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.001
29	5:DERX1	25.848	2.164	6.146	26.657	0.002	0.001	0.003
	6:DERX2	-25.611	-3.808	-6.271	26.641	-0.001	-0.001	-0.001
	7:DERZ1	3.801	6.973	14.639	16.654	0.004	0.000	0.001
	8:DERZ2	-3.564	-8.617	-14.764	17.463	-0.003	-0.000	0.000
	9:DERX3	25.793	2.415	6.187	26.634	0.002	0.001	0.002
	10:DERX4	-25.667	-3.556	-6.230	26.650	-0.001	-0.001	-0.001
	11:DERZ3	3.745	7.224	14.680	16.785	0.004	0.000	0.001
	12:DERZ4	-3.619	-8.365	-14.723	17.316	-0.003	-0.000	0.000
30	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
31	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.001	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
32	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	0.000	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.000	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
33	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.003
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.004
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	-0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.001
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.003
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.004
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.001
34	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.004
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.004
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.003
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.001
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
35	5:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.002
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.004	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.002
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.002
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
36	5:DERX1	17.400	1.114	5.694	18.342	0.001	0.001	0.003
	6:DERX2	-17.250	-2.207	-5.845	18.346	-0.001	-0.001	-0.002
	7:DERZ1	2.784	-0.245	14.661	14.925	0.001	0.000	0.001
	8:DERZ2	-2.634	-0.848	-14.812	15.068	-0.001	-0.000	-0.000
	9:DERX3	17.363	1.298	5.735	18.332	0.001	0.001	0.003
	10:DERX4	-17.286	-2.023	-5.804	18.346	-0.001	-0.001	-0.002
	11:DERZ3	2.748	-0.061	14.702	14.957	0.001	0.000	0.001
	12:DERZ4	-2.671	-0.664	-14.771	15.025	-0.001	-0.000	-0.000
37	5:DERX1	14.617	0.798	5.721	15.717	0.001	0.001	0.002
	6:DERX2	-14.585	-1.927	-5.893	15.848	-0.001	-0.001	-0.002
	7:DERZ1	2.677	-0.351	14.660	14.907	0.001	0.000	0.001
	8:DERZ2	-2.645	-0.778	-14.832	15.086	-0.001	-0.000	0.000
	9:DERX3	14.605	0.990	5.764	15.733	0.001	0.001	0.002
	10:DERX4	-14.597	-1.735	-5.849	15.821	-0.001	-0.001	-0.002
	11:DERZ3	2.665	-0.159	14.704	14.944	0.001	0.000	0.000
	12:DERZ4	-2.656	-0.586	-14.789	15.037	-0.001	-0.000	-0.000
38	5:DERX1	0.000	0.000	0.000	0.000	0.002	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	0.002	-0.000	-0.000
	7:DERZ1	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	0.001	-0.000	-0.000
	11:DERZ3	0.000	0.000	0.000	0.000	0.002	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	0.000	-0.000	-0.000
39	5:DERX1	0.000	0.000	0.000	0.000	-0.001	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	7:DERZ1	0.000	0.000	0.000	0.000	-0.001	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	-0.001	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	-0.000	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.002	-0.000	-0.000
42	5:DERX1	0.000	0.000	0.000	0.000	0.001	0.000	0.001
	6:DERX2	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	7:DERZ1	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	8:DERZ2	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
	9:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	10:DERX4	0.000	0.000	0.000	0.000	-0.001	-0.000	-0.001
	11:DERZ3	0.000	0.000	0.000	0.000	0.003	0.000	0.000
	12:DERZ4	0.000	0.000	0.000	0.000	-0.003	-0.000	-0.000
43	5:DERX1	14.620	-0.256	6.245	15.900	0.001	0.001	0.003
	6:DERX2	-14.584	-0.563	-6.467	15.964	-0.002	-0.001	-0.003
	7:DERZ1	2.678	-0.362	14.580	14.828	0.003	0.000	0.001
	8:DERZ2	-2.642	-0.458	-14.803	15.044	-0.004	-0.000	-0.000
	9:DERX3	14.608	-0.120	6.296	15.907	0.001	0.001	0.003
	10:DERX4	-14.597	-0.427	-6.416	15.950	-0.002	-0.001	-0.003
	11:DERZ3	2.666	-0.225	14.631	14.874	0.003	0.000	0.001
	12:DERZ4	-2.655	-0.321	-14.751	14.992	-0.004	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
44	5:DERX1	25.077	1.406	13.067	28.312	0.001	0.002	0.002
	6:DERX2	-24.760	-2.813	-13.267	28.231	-0.001	-0.002	-0.002
	7:DERZ1	7.521	3.614	28.243	29.449	0.002	0.000	0.001
	8:DERZ2	-7.204	-5.022	-28.442	29.767	-0.002	-0.000	-0.001
	9:DERX3	25.008	1.648	13.109	28.284	0.001	0.002	0.002
	10:DERX4	-24.828	-2.571	-13.225	28.248	-0.001	-0.002	-0.002
	11:DERZ3	7.452	3.856	28.285	29.503	0.002	0.000	0.001
	12:DERZ4	-7.272	-4.779	-28.401	29.704	-0.002	-0.000	-0.001
45	5:DERX1	17.402	-0.126	6.153	18.458	0.002	0.001	0.004
	6:DERX2	-17.247	-0.690	-6.278	18.367	-0.001	-0.001	-0.004
	7:DERZ1	2.787	-0.347	14.593	14.861	0.004	0.000	0.001
	8:DERZ2	-2.632	-0.470	-14.718	14.959	-0.003	-0.000	-0.001
	9:DERX3	17.365	0.009	6.191	18.436	0.002	0.001	0.004
	10:DERX4	-17.285	-0.555	-6.240	18.385	-0.001	-0.001	-0.004
	11:DERZ3	2.749	-0.211	14.631	14.888	0.004	0.000	0.001
	12:DERZ4	-2.669	-0.334	-14.680	14.924	-0.003	-0.000	-0.001
46	5:DERX1	13.104	-0.261	6.937	14.830	0.002	0.001	0.003
	6:DERX2	-13.420	-0.465	-6.820	15.061	-0.002	-0.001	-0.003
	7:DERZ1	3.095	-0.264	15.604	15.911	0.004	0.000	0.001
	8:DERZ2	-3.411	-0.462	-15.487	15.865	-0.003	-0.000	-0.001
	9:DERX3	13.162	-0.139	6.918	14.870	0.002	0.001	0.003
	10:DERX4	-13.362	-0.344	-6.839	15.015	-0.002	-0.001	-0.003
	11:DERZ3	3.153	-0.142	15.585	15.901	0.004	0.000	0.001
	12:DERZ4	-3.353	-0.340	-15.506	15.868	-0.003	-0.000	-0.001
47	5:DERX1	48.896	1.490	13.172	50.661	0.001	0.002	0.006
	6:DERX2	-47.596	-2.818	-13.368	49.518	-0.001	-0.002	-0.006
	7:DERZ1	7.517	3.246	27.897	29.073	0.002	0.000	0.001
	8:DERZ2	-6.217	-4.574	-28.093	29.134	-0.002	-0.000	-0.001
	9:DERX3	48.623	1.726	13.217	50.417	0.001	0.002	0.006
	10:DERX4	-47.868	-2.582	-13.323	49.755	-0.001	-0.002	-0.006
	11:DERZ3	7.245	3.482	27.942	29.075	0.002	0.000	0.001
	12:DERZ4	-6.490	-4.338	-28.048	29.113	-0.002	-0.000	-0.001
48	5:DERX1	13.082	-0.297	6.288	14.518	0.002	0.001	0.003
	6:DERX2	-13.396	-0.453	-6.515	14.903	-0.001	-0.001	-0.002
	7:DERZ1	3.086	-0.219	14.641	14.964	0.004	0.000	0.001
	8:DERZ2	-3.399	-0.530	-14.868	15.261	-0.003	-0.000	-0.001
	9:DERX3	13.138	-0.172	6.337	14.587	0.002	0.001	0.002
	10:DERX4	-13.340	-0.328	-6.466	14.828	-0.001	-0.001	-0.002
	11:DERZ3	3.142	-0.095	14.690	15.022	0.004	0.000	0.001
	12:DERZ4	-3.344	-0.406	-14.819	15.197	-0.004	-0.000	-0.001
49	5:DERX1	14.609	-0.361	6.860	16.144	0.002	0.001	0.003
	6:DERX2	-14.593	-0.575	-6.768	16.097	-0.003	-0.001	-0.004
	7:DERZ1	2.666	-0.329	15.588	15.818	0.004	0.000	0.000
	8:DERZ2	-2.650	-0.608	-15.497	15.734	-0.005	-0.000	-0.001
	9:DERX3	14.602	-0.179	6.849	16.129	0.002	0.001	0.003
	10:DERX4	-14.601	-0.393	-6.779	16.103	-0.002	-0.001	-0.003
	11:DERZ3	2.659	-0.147	15.578	15.803	0.004	0.000	0.001
	12:DERZ4	-2.658	-0.426	-15.508	15.740	-0.004	-0.000	-0.001
50	5:DERX1	17.394	-0.187	6.773	18.667	0.003	0.001	0.003
	6:DERX2	-17.264	-0.746	-6.682	18.527	-0.001	-0.001	-0.004
	7:DERZ1	2.774	-0.370	15.613	15.862	0.005	0.000	0.000
	8:DERZ2	-2.644	-0.563	-15.521	15.755	-0.003	-0.000	-0.001
	9:DERX3	17.363	-0.010	6.764	18.635	0.002	0.001	0.004
	10:DERX4	-17.295	-0.569	-6.690	18.553	-0.001	-0.001	-0.004

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	2.743	-0.193	15.604	15.845	0.005	0.000	0.000
	12:DERZ4	-2.675	-0.386	-15.530	15.763	-0.004	-0.000	-0.001
51	5:DERX1	24.146	-0.264	6.698	25.059	0.002	0.001	0.005
	6:DERX2	-23.934	-0.585	-6.666	24.852	-0.002	-0.001	-0.005
	7:DERZ1	3.538	-0.324	15.624	16.023	0.004	0.000	0.001
	8:DERZ2	-3.326	-0.526	-15.592	15.951	-0.004	-0.000	-0.001
	9:DERX3	24.097	-0.113	6.708	25.013	0.002	0.001	0.005
	10:DERX4	-23.983	-0.434	-6.655	24.893	-0.002	-0.001	-0.005
	11:DERZ3	3.489	-0.173	15.635	16.020	0.004	0.000	0.001
	12:DERZ4	-3.375	-0.375	-15.582	15.947	-0.004	-0.000	-0.001
52	5:DERX1	24.078	-0.257	6.141	24.850	0.001	0.001	0.005
	6:DERX2	-23.861	-0.490	-6.267	24.675	-0.002	-0.001	-0.004
	7:DERZ1	3.532	-0.266	14.636	15.059	0.003	0.000	0.001
	8:DERZ2	-3.315	-0.481	-14.761	15.137	-0.004	-0.000	-0.001
	9:DERX3	24.026	-0.132	6.182	24.809	0.001	0.001	0.005
	10:DERX4	-23.913	-0.366	-6.226	24.713	-0.002	-0.001	-0.004
	11:DERZ3	3.480	-0.141	14.677	15.085	0.003	0.000	0.001
	12:DERZ4	-3.367	-0.357	-14.720	15.105	-0.004	-0.000	-0.001
53	5:DERX1	24.099	-0.483	3.177	24.312	0.000	0.001	0.003
	6:DERX2	-23.881	-0.594	-3.253	24.109	-0.001	-0.001	-0.003
	7:DERZ1	3.535	-0.491	15.050	15.467	0.003	0.000	0.000
	8:DERZ2	-3.317	-0.585	-15.125	15.495	-0.004	-0.000	-0.000
	9:DERX3	24.047	-0.292	3.209	24.262	0.000	0.001	0.003
	10:DERX4	-23.932	-0.404	-3.221	24.151	-0.001	-0.001	-0.003
	11:DERZ3	3.483	-0.301	15.082	15.482	0.003	0.000	0.000
	12:DERZ4	-3.368	-0.395	-15.093	15.469	-0.004	-0.000	-0.000
54	5:DERX1	35.770	-0.373	12.299	37.827	0.000	0.002	0.002
	6:DERX2	-34.584	-1.817	-12.473	36.810	-0.001	-0.002	-0.001
	7:DERZ1	6.030	-0.955	28.460	29.107	0.001	0.000	0.001
	8:DERZ2	-4.844	-1.234	-28.634	29.067	-0.001	-0.000	0.000
	9:DERX3	35.496	-0.022	12.338	37.580	0.000	0.002	0.002
	10:DERX4	-34.858	-1.466	-12.434	37.038	-0.001	-0.002	-0.001
	11:DERZ3	5.756	-0.605	28.499	29.081	0.001	0.000	0.001
	12:DERZ4	-5.118	-0.883	-28.595	29.063	-0.001	-0.000	0.000
55	5:DERX1	28.747	-0.562	12.252	31.254	0.001	0.002	0.002
	6:DERX2	-27.795	-1.620	-12.416	30.485	-0.000	-0.002	-0.000
	7:DERZ1	5.526	-0.991	28.591	29.137	0.001	0.000	0.001
	8:DERZ2	-4.575	-1.191	-28.755	29.141	-0.001	-0.000	0.001
	9:DERX3	28.521	-0.213	12.288	31.056	0.000	0.002	0.001
	10:DERX4	-28.020	-1.271	-12.380	30.660	-0.000	-0.002	-0.000
	11:DERZ3	5.301	-0.642	28.627	29.121	0.001	0.000	0.001
	12:DERZ4	-4.800	-0.841	-28.719	29.130	-0.001	-0.000	0.000
56	5:DERX1	27.595	1.625	15.784	31.832	0.001	0.003	0.000
	6:DERX2	-32.473	-3.492	-15.211	36.029	-0.001	-0.003	-0.001
	7:DERZ1	7.685	5.063	32.229	33.517	0.002	0.001	-0.000
	8:DERZ2	-12.564	-6.930	-31.655	34.755	-0.003	-0.001	-0.001
	9:DERX3	28.524	1.935	15.690	32.612	0.001	0.003	0.000
	10:DERX4	-31.544	-3.182	-15.305	35.205	-0.001	-0.003	-0.001
	11:DERZ3	8.614	5.373	32.134	33.700	0.002	0.001	-0.000
	12:DERZ4	-11.634	-6.620	-31.750	34.456	-0.003	-0.001	-0.001
57	5:DERX1	61.154	2.980	15.855	63.246	0.002	0.004	0.001
	6:DERX2	-64.632	-4.598	-15.655	66.660	-0.002	-0.003	-0.003
	7:DERZ1	7.376	3.640	31.122	32.191	0.002	0.001	-0.000
	8:DERZ2	-10.854	-5.258	-30.922	33.191	-0.002	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	61.793	3.255	15.799	63.863	0.002	0.004	0.002
	10:DERX4	-63.994	-4.323	-15.712	66.036	-0.002	-0.003	-0.002
	11:DERZ3	8.014	3.915	31.066	32.321	0.002	0.001	-0.000
	12:DERZ4	-10.216	-4.983	-30.979	32.998	-0.002	-0.001	-0.001
58	5:DERX1	27.833	-2.049	13.020	30.796	-0.001	0.002	0.001
	6:DERX2	-31.610	-2.395	-14.607	34.904	-0.001	-0.002	0.001
	7:DERZ1	7.021	-1.704	29.207	30.087	-0.001	0.001	0.001
	8:DERZ2	-10.798	-2.741	-30.794	32.748	-0.001	-0.000	0.001
	9:DERX3	28.547	-1.257	13.320	31.526	-0.000	0.002	0.001
	10:DERX4	-30.896	-1.603	-14.307	34.085	-0.001	-0.002	0.001
	11:DERZ3	7.735	-0.911	29.507	30.517	-0.000	0.001	0.001
	12:DERZ4	-10.084	-1.948	-30.494	32.177	-0.001	-0.000	0.001
59	5:DERX1	17.403	-0.779	3.202	17.712	0.002	0.001	0.001
	6:DERX2	-17.267	-0.869	-3.235	17.589	0.001	-0.001	-0.001
	7:DERZ1	2.780	-0.684	15.102	15.371	0.003	0.000	0.000
	8:DERZ2	-2.644	-0.964	-15.135	15.394	-0.000	-0.000	-0.000
	9:DERX3	17.370	-0.473	3.219	17.672	0.001	0.001	0.001
	10:DERX4	-17.300	-0.564	-3.217	17.606	0.001	-0.001	-0.001
	11:DERZ3	2.747	-0.379	15.119	15.371	0.002	0.000	0.000
	12:DERZ4	-2.677	-0.658	-15.117	15.367	-0.001	-0.000	-0.000
60	5:DERX1	14.621	-0.676	3.183	14.979	-0.001	0.001	0.001
	6:DERX2	-14.600	-0.816	-3.240	14.977	-0.002	-0.001	-0.001
	7:DERZ1	2.672	-0.623	15.085	15.333	0.000	0.000	0.000
	8:DERZ2	-2.650	-0.869	-15.142	15.397	-0.003	-0.000	-0.000
	9:DERX3	14.612	-0.403	3.202	14.964	-0.000	0.001	0.001
	10:DERX4	-14.609	-0.542	-3.220	14.970	-0.001	-0.001	-0.001
	11:DERZ3	2.662	-0.349	15.105	15.342	0.001	0.000	0.000
	12:DERZ4	-2.660	-0.595	-15.123	15.366	-0.002	-0.000	-0.000
61	5:DERX1	60.573	-1.847	14.823	62.387	0.001	0.002	0.002
	6:DERX2	-62.926	-2.341	-13.691	64.440	0.001	-0.003	0.000
	7:DERZ1	7.637	-2.020	29.840	30.868	0.001	0.000	0.001
	8:DERZ2	-9.990	-2.168	-28.707	30.473	0.001	-0.001	0.001
	9:DERX3	60.993	-1.098	14.618	62.730	0.001	0.002	0.001
	10:DERX4	-62.505	-1.592	-13.896	64.051	0.000	-0.003	0.000
	11:DERZ3	8.058	-1.271	29.635	30.737	0.001	0.000	0.001
	12:DERZ4	-9.570	-1.419	-28.912	30.488	0.000	-0.001	0.001
62	5:DERX1	13.089	-0.501	3.182	13.480	0.001	0.001	0.002
	6:DERX2	-13.401	-0.554	-3.223	13.795	-0.000	-0.001	-0.001
	7:DERZ1	3.089	-0.472	15.069	15.389	0.004	0.000	0.000
	8:DERZ2	-3.401	-0.583	-15.110	15.499	-0.003	-0.000	-0.000
	9:DERX3	13.146	-0.316	3.194	13.532	0.001	0.001	0.002
	10:DERX4	-13.345	-0.369	-3.211	13.731	-0.000	-0.001	-0.001
	11:DERZ3	3.145	-0.287	15.081	15.408	0.004	0.000	0.000
	12:DERZ4	-3.345	-0.398	-15.098	15.469	-0.003	-0.000	-0.000
63	5:DERX1	28.756	-0.419	13.268	31.673	0.001	0.002	0.002
	6:DERX2	-27.791	-0.901	-13.505	30.912	-0.001	-0.002	-0.001
	7:DERZ1	5.531	-0.558	28.611	29.146	0.002	0.000	0.001
	8:DERZ2	-4.566	-0.761	-28.847	29.216	-0.003	-0.000	0.000
	9:DERX3	28.529	-0.200	13.317	31.484	0.001	0.002	0.002
	10:DERX4	-28.019	-0.681	-13.456	31.090	-0.001	-0.002	-0.001
	11:DERZ3	5.303	-0.339	28.660	29.148	0.002	0.000	0.001
	12:DERZ4	-4.794	-0.542	-28.799	29.200	-0.003	-0.000	0.000
64	5:DERX1	35.818	-0.173	13.432	38.254	0.002	0.002	0.003
	6:DERX2	-34.620	-1.142	-13.586	37.207	-0.001	-0.002	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	6.044	-0.544	28.308	28.952	0.002	0.000	0.001
	8:DERZ2	-4.846	-0.770	-28.462	28.882	-0.002	-0.000	-0.000
	9:DERX3	35.542	0.045	13.469	38.009	0.001	0.002	0.003
	10:DERX4	-34.895	-0.924	-13.549	37.444	-0.001	-0.002	-0.002
	11:DERZ3	5.768	-0.327	28.345	28.928	0.002	0.000	0.001
	12:DERZ4	-5.121	-0.552	-28.425	28.888	-0.002	-0.000	-0.000
65	5:DERX1	23.306	-0.485	13.066	26.723	0.001	0.002	0.002
	6:DERX2	-23.079	-0.680	-13.266	26.628	-0.001	-0.002	-0.002
	7:DERZ1	6.652	-0.333	28.241	29.016	0.002	0.000	0.001
	8:DERZ2	-6.424	-0.832	-28.441	29.169	-0.002	-0.000	-0.001
	9:DERX3	23.248	-0.291	13.108	26.691	0.001	0.002	0.002
	10:DERX4	-23.136	-0.485	-13.224	26.654	-0.001	-0.002	-0.002
	11:DERZ3	6.594	-0.139	28.283	29.042	0.002	0.000	0.001
	12:DERZ4	-6.482	-0.638	-28.399	29.136	-0.002	-0.000	-0.001
66	5:DERX1	28.648	-0.623	15.042	32.363	0.001	0.002	0.001
	6:DERX2	-27.774	-0.932	-14.702	31.439	-0.001	-0.002	-0.002
	7:DERZ1	5.508	-0.559	30.309	30.811	0.002	0.000	-0.000
	8:DERZ2	-4.634	-0.995	-29.969	30.342	-0.002	-0.000	-0.001
	9:DERX3	28.438	-0.316	14.975	32.141	0.001	0.002	0.001
	10:DERX4	-27.984	-0.625	-14.770	31.649	-0.001	-0.002	-0.002
	11:DERZ3	5.298	-0.253	30.242	30.703	0.002	0.000	0.000
	12:DERZ4	-4.844	-0.689	-30.037	30.433	-0.002	-0.000	-0.000
67	5:DERX1	35.390	-0.323	15.042	38.456	0.001	0.002	0.002
	6:DERX2	-34.269	-1.188	-14.677	37.299	-0.001	-0.002	-0.003
	7:DERZ1	5.961	-0.613	30.156	30.746	0.002	0.000	-0.000
	8:DERZ2	-4.840	-0.898	-29.791	30.195	-0.002	-0.000	-0.001
	9:DERX3	35.129	-0.034	14.971	38.186	0.001	0.002	0.002
	10:DERX4	-34.530	-0.899	-14.748	37.558	-0.001	-0.002	-0.003
	11:DERZ3	5.700	-0.324	30.085	30.622	0.002	0.000	0.000
	12:DERZ4	-5.101	-0.609	-29.862	30.301	-0.002	-0.000	-0.001
68	5:DERX1	50.976	-0.412	15.303	53.225	0.002	0.003	0.007
	6:DERX2	-53.933	-0.806	-14.797	55.932	-0.002	-0.003	-0.006
	7:DERZ1	5.936	-0.462	30.244	30.824	0.003	0.001	0.001
	8:DERZ2	-8.893	-0.756	-29.738	31.048	-0.003	-0.001	-0.001
	9:DERX3	51.515	-0.199	15.203	53.712	0.002	0.003	0.007
	10:DERX4	-53.395	-0.593	-14.896	55.437	-0.002	-0.003	-0.006
	11:DERZ3	6.475	-0.250	30.144	30.833	0.003	0.001	0.001
	12:DERZ4	-8.354	-0.543	-29.837	30.990	-0.003	-0.001	-0.001
69	5:DERX1	45.592	-0.456	13.171	47.458	0.001	0.002	0.006
	6:DERX2	-44.493	-0.704	-13.367	46.463	-0.001	-0.002	-0.006
	7:DERZ1	6.913	-0.411	27.895	28.742	0.002	0.000	0.001
	8:DERZ2	-5.815	-0.749	-28.092	28.697	-0.002	-0.000	-0.001
	9:DERX3	45.353	-0.262	13.216	47.240	0.001	0.002	0.006
	10:DERX4	-44.731	-0.510	-13.322	46.676	-0.001	-0.002	-0.006
	11:DERZ3	6.675	-0.217	27.941	28.728	0.002	0.000	0.001
	12:DERZ4	-6.053	-0.555	-28.046	28.697	-0.002	-0.000	-0.001
70	5:DERX1	23.578	-0.418	14.955	27.924	0.002	0.003	0.003
	6:DERX2	-27.693	-0.685	-14.773	31.394	-0.001	-0.002	-0.002
	7:DERZ1	5.233	-0.390	30.623	31.070	0.003	0.001	0.001
	8:DERZ2	-9.349	-0.712	-30.441	31.852	-0.003	-0.001	-0.001
	9:DERX3	24.355	-0.233	14.918	28.562	0.002	0.002	0.003
	10:DERX4	-26.915	-0.500	-14.810	30.725	-0.001	-0.002	-0.002
	11:DERZ3	6.011	-0.205	30.586	31.172	0.003	0.001	0.001
	12:DERZ4	-8.571	-0.527	-30.478	31.664	-0.003	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
71	5:DERX1	35.530	-1.065	6.188	36.080	-0.000	0.002	0.001
	6:DERX2	-34.414	-1.323	-6.024	34.962	-0.001	-0.002	-0.001
	7:DERZ1	5.974	-0.970	28.089	28.733	0.001	0.000	0.000
	8:DERZ2	-4.858	-1.418	-27.926	28.380	-0.002	-0.000	-0.000
	9:DERX3	35.269	-0.619	6.160	35.808	0.000	0.002	0.001
	10:DERX4	-34.675	-0.878	-6.052	35.210	-0.001	-0.002	-0.001
	11:DERZ3	5.713	-0.524	28.061	28.641	0.001	0.000	0.000
	12:DERZ4	-5.119	-0.973	-27.953	28.435	-0.002	-0.000	-0.000
72	5:DERX1	28.646	-0.987	6.163	29.318	0.001	0.002	0.001
	6:DERX2	-27.764	-1.245	-6.039	28.441	0.000	-0.002	-0.001
	7:DERZ1	5.492	-0.926	28.085	28.632	0.002	0.000	0.000
	8:DERZ2	-4.611	-1.306	-27.961	28.369	-0.001	-0.000	-0.000
	9:DERX3	28.433	-0.573	6.142	29.094	0.001	0.002	0.001
	10:DERX4	-27.977	-0.832	-6.061	28.638	-0.000	-0.002	-0.001
	11:DERZ3	5.279	-0.512	28.064	28.561	0.002	0.000	0.000
	12:DERZ4	-4.824	-0.893	-27.982	28.409	-0.001	-0.000	-0.000
73	5:DERX1	29.109	-0.425	13.461	32.073	0.000	0.003	0.002
	6:DERX2	-28.383	-0.916	-13.931	31.631	-0.001	-0.002	-0.001
	7:DERZ1	5.465	-0.564	29.224	29.736	0.002	0.001	0.001
	8:DERZ2	-4.740	-0.777	-29.694	30.080	-0.003	-0.000	0.000
	9:DERX3	28.917	-0.202	13.545	31.933	0.001	0.003	0.002
	10:DERX4	-28.575	-0.692	-13.846	31.760	-0.001	-0.002	-0.001
	11:DERZ3	5.274	-0.340	29.309	29.782	0.002	0.000	0.001
	12:DERZ4	-4.932	-0.554	-29.610	30.023	-0.003	-0.000	0.000
74	5:DERX1	36.485	-0.170	13.941	39.058	0.002	0.002	0.003
	6:DERX2	-35.534	-1.165	-13.863	38.160	-0.001	-0.002	-0.002
	7:DERZ1	6.062	-0.551	29.035	29.666	0.002	0.000	0.001
	8:DERZ2	-5.111	-0.785	-28.957	29.415	-0.001	-0.000	0.000
	9:DERX3	36.247	0.051	13.941	38.836	0.002	0.002	0.002
	10:DERX4	-35.772	-0.944	-13.862	38.375	-0.001	-0.002	-0.002
	11:DERZ3	5.825	-0.329	29.035	29.616	0.002	0.000	0.001
	12:DERZ4	-5.349	-0.564	-28.957	29.452	-0.002	-0.000	-0.000
75	5:DERX1	55.474	-0.437	16.952	58.008	0.001	0.004	0.003
	6:DERX2	-58.571	-0.857	-16.685	60.907	-0.002	-0.004	-0.004
	7:DERZ1	6.515	-0.495	32.349	33.002	0.002	0.001	0.000
	8:DERZ2	-9.612	-0.799	-32.082	33.501	-0.002	-0.001	-0.001
	9:DERX3	56.040	-0.211	16.886	58.529	0.002	0.004	0.003
	10:DERX4	-58.006	-0.631	-16.750	60.379	-0.002	-0.004	-0.003
	11:DERZ3	7.080	-0.269	32.284	33.052	0.002	0.001	0.000
	12:DERZ4	-9.047	-0.573	-32.147	33.401	-0.002	-0.001	-0.001
76	5:DERX1	25.341	-0.450	16.385	30.180	0.001	0.003	0.001
	6:DERX2	-29.703	-0.732	-15.982	33.737	-0.001	-0.003	-0.001
	7:DERZ1	5.734	-0.421	33.731	34.217	0.003	0.001	0.000
	8:DERZ2	-10.095	-0.760	-33.327	34.831	-0.003	-0.001	-0.001
	9:DERX3	26.168	-0.251	16.317	30.839	0.001	0.003	0.001
	10:DERX4	-28.877	-0.533	-16.050	33.041	-0.001	-0.003	-0.001
	11:DERZ3	6.560	-0.222	33.663	34.297	0.003	0.001	0.000
	12:DERZ4	-9.269	-0.561	-33.395	34.662	-0.003	-0.001	-0.001
77	5:DERX1	29.203	-1.020	7.272	30.112	0.000	0.002	0.000
	6:DERX2	-28.766	-1.330	-6.409	29.501	-0.001	-0.002	-0.000
	7:DERZ1	5.346	-0.993	32.304	32.758	0.002	0.001	-0.000
	8:DERZ2	-4.909	-1.356	-31.441	31.850	-0.002	-0.000	-0.000
	9:DERX3	29.076	-0.586	7.091	29.934	0.000	0.002	0.000
	10:DERX4	-28.893	-0.896	-6.591	29.648	-0.000	-0.002	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	5.219	-0.559	32.122	32.548	0.002	0.001	-0.000
	12:DERZ4	-5.035	-0.922	-31.622	32.034	-0.002	-0.000	-0.000
78	5:DERX1	36.801	-1.076	6.534	37.392	0.000	0.002	0.000
	6:DERX2	-36.194	-1.429	-7.176	36.926	-0.000	-0.003	-0.000
	7:DERZ1	5.984	-1.028	30.468	31.067	0.001	0.000	0.000
	8:DERZ2	-5.377	-1.478	-31.110	31.606	-0.001	-0.001	-0.000
	9:DERX3	36.639	-0.610	6.672	37.247	0.000	0.002	0.000
	10:DERX4	-36.356	-0.963	-7.038	37.043	-0.000	-0.003	-0.000
	11:DERZ3	5.822	-0.562	30.606	31.160	0.001	0.000	0.000
	12:DERZ4	-5.539	-1.012	-30.972	31.479	-0.001	-0.000	-0.000
79	5:DERX1	55.697	-0.779	7.249	56.172	0.001	0.003	0.001
	6:DERX2	-58.602	-1.015	-6.038	58.921	-0.000	-0.002	-0.001
	7:DERZ1	6.629	-0.832	31.431	32.133	0.002	0.001	-0.000
	8:DERZ2	-9.534	-0.961	-30.220	31.703	-0.001	-0.001	-0.000
	9:DERX3	56.225	-0.458	7.010	56.662	0.001	0.002	0.001
	10:DERX4	-58.074	-0.694	-6.277	58.417	-0.000	-0.002	-0.001
	11:DERZ3	7.157	-0.511	31.192	32.007	0.002	0.001	0.000
	12:DERZ4	-9.006	-0.641	-30.459	31.769	-0.002	-0.001	-0.000
80	5:DERX1	25.518	-0.832	6.326	26.303	0.000	0.002	0.000
	6:DERX2	-29.663	-0.950	-7.450	30.599	-0.001	-0.002	-0.000
	7:DERZ1	5.845	-0.803	31.426	31.975	0.002	0.001	0.000
	8:DERZ2	-9.990	-0.978	-32.551	34.063	-0.002	-0.001	-0.000
	9:DERX3	26.300	-0.514	6.547	27.108	0.000	0.002	0.000
	10:DERX4	-28.880	-0.633	-7.229	29.778	-0.001	-0.002	-0.000
	11:DERZ3	6.628	-0.486	31.648	32.338	0.002	0.001	0.000
	12:DERZ4	-9.207	-0.661	-32.329	33.621	-0.002	-0.001	-0.000
81	5:DERX1	26.502	-0.600	13.477	29.738	0.000	0.002	0.001
	6:DERX2	-28.516	-0.821	-14.195	31.864	-0.000	-0.002	0.000
	7:DERZ1	7.065	-0.402	29.574	30.409	0.000	0.000	0.001
	8:DERZ2	-9.079	-1.019	-30.291	31.639	-0.000	-0.001	0.001
	9:DERX3	26.873	-0.359	13.618	30.128	0.000	0.002	0.001
	10:DERX4	-28.145	-0.581	-14.054	31.464	-0.000	-0.002	0.000
	11:DERZ3	7.436	-0.161	29.714	30.631	0.000	0.000	0.001
	12:DERZ4	-8.708	-0.779	-30.151	31.393	-0.000	-0.001	0.000
82	5:DERX1	56.146	-0.572	14.341	57.951	0.000	0.002	0.002
	6:DERX2	-57.035	-0.846	-14.013	58.737	0.000	-0.002	-0.001
	7:DERZ1	7.555	-0.506	29.470	30.427	0.000	0.001	0.001
	8:DERZ2	-8.444	-0.912	-29.141	30.354	-0.000	-0.000	0.001
	9:DERX3	56.283	-0.331	14.284	58.068	0.000	0.002	0.002
	10:DERX4	-56.898	-0.605	-14.069	58.615	-0.000	-0.002	-0.001
	11:DERZ3	7.692	-0.265	29.413	30.403	0.000	0.001	0.001
	12:DERZ4	-8.307	-0.671	-29.198	30.364	-0.000	-0.000	0.000
83	5:DERX1	29.177	-0.732	16.775	33.664	-0.000	0.002	0.000
	6:DERX2	-28.974	-1.077	-15.753	32.997	-0.001	-0.002	-0.000
	7:DERZ1	5.367	-0.641	34.366	34.789	-0.000	0.001	-0.000
	8:DERZ2	-5.163	-1.169	-33.345	33.762	-0.001	-0.000	-0.000
	9:DERX3	29.105	-0.379	16.569	33.493	-0.000	0.002	0.000
	10:DERX4	-29.047	-0.724	-15.959	33.150	-0.000	-0.002	-0.000
	11:DERZ3	5.294	-0.287	34.161	34.570	-0.000	0.001	-0.000
	12:DERZ4	-5.236	-0.815	-33.551	33.966	-0.000	-0.000	-0.000
84	5:DERX1	37.071	-0.363	17.043	40.803	0.001	0.002	0.000
	6:DERX2	-36.636	-1.407	-17.346	40.559	0.000	-0.003	-0.000
	7:DERZ1	5.885	-0.719	32.264	32.805	0.001	0.000	-0.000
	8:DERZ2	-5.450	-1.051	-32.567	33.037	0.000	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	36.949	-0.026	17.103	40.715	0.000	0.002	0.000
	10:DERX4	-36.758	-1.070	-17.287	40.634	0.000	-0.002	-0.000
	11:DERZ3	5.763	-0.382	32.324	32.836	0.001	0.000	0.000
	12:DERZ4	-5.572	-0.714	-32.508	32.990	0.000	-0.001	-0.000
100	5:DERX1	25.998	-2.512	9.155	27.677	-0.000	0.002	0.001
	6:DERX2	-29.125	-2.868	-10.201	30.992	-0.000	-0.002	0.000
	7:DERZ1	6.462	-2.124	30.176	30.933	-0.000	0.001	0.000
	8:DERZ2	-9.589	-3.256	-31.222	32.823	-0.000	-0.000	0.000
	9:DERX3	26.584	-1.505	9.349	28.220	0.000	0.002	0.000
	10:DERX4	-28.538	-1.861	-10.006	30.299	-0.000	-0.002	0.000
	11:DERZ3	7.049	-1.117	30.371	31.198	-0.000	0.001	0.000
	12:DERZ4	-9.003	-2.249	-31.027	32.385	-0.000	-0.000	0.000
101	5:DERX1	55.923	-1.633	10.291	56.885	0.001	0.002	0.001
	6:DERX2	-57.861	-3.538	-9.469	58.738	-0.000	-0.003	0.000
	7:DERZ1	7.074	-2.315	30.197	31.101	0.000	0.000	0.000
	8:DERZ2	-9.012	-2.856	-29.375	30.859	0.000	-0.001	0.000
	9:DERX3	56.264	-0.664	10.144	57.175	0.001	0.002	0.000
	10:DERX4	-57.520	-2.569	-9.615	58.375	-0.000	-0.003	0.000
	11:DERZ3	7.415	-1.346	30.051	30.981	0.000	0.000	0.000
	12:DERZ4	-8.671	-1.887	-29.522	30.827	0.000	-0.001	0.000
104	5:DERX1	48.154	-1.559	6.883	48.669	0.000	0.002	0.000
	6:DERX2	-49.255	-4.774	-6.563	49.919	-0.001	-0.002	-0.001
	7:DERZ1	6.306	-2.906	30.904	31.674	0.000	0.000	0.000
	8:DERZ2	-7.407	-3.427	-30.584	31.654	-0.001	-0.001	-0.001
	9:DERX3	48.331	-0.325	6.828	48.812	0.000	0.002	0.000
	10:DERX4	-49.078	-3.540	-6.618	49.648	-0.001	-0.002	-0.001
	11:DERZ3	6.484	-1.672	30.849	31.567	0.000	0.000	0.001
	12:DERZ4	-7.230	-2.193	-30.639	31.557	-0.001	-0.001	-0.001
111	5:DERX1	61.965	-4.624	7.952	62.644	0.003	0.003	0.001
	6:DERX2	-62.357	-6.849	-8.931	63.364	0.001	-0.002	0.000
	7:DERZ1	8.686	-5.110	29.460	31.136	0.002	0.001	0.001
	8:DERZ2	-9.077	-6.363	-30.439	32.395	0.002	-0.000	0.000
	9:DERX3	62.045	-2.599	8.102	62.626	0.002	0.003	0.001
	10:DERX4	-62.277	-4.824	-8.780	63.077	0.000	-0.002	-0.000
	11:DERZ3	8.766	-3.085	29.611	31.035	0.001	0.001	0.001
	12:DERZ4	-8.997	-4.338	-30.289	31.893	0.001	-0.000	0.000
112	5:DERX1	62.400	-3.462	5.729	62.758	0.004	0.003	0.000
	6:DERX2	-62.764	-8.572	-7.217	63.757	0.002	-0.002	-0.001
	7:DERZ1	8.778	-4.486	29.667	31.262	0.003	0.001	0.000
	8:DERZ2	-9.143	-7.548	-31.155	33.334	0.002	0.000	-0.001
	9:DERX3	62.490	-1.372	5.955	62.788	0.003	0.003	0.000
	10:DERX4	-62.674	-6.483	-6.991	63.395	0.001	-0.002	-0.001
	11:DERZ3	8.869	-2.397	29.893	31.273	0.002	0.001	0.000
	12:DERZ4	-9.053	-5.458	-30.929	32.686	0.001	0.000	-0.001
113	5:DERX1	62.218	-0.434	9.316	62.913	0.004	0.003	-0.001
	6:DERX2	-63.670	-8.171	-10.397	65.028	0.001	-0.002	-0.001
	7:DERZ1	8.325	-1.482	30.227	31.387	0.003	0.001	-0.000
	8:DERZ2	-9.777	-7.122	-31.308	33.563	0.002	0.000	-0.001
	9:DERX3	62.506	1.041	9.470	63.228	0.003	0.003	-0.000
	10:DERX4	-63.381	-6.696	-10.243	64.552	0.001	-0.002	-0.001
	11:DERZ3	8.614	-0.008	30.381	31.578	0.003	0.001	-0.000
	12:DERZ4	-9.488	-5.648	-31.154	33.053	0.001	0.000	-0.001
120	5:DERX1	53.871	-0.805	14.466	55.785	-0.000	0.002	0.002
	6:DERX2	-54.604	-1.241	-13.989	56.381	-0.001	-0.002	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	7.281	-0.438	29.628	30.513	-0.000	0.001	0.001
	8:DERZ2	-8.014	-1.608	-29.150	30.275	-0.001	-0.000	0.001
	9:DERX3	53.970	-0.458	14.385	55.856	-0.000	0.002	0.002
	10:DERX4	-54.505	-0.893	-14.069	56.299	-0.001	-0.002	-0.001
	11:DERZ3	7.380	-0.090	29.547	30.455	0.000	0.001	0.001
	12:DERZ4	-7.916	-1.260	-29.231	30.310	-0.001	-0.000	0.000
121	5:DERX1	47.584	-1.820	15.258	50.003	-0.000	0.002	0.002
	6:DERX2	-48.800	-4.462	-13.707	50.885	-0.001	-0.002	-0.001
	7:DERZ1	6.308	-0.892	30.569	31.225	-0.000	0.001	0.001
	8:DERZ2	-7.524	-5.391	-29.017	30.458	-0.001	-0.000	0.000
	9:DERX3	47.746	-0.732	14.995	50.050	-0.000	0.002	0.001
	10:DERX4	-48.638	-3.374	-13.970	50.717	-0.001	-0.002	-0.001
	11:DERZ3	6.470	0.196	30.305	30.989	0.000	0.001	0.000
	12:DERZ4	-7.362	-4.303	-29.280	30.497	-0.001	-0.000	0.000
122	5:DERX1	41.856	-1.450	15.184	44.549	0.001	0.002	0.001
	6:DERX2	-42.524	-4.540	-13.804	44.938	0.000	-0.003	-0.001
	7:DERZ1	6.045	-0.209	30.568	31.160	0.001	0.000	0.000
	8:DERZ2	-6.713	-5.780	-29.188	30.503	0.000	-0.001	-0.000
	9:DERX3	41.909	-0.416	14.955	44.500	0.001	0.002	0.001
	10:DERX4	-42.471	-3.506	-14.032	44.866	0.000	-0.002	-0.001
	11:DERZ3	6.098	0.824	30.340	30.957	0.001	0.000	0.000
	12:DERZ4	-6.660	-4.747	-29.416	30.532	0.000	-0.001	-0.000
125	5:DERX1	57.086	-1.715	11.376	58.234	0.001	0.002	0.001
	6:DERX2	-59.150	-3.350	-10.457	60.160	0.000	-0.003	0.001
	7:DERZ1	7.202	-2.290	30.113	31.047	0.001	0.000	0.001
	8:DERZ2	-9.266	-2.775	-29.194	30.755	0.001	-0.001	0.001
	9:DERX3	57.451	-0.775	11.211	58.540	0.001	0.002	0.001
	10:DERX4	-58.785	-2.409	-10.622	59.785	0.000	-0.003	0.000
	11:DERZ3	7.567	-1.349	29.948	30.919	0.000	0.000	0.001
	12:DERZ4	-8.901	-1.835	-29.359	30.734	0.000	-0.001	0.000
138	5:DERX1	36.937	-0.238	8.706	37.950	0.001	0.003	0.000
	6:DERX2	-36.543	-3.262	-8.561	37.674	-0.001	-0.003	-0.000
	7:DERZ1	5.920	-1.400	30.012	30.622	0.002	0.000	0.000
	8:DERZ2	-5.526	-2.100	-29.867	30.447	-0.001	-0.001	-0.000
	9:DERX3	36.801	0.377	8.703	37.818	0.001	0.003	0.000
	10:DERX4	-36.678	-2.648	-8.564	37.758	-0.001	-0.003	-0.000
	11:DERZ3	5.784	-0.785	30.009	30.571	0.002	0.000	0.000
	12:DERZ4	-5.661	-1.485	-29.870	30.438	-0.001	-0.001	-0.000
140	5:DERX1	36.906	-0.850	10.298	38.325	0.001	0.002	0.000
	6:DERX2	-36.578	-2.049	-11.002	38.252	0.000	-0.003	-0.000
	7:DERZ1	5.864	-1.263	31.205	31.776	0.001	0.000	0.000
	8:DERZ2	-5.536	-1.637	-31.909	32.427	-0.000	-0.001	-0.000
	9:DERX3	36.797	-0.319	10.448	38.253	0.001	0.002	0.000
	10:DERX4	-36.687	-1.518	-10.852	38.288	-0.000	-0.003	-0.000
	11:DERZ3	5.755	-0.732	31.355	31.887	0.001	0.000	0.000
	12:DERZ4	-5.645	-1.106	-31.759	32.276	-0.000	-0.001	-0.000
141	5:DERX1	53.879	0.204	17.161	56.547	0.001	0.003	0.003
	6:DERX2	-56.652	-2.236	-17.085	59.214	-0.002	-0.004	-0.002
	7:DERZ1	6.431	0.101	32.619	33.247	0.001	0.001	0.000
	8:DERZ2	-9.203	-2.133	-32.542	33.886	-0.002	-0.001	-0.000
	9:DERX3	54.387	0.562	17.130	57.023	0.001	0.003	0.003
	10:DERX4	-56.145	-1.878	-17.116	58.726	-0.002	-0.004	-0.002
	11:DERZ3	6.938	0.459	32.588	33.321	0.001	0.001	0.000
	12:DERZ4	-8.696	-1.775	-32.573	33.761	-0.002	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
142	5:DERX1	48.265	-0.350	17.064	51.194	-0.001	0.002	0.001
	6:DERX2	-49.280	-6.038	-18.258	52.899	-0.001	-0.003	-0.001
	7:DERZ1	6.544	-0.048	32.587	33.237	-0.001	0.000	0.001
	8:DERZ2	-7.558	-6.340	-33.781	35.192	-0.001	-0.001	-0.000
	9:DERX3	48.453	0.791	17.265	51.444	-0.000	0.003	0.001
	10:DERX4	-49.092	-4.897	-18.057	52.536	-0.000	-0.003	-0.001
	11:DERZ3	6.732	1.093	32.787	33.489	-0.000	0.000	0.000
	12:DERZ4	-7.370	-5.199	-33.580	34.770	-0.000	-0.001	-0.000
143	5:DERX1	42.980	-1.302	16.807	46.167	0.001	0.002	0.001
	6:DERX2	-43.161	-5.083	-18.187	47.111	-0.000	-0.002	-0.000
	7:DERZ1	6.254	-1.249	32.187	32.813	0.001	0.000	0.001
	8:DERZ2	-6.435	-5.136	-33.567	34.562	-0.000	-0.000	-0.000
	9:DERX3	43.002	-0.144	17.052	46.260	0.001	0.002	0.001
	10:DERX4	-43.139	-3.925	-17.941	46.885	-0.000	-0.002	-0.000
	11:DERZ3	6.276	-0.091	32.433	33.034	0.001	0.000	0.000
	12:DERZ4	-6.413	-3.978	-33.322	34.166	-0.000	-0.000	-0.000
146	5:DERX1	39.890	-0.823	13.615	42.157	0.001	0.002	0.000
	6:DERX2	-39.855	-3.610	-13.717	42.303	0.000	-0.003	-0.000
	7:DERZ1	5.889	-1.951	31.889	32.487	0.001	0.000	0.000
	8:DERZ2	-5.854	-2.482	-31.991	32.616	0.000	-0.001	-0.001
	9:DERX3	39.845	0.037	13.635	42.113	0.001	0.002	0.000
	10:DERX4	-39.899	-2.749	-13.697	42.274	0.000	-0.003	-0.000
	11:DERZ3	5.845	-1.090	31.909	32.458	0.001	0.000	0.000
	12:DERZ4	-5.899	-1.621	-31.971	32.551	-0.000	-0.001	-0.000
147	5:DERX1	56.498	0.946	11.796	57.724	0.001	0.002	-0.000
	6:DERX2	-59.119	-3.945	-11.451	60.347	-0.001	-0.003	-0.000
	7:DERZ1	6.866	-1.120	31.851	32.602	0.001	0.001	-0.000
	8:DERZ2	-9.486	-1.880	-31.506	32.957	-0.002	-0.001	-0.000
	9:DERX3	56.976	1.486	11.715	58.187	0.001	0.003	0.000
	10:DERX4	-58.641	-3.404	-11.532	59.861	-0.001	-0.003	-0.000
	11:DERZ3	7.343	-0.579	31.770	32.613	0.001	0.001	-0.000
	12:DERZ4	-9.009	-1.339	-31.587	32.874	-0.002	-0.001	-0.000
148	5:DERX1	56.125	-0.918	12.383	57.482	0.000	0.002	0.001
	6:DERX2	-57.619	-2.671	-11.743	58.864	-0.000	-0.002	0.000
	7:DERZ1	7.293	-1.534	29.856	30.772	0.000	0.001	0.001
	8:DERZ2	-8.787	-2.055	-29.216	30.578	0.000	-0.000	0.001
	9:DERX3	56.379	-0.255	12.268	57.699	0.000	0.002	0.001
	10:DERX4	-57.364	-2.009	-11.858	58.611	-0.000	-0.002	0.000
	11:DERZ3	7.548	-0.871	29.741	30.697	0.000	0.001	0.001
	12:DERZ4	-8.532	-1.392	-29.331	30.578	-0.000	-0.000	0.000
151	5:DERX1	56.061	-2.171	7.786	56.641	0.001	0.003	-0.000
	6:DERX2	-58.175	-2.458	-6.893	58.633	0.000	-0.002	-0.001
	7:DERZ1	7.019	-2.130	30.691	31.555	0.001	0.001	-0.001
	8:DERZ2	-9.132	-2.498	-29.797	31.265	0.000	-0.000	-0.001
	9:DERX3	56.437	-1.309	7.616	56.964	0.001	0.003	0.000
	10:DERX4	-57.799	-1.596	-7.063	58.250	-0.000	-0.002	-0.001
	11:DERZ3	7.395	-1.269	30.521	31.429	0.001	0.001	-0.000
	12:DERZ4	-8.756	-1.636	-29.968	31.263	0.000	-0.000	-0.000
152	5:DERX1	55.773	-0.950	7.884	56.336	0.001	0.002	0.001
	6:DERX2	-58.581	-1.317	-6.730	58.981	-0.000	-0.003	-0.000
	7:DERZ1	6.682	-1.074	31.563	32.281	0.001	0.001	0.000
	8:DERZ2	-9.490	-1.192	-30.409	31.878	-0.001	-0.001	0.000
	9:DERX3	56.285	-0.545	7.654	56.805	0.001	0.002	0.001
	10:DERX4	-58.070	-0.912	-6.960	58.493	-0.000	-0.002	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	7.193	-0.670	31.333	32.155	0.001	0.001	0.000
	12:DERZ4	-8.979	-0.787	-30.639	31.938	-0.001	-0.001	0.000
155	5:DERX1	25.003	-2.899	6.761	26.063	0.001	0.002	-0.000
	6:DERX2	-26.938	-3.522	-6.934	28.038	0.000	-0.002	-0.001
	7:DERZ1	5.766	-3.024	31.792	32.452	0.001	0.001	0.001
	8:DERZ2	-7.701	-3.397	-31.965	33.054	-0.000	-0.000	-0.001
	9:DERX3	25.353	-1.648	6.788	26.298	0.001	0.002	0.000
	10:DERX4	-26.588	-2.270	-6.908	27.565	-0.000	-0.002	-0.001
	11:DERZ3	6.116	-1.773	31.818	32.449	0.001	0.001	0.001
	12:DERZ4	-7.351	-2.145	-31.938	32.843	-0.001	-0.000	-0.001
162	5:DERX1	26.138	-2.069	17.636	31.599	-0.000	0.002	0.001
	6:DERX2	-26.960	-4.541	-15.514	31.434	-0.001	-0.002	-0.000
	7:DERZ1	5.087	-0.660	35.519	35.888	0.000	0.001	0.001
	8:DERZ2	-5.908	-5.951	-33.398	34.434	-0.001	-0.000	-0.000
	9:DERX3	26.294	-0.868	17.242	31.455	0.000	0.002	0.001
	10:DERX4	-26.803	-3.340	-15.907	31.347	-0.001	-0.002	-0.000
	11:DERZ3	5.243	0.541	35.126	35.519	0.001	0.000	0.001
	12:DERZ4	-5.752	-4.749	-33.791	34.604	-0.001	-0.000	-0.000
163	5:DERX1	24.979	-1.180	17.620	30.590	0.001	0.003	0.001
	6:DERX2	-27.032	-4.868	-15.827	31.701	0.001	-0.002	-0.001
	7:DERZ1	4.887	1.075	35.700	36.048	0.001	0.001	0.001
	8:DERZ2	-6.941	-7.124	-33.907	35.335	0.001	-0.000	-0.000
	9:DERX3	25.379	-0.102	17.297	30.713	0.000	0.003	0.001
	10:DERX4	-26.632	-3.790	-16.149	31.376	0.000	-0.002	-0.001
	11:DERZ3	5.287	2.154	35.377	35.835	0.000	0.001	0.001
	12:DERZ4	-6.541	-6.046	-34.229	35.369	0.000	-0.000	-0.000
164	5:DERX1	25.060	-0.283	16.621	30.072	0.002	0.003	0.001
	6:DERX2	-29.144	-1.419	-16.074	33.313	-0.000	-0.002	-0.001
	7:DERZ1	5.396	0.305	34.187	34.612	0.003	0.001	0.000
	8:DERZ2	-9.480	-2.007	-33.640	35.007	-0.002	-0.001	-0.001
	9:DERX3	25.836	0.009	16.527	30.670	0.001	0.003	0.001
	10:DERX4	-28.368	-1.127	-16.168	32.671	-0.001	-0.003	-0.001
	11:DERZ3	6.171	0.597	34.093	34.652	0.003	0.001	0.000
	12:DERZ4	-8.704	-1.715	-33.734	34.881	-0.002	-0.001	-0.001
183	5:DERX1	29.259	-0.753	8.428	30.458	-0.000	0.003	0.000
	6:DERX2	-29.073	-2.741	-8.672	30.462	-0.001	-0.002	-0.000
	7:DERZ1	5.233	-1.584	30.598	31.083	0.001	0.001	0.000
	8:DERZ2	-5.047	-1.909	-30.843	31.311	-0.002	-0.000	-0.000
	9:DERX3	29.165	-0.140	8.455	30.366	0.000	0.003	0.000
	10:DERX4	-29.166	-2.129	-8.646	30.495	-0.001	-0.002	-0.000
	11:DERZ3	5.140	-0.972	30.625	31.068	0.001	0.001	0.000
	12:DERZ4	-5.141	-1.297	-30.816	31.269	-0.002	-0.000	-0.000
185	5:DERX1	29.132	-1.102	10.965	31.147	-0.000	0.003	0.000
	6:DERX2	-29.009	-1.685	-9.795	30.664	-0.001	-0.002	-0.000
	7:DERZ1	5.253	-1.350	33.479	33.916	0.000	0.001	0.000
	8:DERZ2	-5.130	-1.437	-32.309	32.745	-0.001	-0.000	-0.000
	9:DERX3	29.066	-0.591	10.722	30.986	-0.000	0.002	0.000
	10:DERX4	-29.075	-1.173	-10.039	30.781	-0.000	-0.002	-0.000
	11:DERZ3	5.187	-0.838	33.236	33.649	0.000	0.001	0.000
	12:DERZ4	-5.196	-0.925	-32.552	32.977	-0.001	-0.000	-0.000
186	5:DERX1	28.943	-5.323	8.977	30.768	-0.001	0.002	0.001
	6:DERX2	-30.737	-6.444	-8.113	32.436	-0.002	-0.003	0.001
	7:DERZ1	8.080	-5.010	31.295	32.707	-0.002	0.000	0.001
	8:DERZ2	-9.873	-6.757	-30.430	32.698	-0.002	-0.001	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	29.312	-3.245	8.851	30.791	-0.001	0.002	0.001
	10:DERX4	-30.368	-4.366	-8.239	31.767	-0.001	-0.002	0.000
	11:DERZ3	8.448	-2.932	31.168	32.426	-0.001	0.000	0.001
	12:DERZ4	-9.505	-4.680	-30.557	32.341	-0.001	-0.001	0.000
187	5:DERX1	29.113	-5.452	7.698	30.603	-0.002	0.002	-0.000
	6:DERX2	-30.732	-7.359	-5.903	32.148	-0.003	-0.003	-0.000
	7:DERZ1	8.321	-4.736	32.404	33.789	-0.002	-0.000	0.000
	8:DERZ2	-9.941	-8.075	-30.609	33.180	-0.003	-0.001	-0.001
	9:DERX3	29.466	-3.226	7.415	30.555	-0.001	0.002	-0.000
	10:DERX4	-30.379	-5.133	-6.185	31.425	-0.002	-0.003	-0.000
	11:DERZ3	8.674	-2.510	32.122	33.367	-0.001	-0.000	0.000
	12:DERZ4	-9.588	-5.849	-30.892	32.870	-0.002	-0.001	-0.001
188	5:DERX1	28.650	-3.014	10.987	30.833	-0.002	0.001	-0.001
	6:DERX2	-31.381	-6.291	-9.313	33.333	-0.003	-0.003	-0.001
	7:DERZ1	8.143	-1.266	32.699	33.722	-0.002	-0.000	-0.000
	8:DERZ2	-10.874	-8.038	-31.025	33.844	-0.004	-0.001	-0.002
	9:DERX3	29.208	-1.420	10.720	31.145	-0.001	0.002	-0.000
	10:DERX4	-30.824	-4.698	-9.580	32.619	-0.002	-0.003	-0.001
	11:DERZ3	8.700	0.327	32.432	33.580	-0.001	-0.000	0.000
	12:DERZ4	-10.317	-6.445	-31.292	33.573	-0.003	-0.001	-0.001
189	5:DERX1	26.004	-1.499	13.278	29.237	-0.000	0.003	0.001
	6:DERX2	-27.173	-4.496	-15.031	31.377	-0.001	-0.002	-0.001
	7:DERZ1	4.528	0.325	29.670	30.016	-0.000	0.001	0.000
	8:DERZ2	-5.697	-6.321	-31.424	32.555	-0.001	-0.000	0.000
	9:DERX3	26.160	-0.466	13.587	29.482	-0.000	0.003	0.001
	10:DERX4	-27.017	-3.464	-14.722	30.962	-0.001	-0.002	-0.001
	11:DERZ3	4.684	1.358	29.979	30.373	-0.000	0.001	0.000
	12:DERZ4	-5.541	-5.288	-31.115	32.044	-0.001	-0.000	-0.000
190	5:DERX1	24.934	-1.920	13.152	28.255	0.001	0.002	0.001
	6:DERX2	-26.907	-4.455	-15.107	31.178	0.000	-0.002	0.000
	7:DERZ1	5.083	-0.468	29.505	29.944	0.001	0.001	0.001
	8:DERZ2	-7.056	-5.908	-31.461	32.779	-0.000	-0.001	0.000
	9:DERX3	25.252	-0.817	13.501	28.646	0.001	0.002	0.001
	10:DERX4	-26.589	-3.352	-14.758	30.594	0.000	-0.002	-0.000
	11:DERZ3	5.401	0.635	29.855	30.346	0.001	0.001	0.000
	12:DERZ4	-6.738	-4.804	-31.111	32.193	-0.000	-0.001	0.000
191	5:DERX1	25.811	-0.788	13.443	29.113	0.001	0.002	0.001
	6:DERX2	-27.598	-1.487	-14.365	31.148	0.000	-0.003	0.001
	7:DERZ1	6.611	-0.375	29.566	30.298	0.001	0.000	0.001
	8:DERZ2	-8.397	-1.900	-30.488	31.680	0.000	-0.001	0.001
	9:DERX3	26.127	-0.400	13.617	29.465	0.001	0.002	0.001
	10:DERX4	-27.283	-1.100	-14.191	30.772	0.000	-0.002	0.000
	11:DERZ3	6.926	0.013	29.740	30.536	0.001	0.000	0.001
	12:DERZ4	-8.082	-1.513	-30.314	31.409	-0.000	-0.001	0.000
204	5:DERX1	25.372	-2.781	8.195	26.807	0.000	0.002	0.000
	6:DERX2	-26.806	-3.513	-8.075	28.216	-0.000	-0.002	-0.000
	7:DERZ1	5.578	-3.078	32.410	33.030	0.001	0.001	0.001
	8:DERZ2	-7.012	-3.216	-32.290	33.199	-0.001	-0.000	-0.001
	9:DERX3	25.622	-1.549	8.166	26.937	0.000	0.002	0.000
	10:DERX4	-26.556	-2.281	-8.105	27.858	-0.000	-0.002	-0.000
	11:DERZ3	5.828	-1.845	32.381	32.953	0.001	0.001	0.001
	12:DERZ4	-6.762	-1.984	-32.320	33.079	-0.001	-0.000	-0.001
205	5:DERX1	26.173	-2.482	10.520	28.317	-0.000	0.002	0.000
	6:DERX2	-27.080	-3.238	-10.122	29.090	-0.001	-0.002	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	5.444	-2.614	33.024	33.572	0.000	0.001	0.001
	8:DERZ2	-6.351	-3.106	-32.627	33.384	-0.001	-0.000	-0.001
	9:DERX3	26.319	-1.361	10.437	28.346	0.000	0.002	0.000
	10:DERX4	-26.934	-2.116	-10.205	28.880	-0.000	-0.002	-0.000
	11:DERZ3	5.590	-1.493	32.942	33.446	0.001	0.001	0.001
	12:DERZ4	-6.205	-1.985	-32.709	33.352	-0.001	-0.000	-0.001
206	5:DERX1	27.377	-1.915	13.292	30.493	-0.000	0.002	0.000
	6:DERX2	-27.739	-2.606	-12.632	30.591	-0.001	-0.002	-0.000
	7:DERZ1	5.372	-1.903	33.630	34.110	-0.000	0.001	0.000
	8:DERZ2	-5.734	-2.618	-32.971	33.568	-0.001	-0.000	-0.001
	9:DERX3	27.416	-1.031	13.159	30.428	-0.000	0.002	0.000
	10:DERX4	-27.701	-1.722	-12.766	30.549	-0.000	-0.002	-0.000
	11:DERZ3	5.410	-1.019	33.497	33.947	0.000	0.001	0.000
	12:DERZ4	-5.695	-1.734	-33.104	33.635	-0.001	-0.000	-0.001
207	5:DERX1	26.416	-2.468	10.125	28.397	-0.001	0.002	0.001
	6:DERX2	-29.729	-2.777	-11.327	31.935	-0.001	-0.002	0.001
	7:DERZ1	6.604	-2.052	29.905	30.694	-0.001	0.001	0.001
	8:DERZ2	-9.917	-3.193	-31.107	32.805	-0.001	-0.000	0.001
	9:DERX3	27.039	-1.497	10.350	28.990	-0.000	0.002	0.001
	10:DERX4	-29.106	-1.806	-11.102	31.204	-0.001	-0.002	0.000
	11:DERZ3	7.227	-1.081	30.130	31.003	-0.000	0.001	0.001
	12:DERZ4	-9.294	-2.222	-30.882	32.327	-0.001	-0.000	0.000
208	5:DERX1	25.545	-2.637	8.023	26.905	0.000	0.002	0.000
	6:DERX2	-28.425	-3.061	-8.863	29.932	-0.000	-0.002	-0.000
	7:DERZ1	6.287	-2.301	30.537	31.262	0.000	0.001	0.000
	8:DERZ2	-9.168	-3.397	-31.378	32.866	-0.000	-0.000	-0.000
	9:DERX3	26.082	-1.554	8.177	27.378	0.000	0.002	0.000
	10:DERX4	-27.888	-1.978	-8.709	29.283	-0.000	-0.002	-0.000
	11:DERZ3	6.825	-1.218	30.692	31.465	0.000	0.001	0.000
	12:DERZ4	-8.630	-2.315	-31.223	32.476	-0.000	-0.000	-0.000
209	5:DERX1	25.065	-2.812	6.724	26.103	0.001	0.002	0.000
	6:DERX2	-27.485	-3.355	-7.213	28.613	0.000	-0.002	-0.000
	7:DERZ1	6.012	-2.680	31.175	31.862	0.001	0.001	0.000
	8:DERZ2	-8.432	-3.487	-31.664	32.953	-0.000	-0.000	-0.001
	9:DERX3	25.511	-1.621	6.811	26.454	0.000	0.002	0.000
	10:DERX4	-27.039	-2.164	-7.126	28.045	-0.000	-0.002	-0.000
	11:DERZ3	6.458	-1.490	31.262	31.957	0.001	0.001	0.001
	12:DERZ4	-7.986	-2.296	-31.577	32.652	-0.000	-0.000	-0.001
210	5:DERX1	25.987	-2.269	7.081	27.030	-0.000	0.002	-0.000
	6:DERX2	-29.263	-2.622	-8.002	30.450	-0.001	-0.003	-0.001
	7:DERZ1	6.377	-1.959	30.748	31.463	-0.000	0.000	-0.000
	8:DERZ2	-9.652	-2.932	-31.669	33.237	-0.001	-0.001	-0.001
	9:DERX3	26.603	-1.358	7.258	27.609	-0.000	0.002	-0.000
	10:DERX4	-28.647	-1.711	-7.825	29.745	-0.001	-0.002	-0.001
	11:DERZ3	6.993	-1.048	30.925	31.723	0.000	0.000	-0.000
	12:DERZ4	-9.036	-2.021	-31.492	32.825	-0.001	-0.001	-0.001
211	5:DERX1	25.536	-1.033	6.907	26.474	-0.000	0.002	0.000
	6:DERX2	-29.614	-1.105	-7.915	30.673	-0.001	-0.002	0.000
	7:DERZ1	5.857	-1.059	31.666	32.220	0.001	0.001	0.000
	8:DERZ2	-9.935	-1.078	-32.673	34.167	-0.002	-0.001	0.000
	9:DERX3	26.308	-0.653	7.108	27.259	0.000	0.002	0.000
	10:DERX4	-28.842	-0.725	-7.714	29.865	-0.001	-0.002	0.000
	11:DERZ3	6.629	-0.680	31.866	32.556	0.001	0.001	0.000
	12:DERZ4	-9.164	-0.698	-32.472	33.748	-0.002	-0.001	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
212	5:DERX1	25.878	-0.575	11.740	28.422	0.001	0.003	-0.000
	6:DERX2	-29.755	-2.376	-11.627	32.034	-0.000	-0.002	-0.000
	7:DERZ1	6.046	-1.120	32.953	33.521	0.002	0.001	-0.000
	8:DERZ2	-9.923	-1.831	-32.840	34.356	-0.001	-0.001	-0.000
	9:DERX3	26.615	-0.049	11.730	29.085	0.001	0.002	-0.000
	10:DERX4	-29.018	-1.851	-11.636	31.319	-0.001	-0.002	-0.000
	11:DERZ3	6.783	-0.594	32.943	33.640	0.002	0.001	-0.000
	12:DERZ4	-9.187	-1.306	-32.850	34.135	-0.002	-0.001	-0.000
213	5:DERX1	26.254	-1.632	11.267	28.616	0.000	0.002	0.001
	6:DERX2	-28.905	-2.072	-12.229	31.454	-0.000	-0.002	0.001
	7:DERZ1	6.726	-1.401	29.817	30.598	-0.000	0.000	0.001
	8:DERZ2	-9.377	-2.303	-30.779	32.258	-0.000	-0.001	0.001
	9:DERX3	26.748	-0.950	11.450	29.111	0.000	0.002	0.001
	10:DERX4	-28.411	-1.389	-12.046	30.890	-0.000	-0.002	0.000
	11:DERZ3	7.220	-0.718	30.000	30.865	-0.000	0.001	0.001
	12:DERZ4	-8.883	-1.621	-30.596	31.900	-0.000	-0.001	0.000
214	5:DERX1	0.292	-2.348	0.000	2.366	-0.001	0.000	0.003
	6:DERX2	-0.293	-2.834	-0.000	2.850	-0.001	-0.000	-0.002
	7:DERZ1	0.006	-2.115	0.000	2.115	-0.001	0.000	0.001
	8:DERZ2	-0.007	-3.068	-0.000	3.068	-0.002	-0.000	-0.000
	9:DERX3	0.292	-1.423	0.000	1.452	-0.000	0.000	0.002
	10:DERX4	-0.293	-1.909	-0.000	1.931	-0.001	-0.000	-0.002
	11:DERZ3	0.006	-1.189	0.000	1.189	-0.000	0.000	0.001
	12:DERZ4	-0.007	-2.142	-0.000	2.142	-0.001	-0.000	-0.000
215	5:DERX1	0.292	-2.249	0.000	2.268	-0.001	0.000	0.002
	6:DERX2	-0.293	-2.621	-0.000	2.638	-0.001	-0.000	-0.002
	7:DERZ1	0.006	-2.051	0.000	2.051	-0.000	0.000	0.000
	8:DERZ2	-0.007	-2.820	-0.000	2.820	-0.002	-0.000	-0.001
	9:DERX3	0.292	-1.385	0.000	1.416	-0.000	0.000	0.002
	10:DERX4	-0.293	-1.757	-0.000	1.781	-0.001	-0.000	-0.002
	11:DERZ3	0.006	-1.187	0.000	1.187	-0.000	0.000	0.000
	12:DERZ4	-0.007	-1.956	-0.000	1.956	-0.001	-0.000	-0.001
216	5:DERX1	0.299	-2.523	0.000	2.540	-0.002	0.000	0.002
	6:DERX2	-0.299	-4.883	-0.000	4.892	-0.002	-0.000	-0.003
	7:DERZ1	0.006	-0.388	0.000	0.388	-0.002	0.000	-0.000
	8:DERZ2	-0.007	-7.017	-0.000	7.017	-0.002	-0.000	-0.001
	9:DERX3	0.299	-0.777	0.000	0.832	-0.001	0.000	0.003
	10:DERX4	-0.299	-3.137	-0.000	3.151	-0.001	-0.000	-0.003
	11:DERZ3	0.006	1.358	0.000	1.358	-0.001	0.000	0.000
	12:DERZ4	-0.006	-5.271	-0.000	5.271	-0.001	-0.000	-0.001
217	5:DERX1	0.299	-1.333	0.000	1.366	-0.001	0.000	0.004
	6:DERX2	-0.299	-3.411	-0.000	3.424	-0.001	-0.000	-0.003
	7:DERZ1	0.006	0.643	0.000	0.644	-0.001	0.000	0.001
	8:DERZ2	-0.007	-5.388	-0.000	5.388	-0.001	-0.000	-0.000
	9:DERX3	0.299	-0.435	0.000	0.528	-0.001	0.000	0.004
	10:DERX4	-0.299	-2.513	-0.000	2.531	-0.001	-0.000	-0.003
	11:DERZ3	0.006	1.542	0.000	1.542	-0.001	0.000	0.001
	12:DERZ4	-0.006	-4.490	-0.000	4.490	-0.001	-0.000	-0.000
219	5:DERX1	0.305	-5.599	0.000	5.607	-0.003	0.000	0.002
	6:DERX2	-0.306	-7.254	-0.000	7.261	-0.003	-0.000	-0.001
	7:DERZ1	0.006	-2.475	0.000	2.475	-0.003	0.000	0.000
	8:DERZ2	-0.007	-10.379	-0.000	10.379	-0.004	-0.000	-0.000
	9:DERX3	0.306	-2.549	0.000	2.567	-0.002	0.000	0.002
	10:DERX4	-0.306	-4.205	-0.000	4.216	-0.002	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	0.006	0.575	0.000	0.575	-0.001	0.000	0.000
	12:DERZ4	-0.006	-7.329	-0.000	7.329	-0.002	-0.000	-0.000
220	5:DERX1	0.299	-5.383	0.000	5.392	-0.002	0.000	0.001
	6:DERX2	-0.299	-5.584	-0.000	5.592	-0.002	-0.000	-0.001
	7:DERZ1	0.006	-5.053	0.000	5.053	-0.001	0.000	0.000
	8:DERZ2	-0.007	-5.915	-0.000	5.915	-0.003	-0.000	-0.000
	9:DERX3	0.299	-3.225	0.000	3.239	-0.001	0.000	0.001
	10:DERX4	-0.299	-3.426	-0.000	3.439	-0.002	-0.000	-0.001
	11:DERZ3	0.006	-2.895	0.000	2.895	-0.001	0.000	0.000
	12:DERZ4	-0.007	-3.756	-0.000	3.756	-0.002	-0.000	-0.000
221	5:DERX1	0.526	-3.370	0.000	3.411	0.000	0.000	0.002
	6:DERX2	-0.526	-4.645	-0.000	4.674	-0.000	-0.000	-0.002
	7:DERZ1	0.000	-2.299	0.000	2.299	0.001	0.000	0.001
	8:DERZ2	-0.000	-5.716	-0.000	5.716	-0.001	-0.000	-0.000
	9:DERX3	0.526	-1.925	0.000	1.995	0.000	0.000	0.002
	10:DERX4	-0.526	-3.200	-0.000	3.243	-0.000	-0.000	-0.002
	11:DERZ3	0.000	-0.854	0.000	0.854	0.001	0.000	0.001
	12:DERZ4	-0.000	-4.271	-0.000	4.271	-0.001	-0.000	-0.000
222	5:DERX1	0.526	-3.106	0.000	3.150	0.000	0.000	0.002
	6:DERX2	-0.526	-4.659	-0.000	4.689	-0.000	-0.000	-0.002
	7:DERZ1	0.000	-1.954	0.000	1.954	0.001	0.000	0.000
	8:DERZ2	-0.000	-5.811	-0.000	5.811	-0.001	-0.000	-0.001
	9:DERX3	0.526	-1.710	0.000	1.789	0.000	0.000	0.002
	10:DERX4	-0.526	-3.264	-0.000	3.306	-0.000	-0.000	-0.002
	11:DERZ3	0.000	-0.559	0.000	0.559	0.001	0.000	0.000
	12:DERZ4	-0.000	-4.415	-0.000	4.415	-0.001	-0.000	-0.001
223	5:DERX1	0.521	-5.970	0.000	5.992	0.000	0.000	0.002
	6:DERX2	-0.521	-7.328	-0.000	7.347	-0.000	-0.000	-0.003
	7:DERZ1	0.000	-4.690	0.000	4.690	0.001	0.000	-0.000
	8:DERZ2	-0.000	-8.608	-0.000	8.608	-0.001	-0.000	-0.001
	9:DERX3	0.521	-2.916	0.000	2.962	0.000	0.000	0.002
	10:DERX4	-0.521	-4.275	-0.000	4.306	-0.000	-0.000	-0.003
	11:DERZ3	0.000	-1.636	0.000	1.636	0.001	0.000	0.000
	12:DERZ4	-0.000	-5.554	-0.000	5.554	-0.001	-0.000	-0.001
224	5:DERX1	0.523	-3.609	0.000	3.646	0.000	0.000	0.003
	6:DERX2	-0.523	-4.676	-0.000	4.705	-0.000	-0.000	-0.003
	7:DERZ1	0.000	-2.451	0.000	2.451	0.001	0.000	0.001
	8:DERZ2	-0.000	-5.834	-0.000	5.834	-0.001	-0.000	-0.000
	9:DERX3	0.523	-2.102	0.000	2.166	0.000	0.000	0.003
	10:DERX4	-0.523	-3.170	-0.000	3.213	-0.000	-0.000	-0.003
	11:DERZ3	0.000	-0.944	0.000	0.944	0.001	0.000	0.001
	12:DERZ4	-0.000	-4.328	-0.000	4.328	-0.001	-0.000	-0.000
226	5:DERX1	0.535	-11.225	0.000	11.238	-0.000	0.000	0.001
	6:DERX2	-0.535	-12.455	-0.000	12.467	-0.001	-0.000	-0.001
	7:DERZ1	0.000	-8.910	0.000	8.910	0.001	0.000	0.000
	8:DERZ2	-0.000	-14.770	-0.000	14.770	-0.001	-0.000	-0.000
	9:DERX3	0.535	-5.796	0.000	5.821	-0.000	0.000	0.001
	10:DERX4	-0.535	-7.026	-0.000	7.047	-0.000	-0.000	-0.001
	11:DERZ3	0.000	-3.481	0.000	3.481	0.001	0.000	0.000
	12:DERZ4	-0.000	-9.341	-0.000	9.341	-0.001	-0.000	-0.000
227	5:DERX1	0.539	-7.445	0.000	7.464	0.001	0.000	0.001
	6:DERX2	-0.539	-8.686	-0.000	8.702	0.000	-0.000	-0.001
	7:DERZ1	0.000	-5.166	0.000	5.166	0.001	0.000	0.000
	8:DERZ2	-0.000	-10.964	-0.000	10.964	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	0.539	-4.243	0.000	4.277	0.000	0.000	0.001
	10:DERX4	-0.539	-5.483	-0.000	5.510	0.000	-0.000	-0.001
	11:DERZ3	0.000	-1.964	0.000	1.964	0.001	0.000	0.000
	12:DERZ4	-0.000	-7.762	-0.000	7.762	-0.001	-0.000	-0.000
228	5:DERX1	0.298	-1.038	0.000	1.080	0.001	0.000	0.002
	6:DERX2	-0.297	-3.399	-0.000	3.412	0.001	-0.000	-0.002
	7:DERZ1	0.007	0.820	0.000	0.820	0.001	0.000	0.001
	8:DERZ2	-0.006	-5.257	-0.000	5.257	0.001	-0.000	-0.000
	9:DERX3	0.298	-0.210	0.000	0.364	0.001	0.000	0.002
	10:DERX4	-0.297	-2.571	-0.000	2.588	0.001	-0.000	-0.002
	11:DERZ3	0.006	1.648	0.000	1.648	0.001	0.000	0.001
	12:DERZ4	-0.006	-4.429	-0.000	4.429	0.001	-0.000	-0.000
229	5:DERX1	0.298	-0.857	0.000	0.907	0.001	0.000	0.002
	6:DERX2	-0.297	-3.518	-0.000	3.530	0.001	-0.000	-0.002
	7:DERZ1	0.007	1.090	0.000	1.090	0.001	0.000	0.000
	8:DERZ2	-0.006	-5.464	-0.000	5.464	0.001	-0.000	-0.001
	9:DERX3	0.298	-0.041	0.000	0.301	0.001	0.000	0.002
	10:DERX4	-0.297	-2.703	-0.000	2.719	0.001	-0.000	-0.002
	11:DERZ3	0.006	1.905	0.000	1.905	0.001	0.000	0.000
	12:DERZ4	-0.006	-4.649	-0.000	4.649	0.001	-0.000	-0.001
230	5:DERX1	0.282	-3.900	0.000	3.911	0.002	0.000	0.002
	6:DERX2	-0.281	-4.233	-0.000	4.242	0.002	-0.000	-0.003
	7:DERZ1	0.007	-3.690	0.000	3.690	0.002	0.000	-0.000
	8:DERZ2	-0.006	-4.443	-0.000	4.443	0.001	-0.000	-0.001
	9:DERX3	0.282	-2.078	0.000	2.097	0.001	0.000	0.002
	10:DERX4	-0.281	-2.410	-0.000	2.427	0.001	-0.000	-0.002
	11:DERZ3	0.006	-1.868	0.000	1.868	0.002	0.000	0.000
	12:DERZ4	-0.006	-2.621	-0.000	2.621	0.000	-0.000	-0.001
231	5:DERX1	0.286	-2.350	0.000	2.368	0.001	0.000	0.003
	6:DERX2	-0.286	-2.930	-0.000	2.944	0.001	-0.000	-0.003
	7:DERZ1	0.007	-2.162	0.000	2.162	0.002	0.000	0.001
	8:DERZ2	-0.006	-3.119	-0.000	3.119	0.001	-0.000	-0.000
	9:DERX3	0.286	-1.403	0.000	1.432	0.001	0.000	0.003
	10:DERX4	-0.286	-1.983	-0.000	2.003	0.001	-0.000	-0.003
	11:DERZ3	0.007	-1.214	0.000	1.214	0.001	0.000	0.001
	12:DERZ4	-0.006	-2.172	-0.000	2.172	0.000	-0.000	-0.000
233	5:DERX1	0.289	-7.444	0.000	7.450	0.003	0.000	0.001
	6:DERX2	-0.288	-7.854	-0.000	7.859	0.003	-0.000	-0.000
	7:DERZ1	0.007	-7.204	0.000	7.204	0.004	0.000	0.000
	8:DERZ2	-0.006	-8.094	-0.000	8.094	0.002	-0.000	0.000
	9:DERX3	0.289	-4.017	0.000	4.028	0.002	0.000	0.001
	10:DERX4	-0.288	-4.427	-0.000	4.436	0.002	-0.000	-0.000
	11:DERZ3	0.006	-3.777	0.000	3.777	0.003	0.000	0.000
	12:DERZ4	-0.006	-4.667	-0.000	4.667	0.001	-0.000	0.000
234	5:DERX1	0.305	-3.393	0.000	3.406	0.002	0.000	0.001
	6:DERX2	-0.304	-5.059	-0.000	5.069	0.002	-0.000	-0.001
	7:DERZ1	0.007	-0.308	0.000	0.308	0.003	0.000	0.000
	8:DERZ2	-0.006	-8.144	-0.000	8.144	0.002	-0.000	-0.000
	9:DERX3	0.304	-1.640	0.000	1.668	0.002	0.000	0.001
	10:DERX4	-0.304	-3.307	-0.000	3.321	0.001	-0.000	-0.001
	11:DERZ3	0.006	1.445	0.000	1.445	0.002	0.000	0.000
	12:DERZ4	-0.006	-6.391	-0.000	6.391	0.001	-0.000	-0.000
235	5:DERX1	0.005	0.243	0.000	0.243	0.000	0.000	0.002
	6:DERX2	-0.004	0.200	-0.000	0.200	-0.000	-0.000	-0.003

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	0.000	0.227	0.000	0.227	0.000	0.000	0.000
	8:DERZ2	-0.000	0.216	-0.000	0.216	-0.001	-0.000	-0.001
	9:DERX3	0.005	0.140	0.000	0.140	0.000	0.000	0.002
	10:DERX4	-0.004	0.097	-0.000	0.097	-0.000	-0.000	-0.003
	11:DERZ3	0.000	0.124	0.000	0.124	0.001	0.000	0.000
	12:DERZ4	-0.000	0.113	-0.000	0.113	-0.001	-0.000	-0.001
236	5:DERX1	0.005	0.339	0.000	0.339	0.000	0.000	0.003
	6:DERX2	-0.004	0.305	-0.000	0.305	-0.000	-0.000	-0.002
	7:DERZ1	0.000	0.326	0.000	0.326	0.001	0.000	0.001
	8:DERZ2	-0.000	0.318	-0.000	0.318	-0.001	-0.000	-0.000
	9:DERX3	0.005	0.216	0.000	0.216	0.000	0.000	0.003
	10:DERX4	-0.005	0.182	-0.000	0.182	-0.000	-0.000	-0.002
	11:DERZ3	0.000	0.203	0.000	0.203	0.001	0.000	0.001
	12:DERZ4	-0.000	0.195	-0.000	0.195	-0.001	-0.000	-0.000
237	5:DERX1	0.004	1.460	0.000	1.460	-0.000	0.000	0.001
	6:DERX2	-0.004	1.334	-0.000	1.334	-0.000	-0.000	-0.000
	7:DERZ1	0.000	1.406	0.000	1.406	0.000	0.000	0.000
	8:DERZ2	-0.000	1.387	-0.000	1.387	-0.000	-0.000	-0.000
	9:DERX3	0.004	0.835	0.000	0.835	0.000	0.000	0.001
	10:DERX4	-0.004	0.709	-0.000	0.709	-0.000	-0.000	-0.000
	11:DERZ3	0.000	0.781	0.000	0.781	0.000	0.000	0.000
	12:DERZ4	-0.000	0.762	-0.000	0.762	-0.000	-0.000	-0.000
238	5:DERX1	14.436	-1.825	6.260	15.840	-0.001	0.001	0.003
	6:DERX2	-14.490	-4.744	-6.484	16.568	-0.002	-0.001	-0.003
	7:DERZ1	2.884	-0.371	14.604	14.891	-0.001	0.000	0.001
	8:DERZ2	-2.938	-6.199	-14.828	16.338	-0.002	-0.000	-0.000
	9:DERX3	14.442	-0.675	6.310	15.775	-0.001	0.001	0.003
	10:DERX4	-14.484	-3.594	-6.433	16.251	-0.001	-0.001	-0.003
	11:DERZ3	2.890	0.779	14.655	14.957	-0.000	0.000	0.001
	12:DERZ4	-2.932	-5.048	-14.777	15.889	-0.001	-0.000	-0.001
239	5:DERX1	14.434	-1.640	6.883	16.075	-0.001	0.001	0.003
	6:DERX2	-14.489	-5.471	-6.785	16.908	-0.002	-0.001	-0.003
	7:DERZ1	2.881	0.214	15.602	15.867	-0.001	0.000	0.001
	8:DERZ2	-2.936	-7.325	-15.504	17.397	-0.002	-0.000	-0.001
	9:DERX3	14.440	-0.374	6.870	15.996	-0.001	0.001	0.003
	10:DERX4	-14.482	-4.204	-6.798	16.542	-0.001	-0.001	-0.003
	11:DERZ3	2.887	1.481	15.589	15.923	-0.001	0.000	0.001
	12:DERZ4	-2.929	-6.059	-15.517	16.913	-0.001	-0.000	-0.001
240	5:DERX1	23.152	-2.522	6.721	24.239	-0.002	0.001	0.004
	6:DERX2	-22.955	-5.624	-6.673	24.558	-0.002	-0.001	-0.005
	7:DERZ1	3.415	-1.046	15.630	16.033	-0.001	0.000	0.000
	8:DERZ2	-3.218	-7.099	-15.583	17.424	-0.002	-0.000	-0.001
	9:DERX3	23.105	-1.019	6.726	24.086	-0.001	0.001	0.004
	10:DERX4	-23.002	-4.121	-6.668	24.301	-0.001	-0.001	-0.005
	11:DERZ3	3.368	0.456	15.636	16.001	-0.001	0.000	0.001
	12:DERZ4	-3.265	-5.597	-15.578	16.872	-0.002	-0.000	-0.001
241	5:DERX1	23.140	-1.698	6.149	24.003	-0.001	0.001	0.004
	6:DERX2	-22.942	-4.720	-6.274	24.248	-0.002	-0.001	-0.004
	7:DERZ1	3.414	0.005	14.634	15.027	-0.001	0.000	0.001
	8:DERZ2	-3.216	-6.422	-14.759	16.414	-0.002	-0.000	-0.001
	9:DERX3	23.093	-0.578	6.189	23.915	-0.001	0.001	0.004
	10:DERX4	-22.990	-3.600	-6.234	24.090	-0.001	-0.001	-0.004
	11:DERZ3	3.367	1.125	14.675	15.098	-0.001	0.000	0.001
	12:DERZ4	-3.264	-5.302	-14.719	15.982	-0.001	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
242	5:DERX1	23.146	-5.979	3.187	24.117	-0.003	0.001	0.002
	6:DERX2	-22.948	-7.400	-3.252	24.330	-0.003	-0.001	-0.002
	7:DERZ1	3.415	-3.320	15.078	15.812	-0.003	0.000	0.001
	8:DERZ2	-3.217	-10.059	-15.143	18.462	-0.003	-0.000	-0.000
	9:DERX3	23.099	-3.556	3.215	23.591	-0.002	0.001	0.002
	10:DERX4	-22.996	-4.977	-3.223	23.748	-0.002	-0.001	-0.002
	11:DERZ3	3.368	-0.897	15.106	15.503	-0.002	0.000	0.000
	12:DERZ4	-3.265	-7.635	-15.114	17.245	-0.002	-0.000	-0.000
243	5:DERX1	14.440	-6.556	3.186	16.175	-0.002	0.001	0.001
	6:DERX2	-14.494	-6.934	-3.239	16.391	-0.003	-0.001	-0.001
	7:DERZ1	2.884	-6.112	15.098	16.541	-0.002	0.000	0.000
	8:DERZ2	-2.938	-7.377	-15.150	17.105	-0.003	-0.000	-0.000
	9:DERX3	14.446	-4.123	3.204	15.360	-0.001	0.001	0.001
	10:DERX4	-14.488	-4.501	-3.222	15.510	-0.002	-0.001	-0.001
	11:DERZ3	2.889	-3.680	15.115	15.823	-0.001	0.000	0.000
	12:DERZ4	-2.932	-4.945	-15.133	16.188	-0.002	-0.000	-0.000
244	5:DERX1	14.508	-5.070	6.272	16.599	0.001	0.001	0.003
	6:DERX2	-14.651	-5.251	-6.497	16.865	-0.001	-0.001	-0.003
	7:DERZ1	3.124	-4.911	14.622	15.738	0.002	0.000	0.001
	8:DERZ2	-3.267	-5.409	-14.847	16.136	-0.002	-0.000	-0.000
	9:DERX3	14.532	-3.261	6.322	16.179	0.001	0.001	0.003
	10:DERX4	-14.628	-3.442	-6.447	16.352	-0.001	-0.001	-0.003
	11:DERZ3	3.147	-3.103	14.672	15.324	0.002	0.000	0.001
	12:DERZ4	-3.244	-3.600	-14.797	15.571	-0.002	-0.000	-0.001
245	5:DERX1	14.508	-5.085	6.904	16.852	0.001	0.001	0.003
	6:DERX2	-14.650	-5.710	-6.799	17.130	-0.001	-0.001	-0.003
	7:DERZ1	3.124	-4.852	15.609	16.642	0.002	0.000	0.001
	8:DERZ2	-3.266	-5.943	-15.504	16.922	-0.002	-0.000	-0.001
	9:DERX3	14.531	-3.178	6.888	16.392	0.001	0.001	0.003
	10:DERX4	-14.627	-3.803	-6.814	16.578	-0.001	-0.001	-0.003
	11:DERZ3	3.147	-2.945	15.594	16.178	0.002	0.000	0.001
	12:DERZ4	-3.243	-4.035	-15.519	16.360	-0.002	-0.000	-0.001
246	5:DERX1	22.053	-6.848	6.741	24.055	0.001	0.001	0.003
	6:DERX2	-21.867	-7.279	-6.678	23.995	-0.001	-0.001	-0.004
	7:DERZ1	3.294	-6.621	15.630	17.291	0.002	0.000	0.000
	8:DERZ2	-3.108	-7.507	-15.568	17.561	-0.002	-0.000	-0.001
	9:DERX3	22.008	-4.190	6.741	23.396	0.001	0.001	0.003
	10:DERX4	-21.911	-4.621	-6.678	23.368	-0.001	-0.001	-0.004
	11:DERZ3	3.249	-3.963	15.631	16.450	0.002	0.000	0.000
	12:DERZ4	-3.152	-4.848	-15.567	16.607	-0.002	-0.000	-0.001
247	5:DERX1	22.073	-5.001	6.153	23.454	0.001	0.001	0.004
	6:DERX2	-21.889	-5.319	-6.278	23.384	-0.001	-0.001	-0.004
	7:DERZ1	3.293	-4.958	14.626	15.791	0.002	0.000	0.001
	8:DERZ2	-3.108	-5.362	-14.752	16.001	-0.002	-0.000	-0.001
	9:DERX3	22.029	-3.196	6.193	23.105	0.001	0.001	0.004
	10:DERX4	-21.933	-3.514	-6.239	23.072	-0.001	-0.001	-0.004
	11:DERZ3	3.249	-3.153	14.666	15.349	0.002	0.000	0.001
	12:DERZ4	-3.152	-3.558	-14.712	15.461	-0.002	-0.000	-0.001
248	5:DERX1	22.072	-10.878	3.194	24.813	0.000	0.001	0.002
	6:DERX2	-21.886	-11.852	-3.248	25.101	-0.000	-0.001	-0.001
	7:DERZ1	3.294	-9.648	15.095	18.215	0.001	0.000	0.001
	8:DERZ2	-3.108	-13.083	-15.150	20.257	-0.001	-0.000	0.000
	9:DERX3	22.028	-6.721	3.218	23.254	0.000	0.001	0.002
	10:DERX4	-21.931	-7.695	-3.223	23.464	-0.000	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	3.250	-5.491	15.120	16.411	0.001	0.000	0.000
	12:DERZ4	-3.153	-8.925	-15.125	17.843	-0.001	-0.000	-0.000
249	5:DERX1	14.512	-9.637	3.187	17.709	0.000	0.001	0.001
	6:DERX2	-14.654	-10.469	-3.236	18.298	-0.000	-0.001	-0.001
	7:DERZ1	3.125	-8.078	15.099	17.407	0.001	0.000	0.000
	8:DERZ2	-3.267	-12.027	-15.148	19.616	-0.001	-0.000	-0.000
	9:DERX3	14.535	-6.011	3.203	16.051	0.000	0.001	0.001
	10:DERX4	-14.631	-6.843	-3.220	16.470	-0.000	-0.001	-0.001
	11:DERZ3	3.148	-4.453	15.115	16.068	0.001	0.000	0.000
	12:DERZ4	-3.244	-8.402	-15.132	17.610	-0.001	-0.000	-0.000
250	5:DERX1	13.694	-1.727	6.282	15.165	0.002	0.001	0.003
	6:DERX2	-13.925	-4.646	-6.507	16.058	0.001	-0.001	-0.002
	7:DERZ1	3.099	0.067	14.635	14.959	0.002	0.000	0.001
	8:DERZ2	-3.331	-6.440	-14.861	16.535	0.001	-0.000	-0.001
	9:DERX3	13.734	-0.613	6.331	15.136	0.001	0.001	0.003
	10:DERX4	-13.885	-3.532	-6.458	15.716	0.001	-0.001	-0.002
	11:DERZ3	3.140	1.181	14.684	15.062	0.001	0.000	0.001
	12:DERZ4	-3.290	-5.326	-14.811	16.080	0.001	-0.000	-0.001
251	5:DERX1	13.698	-1.842	6.922	15.458	0.002	0.001	0.003
	6:DERX2	-13.930	-4.724	-6.811	16.209	0.001	-0.001	-0.003
	7:DERZ1	3.100	-0.321	15.610	15.918	0.002	0.000	0.001
	8:DERZ2	-3.332	-6.245	-15.499	17.039	0.001	-0.000	-0.001
	9:DERX3	13.738	-0.686	6.904	15.391	0.001	0.001	0.003
	10:DERX4	-13.889	-3.568	-6.828	15.883	0.001	-0.001	-0.003
	11:DERZ3	3.141	0.836	15.592	15.927	0.001	0.000	0.001
	12:DERZ4	-3.292	-5.089	-15.516	16.658	0.000	-0.000	-0.001
252	5:DERX1	19.696	-2.994	6.759	21.038	0.002	0.001	0.002
	6:DERX2	-19.526	-5.974	-6.682	21.484	0.002	-0.001	-0.003
	7:DERZ1	3.017	-0.809	15.626	15.935	0.002	0.000	-0.000
	8:DERZ2	-2.846	-8.159	-15.548	17.788	0.001	-0.000	-0.001
	9:DERX3	19.656	-1.310	6.755	20.825	0.001	0.001	0.002
	10:DERX4	-19.566	-4.290	-6.686	21.117	0.001	-0.001	-0.003
	11:DERZ3	2.976	0.875	15.621	15.926	0.001	0.000	0.000
	12:DERZ4	-2.886	-6.475	-15.553	17.092	0.001	-0.000	-0.001
253	5:DERX1	19.765	-1.986	6.154	20.796	0.002	0.001	0.004
	6:DERX2	-19.596	-4.536	-6.280	21.072	0.001	-0.001	-0.004
	7:DERZ1	3.007	-0.333	14.613	14.922	0.002	0.000	0.001
	8:DERZ2	-2.838	-6.188	-14.738	16.234	0.001	-0.000	-0.001
	9:DERX3	19.725	-0.849	6.193	20.692	0.001	0.001	0.004
	10:DERX4	-19.636	-3.399	-6.241	20.883	0.001	-0.001	-0.004
	11:DERZ3	2.967	0.804	14.651	14.970	0.001	0.000	0.001
	12:DERZ4	-2.878	-5.051	-14.699	15.807	0.000	-0.000	-0.001
254	5:DERX1	19.757	-7.165	3.199	21.258	0.003	0.001	0.001
	6:DERX2	-19.588	-8.024	-3.242	21.415	0.003	-0.001	-0.000
	7:DERZ1	3.001	-6.820	15.105	16.843	0.003	0.000	0.001
	8:DERZ2	-2.833	-8.369	-15.148	17.537	0.002	-0.000	0.000
	9:DERX3	19.717	-4.387	3.220	20.454	0.002	0.001	0.001
	10:DERX4	-19.628	-5.246	-3.221	20.571	0.002	-0.001	-0.001
	11:DERZ3	2.961	-4.042	15.126	15.934	0.002	0.000	0.000
	12:DERZ4	-2.872	-5.591	-15.127	16.381	0.001	-0.000	0.000
255	5:DERX1	13.697	-5.272	3.186	15.018	0.003	0.001	0.001
	6:DERX2	-13.928	-6.778	-3.231	15.823	0.003	-0.001	-0.001
	7:DERZ1	3.100	-2.477	15.089	15.602	0.003	0.000	0.000
	8:DERZ2	-3.331	-9.572	-15.134	18.215	0.003	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	13.737	-3.104	3.200	14.442	0.002	0.001	0.001
	10:DERX4	-13.888	-4.610	-3.217	14.983	0.002	-0.001	-0.001
	11:DERZ3	3.140	-0.309	15.103	15.429	0.002	0.000	0.000
	12:DERZ4	-3.291	-7.404	-15.120	17.155	0.002	-0.000	-0.000
257	5:DERX1	16.094	0.554	5.709	17.085	0.000	0.001	0.002
	6:DERX2	-15.996	-2.459	-5.870	17.216	-0.000	-0.001	-0.002
	7:DERZ1	2.734	-0.699	14.664	14.933	0.000	0.000	0.001
	8:DERZ2	-2.636	-1.206	-14.825	15.106	-0.000	-0.000	-0.000
	9:DERX3	16.070	0.870	5.751	17.090	0.000	0.001	0.002
	10:DERX4	-16.020	-2.142	-5.828	17.182	-0.000	-0.001	-0.002
	11:DERZ3	2.710	-0.383	14.706	14.958	0.000	0.000	0.001
	12:DERZ4	-2.661	-0.889	-14.783	15.047	-0.000	-0.000	-0.000
258	5:DERX1	16.121	0.485	3.193	16.441	0.000	0.001	0.001
	6:DERX2	-16.028	0.251	-3.238	16.353	-0.000	-0.001	-0.001
	7:DERZ1	2.737	0.387	15.098	15.349	0.001	0.000	0.000
	8:DERZ2	-2.644	0.349	-15.143	15.376	-0.001	-0.000	-0.000
	9:DERX3	16.097	0.375	3.212	16.419	0.000	0.001	0.001
	10:DERX4	-16.051	0.142	-3.220	16.371	-0.000	-0.001	-0.001
	11:DERZ3	2.714	0.277	15.116	15.361	0.001	0.000	0.000
	12:DERZ4	-2.668	0.240	-15.124	15.360	-0.001	-0.000	-0.000
271	5:DERX1	51.045	-1.587	7.007	51.548	0.000	0.002	0.000
	6:DERX2	-52.483	-4.486	-6.507	53.075	-0.001	-0.003	-0.001
	7:DERZ1	6.559	-2.747	30.621	31.436	0.000	0.000	0.000
	8:DERZ2	-7.997	-3.326	-30.122	31.342	-0.001	-0.001	-0.001
	9:DERX3	51.288	-0.413	6.919	51.754	0.000	0.002	0.000
	10:DERX4	-52.240	-3.312	-6.595	52.759	-0.001	-0.003	-0.001
	11:DERZ3	6.802	-1.573	30.534	31.322	0.000	0.000	0.000
	12:DERZ4	-7.754	-2.152	-30.209	31.263	-0.001	-0.001	-0.001
272	5:DERX1	45.280	-1.365	8.384	46.070	0.000	0.002	0.000
	6:DERX2	-46.025	-4.800	-8.232	47.001	-0.000	-0.003	-0.000
	7:DERZ1	6.096	-2.826	31.210	31.925	0.001	0.000	0.001
	8:DERZ2	-6.841	-3.339	-31.058	31.977	-0.001	-0.001	-0.001
	9:DERX3	45.387	-0.160	8.359	46.151	0.000	0.002	0.000
	10:DERX4	-45.917	-3.594	-8.257	46.792	-0.000	-0.003	-0.000
	11:DERZ3	6.204	-1.620	31.185	31.837	0.001	0.000	0.001
	12:DERZ4	-6.734	-2.134	-31.083	31.875	-0.001	-0.001	-0.001
273	5:DERX1	42.506	-1.113	10.812	43.873	0.000	0.002	0.000
	6:DERX2	-42.867	-4.491	-10.799	44.433	0.000	-0.003	-0.000
	7:DERZ1	5.955	-2.535	31.543	32.200	0.001	0.000	0.001
	8:DERZ2	-6.316	-3.069	-31.530	32.302	-0.000	-0.001	-0.001
	9:DERX3	42.538	-0.018	10.812	43.891	0.000	0.002	0.000
	10:DERX4	-42.834	-3.395	-10.799	44.305	0.000	-0.003	-0.000
	11:DERZ3	5.988	-1.439	31.542	32.138	0.001	0.000	0.001
	12:DERZ4	-6.284	-1.974	-31.530	32.211	-0.000	-0.001	-0.001
274	5:DERX1	54.028	-1.628	8.721	54.751	0.000	0.002	0.000
	6:DERX2	-55.789	-3.949	-8.021	56.501	-0.001	-0.003	-0.000
	7:DERZ1	6.859	-2.500	30.358	31.223	0.000	0.000	0.000
	8:DERZ2	-8.621	-3.077	-29.658	31.039	-0.000	-0.001	-0.000
	9:DERX3	54.334	-0.566	8.596	55.013	0.000	0.002	0.000
	10:DERX4	-55.483	-2.886	-8.145	56.152	-0.001	-0.003	-0.000
	11:DERZ3	7.166	-1.438	30.234	31.104	0.000	0.000	0.000
	12:DERZ4	-8.314	-2.014	-29.782	30.987	-0.000	-0.001	-0.000
275	5:DERX1	28.657	-1.041	11.778	31.000	0.001	0.002	-0.000
	6:DERX2	-27.781	-2.855	-11.499	30.201	-0.001	-0.002	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	7:DERZ1	5.504	-1.817	30.142	30.694	0.002	0.000	-0.000
	8:DERZ2	-4.628	-2.080	-29.863	30.291	-0.002	-0.000	-0.001
	9:DERX3	28.446	-0.179	11.724	30.768	0.001	0.002	-0.000
	10:DERX4	-27.992	-1.992	-11.552	30.347	-0.001	-0.002	-0.000
	11:DERZ3	5.293	-0.954	30.088	30.565	0.002	0.000	-0.000
	12:DERZ4	-4.839	-1.217	-29.916	30.330	-0.002	-0.000	-0.000
276	5:DERX1	35.449	-0.807	11.784	37.365	0.001	0.002	-0.000
	6:DERX2	-34.329	-3.255	-11.503	36.351	-0.001	-0.002	-0.001
	7:DERZ1	5.968	-1.822	30.159	30.798	0.002	0.000	-0.000
	8:DERZ2	-4.848	-2.240	-29.878	30.351	-0.002	-0.000	-0.001
	9:DERX3	35.188	0.090	11.730	37.092	0.001	0.002	-0.000
	10:DERX4	-34.590	-2.357	-11.557	36.546	-0.001	-0.002	-0.000
	11:DERZ3	5.707	-0.924	30.105	30.655	0.002	0.000	-0.000
	12:DERZ4	-5.109	-1.343	-29.932	30.395	-0.002	-0.000	-0.000
277	5:DERX1	28.656	-1.939	8.575	29.974	0.001	0.002	0.001
	6:DERX2	-27.777	-2.007	-8.352	29.075	-0.000	-0.002	-0.000
	7:DERZ1	5.499	-1.865	29.259	29.830	0.002	0.001	0.000
	8:DERZ2	-4.620	-2.080	-29.036	29.474	-0.001	-0.001	0.000
	9:DERX3	28.444	-1.073	8.534	29.716	0.001	0.002	0.001
	10:DERX4	-27.989	-1.140	-8.393	29.243	-0.000	-0.002	-0.000
	11:DERZ3	5.287	-0.999	29.218	29.709	0.002	0.001	0.000
	12:DERZ4	-4.833	-1.214	-29.077	29.501	-0.002	-0.001	0.000
278	5:DERX1	35.493	-2.023	8.577	36.571	0.000	0.002	0.001
	6:DERX2	-34.375	-2.126	-8.357	35.441	-0.001	-0.002	-0.000
	7:DERZ1	5.971	-1.963	29.261	29.928	0.001	0.001	0.001
	8:DERZ2	-4.854	-2.186	-29.040	29.524	-0.002	-0.001	0.000
	9:DERX3	35.232	-1.112	8.537	36.269	0.000	0.002	0.001
	10:DERX4	-34.636	-1.215	-8.398	35.661	-0.001	-0.002	-0.000
	11:DERZ3	5.710	-1.052	29.220	29.791	0.001	0.001	0.000
	12:DERZ4	-5.115	-1.275	-29.081	29.555	-0.002	-0.001	0.000
281	5:DERX1	28.688	-1.879	6.783	29.539	0.001	0.002	-0.000
	6:DERX2	-27.783	-2.129	-6.752	28.670	0.000	-0.002	-0.001
	7:DERZ1	5.505	-1.810	28.428	29.013	0.002	0.001	-0.000
	8:DERZ2	-4.600	-2.197	-28.397	28.851	-0.001	-0.000	-0.001
	9:DERX3	28.471	-1.245	6.781	29.294	0.001	0.002	0.000
	10:DERX4	-28.000	-1.495	-6.754	28.842	-0.000	-0.002	-0.001
	11:DERZ3	5.288	-1.176	28.426	28.938	0.002	0.001	-0.000
	12:DERZ4	-4.817	-1.564	-28.400	28.848	-0.001	-0.000	-0.000
282	5:DERX1	35.621	-1.864	6.789	36.310	-0.000	0.002	0.000
	6:DERX2	-34.481	-2.265	-6.745	35.208	-0.001	-0.002	-0.001
	7:DERZ1	5.994	-1.813	28.436	29.118	0.001	0.001	-0.000
	8:DERZ2	-4.855	-2.317	-28.392	28.898	-0.002	-0.000	-0.001
	9:DERX3	35.356	-1.206	6.784	36.021	0.000	0.002	0.000
	10:DERX4	-34.746	-1.606	-6.749	35.432	-0.000	-0.002	-0.001
	11:DERZ3	5.729	-1.154	28.432	29.026	0.001	0.001	-0.000
	12:DERZ4	-5.120	-1.658	-28.397	28.903	-0.001	-0.000	-0.000
283	5:DERX1	28.725	-1.178	9.663	30.329	0.001	0.002	0.001
	6:DERX2	-27.793	-3.103	-9.747	29.616	-0.000	-0.002	0.000
	7:DERZ1	5.518	-1.995	28.721	29.314	0.001	0.000	0.001
	8:DERZ2	-4.586	-2.286	-28.804	29.257	-0.001	-0.000	0.000
	9:DERX3	28.503	-0.510	9.684	30.107	0.000	0.002	0.000
	10:DERX4	-28.015	-2.436	-9.727	29.755	-0.000	-0.002	0.000
	11:DERZ3	5.296	-1.328	28.741	29.255	0.001	0.000	0.000
	12:DERZ4	-4.808	-1.618	-28.784	29.228	-0.001	-0.000	0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
284	5:DERX1	35.708	-0.730	9.665	37.000	0.000	0.002	0.001
	6:DERX2	-34.543	-3.606	-9.755	36.075	-0.001	-0.002	0.000
	7:DERZ1	6.015	-1.816	28.709	29.389	0.001	0.000	0.000
	8:DERZ2	-4.850	-2.520	-28.800	29.314	-0.001	-0.000	0.000
	9:DERX3	35.438	-0.051	9.687	36.738	0.000	0.002	0.001
	10:DERX4	-34.813	-2.927	-9.734	36.266	-0.000	-0.002	0.000
	11:DERZ3	5.745	-1.137	28.731	29.322	0.001	0.000	0.000
	12:DERZ4	-5.119	-1.841	-28.778	29.288	-0.001	-0.000	0.000
285	5:DERX1	17.395	-0.007	6.576	18.597	0.003	0.001	0.003
	6:DERX2	-17.265	-1.125	-6.490	18.479	-0.001	-0.001	-0.003
	7:DERZ1	2.774	-0.397	15.593	15.843	0.005	0.000	0.000
	8:DERZ2	-2.644	-0.735	-15.507	15.748	-0.003	-0.000	-0.001
	9:DERX3	17.364	0.209	6.568	18.566	0.002	0.001	0.003
	10:DERX4	-17.296	-0.909	-6.498	18.499	-0.001	-0.001	-0.003
	11:DERZ3	2.743	-0.181	15.585	15.825	0.004	0.000	0.000
	12:DERZ4	-2.675	-0.519	-15.515	15.752	-0.004	-0.000	-0.001
286	5:DERX1	14.611	0.109	6.626	16.043	0.001	0.001	0.002
	6:DERX2	-14.595	-1.187	-6.540	16.037	-0.002	-0.001	-0.003
	7:DERZ1	2.667	-0.438	15.576	15.809	0.003	0.000	0.000
	8:DERZ2	-2.651	-0.640	-15.490	15.728	-0.005	-0.000	-0.001
	9:DERX3	14.603	0.318	6.617	16.035	0.002	0.001	0.003
	10:DERX4	-14.602	-0.978	-6.549	16.034	-0.002	-0.001	-0.003
	11:DERZ3	2.659	-0.229	15.567	15.794	0.004	0.000	0.000
	12:DERZ4	-2.658	-0.431	-15.500	15.732	-0.004	-0.000	-0.001
287	5:DERX1	28.650	-0.698	14.595	32.161	0.001	0.002	0.001
	6:DERX2	-27.776	-1.148	-14.263	31.245	-0.001	-0.002	-0.002
	7:DERZ1	5.507	-0.751	30.263	30.769	0.002	0.000	-0.000
	8:DERZ2	-4.634	-1.095	-29.931	30.307	-0.002	-0.000	-0.001
	9:DERX3	28.440	-0.320	14.529	31.938	0.001	0.002	0.001
	10:DERX4	-27.986	-0.770	-14.329	31.451	-0.001	-0.002	-0.002
	11:DERZ3	5.297	-0.373	30.197	30.661	0.002	0.000	-0.000
	12:DERZ4	-4.844	-0.717	-29.997	30.394	-0.002	-0.000	-0.001
288	5:DERX1	35.399	-0.780	14.599	38.300	0.001	0.002	0.001
	6:DERX2	-34.278	-1.017	-14.248	37.135	-0.001	-0.002	-0.002
	7:DERZ1	5.962	-0.742	30.170	30.762	0.002	0.000	-0.000
	8:DERZ2	-4.841	-1.055	-29.819	30.228	-0.002	-0.000	-0.001
	9:DERX3	35.138	-0.423	14.530	38.027	0.001	0.002	0.002
	10:DERX4	-34.539	-0.659	-14.317	37.395	-0.001	-0.002	-0.002
	11:DERZ3	5.701	-0.384	30.101	30.639	0.002	0.000	0.000
	12:DERZ4	-5.102	-0.697	-29.888	30.328	-0.002	-0.000	-0.001
289	5:DERX1	16.207	-0.000	6.603	17.500	0.000	0.000	0.000
	6:DERX2	-16.113	-0.000	-6.517	17.381	0.000	0.000	0.000
	7:DERZ1	2.752	-0.000	15.589	15.830	0.000	0.000	0.000
	8:DERZ2	-2.659	-0.000	-15.503	15.730	0.000	0.000	0.000
	9:DERX3	16.183	-0.000	6.594	17.475	0.000	0.000	0.000
	10:DERX4	-16.137	-0.000	-6.526	17.406	0.000	0.000	0.000
	11:DERZ3	2.729	-0.000	15.581	15.818	0.000	0.000	0.000
	12:DERZ4	-2.683	-0.000	-15.512	15.742	0.000	0.000	0.000
290	5:DERX1	19.761	-10.043	3.759	22.483	0.005	0.001	0.001
	6:DERX2	-19.593	-11.651	-3.767	23.104	0.005	-0.001	-0.000
	7:DERZ1	3.001	-9.555	15.561	18.505	0.005	0.000	0.001
	8:DERZ2	-2.833	-12.140	-15.569	19.944	0.005	-0.000	0.000
	9:DERX3	19.721	-5.822	3.772	20.905	0.003	0.001	0.001
	10:DERX4	-19.632	-7.430	-3.755	21.324	0.003	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	11:DERZ3	2.961	-5.334	15.573	16.726	0.003	0.000	0.000
	12:DERZ4	-2.873	-7.918	-15.556	17.690	0.003	-0.000	0.000
291	5:DERX1	17.404	-1.140	3.750	17.840	0.002	0.001	0.001
	6:DERX2	-17.270	-1.236	-3.758	17.717	0.000	-0.001	-0.001
	7:DERZ1	2.779	-0.990	15.528	15.806	0.003	0.000	0.000
	8:DERZ2	-2.644	-1.385	-15.535	15.820	-0.001	-0.000	0.000
	9:DERX3	17.372	-0.688	3.762	17.788	0.002	0.001	0.001
	10:DERX4	-17.302	-0.784	-3.745	17.720	0.000	-0.001	-0.001
	11:DERZ3	2.747	-0.538	15.540	15.790	0.003	0.000	0.000
	12:DERZ4	-2.677	-0.933	-15.523	15.780	-0.001	-0.000	0.000
292	5:DERX1	22.078	-23.072	3.764	32.155	0.000	0.001	0.006
	6:DERX2	-21.893	-23.944	-3.772	32.662	0.000	-0.001	0.006
	7:DERZ1	3.296	-22.901	15.583	27.895	0.000	0.000	0.007
	8:DERZ2	-3.110	-24.115	-15.590	28.883	0.000	-0.000	0.005
	9:DERX3	22.034	-13.632	3.776	26.184	0.000	0.001	0.003
	10:DERX4	-21.937	-14.503	-3.759	26.565	0.000	-0.001	0.003
	11:DERZ3	3.251	-13.461	15.595	20.856	0.000	0.000	0.004
	12:DERZ4	-3.154	-14.674	-15.578	21.632	0.000	-0.000	0.003
293	5:DERX1	0.058	-0.826	0.000	0.828	0.002	0.000	0.001
	6:DERX2	-0.058	-1.343	-0.000	1.345	0.001	-0.000	-0.002
	7:DERZ1	0.005	-0.408	0.000	0.408	0.002	0.000	-0.000
	8:DERZ2	-0.004	-1.761	-0.000	1.761	0.001	-0.000	-0.001
	9:DERX3	0.058	-0.344	0.000	0.349	0.001	0.000	0.002
	10:DERX4	-0.058	-0.861	-0.000	0.863	0.001	-0.000	-0.002
	11:DERZ3	0.005	0.074	0.000	0.074	0.001	0.000	0.000
	12:DERZ4	-0.004	-1.279	-0.000	1.279	0.000	-0.000	-0.001
294	5:DERX1	0.058	-2.099	0.000	2.099	0.003	0.000	0.000
	6:DERX2	-0.057	-2.355	-0.000	2.356	0.003	-0.000	0.000
	7:DERZ1	0.005	-1.932	0.000	1.932	0.003	0.000	0.000
	8:DERZ2	-0.004	-2.522	-0.000	2.522	0.003	-0.000	0.000
	9:DERX3	0.058	-1.108	0.000	1.109	0.002	0.000	0.000
	10:DERX4	-0.057	-1.364	-0.000	1.365	0.002	-0.000	0.000
	11:DERZ3	0.005	-0.941	0.000	0.941	0.002	0.000	0.000
	12:DERZ4	-0.004	-1.531	-0.000	1.531	0.002	-0.000	0.000
295	5:DERX1	18.090	-0.631	6.770	19.325	0.003	0.001	0.001
	6:DERX2	-17.941	-2.554	-6.683	19.315	0.001	-0.001	-0.003
	7:DERZ1	2.835	0.892	15.621	15.901	0.004	0.000	-0.000
	8:DERZ2	-2.687	-4.077	-15.535	16.284	-0.001	-0.000	-0.001
	9:DERX3	18.055	-0.029	6.763	19.280	0.002	0.001	0.002
	10:DERX4	-17.976	-1.953	-6.691	19.280	0.000	-0.001	-0.003
	11:DERZ3	2.800	1.493	15.614	15.933	0.003	0.000	-0.000
	12:DERZ4	-2.722	-3.476	-15.542	16.157	-0.001	-0.000	-0.001
296	5:DERX1	18.103	-3.394	3.755	18.797	0.004	0.001	0.001
	6:DERX2	-17.953	-4.430	-3.763	18.871	0.003	-0.001	-0.000
	7:DERZ1	2.833	-2.871	15.541	16.056	0.004	0.000	0.001
	8:DERZ2	-2.684	-4.953	-15.549	16.538	0.003	-0.000	0.000
	9:DERX3	18.067	-1.889	3.767	18.552	0.003	0.001	0.001
	10:DERX4	-17.989	-2.924	-3.750	18.607	0.002	-0.001	-0.000
	11:DERZ3	2.798	-1.366	15.554	15.862	0.003	0.000	0.000
	12:DERZ4	-2.720	-3.447	-15.537	16.145	0.001	-0.000	0.000
297	5:DERX1	18.098	-2.525	3.201	18.552	0.003	0.001	0.001
	6:DERX2	-17.949	-3.072	-3.238	18.496	0.003	-0.001	0.000
	7:DERZ1	2.831	-1.842	15.106	15.479	0.003	0.000	0.001
	8:DERZ2	-2.682	-3.755	-15.143	15.830	0.002	-0.000	0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	9:DERX3	18.063	-1.500	3.220	18.409	0.002	0.001	0.001
	10:DERX4	-17.985	-2.048	-3.219	18.385	0.002	-0.001	-0.000
	11:DERZ3	2.796	-0.817	15.125	15.403	0.002	0.000	0.000
	12:DERZ4	-2.718	-2.730	-15.124	15.607	0.001	-0.000	0.000

JARDIN CAMPO VERDE

Calculo: JDH

VERIFICACION DE DERIVAS MAXIMAS NSR-10

EJE: H-9

COMBO DERX_1

COMBO DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	5.919	0.473	0.051%	9.884	1.127	0.121%
N+7.35	70	7.35	5.446	2.397	0.067%	8.757	4.873	0.135%
N+3.75	46	3.75	3.049	3.049	0.085%	3.884	3.884	0.108%
N+0.15	28	0.15	0			0		

COMBO DERX_2

COMBO DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	-9.642	-0.692	0.074%	-9.902	-0.929	0.100%
N+7.35	70	7.35	-8.95	-5.702	0.158%	-8.973	-5.079	0.141%
N+3.75	46	3.75	-3.248	-3.248	0.090%	-3.894	-3.894	0.108%
N+0.15	28	0.15	0			0		

COMBO DERX_3

COMBO DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	6.617	0.516	0.055%	9.903	1.108	0.119%
N+7.35	70	7.35	6.101	3.018	0.084%	8.795	4.912	0.136%
N+3.75	46	3.75	3.083	3.083	0.086%	3.883	3.883	0.108%
N+0.15	28	0.15	0			0		

COMBO DERX_4

COMBO DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	76	8.28	-8.944	-0.649	0.070%	-9.882	-0.947	0.102%
N+7.35	70	7.35	-8.295	-5.082	0.141%	-8.935	-5.041	0.140%
N+3.75	46	3.75	-3.213	-3.213	0.089%	-3.894	-3.894	0.108%
N+0.15	28	0.15	0			0		

EJE:

H-1

COMBO

DERX_1

COMBO

DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	14.167	1.238	0.136%	9.305	0.617	0.068%
N+7.35	68	7.35	12.929	7.308	0.203%	8.688	4.827	0.134%
N+3.75	51	3.75	5.621	5.621	0.156%	3.861	3.861	0.107%
N+0.15	33	0.15	0			0		

COMBO

DERX_2

COMBO

DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	-17.658	-1.419	0.156%	-9.509	-0.877	0.096%
N+7.35	68	7.35	-16.239	-10.476	0.291%	-8.632	-4.712	0.131%
N+3.75	51	3.75	-5.763	-5.763	0.160%	-3.92	-3.92	0.109%
N+0.15	33	0.15	0			0		

COMBO

DERX_3

COMBO

DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	14.832	1.274	0.140%	9.325	0.648	0.071%
N+7.35	68	7.35	13.558	7.91	0.220%	8.677	4.804	0.133%
N+3.75	51	3.75	5.648	5.648	0.157%	3.873	3.873	0.108%
N+0.15	33	0.15	0			0		

COMBO

DERX_4

COMBO

DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	75	8.26	-16.993	-1.383	0.152%	-9.489	-0.846	0.093%
N+7.35	68	7.35	-15.61	-9.874	0.274%	-8.643	-4.735	0.132%
N+3.75	51	3.75	-5.736	-5.736	0.159%	-3.908	-3.908	0.109%
N+0.15	33	0.15	0			0		

EJE:

J-9

COMBO

DERX_1

COMBO

DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	6.913	0.522	0.018%	9.446	0.331	0.011%
N+7.35	65	7.35	6.391	3.338	0.093%	9.115	5.105	0.142%
N+3.75	48	3.75	3.053	3.053	0.085%	4.01	4.01	0.111%
N+0.15	30	0.15	0			0		

COMBO

DERX_2

COMBO

DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	-8.642	-2.301	0.077%	-10.176	-0.873	0.029%
N+7.35	65	7.35	-6.341	-3.116	0.087%	-9.303	-5.215	0.145%
N+3.75	48	3.75	-3.225	-3.225	0.090%	-4.088	-4.088	0.114%
N+0.15	30	0.15	0			0		

COMBO

DERX_3

COMBO

DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	7.226	0.861	0.029%	9.572	0.433	0.015%
N+7.35	65	7.35	6.365	3.283	0.091%	9.139	5.117	0.142%
N+3.75	48	3.75	3.082	3.082	0.086%	4.022	4.022	0.112%
N+0.15	30	0.15	0			0		

COMBO

DERX_4

COMBO

DERZ_4

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	81	10.32	-8.329	-1.961	0.066%	-10.051	-0.771	0.026%
N+7.35	65	7.35	-6.368	-3.172	0.088%	-9.28	-5.204	0.145%
N+3.75	48	3.75	-3.196	-3.196	0.089%	-4.076	-4.076	0.113%
N+0.15	30	0.15	0			0		

EJE:

J-1

COMBO

DERX_1

COMBO

DERZ_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	15	2.688	0.090%	9.729	0.74	0.025%
N+7.35	69	7.35	12.312	6.702	0.186%	8.989	4.961	0.138%
N+3.75	52	3.75	5.61	5.61	0.156%	4.028	4.028	0.112%
N+0.15	34	0.15	0			0		

COMBO

DERX_2

COMBO

DERZ_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	-16.589	-4.392	0.146%	-9.358	-0.219	0.007%
N+7.35	69	7.35	-12.197	-6.471	0.180%	-9.139	-5.064	0.141%
N+3.75	52	3.75	-5.726	-5.726	0.159%	-4.075	-4.075	0.113%
N+0.15	34	0.15	0			0		

COMBO

DERX_3

COMBO

DERZ_3

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	15.297	3.016	0.101%	9.658	0.641	0.021%
N+7.35	69	7.35	12.281	6.649	0.185%	9.017	4.983	0.138%
N+3.75	52	3.75	5.632	5.632	0.156%	4.034	4.034	0.112%
N+0.15	34	0.15	0			0		

COMBO

DERX_4

COMBO

DERZ_4

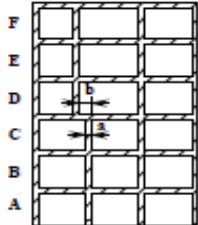
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
CUB	82	10.35	-16.291	-4.063	0.135%	-9.429	-0.318	0.011%
N+7.35	69	7.35	-12.228	-6.524	0.181%	-9.111	-5.043	0.140%
N+3.75	52	3.75	-5.704	-5.704	0.158%	-4.068	-4.068	0.113%
N+0.15	34	0.15	0			0		

CHEQUEO DE IRREGULARIDAD EN ALTURA
TABLA A.3-6 de NSR-10

PROYECTO: 181_JARDIN CAMPO VERDE MODULA C

CALCULÓ: JDH

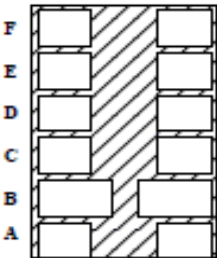
1. TIPO 4A-DESPLAZAMIENTO DENTRO DEL PLANO DE ACCIÓN



HAY TIPO 4A? NO

$\phi a= 1.00$

2. TIPO 5aA-PISO DEBIL Y PISO DEBIL EXTREMO



HAY PISO DEBIL? NO

EXTREMO NO

$\phi a= 1.00$

FACTOR DE REDUCCIÓN EN PLANTA

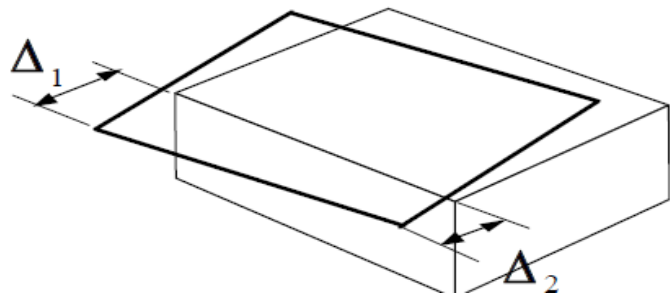
$\phi a= 1.00$

CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10

PROYECTO: 181_Jardin Campo verde Modulo C

CALCULÓ: JDH

1. TIPO 1P-IRREGULARIDAD TORSIONAL TIPO 1P



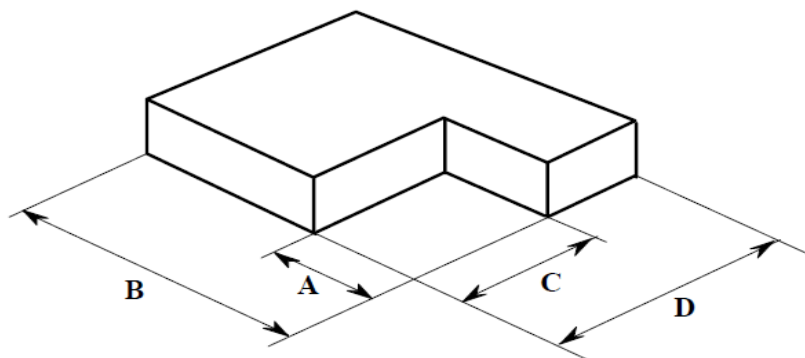
Según análisis de derivas

En X? NO
En Z? NO

Extrema? NO
Extrema? NO

$\phi_{px} = 1.00$
 $\phi_{pz} = 1.00$

2. TIPO 2P-RETROCESOS EN LAS ESQUINAS



A= 0.00 m
B= 29.00 m
C= 0.00 m
D= 12.30 m

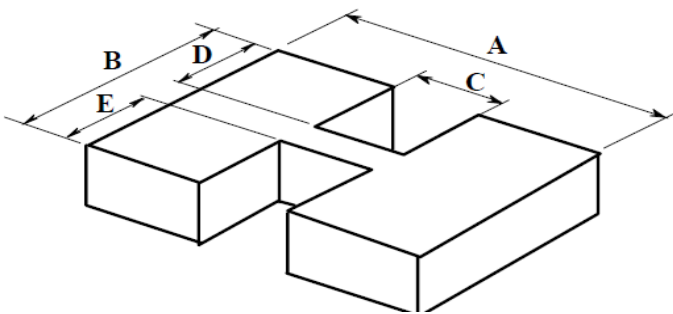
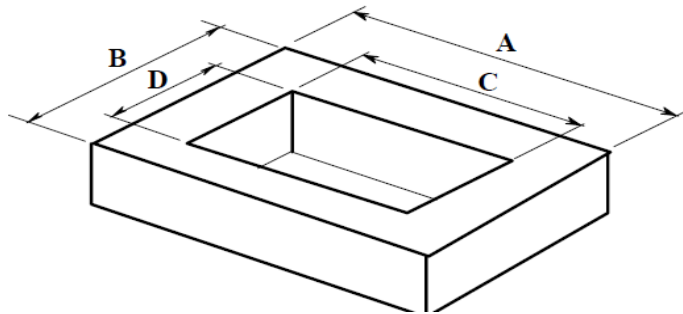
$A > 0.15B?$ NO

Y

$C > 0.15D?$ NO

$\phi_p = 1$

3. TIPO 3P-IRREGULARIDAD DEL DIAFRAGAMA



A= 29.00 m
B= 12.30 m
C= 0.00 m
D= 0.00 m
E= 0.00 m

Caso 1 $C \times D > 0.5 A \times B?$ NO

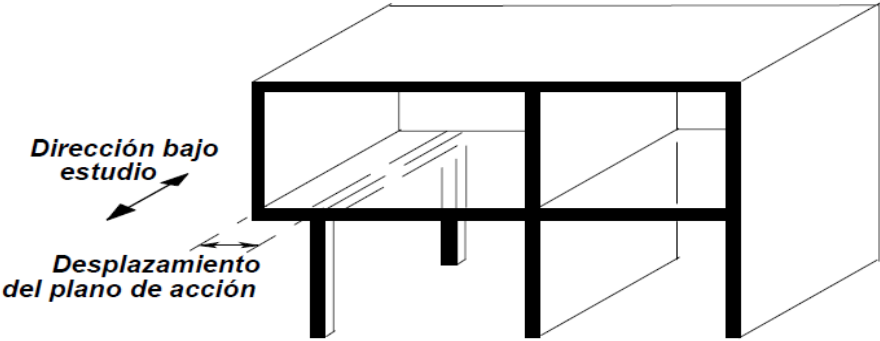
O

Caso 2 $(C \times D + C \times E) > 0.5 A \times B?$

Caso 1

$\phi_p = 1.0$

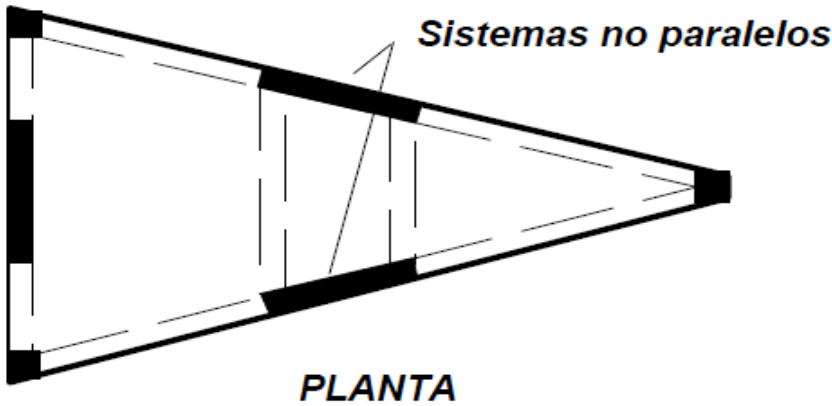
CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10
4. TIPO 4P-DESPLAZAMIENTO DE LOS PLANOS DE ACCIÓN



En X? NO
En Z? NO

$\phi_{px}= 1.00$
$\phi_{pz}= 1.00$

5. TIPO 5P-SISTEMAS NO PARALELOS



Sistemas no paralelos? NO

$\phi_p= 1.00$

FACTOR DE REDUCCIÓN EN PLANTA

$\phi_{px}= 1.00$
$\phi_{pz}= 1.00$

VERIFICACION DE IRREGULARIDAD TORSIONAL NSR-10

COMBO	DERX_1	COMBO	DERZ_1					
	EJE: H-9				EJE: H-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	70	23.611	30.621	68	51.008	30.244	Irregularidad Torsional	Regular
N+3.75	46	13.106	15.603	51	24.147	15.625	Irregularidad Torsional	Regular
N+0.15	28	0	0	33	0	0	Regular	Regular

COMBO	DERX_2	COMBO	DERZ_2					
	EJE: H-9				EJE: H-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	70	-27.66	-30.443	68	-53.902	-29.737	Irregularidad Torsional	Regular
N+3.75	46	-13.418	-15.488	51	-23.933	-15.591	Irregularidad Torsional	Regular
N+0.15	28	0	0	33	0	0	Regular	Regular

COMBO	DERX_3	COMBO	DERZ_3					
	EJE: H-9				EJE: H-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	70	24.38	30.585	68	51.539	30.144	Irregularidad Torsional	Regular
N+3.75	46	13.163	15.584	51	24.097	15.635	Irregularidad Torsional	Regular
N+0.15	28	0	0	33	0	0	Regular	Regular

COMBO	DERX_4	COMBO	DERZ_4					
	EJE: H-9				EJE: H-1			
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	70	-26.891	-30.479	68	-53.371	-29.837	Irregularidad Torsional	Regular
N+3.75	46	-13.361	-15.507	51	-23.982	-15.581	Irregularidad Torsional	Regular
N+0.15	28	0	0	33	0	0	Regular	Regular

COMBO

DERX_1COMBO

DERZ_1

EJE:		J-9		EJE:		J-1		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	65	23.326	28.229	69	45.61	27.907	Irregularidad Torsional	Regular
N+3.75	48	13.084	14.643	52	24.079	14.635	Irregularidad Torsional	Regular
N+0.15	30	0	0	34	0	0	Regular	Regular

COMBO

DERX_2COMBO

DERZ_2

EJE:		J-9		EJE:		J-1		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	65	-23.059	-28.453	69	-44.475	-28.079	Irregularidad Torsional	Regular
N+3.75	48	-13.394	-14.866	52	-23.86	-14.763	Irregularidad Torsional	Regular
N+0.15	30	0	0	34	0	0	Regular	Regular

COMBO

DERX_3COMBO

DERZ_3

EJE:		J-9		EJE:		J-1		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	65	23.263	28.275	69	45.367	27.949	Irregularidad Torsional	Regular
N+3.75	48	13.139	14.691	52	24.026	14.676	Irregularidad Torsional	Regular
N+0.15	30	0	0	34	0	0	Regular	Regular

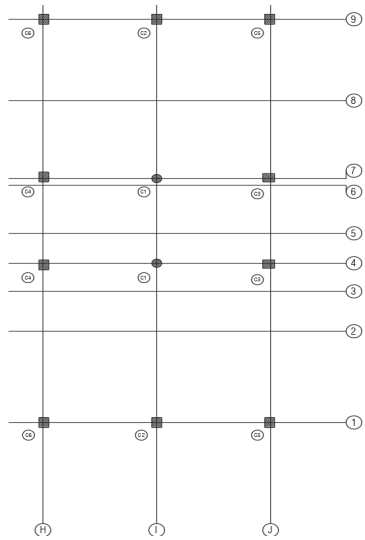
COMBO

DERX_4COMBO

DERZ_4

EJE:		J-9		EJE:		J-1		
Piso	Nudo	Dx (mm)	Dz (mm)	Nudo	Dx (mm)	DZ (mm)	CHEQUEO DX	CHEQUEO DZ
N+7.35	65	-23.122	-28.407	69	-44.718	-28.037	Irregularidad Torsional	Regular
N+3.75	48	-13.339	-14.818	52	-23.912	-14.721	Irregularidad Torsional	Regular
N+0.15	30	0	0	34	0	0	Regular	Regular

ZONA: MODULO C
PISO: 1 A CUB
ALTURA h (m) 3.60



Elemento	$A_c (m^2)$	$I_x (m^4)$	$I_z (m^4)$	$A_m (m^2)$	$0.4E_cA_m$	$I_{totalx} (m^4)$	$3E_cI_x$	K_{pisoX}	Perdida K_{pisoX}	$I_{totalz} (m^4)$	$3E_cI_z$	K_{pisoZ}	Perdida K_{pisoZ}
H1	0.3	0.0063	0.0090	3.392699082	3.375E+07	0.07	5.531E+06	1.168E+05	0%	0.09	6.762E+06	1.423E+05	0%
H4	0.3	0.0063	0.0090	3.092699082	3.077E+07	0.07	5.065E+06	1.069E+05	8%	0.08	6.091E+06	1.282E+05	10%
H7	0.3	0.0063	0.0090	3.092699082	3.077E+07	0.07	5.065E+06	1.069E+05	8%	0.08	6.091E+06	1.282E+05	10%
H9	0.3	0.0063	0.0090	3.092699082	3.077E+07	0.07	5.065E+06	1.069E+05	8%	0.08	6.091E+06	1.282E+05	10%
I1	0.3	0.0063	0.0090	3.092699082	3.077E+07	0.07	5.065E+06	1.069E+05	8%	0.08	6.091E+06	1.282E+05	10%
I4	0.1963	0.0031	0.0031	3.196349541	3.180E+07	0.07	5.302E+06	1.119E+05	4%	0.09	6.533E+06	1.374E+05	3%
I7	0.1963	0.0031	0.0031	3.196349541	3.180E+07	0.07	5.302E+06	1.119E+05	4%	0.09	6.533E+06	1.374E+05	3%
I9	0.3	0.0063	0.0090	3.092699082	3.077E+07	0.07	5.065E+06	1.069E+05	8%	0.08	6.091E+06	1.282E+05	10%
J1	0.3	0.0063	0.0090	3.092699082	3.077E+07	0.07	5.065E+06	1.069E+05	8%	0.08	6.091E+06	1.282E+05	10%
J4	0.3	0.0090	0.0063	3.092699082	3.077E+07	0.07	4.860E+06	1.027E+05	12%	0.08	6.296E+06	1.324E+05	7%
J7	0.3	0.0090	0.0063	3.092699082	3.077E+07	0.07	4.860E+06	1.027E+05	12%	0.08	6.296E+06	1.324E+05	7%
J9	0.3	0.0063	0.0090	3.092699082	3.077E+07	0.07	5.065E+06	1.069E+05	8%	0.08	6.091E+06	1.282E+05	10%

Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
4	5	+ve	0.052	0.000	0.350	0.000	0.269	0.397
			15:COM3	-	23:COM1'	-	15:COM3	15:COM3
		-ve	-0.048	-10.585	-0.375	-8.787	-0.251	0.000
			25:COM1'	13:COM1	17:COM5	17:COM5	25:COM1'	-
	28	+ve	0.052	0.000	0.350	0.000	0.535	31.065
			15:COM3	-	23:COM1'	-	23:COM1'	13:COM1
		-ve	-0.048	-16.687	-0.375	-8.787	-0.574	0.000
			25:COM1'	13:COM1	17:COM5	17:COM5	17:COM5	-
5	7	+ve	0.002	0.000	0.191	1.923	0.163	0.000
			27:COM1'	-	23:COM1'	23:COM1'	15:COM3	-
		-ve	-0.000	-22.510	-0.205	-1.993	-0.152	-0.764
			21:COM9	13:COM1	17:COM5	17:COM5	25:COM1'	13:COM1
	42	+ve	0.002	0.000	0.191	1.923	0.278	55.982
			27:COM1'	-	23:COM1'	23:COM1'	23:COM1'	13:COM1
		-ve	-0.000	-27.931	-0.205	-1.993	-0.299	0.000
			21:COM9	13:COM1	17:COM5	17:COM5	17:COM5	-
6	9	+ve	0.049	0.000	0.349	8.820	0.269	0.396
			23:COM1'	-	23:COM1'	15:COM3	15:COM3	15:COM3
		-ve	-0.051	-10.563	-0.375	0.000	-0.250	0.000
			17:COM5	13:COM1	17:COM5	-	25:COM1'	-
	30	+ve	0.049	0.000	0.349	8.820	0.534	31.011
			23:COM1'	-	23:COM1'	15:COM3	23:COM1'	13:COM1
		-ve	-0.051	-16.664	-0.375	0.000	-0.574	0.000
			17:COM5	13:COM1	17:COM5	-	17:COM5	-
7	20	+ve	0.000	18.926	0.647	0.416	1.398	36.000
			14:COM2	19:COM7	23:COM1'	23:COM1'	15:COM3	19:COM7
		-ve	0.000	0.000	-0.649	-1.076	-1.388	0.000
			-	-	17:COM5	17:COM5	25:COM1'	-
	231	+ve	0.000	14.787	0.647	0.416	0.224	0.000
			14:COM2	19:COM7	23:COM1'	23:COM1'	15:COM3	-
		-ve	0.000	0.000	-0.649	-1.076	-0.218	-12.697
			-	-	17:COM5	17:COM5	25:COM1'	21:COM9
8	28	+ve	0.000	8.806	0.031	0.609	0.096	10.591
			-	15:COM3	23:COM1'	15:COM3	15:COM3	15:COM3
		-ve	0.000	0.000	-0.033	-0.107	-0.089	-8.088
			-	-	17:COM5	25:COM1'	25:COM1'	25:COM1'
	42	+ve	0.000	0.000	0.031	0.609	0.089	17.228
			-	-	23:COM1'	15:COM3	23:COM1'	15:COM3
		-ve	0.000	-11.562	-0.033	-0.107	-0.096	-1.393
			-	17:COM5	17:COM5	25:COM1'	17:COM5	25:COM1'
9	31	+ve	0.000	9.245	0.031	1.357	0.096	13.543
			-	15:COM3	23:COM1'	19:COM7	15:COM3	15:COM3
		-ve	0.000	0.000	-0.033	0.000	-0.090	-6.517
			-	-	17:COM5	-	25:COM1'	25:COM1'
	39	+ve	0.000	0.000	0.031	1.357	0.089	14.288
			-	-	23:COM1'	19:COM7	23:COM1'	15:COM3
		-ve	0.000	-10.658	-0.033	0.000	-0.096	-0.621
			-	17:COM5	17:COM5	-	17:COM5	25:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
10	32	+ve	0.000	9.243	0.031	0.000	0.094	13.166
			-	15:COM3	23:COM1'	-	15:COM3	15:COM3
			0.000	0.000	-0.032	-1.482	-0.089	-7.025
			-	-	17:COM5	21:COM9	25:COM1'	25:COM1'
	38	-ve	0.000	0.000	0.031	0.000	0.089	14.058
			-	-	23:COM1'	-	23:COM1'	15:COM3
			0.000	-10.756	-0.032	-1.482	-0.093	-0.864
			-	17:COM5	17:COM5	21:COM9	17:COM5	25:COM1'
11	33	+ve	0.000	10.600	0.031	0.377	0.093	16.112
			-	15:COM3	23:COM1'	15:COM3	15:COM3	15:COM3
			0.000	-1.173	-0.032	-0.391	-0.089	-14.177
			-	25:COM1'	17:COM5	25:COM1'	25:COM1'	25:COM1'
	35	-ve	0.000	0.000	0.031	0.377	0.089	22.768
			-	-	23:COM1'	15:COM3	23:COM1'	15:COM3
			0.000	-13.591	-0.032	-0.391	-0.093	-6.410
			-	17:COM5	17:COM5	25:COM1'	17:COM5	25:COM1'
12	6	+ve	0.065	10.243	0.000	0.000	0.001	9.355
			15:COM3	13:COM1	23:COM1'	-	15:COM3	15:COM3
			-0.062	0.000	-0.001	-0.286	-0.001	0.000
			25:COM1'	-	17:COM5	13:COM1	25:COM1'	-
	8	-ve	0.065	0.000	0.000	0.000	0.001	12.072
			15:COM3	-	23:COM1'	-	23:COM1'	15:COM3
			-0.062	-11.761	-0.001	-0.286	-0.001	0.000
			25:COM1'	17:COM5	17:COM5	13:COM1	17:COM5	-
13	20	+ve	0.000	12.404	0.166	0.923	0.445	25.797
			-	19:COM7	23:COM1'	15:COM3	15:COM3	19:COM7
			0.000	0.000	-0.175	-0.809	-0.422	-4.314
			-	-	17:COM5	25:COM1'	25:COM1'	29:COM1'
	236	-ve	0.000	8.006	0.166	0.923	0.013	0.000
			-	19:COM7	23:COM1'	15:COM3	23:COM1'	-
			0.000	-3.280	-0.175	-0.809	-0.014	-0.262
			-	29:COM1'	17:COM5	25:COM1'	17:COM5	13:COM1
14	5	+ve	0.060	10.585	0.001	0.397	0.002	8.787
			23:COM1'	13:COM1	23:COM1'	15:COM3	15:COM3	15:COM3
			-0.064	0.000	-0.001	0.000	-0.002	0.000
			17:COM5	-	17:COM5	-	25:COM1'	-
	7	-ve	0.060	0.000	0.001	0.397	0.002	9.907
			23:COM1'	-	23:COM1'	15:COM3	23:COM1'	15:COM3
			-0.064	-11.244	-0.001	0.000	-0.002	0.000
			17:COM5	13:COM1	17:COM5	-	17:COM5	-
15	22	+ve	0.473	0.000	0.182	0.100	0.221	0.202
			27:COM1'	-	23:COM1'	23:COM1'	15:COM3	15:COM3
			-0.539	-6.077	-0.247	-5.871	-0.165	-0.007
			21:COM9	17:COM5	17:COM5	17:COM5	25:COM1'	25:COM1'
	46	-ve	0.473	0.000	0.182	0.100	0.244	17.528
			27:COM1'	-	23:COM1'	23:COM1'	23:COM1'	15:COM3
			-0.539	-9.441	-0.247	-5.871	-0.336	0.000
			21:COM9	13:COM1	17:COM5	17:COM5	17:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
16	24	+ve	0.651	0.000	0.148	2.142	0.121	0.000
			27:COM1'	-	23:COM1'	23:COM1'	23:COM1'	-
			-0.935	-13.698	-0.140	-2.799	-0.133	-0.275
	62	-ve	21:COM9	14:COM2	17:COM5	17:COM5	17:COM5	21:COM9
			0.651	0.000	0.148	2.142	0.200	35.921
			27:COM1'	-	23:COM1'	23:COM1'	23:COM1'	14:COM2
			-0.935	-18.689	-0.140	-2.799	-0.196	0.000
			21:COM9	13:COM1	17:COM5	17:COM5	17:COM5	-
			0.505	0.000	0.190	5.014	0.196	0.205
			23:COM1'	-	15:COM3	15:COM3	23:COM1'	15:COM3
			-0.422	-5.834	-0.223	-0.168	-0.162	-0.010
17	26	+ve	17:COM5	17:COM5	25:COM1'	25:COM1'	17:COM5	25:COM1'
			0.505	0.000	0.190	5.014	0.267	16.984
			23:COM1'	-	15:COM3	15:COM3	15:COM3	15:COM3
	48	-ve	-0.422	-9.278	-0.223	-0.168	-0.309	0.000
			17:COM5	13:COM1	25:COM1'	25:COM1'	25:COM1'	-
			2.236	19.092	1.225	0.420	2.501	42.615
			19:COM7	19:COM7	15:COM3	23:COM1'	23:COM1'	19:COM7
			-2.466	0.000	-1.214	-0.508	-2.530	0.000
			29:COM1'	-	25:COM1'	17:COM5	17:COM5	-
			2.236	15.576	1.225	0.420	0.453	3.341
			19:COM7	19:COM7	15:COM3	23:COM1'	23:COM1'	27:COM1'
			-2.466	0.000	-1.214	-0.508	-0.456	-13.877
18	45	+ve	29:COM1'	-	25:COM1'	17:COM5	17:COM5	21:COM9
			0.574	11.829	0.018	0.333	0.082	21.136
			23:COM1'	15:COM3	23:COM1'	23:COM1'	15:COM3	15:COM3
	253	-ve	-0.803	0.000	-0.026	-0.914	-0.057	-6.659
			17:COM5	-	17:COM5	17:COM5	25:COM1'	25:COM1'
			0.574	0.000	0.018	0.333	0.045	15.090
			23:COM1'	-	23:COM1'	23:COM1'	23:COM1'	15:COM3
			-0.803	-10.521	-0.026	-0.914	-0.067	-6.774
			17:COM5	17:COM5	17:COM5	17:COM5	17:COM5	25:COM1'
			1.047	18.359	4.153	1.941	0.969	21.355
	286	-ve	23:COM1'	15:COM3	15:COM3	19:COM7	23:COM1'	15:COM3
			-1.405	0.000	-4.361	-0.527	-0.928	-9.249
			17:COM5	-	25:COM1'	29:COM1'	17:COM5	25:COM1'
			1.047	17.725	4.153	1.941	0.114	16.845
			23:COM1'	15:COM3	15:COM3	19:COM7	15:COM3	15:COM3
			-1.405	0.000	-4.361	-0.527	-0.125	-10.275
19	46	+ve	17:COM5	-	25:COM1'	29:COM1'	25:COM1'	25:COM1'
			0.815	13.041	4.257	0.486	1.116	19.827
			23:COM1'	15:COM3	23:COM1'	27:COM1'	15:COM3	15:COM3
	62	-ve	-1.254	0.000	-4.042	-1.895	-1.172	-11.810
			17:COM5	-	17:COM5	21:COM9	25:COM1'	25:COM1'
			0.815	12.407	4.257	0.486	0.447	16.647
			23:COM1'	15:COM3	23:COM1'	27:COM1'	27:COM1'	15:COM3
			-1.254	0.000	-4.042	-1.895	-0.449	-12.065
			17:COM5	-	17:COM5	21:COM9	21:COM9	25:COM1'
			0.815	13.041	4.257	0.486	1.116	19.827
			23:COM1'	15:COM3	23:COM1'	27:COM1'	15:COM3	15:COM3
			-1.254	0.000	-4.042	-1.895	-1.172	-11.810
20	49	+ve	17:COM5	-	25:COM1'	29:COM1'	25:COM1'	25:COM1'
			0.815	13.041	4.257	0.486	1.116	19.827
			23:COM1'	15:COM3	23:COM1'	27:COM1'	15:COM3	15:COM3
	285	-ve	-1.254	0.000	-4.042	-1.895	-1.172	-11.810
			17:COM5	-	17:COM5	21:COM9	25:COM1'	25:COM1'
			0.815	12.407	4.257	0.486	0.447	16.647
			23:COM1'	15:COM3	23:COM1'	27:COM1'	27:COM1'	15:COM3
			-1.254	0.000	-4.042	-1.895	-0.449	-12.065
			17:COM5	-	17:COM5	21:COM9	21:COM9	25:COM1'
			0.815	13.041	4.257	0.486	1.116	19.827
			23:COM1'	15:COM3	23:COM1'	27:COM1'	15:COM3	15:COM3
			-1.254	0.000	-4.042	-1.895	-1.172	-11.810

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
22	51	+ve	1.439	14.974	0.033	1.070	0.049	31.166
			23:COM1'	15:COM3	15:COM3	15:COM3	23:COM1'	15:COM3
			-1.843	-2.463	-0.016	-0.210	-0.101	-18.326
	53	-ve	1.439	2.937	0.033	1.070	0.091	24.629
			23:COM1'	23:COM1'	15:COM3	15:COM3	15:COM3	15:COM3
			-1.843	-14.252	-0.016	-0.210	-0.044	-15.259
23	23	+ve	0.569	6.420	0.001	0.049	0.002	7.459
			15:COM3	15:COM3	19:COM7	15:COM3	27:COM1'	15:COM3
			-0.301	0.000	-0.000	-0.086	-0.004	-2.854
	25	-ve	0.569	0.000	0.001	0.049	0.004	9.330
			15:COM3	-	19:COM7	15:COM3	19:COM7	15:COM3
			-0.301	-7.827	-0.000	-0.086	-0.001	0.000
24	36	+ve	3.071	9.797	0.568	0.648	0.540	14.746
			23:COM1'	19:COM7	15:COM3	15:COM3	23:COM1'	19:COM7
			-5.756	0.000	-0.496	-0.553	-0.700	-4.560
	257	-ve	3.071	6.062	0.568	0.648	0.766	0.000
			23:COM1'	19:COM7	15:COM3	15:COM3	15:COM3	-
			-5.756	-1.790	-0.496	-0.553	-0.743	-5.901
25	22	+ve	0.326	6.077	0.001	0.202	0.003	5.871
			27:COM1'	15:COM3	27:COM1'	15:COM3	19:COM7	15:COM3
			-0.191	0.000	-0.001	-0.007	-0.002	-0.100
	24	-ve	0.326	0.000	0.001	0.202	0.001	7.279
			27:COM1'	-	27:COM1'	15:COM3	27:COM1'	15:COM3
			-0.191	-6.943	-0.001	-0.007	-0.003	0.000
28	7	+ve	0.064	11.267	0.001	0.000	0.002	10.032
			15:COM3	13:COM1	23:COM1'	-	15:COM3	15:COM3
			-0.059	0.000	-0.001	-0.396	-0.002	0.000
	9	-ve	0.064	0.000	0.001	0.000	0.002	8.820
			15:COM3	-	23:COM1'	-	23:COM1'	15:COM3
			-0.059	-10.563	-0.001	-0.396	-0.002	0.000
29	8	+ve	0.062	11.724	0.000	0.323	0.001	11.985
			23:COM1'	15:COM3	23:COM1'	13:COM1	15:COM3	15:COM3
			-0.064	0.000	-0.001	0.000	-0.001	0.000
	12	-ve	0.062	0.000	0.000	0.323	0.001	9.882
			23:COM1'	-	23:COM1'	13:COM1	23:COM1'	15:COM3
			-0.064	-10.344	-0.001	0.000	-0.001	0.000
			17:COM5	13:COM1	17:COM5	-	17:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
30	28	+ve	0.000	20.145	0.667	0.495	1.403	45.294
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	19:COM7
			0.000	0.000	-0.670	-1.284	-1.386	0.000
			-	-	17:COM5	17:COM5	25:COM1'	-
	229	-ve	0.000	16.007	0.667	0.495	0.268	4.151
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	27:COM1'
			0.000	0.000	-0.670	-1.284	-0.259	-12.537
			-	-	17:COM5	17:COM5	25:COM1'	21:COM9
31	30	+ve	0.000	20.307	0.666	1.335	1.403	45.571
			-	19:COM7	23:COM1'	15:COM3	15:COM3	19:COM7
			0.000	0.000	-0.670	-0.524	-1.385	0.000
			-	-	17:COM5	25:COM1'	25:COM1'	-
	228	-ve	0.000	16.168	0.666	1.335	0.268	3.921
			-	19:COM7	23:COM1'	15:COM3	15:COM3	27:COM1'
			0.000	0.000	-0.670	-0.524	-0.259	-11.798
			-	-	17:COM5	25:COM1'	25:COM1'	21:COM9
32	31	+ve	0.000	18.956	0.166	0.982	0.450	27.158
			-	19:COM7	23:COM1'	15:COM3	15:COM3	19:COM7
			0.000	0.000	-0.175	-0.503	-0.423	-3.498
			-	-	17:COM5	25:COM1'	25:COM1'	29:COM1'
	235	-ve	0.000	4.890	0.166	0.982	0.015	0.000
			-	27:COM1'	23:COM1'	15:COM3	15:COM3	-
			0.000	-6.070	-0.175	-0.503	-0.013	-2.193
			-	21:COM9	17:COM5	25:COM1'	25:COM1'	14:COM2
33	32	+ve	0.030	30.140	0.687	7.964	1.373	53.166
			23:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	19:COM7
			-0.030	0.000	-0.691	-1.980	-1.359	0.000
			17:COM5	-	17:COM5	25:COM1'	25:COM1'	-
	293	-ve	0.030	28.674	0.687	7.964	0.792	28.923
			23:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	19:COM7
			-0.030	0.000	-0.691	-1.980	-0.781	0.000
			17:COM5	-	17:COM5	25:COM1'	25:COM1'	-
34	33	+ve	0.057	26.603	0.359	9.355	0.565	39.104
			23:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	14:COM2
			-0.059	0.000	-0.376	0.000	-0.540	0.000
			17:COM5	-	17:COM5	-	25:COM1'	-
	6	-ve	0.057	10.243	0.359	9.355	0.232	0.286
			23:COM1'	13:COM1	23:COM1'	15:COM3	23:COM1'	13:COM1
			-0.059	0.000	-0.376	0.000	-0.243	0.000
			17:COM5	-	17:COM5	-	17:COM5	-
35	34	+ve	0.061	16.174	0.359	0.000	0.563	28.829
			15:COM3	13:COM1	23:COM1'	-	15:COM3	13:COM1
			-0.056	0.000	-0.374	-9.882	-0.540	0.000
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	-
	12	-ve	0.061	10.344	0.359	0.000	0.232	0.323
			15:COM3	13:COM1	23:COM1'	-	23:COM1'	13:COM1
			-0.056	0.000	-0.374	-9.882	-0.242	0.000
			25:COM1'	-	17:COM5	17:COM5	17:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
38	24	+ve	0.379	7.037	0.001	0.010	0.002	7.563
			19:COM7	15:COM3	19:COM7	23:COM1'	27:COM1'	15:COM3
			-0.165	0.000	-0.000	-0.205	-0.003	0.000
			29:COM1'	-	29:COM1'	17:COM5	21:COM9	-
	26	-ve	0.379	0.000	0.001	0.010	0.002	5.014
			19:COM7	-	19:COM7	23:COM1'	15:COM3	15:COM3
			-0.165	-5.834	-0.000	-0.205	-0.001	-0.168
			29:COM1'	17:COM5	29:COM1'	17:COM5	25:COM1'	25:COM1'
39	25	+ve	0.605	7.645	0.000	0.181	0.004	9.109
			15:COM3	15:COM3	23:COM1'	15:COM3	19:COM7	15:COM3
			-0.224	0.000	-0.001	-0.004	-0.001	0.000
			25:COM1'	-	17:COM5	25:COM1'	29:COM1'	-
	29	-ve	0.605	0.000	0.000	0.181	0.001	7.020
			15:COM3	-	23:COM1'	15:COM3	23:COM1'	15:COM3
			-0.224	-6.312	-0.001	-0.004	-0.002	-2.158
			25:COM1'	17:COM5	17:COM5	25:COM1'	17:COM5	25:COM1'
40	46	+ve	3.515	19.856	1.255	1.105	2.486	45.642
			15:COM3	19:COM7	23:COM1'	15:COM3	15:COM3	19:COM7
			-2.171	0.000	-1.245	-0.641	-2.525	0.000
			25:COM1'	-	17:COM5	25:COM1'	25:COM1'	-
	251	-ve	3.515	16.340	1.255	1.105	0.494	4.338
			15:COM3	19:COM7	23:COM1'	15:COM3	15:COM3	27:COM1'
			-2.171	0.000	-1.245	-0.641	-0.507	-13.922
			25:COM1'	-	17:COM5	25:COM1'	25:COM1'	21:COM9
41	48	+ve	1.683	19.308	1.274	0.865	2.532	43.949
			15:COM3	19:COM7	15:COM3	15:COM3	23:COM1'	19:COM7
			-2.181	0.000	-1.271	-0.742	-2.554	0.000
			25:COM1'	-	25:COM1'	25:COM1'	17:COM5	-
	250	-ve	1.683	15.793	1.274	0.865	0.515	4.000
			15:COM3	19:COM7	15:COM3	15:COM3	23:COM1'	27:COM1'
			-2.181	0.000	-1.271	-0.742	-0.529	-13.790
			25:COM1'	-	25:COM1'	25:COM1'	17:COM5	21:COM9
42	286	+ve	4.006	8.243	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	14:COM2	-	-	-
			-4.216	0.000	0.000	0.000	0.000	0.000
			25:COM1'	-	-	-	-	-
	289	-ve	4.006	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			-4.216	-8.243	0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	-	-	-	-
43	50	+ve	5.671	29.431	2.510	14.153	2.766	53.380
			19:COM7	15:COM3	15:COM3	15:COM3	23:COM1'	19:COM7
			-2.544	0.000	-2.495	-2.659	-2.708	0.000
			29:COM1'	-	25:COM1'	25:COM1'	17:COM5	-
	295	-ve	5.671	28.186	2.510	14.153	0.830	29.004
			19:COM7	15:COM3	15:COM3	15:COM3	15:COM3	19:COM7
			-2.544	0.000	-2.495	-2.659	-0.758	-5.201
			29:COM1'	-	25:COM1'	25:COM1'	25:COM1'	29:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
44	51	+ve	0.617	20.712	0.332	7.459	0.239	28.254
			27:COM1'	14:COM2	15:COM3	15:COM3	23:COM1'	15:COM3
			-0.752	0.000	-0.187	-2.854	-0.433	0.000
	23	-ve	21:COM9	-	25:COM1'	25:COM1'	17:COM5	-
			0.617	6.420	0.332	7.459	0.282	0.086
			27:COM1'	15:COM3	15:COM3	15:COM3	15:COM3	23:COM1'
45	52	+ve	-0.752	0.000	-0.187	-2.854	-0.164	-0.049
			21:COM9	-	25:COM1'	25:COM1'	25:COM1'	17:COM5
			0.674	9.462	0.272	2.158	0.345	17.125
	29	-ve	23:COM1'	15:COM3	23:COM1'	23:COM1'	15:COM3	15:COM3
			-0.631	0.000	-0.256	-7.020	-0.361	0.000
			17:COM5	-	17:COM5	17:COM5	25:COM1'	-
46	36	+ve	0.674	6.312	0.272	2.158	0.224	0.181
			23:COM1'	15:COM3	23:COM1'	23:COM1'	23:COM1'	15:COM3
			-0.631	0.000	-0.256	-7.020	-0.207	-0.004
	45	-ve	17:COM5	-	17:COM5	17:COM5	17:COM5	25:COM1'
			0.000	0.000	3.515	5.752	2.425	16.881
			-	-	23:COM1'	27:COM1'	15:COM3	15:COM3
47	37	+ve	-3.490	-16.875	-8.390	-12.708	-0.903	-12.543
			17:COM5	17:COM5	17:COM5	21:COM9	25:COM1'	25:COM1'
			0.000	0.000	3.515	5.752	1.209	26.937
	43	-ve	-	-	23:COM1'	27:COM1'	23:COM1'	15:COM3
			-3.490	-18.757	-8.390	-12.708	-2.612	-9.749
			17:COM5	17:COM5	17:COM5	21:COM9	17:COM5	25:COM1'
50	44	+ve	0.000	0.000	8.233	12.952	0.932	13.642
			-	-	15:COM3	19:COM7	23:COM1'	15:COM3
			-3.409	-17.729	-3.507	-5.623	-2.381	-9.361
	65	-ve	17:COM5	17:COM5	25:COM1'	29:COM1'	17:COM5	25:COM1'
			0.000	0.000	8.233	12.952	2.562	24.616
			-	-	15:COM3	19:COM7	15:COM3	15:COM3
51	64	+ve	-3.409	-19.611	-3.507	-5.623	-1.176	-7.285
			17:COM5	17:COM5	25:COM1'	29:COM1'	25:COM1'	25:COM1'
			0.152	0.000	0.190	0.000	0.000	0.000
	69	-ve	19:COM7	13:COM1	15:COM3	-	-	14:COM2
			-0.152	0.000	-0.190	-0.000	-0.000	0.000
			21:COM9	-	17:COM5	13:COM1	13:COM1	-
55	64	+ve	0.152	0.000	0.190	0.000	0.427	3.213
			19:COM7	-	15:COM3	-	15:COM3	13:COM1
			-0.152	-2.856	-0.190	-0.000	-0.427	0.000
	69	-ve	21:COM9	13:COM1	17:COM5	13:COM1	17:COM5	-
			9.396	6.266	0.128	1.073	0.647	12.857
			19:COM7	19:COM7	23:COM1'	15:COM3	23:COM1'	19:COM7
59	64	+ve	-7.269	0.000	-0.122	-0.423	-0.822	-2.206
			29:COM1'	-	17:COM5	25:COM1'	17:COM5	29:COM1'
			9.396	0.000	0.128	1.073	0.440	15.836
	69	-ve	19:COM7	-	23:COM1'	15:COM3	23:COM1'	19:COM7
			-7.269	-6.964	-0.122	-0.423	-0.562	0.000
			29:COM1'	21:COM9	17:COM5	25:COM1'	17:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
53	66	+ve	2.174	34.364	1.596	0.115	0.787	20.763
			23:COM1'	14:COM2	27:COM1'	23:COM1'	15:COM3	15:COM3
			-2.680	0.000	-3.580	-0.884	-0.188	0.000
			17:COM5	-	21:COM9	17:COM5	25:COM1'	-
	287	-ve	2.174	33.903	1.596	0.115	0.654	13.062
			23:COM1'	14:COM2	27:COM1'	23:COM1'	19:COM7	15:COM3
			-2.680	0.000	-3.580	-0.884	-0.551	-2.167
			17:COM5	-	21:COM9	17:COM5	29:COM1'	25:COM1'
54	67	+ve	6.756	28.337	6.647	0.903	1.516	24.596
			23:COM1'	14:COM2	19:COM7	15:COM3	27:COM1'	15:COM3
			-6.176	0.000	-4.720	-0.131	-1.956	-1.199
			17:COM5	-	29:COM1'	25:COM1'	21:COM9	25:COM1'
	288	-ve	6.756	27.876	6.647	0.903	0.369	17.847
			23:COM1'	14:COM2	19:COM7	15:COM3	19:COM7	15:COM3
			-6.176	0.000	-4.720	-0.131	-0.327	-3.785
			17:COM5	-	29:COM1'	25:COM1'	29:COM1'	25:COM1'
57	54	+ve	6.101	10.226	0.210	0.316	0.495	10.750
			19:COM7	19:COM7	15:COM3	23:COM1'	23:COM1'	19:COM7
			-5.216	0.000	-0.207	-0.342	-0.528	-1.285
			29:COM1'	-	25:COM1'	17:COM5	17:COM5	29:COM1'
	55	-ve	6.101	0.000	0.210	0.316	0.549	11.059
			19:COM7	-	15:COM3	23:COM1'	23:COM1'	19:COM7
			-5.216	-10.236	-0.207	-0.342	-0.568	-1.529
			29:COM1'	21:COM9	25:COM1'	17:COM5	17:COM5	29:COM1'
63	70	+ve	4.676	6.938	0.227	0.988	0.096	17.202
			27:COM1'	19:COM7	19:COM7	15:COM3	27:COM1'	19:COM7
			-12.574	0.000	0.000	-0.188	-1.130	-4.647
			21:COM9	-	-	25:COM1'	21:COM9	29:COM1'
	66	-ve	4.676	0.000	0.227	0.988	1.143	18.422
			27:COM1'	-	19:COM7	15:COM3	15:COM3	19:COM7
			-12.574	-7.444	0.000	-0.188	0.000	-1.882
			21:COM9	21:COM9	-	25:COM1'	-	29:COM1'
64	65	+ve	9.016	7.049	0.077	0.194	0.344	16.157
			19:COM7	19:COM7	15:COM3	23:COM1'	23:COM1'	19:COM7
			-7.164	0.000	-0.082	-0.778	-0.482	0.000
			29:COM1'	-	25:COM1'	17:COM5	17:COM5	-
	63	-ve	9.016	0.000	0.077	0.194	0.312	13.290
			19:COM7	-	15:COM3	23:COM1'	23:COM1'	19:COM7
			-7.164	-6.337	-0.082	-0.778	-0.504	-2.721
			29:COM1'	21:COM9	25:COM1'	17:COM5	17:COM5	29:COM1'
65	287	+ve	2.965	22.018	0.000	0.000	0.000	0.000
			27:COM1'	14:COM2	-	-	-	-
			-4.886	0.000	-0.000	0.000	0.000	0.000
			21:COM9	-	14:COM2	-	-	-
	288	-ve	2.965	0.000	0.000	0.000	0.000	0.000
			27:COM1'	-	-	-	-	-
			-4.886	-11.399	-0.000	0.000	0.000	0.000
			21:COM9	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
66	67	+ve	1.439	7.259	0.000	0.644	1.025	17.703
			23:COM1'	19:COM7	-	23:COM1'	15:COM3	19:COM7
			-8.430	0.000	-0.234	-1.364	0.000	-1.146
			17:COM5	-	17:COM5	17:COM5	-	29:COM1'
	68	-ve	1.439	0.000	0.000	0.644	0.324	16.146
			23:COM1'	-	-	23:COM1'	23:COM1'	19:COM7
			-8.430	-6.752	-0.234	-1.364	-1.261	-3.579
			17:COM5	21:COM9	17:COM5	17:COM5	17:COM5	29:COM1'
69	54	+ve	8.344	0.000	6.599	0.872	2.623	11.426
			23:COM1'	-	19:COM7	27:COM1'	19:COM7	15:COM3
			-18.928	-20.679	-5.929	-11.044	-1.116	-6.690
			17:COM5	17:COM5	29:COM1'	21:COM9	29:COM1'	25:COM1'
	64	-ve	8.344	0.000	6.599	0.872	3.232	23.696
			23:COM1'	-	19:COM7	27:COM1'	19:COM7	15:COM3
			-18.928	-21.547	-5.929	-11.044	-1.323	-0.479
			17:COM5	17:COM5	29:COM1'	21:COM9	29:COM1'	25:COM1'
70	55	+ve	0.000	0.000	5.504	11.286	0.679	8.063
			-	-	23:COM1'	19:COM7	27:COM1'	15:COM3
			-8.501	-20.707	-5.999	-1.040	-2.126	-3.468
			17:COM5	17:COM5	17:COM5	29:COM1'	21:COM9	25:COM1'
	63	-ve	0.000	0.000	5.504	11.286	1.641	20.557
			-	-	23:COM1'	19:COM7	23:COM1'	15:COM3
			-8.501	-21.576	-5.999	-1.040	-3.385	0.000
			17:COM5	17:COM5	17:COM5	29:COM1'	17:COM5	-
71	56	+ve	0.054	0.000	0.000	0.000	0.223	0.000
			27:COM1'	-	-	-	15:COM3	-
			-3.254	-4.585	-0.390	-1.442	-0.122	-0.699
			21:COM9	21:COM9	17:COM5	17:COM5	25:COM1'	21:COM9
	76	-ve	0.000	0.000	0.000	0.000	0.000	11.630
			-	-	-	-	-	19:COM7
			-3.633	-5.947	-0.390	-1.442	-0.690	0.000
			21:COM9	21:COM9	17:COM5	17:COM5	17:COM5	-
72	58	+ve	0.000	0.000	0.671	0.578	0.000	0.000
			-	-	19:COM7	15:COM3	-	-
			-4.201	-6.990	0.000	0.000	-0.339	-0.921
			21:COM9	21:COM9	-	-	17:COM5	21:COM9
	81	-ve	0.000	0.000	0.671	0.578	1.240	16.998
			-	-	19:COM7	15:COM3	19:COM7	19:COM7
			-3.822	-8.352	0.000	0.000	0.000	0.000
			21:COM9	21:COM9	-	-	-	-
74	83	+ve	0.000	2.787	0.000	0.224	0.485	2.771
			-	15:COM3	-	27:COM1'	15:COM3	15:COM3
			-18.962	0.000	-0.383	-0.426	0.000	0.000
			17:COM5	-	14:COM2	21:COM9	-	-
	185	-ve	0.000	0.977	0.000	0.224	0.000	0.000
			-	15:COM3	-	27:COM1'	-	-
			-18.447	0.000	-0.383	-0.426	-0.707	-3.587
			17:COM5	-	14:COM2	21:COM9	14:COM2	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
75	84	+ve	0.000	2.844	0.281	0.439	0.000	3.342
			-	15:COM3	15:COM3	19:COM7	-	15:COM3
			-22.663	0.000	0.000	-0.159	-0.347	0.000
			17:COM5	-	-	29:COM1	17:COM5	-
	140	-ve	0.000	0.924	0.281	0.439	0.581	0.000
			-	15:COM3	15:COM3	19:COM7	15:COM3	-
			-22.117	0.000	0.000	-0.159	0.000	-3.825
			17:COM5	-	-	29:COM1	-	17:COM5
76	57	+ve	0.000	1.612	0.039	0.000	0.000	0.000
			-	15:COM3	15:COM3	-	-	-
			-2.094	0.000	-0.006	0.000	0.000	0.000
			21:COM9	-	25:COM1	-	-	-
	113	-ve	0.000	0.640	0.039	0.000	0.114	0.000
			-	15:COM3	15:COM3	-	15:COM3	-
			-2.370	-0.248	-0.006	0.000	-0.018	-3.288
			21:COM9	25:COM1	25:COM1	-	25:COM1	17:COM5
77	56	+ve	0.000	1.398	0.000	0.000	0.000	0.000
			-	15:COM3	-	-	-	-
			-1.976	0.000	-0.028	0.000	0.000	0.000
			21:COM9	-	17:COM5	-	-	-
	188	-ve	0.000	0.405	0.000	0.000	0.000	0.000
			-	15:COM3	-	14:COM2	-	-
			-2.259	-0.021	-0.028	0.000	-0.082	-2.689
			21:COM9	25:COM1	17:COM5	-	17:COM5	17:COM5
87	84	+ve	0.000	6.048	0.052	0.000	0.179	9.772
			-	19:COM7	23:COM1	-	19:COM7	19:COM7
			-21.242	0.000	-0.217	-0.652	-0.179	0.000
			17:COM5	-	17:COM5	17:COM5	29:COM1	-
	143	-ve	0.000	4.105	0.052	0.000	0.020	0.000
			-	19:COM7	23:COM1	-	23:COM1	-
			-20.697	0.000	-0.217	-0.652	-0.571	-7.325
			17:COM5	-	17:COM5	17:COM5	17:COM5	14:COM2
89	74	+ve	5.310	7.983	0.029	0.979	0.475	15.242
			27:COM1	14:COM2	23:COM1	15:COM3	15:COM3	19:COM7
			-3.896	0.000	-0.353	0.000	0.000	0.000
			21:COM9	-	17:COM5	-	-	-
	122	-ve	4.947	6.260	0.029	0.979	0.168	0.000
			27:COM1	14:COM2	23:COM1	15:COM3	23:COM1	-
			-4.380	0.000	-0.353	0.000	-0.597	-11.347
			21:COM9	-	17:COM5	-	17:COM5	21:COM9
90	83	+ve	14.829	5.081	0.049	0.372	0.104	4.732
			14:COM2	14:COM2	23:COM1	19:COM7	15:COM3	14:COM2
			0.000	0.000	-0.076	-0.196	-0.048	0.000
			-	-	17:COM5	29:COM1	25:COM1	-
	206	-ve	14.829	3.894	0.049	0.372	0.065	0.000
			14:COM2	14:COM2	23:COM1	19:COM7	23:COM1	-
			0.000	0.000	-0.076	-0.196	-0.071	-5.532
			-	-	17:COM5	29:COM1	17:COM5	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
91	84	+ve	16.480	5.535	0.063	0.119	0.118	5.042
			15:COM3	15:COM3	23:COM1'	27:COM1'	15:COM3	15:COM3
			0.000	0.000	-0.089	-0.280	-0.075	0.000
			-	-	17:COM5	21:COM9	25:COM1'	-
	146	-ve	16.480	4.364	0.063	0.119	0.066	0.000
			15:COM3	15:COM3	23:COM1'	27:COM1'	23:COM1'	-
			0.000	0.000	-0.089	-0.280	-0.083	-6.153
			-	-	17:COM5	21:COM9	17:COM5	17:COM5
92	35	+ve	0.003	28.251	0.199	3.441	0.297	54.563
			23:COM1'	13:COM1	23:COM1'	23:COM1'	15:COM3	13:COM1
			-0.001	0.000	-0.209	-3.702	-0.283	0.000
			17:COM5	-	17:COM5	17:COM5	25:COM1'	-
	8	-ve	0.003	23.072	0.199	3.441	0.145	0.000
			23:COM1'	13:COM1	23:COM1'	23:COM1'	23:COM1'	-
			-0.001	0.000	-0.209	-3.702	-0.153	-0.609
			17:COM5	-	17:COM5	17:COM5	17:COM5	13:COM1
93	38	+ve	0.031	38.423	0.385	0.390	0.678	57.800
			15:COM3	14:COM2	23:COM1'	23:COM1'	15:COM3	14:COM2
			-0.030	0.000	-0.385	-4.235	-0.673	0.000
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	-
	294	-ve	0.031	37.178	0.385	0.390	0.355	26.964
			15:COM3	14:COM2	23:COM1'	23:COM1'	15:COM3	19:COM7
			-0.030	0.000	-0.385	-4.235	-0.350	0.000
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	-
94	39	+ve	0.000	8.277	0.076	0.032	0.206	22.875
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	19:COM7
			0.000	0.000	-0.081	-0.259	-0.194	0.000
			-	-	17:COM5	17:COM5	25:COM1'	-
	237	-ve	0.000	6.072	0.076	0.032	0.011	5.508
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	14:COM2
			0.000	0.000	-0.081	-0.259	-0.010	0.000
			-	-	17:COM5	17:COM5	25:COM1'	-
95	42	+ve	0.000	29.407	0.328	0.305	0.686	63.757
			-	14:COM2	23:COM1'	23:COM1'	15:COM3	19:COM7
			0.000	0.000	-0.329	-0.300	-0.679	0.000
			-	-	17:COM5	17:COM5	25:COM1'	-
	234	-ve	0.000	25.892	0.328	0.305	0.132	2.318
			-	14:COM2	23:COM1'	23:COM1'	15:COM3	27:COM1'
			0.000	0.000	-0.329	-0.300	-0.128	-12.005
			-	-	17:COM5	17:COM5	25:COM1'	21:COM9
96	42	+ve	0.000	11.702	0.031	0.141	0.096	17.557
			-	15:COM3	23:COM1'	15:COM3	15:COM3	15:COM3
			0.000	0.000	-0.033	-0.607	-0.089	-1.348
			-	-	17:COM5	25:COM1'	25:COM1'	25:COM1'
	30	-ve	0.000	0.000	0.031	0.141	0.089	10.535
			-	-	23:COM1'	15:COM3	23:COM1'	15:COM3
			0.000	-8.776	-0.033	-0.607	-0.096	-8.484
			-	17:COM5	17:COM5	25:COM1'	17:COM5	25:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
97	39	+ve	0.000	10.753	0.031	0.000	0.096	14.508
			-	15:COM3	23:COM1'	-	15:COM3	15:COM3
			0.000	0.000	-0.033	-1.210	-0.089	-0.625
			-	-	17:COM5	21:COM9	25:COM1'	25:COM1'
	19	-ve	0.000	0.000	0.031	0.000	0.090	13.556
			-	-	23:COM1'	-	23:COM1'	15:COM3
			0.000	-9.238	-0.033	-1.210	-0.096	-6.816
			-	17:COM5	17:COM5	21:COM9	17:COM5	25:COM1'
98	38	+ve	0.000	11.216	0.031	1.788	0.093	15.759
			-	15:COM3	23:COM1'	14:COM2	15:COM3	15:COM3
			0.000	0.000	-0.032	0.000	-0.089	-0.858
			-	-	17:COM5	-	25:COM1'	25:COM1'
	20	-ve	0.000	0.000	0.031	1.788	0.089	14.687
			-	-	23:COM1'	14:COM2	23:COM1'	15:COM3
			0.000	-9.421	-0.032	0.000	-0.094	-8.177
			-	17:COM5	17:COM5	-	17:COM5	25:COM1'
99	35	+ve	0.000	13.534	0.031	0.365	0.093	22.509
			-	15:COM3	23:COM1'	23:COM1'	15:COM3	15:COM3
			0.000	0.000	-0.032	-0.571	-0.089	-7.214
			-	-	17:COM5	17:COM5	25:COM1'	25:COM1'
	34	-ve	0.000	1.252	0.031	0.365	0.089	17.980
			-	23:COM1'	23:COM1'	23:COM1'	23:COM1'	15:COM3
			0.000	-11.118	-0.032	-0.571	-0.093	-14.562
			-	17:COM5	17:COM5	17:COM5	17:COM5	25:COM1'
100	53	+ve	0.557	18.754	0.173	4.779	0.226	35.016
			27:COM1'	13:COM1	15:COM3	23:COM1'	23:COM1'	14:COM2
			-1.200	0.000	-0.170	-4.772	-0.239	0.000
			21:COM9	-	25:COM1'	17:COM5	17:COM5	-
	25	-ve	0.557	14.073	0.173	4.779	0.136	0.000
			27:COM1'	14:COM2	15:COM3	23:COM1'	23:COM1'	-
			-1.200	0.000	-0.170	-4.772	-0.143	-0.174
			21:COM9	-	25:COM1'	17:COM5	17:COM5	21:COM9
101	59	+ve	3.685	40.697	2.195	0.000	2.601	60.561
			19:COM7	14:COM2	23:COM1'	-	15:COM3	19:COM7
			-1.553	0.000	-2.244	-10.510	-2.551	0.000
			29:COM1'	-	17:COM5	17:COM5	25:COM1'	-
	297	-ve	3.685	38.901	2.195	0.000	0.996	27.433
			19:COM7	14:COM2	23:COM1'	-	23:COM1'	19:COM7
			-1.553	0.000	-2.244	-10.510	-0.988	0.000
			29:COM1'	-	17:COM5	17:COM5	17:COM5	-
102	60	+ve	0.000	11.084	0.790	0.077	0.910	28.648
			-	19:COM7	15:COM3	23:COM1'	23:COM1'	19:COM7
			-3.067	0.000	-0.721	-0.526	-0.975	0.000
			17:COM5	-	25:COM1'	17:COM5	17:COM5	-
	258	-ve	0.000	8.878	0.790	0.077	1.044	3.671
			-	19:COM7	15:COM3	23:COM1'	15:COM3	13:COM1
			-3.067	-1.405	-0.721	-0.526	-0.933	0.000
			17:COM5	29:COM1'	25:COM1'	17:COM5	25:COM1'	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
103	62	+ve	2.818	31.439	1.307	0.480	2.584	63.412
			19:COM7	14:COM2	15:COM3	15:COM3	23:COM1'	19:COM7
			-2.189	0.000	-1.298	-0.284	-2.625	0.000
			29:COM1'	-	25:COM1'	25:COM1'	17:COM5	-
	255	-ve	2.818	26.368	1.307	0.480	0.521	0.000
			19:COM7	14:COM2	15:COM3	15:COM3	23:COM1'	-
			-2.189	0.000	-1.298	-0.284	-0.541	-16.737
			29:COM1'	-	25:COM1'	25:COM1'	17:COM5	21:COM9
104	62	+ve	0.367	11.390	0.022	0.947	0.055	17.876
			23:COM1'	15:COM3	15:COM3	15:COM3	23:COM1'	15:COM3
			-0.139	0.000	-0.021	-0.333	-0.061	-4.207
			17:COM5	-	25:COM1'	25:COM1'	17:COM5	25:COM1'
	48	-ve	0.367	0.000	0.022	0.947	0.067	16.716
			23:COM1'	-	15:COM3	15:COM3	15:COM3	15:COM3
			-0.139	-10.410	-0.021	-0.333	-0.067	-7.671
			17:COM5	17:COM5	25:COM1'	25:COM1'	25:COM1'	25:COM1'
105	60	+ve	0.048	11.414	0.030	0.000	0.122	16.643
			23:COM1'	15:COM3	23:COM1'	-	15:COM3	15:COM3
			-0.985	0.000	-0.056	-1.956	-0.064	-5.721
			17:COM5	-	17:COM5	17:COM5	25:COM1'	25:COM1'
	37	-ve	0.048	0.499	0.030	0.000	0.094	13.977
			23:COM1'	23:COM1'	23:COM1'	-	23:COM1'	15:COM3
			-0.985	-9.921	-0.056	-1.956	-0.171	-9.602
			17:COM5	17:COM5	17:COM5	17:COM5	17:COM5	25:COM1'
106	59	+ve	0.050	12.415	0.044	2.264	0.040	19.246
			23:COM1'	15:COM3	19:COM7	15:COM3	27:COM1'	15:COM3
			-1.232	-0.112	-0.017	0.000	-0.101	-6.568
			17:COM5	25:COM1'	29:COM1'	-	21:COM9	25:COM1'
	36	-ve	0.050	1.389	0.044	2.264	0.136	16.389
			23:COM1'	23:COM1'	19:COM7	15:COM3	15:COM3	15:COM3
			-1.232	-10.448	-0.017	0.000	-0.056	-12.146
			17:COM5	17:COM5	29:COM1'	-	25:COM1'	25:COM1'
107	53	+ve	0.747	14.188	0.023	0.280	0.079	25.507
			23:COM1'	15:COM3	27:COM1'	23:COM1'	19:COM7	15:COM3
			-0.579	-1.756	-0.027	-0.946	-0.063	-12.479
			17:COM5	25:COM1'	21:COM9	17:COM5	29:COM1'	25:COM1'
	52	-ve	0.747	2.157	0.023	0.280	0.069	26.517
			23:COM1'	23:COM1'	27:COM1'	23:COM1'	23:COM1'	15:COM3
			-0.579	-13.551	-0.027	-0.946	-0.079	-16.498
			17:COM5	17:COM5	21:COM9	17:COM5	17:COM5	25:COM1'
120	28	+ve	84.309	3.384	9.258	0.894	11.489	5.617
			15:COM3	23:COM1'	19:COM7	23:COM1'	27:COM1'	23:COM1'
			0.000	-8.739	-4.957	-0.975	-17.165	-18.961
			-	17:COM5	29:COM1'	17:COM5	21:COM9	17:COM5
	46	-ve	81.195	3.384	9.258	0.894	16.212	12.540
			15:COM3	23:COM1'	19:COM7	23:COM1'	19:COM7	15:COM3
			0.000	-8.739	-4.957	-0.975	-6.406	-6.609
			-	17:COM5	29:COM1'	17:COM5	29:COM1'	25:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
121	46	+ve	44.667	0.773	8.364	1.086	3.289	0.886
			19:COM7	23:COM1'	19:COM7	23:COM1'	27:COM1'	23:COM1'
			0.000	-7.915	-2.381	-1.948	-15.201	-15.667
	70	-ve	-	17:COM5	29:COM1'	17:COM5	21:COM9	17:COM5
			41.553	0.773	8.364	1.086	15.031	12.912
			19:COM7	23:COM1'	19:COM7	23:COM1'	19:COM7	15:COM3
122	31	+ve	109.339	3.050	4.267	0.890	37.021	6.495
			14:COM2	23:COM1'	27:COM1'	23:COM1'	19:COM7	23:COM1'
			0.000	-7.413	-17.877	-0.947	-13.784	-14.789
	49	-ve	-	17:COM5	21:COM9	17:COM5	29:COM1'	17:COM5
			106.226	3.050	4.267	0.890	1.648	11.946
			14:COM2	23:COM1'	27:COM1'	23:COM1'	27:COM1'	15:COM3
123	49	+ve	73.476	4.321	3.199	0.896	18.211	5.941
			14:COM2	23:COM1'	27:COM1'	23:COM1'	19:COM7	23:COM1'
			0.000	-7.279	-9.915	-0.976	0.000	-10.169
	66	-ve	-	17:COM5	21:COM9	17:COM5	-	17:COM5
			70.362	4.321	3.199	0.896	11.690	16.084
			14:COM2	23:COM1'	27:COM1'	23:COM1'	27:COM1'	15:COM3
124	34	+ve	87.495	14.084	3.672	0.855	18.687	27.963
			15:COM3	15:COM3	27:COM1'	23:COM1'	19:COM7	15:COM3
			0.000	-7.967	-9.619	-0.877	-9.232	-14.566
	52	-ve	-	25:COM1'	21:COM9	17:COM5	29:COM1'	25:COM1'
			84.382	14.084	3.672	0.855	4.062	14.128
			15:COM3	15:COM3	27:COM1'	23:COM1'	27:COM1'	23:COM1'
125	52	+ve	48.283	5.070	4.734	0.565	14.882	11.252
			19:COM7	15:COM3	27:COM1'	23:COM1'	19:COM7	15:COM3
			0.000	-2.154	-9.340	-0.795	-4.407	-5.083
	69	-ve	-	25:COM1'	21:COM9	17:COM5	29:COM1'	25:COM1'
			45.169	5.070	4.734	0.565	12.743	2.785
			19:COM7	15:COM3	27:COM1'	23:COM1'	27:COM1'	23:COM1'
126	20	+ve	103.291	7.140	17.913	0.887	13.109	15.342
			15:COM3	15:COM3	19:COM7	23:COM1'	27:COM1'	15:COM3
			0.000	-3.835	-5.333	-0.894	-37.584	-8.058
	45	-ve	-	25:COM1'	29:COM1'	17:COM5	21:COM9	25:COM1'
			100.177	7.140	17.913	0.887	26.943	5.830
			15:COM3	15:COM3	19:COM7	23:COM1'	19:COM7	23:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
127	45	+ve	65.655	11.646	12.924	1.313	2.830	17.182
			15:COM3	15:COM3	19:COM7	15:COM3	27:COM1	15:COM3
			0.000	-2.845	-2.783	-0.973	-20.644	-4.520
			-	25:COM1	29:COM1	25:COM1	21:COM9	25:COM1
	64	-ve	62.541	11.646	12.924	1.313	25.967	5.773
			15:COM3	15:COM3	19:COM7	15:COM3	19:COM7	23:COM1
			0.000	-2.845	-2.783	-0.973	-7.273	-24.797
			-	25:COM1	29:COM1	25:COM1	29:COM1	17:COM5
128	64	+ve	36.280	29.664	15.795	3.832	14.465	5.785
			15:COM3	15:COM3	15:COM3	19:COM7	19:COM7	15:COM3
			0.000	-10.284	-7.109	-1.408	0.000	-2.242
			-	25:COM1	25:COM1	29:COM1	-	25:COM1
	74	-ve	36.020	29.664	15.795	3.832	18.565	8.636
			15:COM3	15:COM3	15:COM3	19:COM7	19:COM7	23:COM1
			0.000	-10.284	-7.109	-1.408	0.000	-10.907
			-	25:COM1	25:COM1	29:COM1	-	17:COM5
129	19	+ve	96.057	6.805	5.722	0.876	36.407	14.107
			15:COM3	15:COM3	27:COM1	23:COM1	19:COM7	15:COM3
			0.000	-3.389	-17.341	-0.974	-13.885	-6.670
			-	25:COM1	21:COM9	17:COM5	29:COM1	25:COM1
	43	-ve	92.943	6.805	5.722	0.876	6.745	5.579
			15:COM3	15:COM3	27:COM1	23:COM1	27:COM1	23:COM1
			0.000	-3.389	-17.341	-0.974	-26.054	-10.438
			-	25:COM1	21:COM9	17:COM5	21:COM9	17:COM5
130	43	+ve	59.307	10.581	2.501	0.982	20.991	15.322
			15:COM3	15:COM3	27:COM1	23:COM1	19:COM7	15:COM3
			0.000	-1.942	-12.845	-1.418	-2.609	-2.726
			-	25:COM1	21:COM9	17:COM5	29:COM1	25:COM1
	63	-ve	56.193	10.581	2.501	0.982	6.470	4.314
			15:COM3	15:COM3	27:COM1	23:COM1	27:COM1	23:COM1
			0.000	-1.942	-12.845	-1.418	-25.327	-22.818
			-	25:COM1	21:COM9	17:COM5	21:COM9	17:COM5
131	63	+ve	31.390	17.386	11.126	2.384	0.000	6.782
			19:COM7	15:COM3	27:COM1	23:COM1	-	15:COM3
			0.000	0.000	-20.114	-4.756	-13.917	-2.835
			-	-	21:COM9	17:COM5	17:COM5	25:COM1
	73	-ve	31.131	17.386	11.126	2.384	0.000	5.747
			19:COM7	15:COM3	27:COM1	23:COM1	-	23:COM1
			0.000	0.000	-20.114	-4.756	-18.920	-7.743
			-	-	21:COM9	17:COM5	21:COM9	17:COM5
132	33	+ve	100.513	7.380	4.308	0.867	22.753	14.513
			15:COM3	23:COM1	27:COM1	23:COM1	19:COM7	23:COM1
			0.000	-12.118	-11.127	-0.891	-9.633	-26.426
			-	17:COM5	21:COM9	17:COM5	29:COM1	17:COM5
	51	-ve	97.399	7.380	4.308	0.867	5.922	17.251
			15:COM3	23:COM1	27:COM1	23:COM1	27:COM1	15:COM3
			0.000	-12.118	-11.127	-0.891	-17.352	-12.106
			-	17:COM5	21:COM9	17:COM5	21:COM9	25:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
133	51	+ve	42.986	5.413	2.580	2.515	15.462	10.410
			19:COM7	23:COM1'	27:COM1'	15:COM3	19:COM7	23:COM1'
			0.000	-12.198	-9.245	-1.694	-3.101	-24.520
	68	-ve	-	17:COM5	21:COM9	25:COM1'	29:COM1'	17:COM5
			39.872	5.413	2.580	2.515	6.302	19.430
			19:COM7	23:COM1'	27:COM1'	15:COM3	27:COM1'	15:COM3
			0.000	-12.198	-9.245	-1.694	-17.936	-9.113
			-	17:COM5	21:COM9	25:COM1'	21:COM9	25:COM1'
134	70	+ve	35.197	0.000	19.413	1.772	0.909	12.013
			14:COM2	-	19:COM7	15:COM3	23:COM1'	15:COM3
			0.000	-6.992	-5.533	-1.600	-3.840	-1.881
	76	-ve	-	17:COM5	29:COM1'	25:COM1'	17:COM5	25:COM1'
			34.395	0.000	19.413	1.772	15.539	18.443
			14:COM2	-	19:COM7	15:COM3	19:COM7	15:COM3
			0.000	-6.992	-5.533	-1.600	-5.609	-1.455
			-	17:COM5	29:COM1'	25:COM1'	29:COM1'	25:COM1'
135	38	+ve	123.660	8.363	16.598	0.436	0.212	15.451
			14:COM2	15:COM3	19:COM7	23:COM1'	27:COM1'	15:COM3
			0.000	-7.210	0.000	-0.456	-31.030	-13.539
	59	-ve	-	25:COM1'	-	17:COM5	21:COM9	25:COM1'
			121.622	8.363	16.598	0.436	28.726	12.416
			14:COM2	15:COM3	19:COM7	23:COM1'	19:COM7	23:COM1'
			0.000	-7.210	0.000	-0.456	0.000	-14.656
			-	25:COM1'	-	17:COM5	-	17:COM5
136	32	+ve	115.884	4.295	22.487	0.858	10.138	9.315
			15:COM3	23:COM1'	19:COM7	23:COM1'	27:COM1'	23:COM1'
			0.000	-10.822	-2.356	-0.917	-45.920	-20.960
	50	-ve	-	17:COM5	29:COM1'	17:COM5	21:COM9	17:COM5
			112.770	4.295	22.487	0.858	35.091	18.038
			15:COM3	23:COM1'	19:COM7	23:COM1'	19:COM7	15:COM3
			0.000	-10.822	-2.356	-0.917	0.000	-6.184
			-	17:COM5	29:COM1'	17:COM5	-	25:COM1'
137	35	+ve	122.354	17.163	1.920	0.863	25.358	31.438
			14:COM2	15:COM3	27:COM1'	23:COM1'	19:COM7	15:COM3
			0.000	-15.771	-14.874	-0.893	-5.626	-29.578
	53	-ve	-	25:COM1'	21:COM9	17:COM5	29:COM1'	25:COM1'
			119.240	17.163	1.920	0.863	1.293	27.201
			14:COM2	15:COM3	27:COM1'	23:COM1'	27:COM1'	23:COM1'
			0.000	-15.771	-14.874	-0.893	-28.195	-30.350
			-	25:COM1'	21:COM9	17:COM5	21:COM9	17:COM5
138	50	+ve	70.897	5.827	10.806	0.935	0.000	8.712
			15:COM3	23:COM1'	19:COM7	23:COM1'	-	23:COM1'
			0.000	-10.115	-3.076	-0.979	-20.907	-16.370
	67	-ve	-	17:COM5	29:COM1'	17:COM5	21:COM9	17:COM5
			67.783	5.827	10.806	0.935	18.151	20.077
			15:COM3	23:COM1'	19:COM7	23:COM1'	19:COM7	15:COM3
			0.000	-10.115	-3.076	-0.979	-12.328	-12.296
			-	17:COM5	29:COM1'	17:COM5	29:COM1'	25:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
139	68	+ve	34.948	3.985	1.991	2.627	3.407	18.077
			15:COM3	23:COM1'	23:COM1'	23:COM1'	27:COM1'	15:COM3
			0.000	-11.013	-15.647	-2.743	-2.473	-8.480
			-	17:COM5	17:COM5	17:COM5	21:COM9	25:COM1'
			34.166	3.985	1.991	2.627	3.053	28.020
			15:COM3	23:COM1'	23:COM1'	23:COM1'	27:COM1'	15:COM3
	75	-ve	0.000	-11.013	-15.647	-2.743	-14.461	-12.071
			-	17:COM5	17:COM5	17:COM5	21:COM9	25:COM1'
140	39	+ve	111.695	6.219	0.979	0.435	26.660	11.682
			14:COM2	23:COM1'	27:COM1'	23:COM1'	19:COM7	15:COM3
			0.000	-6.232	-14.445	-0.469	-2.201	-11.665
			-	17:COM5	21:COM9	17:COM5	29:COM1'	25:COM1'
			109.657	6.219	0.979	0.435	1.325	10.779
			14:COM2	23:COM1'	27:COM1'	23:COM1'	27:COM1'	15:COM3
	60	-ve	0.000	-6.232	-14.445	-0.469	-25.342	-10.717
			-	17:COM5	21:COM9	17:COM5	21:COM9	25:COM1'
141	42	+ve	119.650	9.469	9.747	0.880	10.882	17.158
			14:COM2	15:COM3	19:COM7	23:COM1'	27:COM1'	23:COM1'
			0.000	-9.389	-4.155	-0.957	-13.391	-17.607
			-	25:COM1'	29:COM1'	17:COM5	21:COM9	17:COM5
			116.537	9.469	9.747	0.880	21.710	16.281
			14:COM2	15:COM3	19:COM7	23:COM1'	19:COM7	23:COM1'
	62	-ve	0.000	-9.389	-4.155	-0.957	-4.089	-17.017
			-	25:COM1'	29:COM1'	17:COM5	29:COM1'	17:COM5
142	30	+ve	89.481	9.388	9.038	0.883	9.772	18.950
			19:COM7	15:COM3	19:COM7	23:COM1'	27:COM1'	15:COM3
			0.000	-3.719	-3.815	-0.967	-17.094	-6.222
			-	25:COM1'	29:COM1'	17:COM5	21:COM9	25:COM1'
			86.367	9.388	9.038	0.883	15.518	7.181
			19:COM7	15:COM3	19:COM7	23:COM1'	19:COM7	23:COM1'
	48	-ve	0.000	-3.719	-3.815	-0.967	-4.039	-14.862
			-	25:COM1'	29:COM1'	17:COM5	29:COM1'	17:COM5
143	48	+ve	50.393	3.584	9.145	0.932	4.502	7.387
			19:COM7	15:COM3	19:COM7	15:COM3	27:COM1'	15:COM3
			0.000	-0.696	-4.793	-0.731	-14.296	-1.300
			-	25:COM1'	29:COM1'	25:COM1'	21:COM9	25:COM1'
			47.280	3.584	9.145	0.932	18.720	1.381
			19:COM7	15:COM3	19:COM7	15:COM3	19:COM7	23:COM1'
	65	-ve	0.000	-0.696	-4.793	-0.731	-12.847	-5.691
			-	25:COM1'	29:COM1'	25:COM1'	29:COM1'	17:COM5
144	65	+ve	37.848	2.370	4.044	0.659	6.190	1.340
			19:COM7	15:COM3	19:COM7	15:COM3	27:COM1'	23:COM1'
			0.000	0.000	-1.543	-0.319	-11.779	-5.065
			-	-	29:COM1'	25:COM1'	21:COM9	17:COM5
			35.276	2.370	4.044	0.659	1.860	0.000
			19:COM7	15:COM3	19:COM7	15:COM3	19:COM7	-
	81	-ve	0.000	0.000	-1.543	-0.319	-0.014	-11.387
			-	-	29:COM1'	25:COM1'	29:COM1'	17:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
146	66	+ve	31.000	0.000	0.000	0.103	11.010	0.127
			19:COM7	-	-	23:COM1'	19:COM7	23:COM1'
			0.000	-6.521	-6.319	-0.754	-1.193	-14.733
			-	17:COM5	17:COM5	17:COM5	29:COM1'	17:COM5
	83	-ve	27.886	0.000	0.000	0.103	0.000	8.907
			19:COM7	-	-	23:COM1'	-	14:COM2
			0.000	-6.521	-6.319	-0.754	-17.907	0.000
			-	17:COM5	17:COM5	17:COM5	21:COM9	-
148	67	+ve	33.961	0.000	6.867	0.847	2.483	1.092
			15:COM3	-	19:COM7	15:COM3	27:COM1'	23:COM1'
			0.000	-6.668	0.000	-0.273	-12.446	-15.989
			-	17:COM5	-	25:COM1'	21:COM9	17:COM5
	84	-ve	30.847	0.000	6.867	0.847	17.745	9.139
			15:COM3	-	19:COM7	15:COM3	15:COM3	14:COM2
			0.000	-6.668	0.000	-0.273	0.000	0.000
			-	17:COM5	-	25:COM1'	-	-
150	69	+ve	36.303	3.450	1.668	0.486	12.065	2.400
			14:COM2	15:COM3	27:COM1'	23:COM1'	19:COM7	23:COM1'
			0.000	-0.530	-4.148	-0.837	-6.377	-6.076
			-	25:COM1'	21:COM9	17:COM5	29:COM1'	17:COM5
	82	-ve	33.712	3.450	1.668	0.486	0.000	3.748
			14:COM2	15:COM3	27:COM1'	23:COM1'	-	23:COM1'
			0.000	-0.530	-4.148	-0.837	-1.621	-16.175
			-	25:COM1'	21:COM9	17:COM5	17:COM5	17:COM5
151	69	+ve	0.143	2.729	0.202	0.000	0.435	2.934
			19:COM7	13:COM1	15:COM3	13:COM1	15:COM3	13:COM1
			-0.143	0.000	-0.202	0.000	-0.435	0.000
			21:COM9	-	17:COM5	-	17:COM5	-
	47	-ve	0.143	0.000	0.202	0.000	0.000	0.000
			19:COM7	13:COM1	15:COM3	13:COM1	14:COM2	-
			-0.143	0.000	-0.202	0.000	0.000	-0.000
			21:COM9	-	17:COM5	-	-	13:COM1
155	76	+ve	3.282	9.602	0.000	0.745	0.526	15.611
			15:COM3	15:COM3	-	27:COM1'	15:COM3	15:COM3
			0.000	0.000	-0.347	-0.705	-0.051	0.000
			-	-	17:COM5	21:COM9	25:COM1'	-
	212	-ve	2.903	8.268	0.000	0.745	0.094	0.000
			15:COM3	15:COM3	-	27:COM1'	23:COM1'	-
			0.000	0.000	-0.347	-0.705	-0.447	-9.487
			-	-	17:COM5	21:COM9	17:COM5	17:COM5
156	75	+ve	3.603	11.444	0.347	0.600	0.213	22.683
			15:COM3	15:COM3	15:COM3	15:COM3	23:COM1'	15:COM3
			-1.704	0.000	0.000	-0.683	-0.799	-8.453
			25:COM1'	-	-	25:COM1'	17:COM5	25:COM1'
	147	-ve	3.237	10.159	0.347	0.600	0.720	1.375
			15:COM3	15:COM3	15:COM3	15:COM3	15:COM3	23:COM1'
			-1.978	0.000	0.000	-0.683	-0.377	-12.281
			25:COM1'	-	-	25:COM1'	25:COM1'	17:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
157	100	+ve	6.123	2.440	0.934	2.674	0.000	0.895
			19:COM7	14:COM2	15:COM3	14:COM2	-	19:COM7
			0.000	0.000	0.000	0.000	-0.389	0.000
			-	-	-	-	17:COM5	-
	207	-ve	6.123	1.993	0.934	2.674	0.416	0.000
			19:COM7	14:COM2	15:COM3	14:COM2	15:COM3	-
			0.000	0.000	0.000	0.000	0.000	-1.033
			-	-	-	-	-	14:COM2
158	101	+ve	7.300	3.706	0.000	0.000	0.743	1.104
			15:COM3	14:COM2	-	-	14:COM2	15:COM3
			0.000	0.000	-1.847	-2.746	0.000	0.000
			-	-	14:COM2	14:COM2	-	-
	125	-ve	7.300	3.309	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			0.000	0.000	-1.847	-2.746	-0.686	-1.682
			-	-	14:COM2	14:COM2	17:COM5	17:COM5
159	100	+ve	0.646	0.000	0.000	0.000	0.733	0.000
			19:COM7	-	-	-	19:COM7	-
			-0.397	-5.861	-0.428	-0.665	0.000	-13.957
			29:COM11	17:COM5	21:COM9	21:COM9	-	14:COM2
	213	-ve	0.841	0.000	0.000	0.000	0.349	0.000
			19:COM7	-	-	-	15:COM3	-
			-0.250	-6.549	-0.428	-0.665	0.000	-8.174
			29:COM11	17:COM5	21:COM9	21:COM9	-	17:COM5
160	101	+ve	1.790	0.000	0.348	0.612	0.000	0.000
			19:COM7	-	15:COM3	15:COM3	-	-
			0.000	-7.333	0.000	0.000	-0.636	-15.322
			-	17:COM5	-	-	17:COM5	17:COM5
	148	-ve	1.975	0.000	0.348	0.612	0.061	1.142
			19:COM7	-	15:COM3	15:COM3	23:COM11	23:COM11
			0.000	-7.985	0.000	0.000	-0.499	-10.872
			-	17:COM5	-	-	17:COM5	17:COM5
192	57	+ve	2.038	2.674	0.006	0.175	0.021	1.253
			14:COM2	14:COM2	23:COM11	15:COM3	15:COM3	15:COM3
			0.000	0.000	-0.014	-0.041	-0.008	0.000
			-	-	17:COM5	25:COM11	25:COM11	-
	147	-ve	1.325	0.000	0.006	0.175	0.011	2.901
			15:COM3	-	23:COM11	15:COM3	23:COM11	19:COM7
			0.000	-3.780	-0.014	-0.041	-0.025	0.000
			-	14:COM2	17:COM5	25:COM11	17:COM5	-
193	104	+ve	15.806	0.393	0.213	0.168	0.136	0.000
			15:COM3	13:COM1	15:COM3	19:COM7	23:COM11	-
			0.000	0.000	-0.120	-0.054	-0.279	-0.935
			-	-	25:COM11	29:COM11	17:COM5	17:COM5
	271	-ve	15.806	0.000	0.213	0.168	0.145	0.112
			15:COM3	-	15:COM3	19:COM7	15:COM3	27:COM11
			0.000	-0.865	-0.120	-0.054	-0.104	-0.416
			-	17:COM5	25:COM11	29:COM11	25:COM11	21:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
194	104	+ve	4.160	8.818	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	14:COM2	-	-	-
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	74	-ve	6.062	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			0.000	-8.818	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
207	125	+ve	6.751	0.191	0.000	0.099	0.128	0.000
			15:COM3	13:COM1	-	23:COM1'	15:COM3	-
			0.000	0.000	-0.128	-0.987	0.000	-1.328
			-	-	17:COM5	17:COM5	-	17:COM5
	61	-ve	6.751	0.000	0.000	0.099	0.000	0.349
			15:COM3	-	-	23:COM1'	-	23:COM1'
			0.000	-1.175	-0.128	-0.987	-0.160	-0.245
			-	13:COM1	17:COM5	17:COM5	17:COM5	17:COM5
208	113	+ve	0.944	1.954	0.004	0.363	0.023	0.776
			15:COM3	15:COM3	23:COM1'	14:COM2	15:COM3	15:COM3
			-0.033	0.000	-0.015	0.000	-0.009	-0.420
			25:COM1'	-	17:COM5	-	25:COM1'	25:COM1'
	152	-ve	0.374	0.000	0.004	0.363	0.005	5.149
			23:COM1'	-	23:COM1'	14:COM2	23:COM1'	15:COM3
			-0.352	-4.647	-0.015	0.000	-0.027	0.000
			17:COM5	14:COM2	17:COM5	-	17:COM5	-
209	271	+ve	1.134	6.681	0.000	0.000	0.000	0.000
			19:COM7	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	122	-ve	2.633	0.000	0.000	0.000	0.000	0.000
			14:COM2	-	-	-	-	-
			0.000	-6.681	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
210	112	+ve	0.000	1.839	0.000	0.211	0.019	1.944
			-	14:COM2	-	15:COM3	15:COM3	15:COM3
			-0.770	0.000	-0.013	0.000	0.000	0.000
			17:COM5	-	17:COM5	-	-	-
	151	-ve	0.000	0.000	0.000	0.211	0.000	6.229
			-	-	-	15:COM3	-	14:COM2
			-1.568	-4.596	-0.013	0.000	-0.022	0.000
			14:COM2	14:COM2	17:COM5	-	17:COM5	-
211	274	+ve	0.000	4.545	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-2.012	0.000	-0.000	0.000	0.000	0.000
			14:COM2	-	14:COM2	-	-	-
	121	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-0.991	-4.545	-0.000	0.000	0.000	0.000
			21:COM9	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
212	111	+ve	0.000	2.131	0.001	0.207	0.009	1.544
			-	15:COM3	23:COM1'	14:COM2	15:COM3	14:COM2
			-1.195	0.000	-0.009	0.000	-0.000	0.000
			17:COM5	-	17:COM5	-	25:COM1'	-
	125	-ve	0.000	0.000	0.001	0.207	0.001	3.129
			-	-	23:COM1'	14:COM2	23:COM1'	15:COM3
			-1.880	-2.901	-0.009	0.000	-0.012	0.000
			14:COM2	17:COM5	17:COM5	-	17:COM5	-
213	125	+ve	0.000	0.000	0.000	0.264	0.037	1.394
			-	-	-	15:COM3	15:COM3	15:COM3
			-1.386	-0.716	-0.078	0.000	0.000	-0.011
			17:COM5	17:COM5	17:COM5	-	-	25:COM1'
	148	-ve	0.000	0.000	0.000	0.264	0.000	2.529
			-	-	-	15:COM3	-	15:COM3
			-1.210	-2.348	-0.078	0.000	-0.028	0.000
			17:COM5	14:COM2	17:COM5	-	14:COM2	-
229	146	+ve	27.728	0.821	0.117	0.384	0.039	0.000
			15:COM3	19:COM7	15:COM3	19:COM7	23:COM1'	-
			0.000	0.000	-0.030	-0.054	-0.110	-1.178
			-	-	25:COM1'	29:COM1'	17:COM5	17:COM5
	273	-ve	27.728	0.000	0.117	0.384	0.121	0.000
			15:COM3	-	15:COM3	19:COM7	15:COM3	-
			0.000	-0.430	-0.030	-0.054	-0.021	-1.521
			-	13:COM1	25:COM1'	29:COM1'	25:COM1'	17:COM5
230	141	+ve	5.024	6.681	0.000	0.000	0.000	0.000
			14:COM2	14:COM2	14:COM2	-	-	-
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	272	-ve	3.204	0.000	0.000	0.000	0.000	0.000
			13:COM1	-	14:COM2	-	-	-
			0.000	-6.681	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
231	272	+ve	3.387	6.682	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	14:COM2	-	-	-
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	138	-ve	4.828	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			0.000	-6.682	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
232	142	+ve	2.605	4.545	0.000	0.000	0.000	0.000
			14:COM2	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	273	-ve	1.611	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			0.000	-4.545	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
233	273	+ve	1.790	4.412	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	14:COM2	-	-	-
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	78	-ve	2.741	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			0.000	-4.412	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
234	143	+ve	0.238	2.407	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	-	-	-	-
			-1.161	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	146	-ve	0.092	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	-	-	-	-
			-1.681	-2.407	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
235	146	+ve	0.127	2.411	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	-	-	-	-
			-1.604	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	140	-ve	0.273	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	-	-	-	-
			-1.085	-2.411	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
238	147	+ve	5.041	6.953	0.001	0.000	0.006	7.680
			14:COM2	14:COM2	23:COM1'	-	15:COM3	14:COM2
			0.000	0.000	-0.001	0.000	-0.006	0.000
			-	-	17:COM5	-	25:COM1'	-
	104	-ve	3.609	0.000	0.001	0.000	0.000	0.000
			15:COM3	-	23:COM1'	-	-	-
			0.000	-4.229	-0.001	0.000	0.000	0.000
			-	14:COM2	17:COM5	-	-	-
239	148	+ve	0.000	2.122	0.000	0.210	0.021	2.564
			-	15:COM3	-	15:COM3	15:COM3	15:COM3
			-2.360	0.000	-0.023	0.000	0.000	0.000
			14:COM2	-	14:COM2	-	-	-
	120	-ve	0.000	0.000	0.000	0.210	0.000	1.462
			-	-	-	15:COM3	-	15:COM3
			-1.921	-1.441	-0.023	0.000	-0.018	0.000
			17:COM5	17:COM5	14:COM2	-	21:COM9	-
240	152	+ve	3.102	5.328	0.000	0.000	0.007	6.782
			14:COM2	14:COM2	23:COM1'	-	15:COM3	19:COM7
			0.000	0.000	-0.002	0.000	-0.002	0.000
			-	-	17:COM5	-	25:COM1'	-
	271	-ve	2.119	0.000	0.000	0.000	0.000	0.000
			13:COM1	-	23:COM1'	-	-	-
			0.000	-1.665	-0.002	0.000	0.000	0.000
			-	21:COM9	17:COM5	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
241	151	+ve	0.066	4.497	0.000	0.000	0.012	4.423
			27:COM1'	19:COM7	-	-	15:COM3	19:COM7
			-0.398	0.000	-0.009	0.000	0.000	0.000
			21:COM9	-	17:COM5	-	-	-
	274	-ve	0.000	2.109	0.000	0.000	0.000	0.000
			-	19:COM7	-	-	-	-
			-0.684	0.000	-0.009	0.000	0.000	0.000
			21:COM9	-	17:COM5	-	-	-
242	56	+ve	2.244	2.760	0.008	0.000	0.007	1.122
			19:COM7	14:COM2	15:COM3	-	23:COM1'	15:COM3
			0.000	0.000	-0.004	-0.133	-0.013	0.000
			-	-	25:COM1'	17:COM5	17:COM5	-
	212	-ve	1.522	0.000	0.008	0.000	0.014	3.351
			19:COM7	-	15:COM3	-	15:COM3	19:COM7
			0.000	-3.963	-0.004	-0.133	-0.007	0.000
			-	14:COM2	25:COM1'	17:COM5	25:COM1'	-
243	75	+ve	0.000	5.423	0.604	1.730	0.042	10.541
			-	15:COM3	15:COM3	15:COM3	23:COM1'	15:COM3
			-4.054	0.000	-0.116	-0.110	-0.996	0.000
			17:COM5	-	25:COM1'	25:COM1'	17:COM5	-
	57	-ve	0.000	4.121	0.604	1.730	0.355	0.078
			-	15:COM3	15:COM3	15:COM3	15:COM3	23:COM1'
			-3.689	0.000	-0.116	-0.110	-0.217	-0.628
			17:COM5	-	25:COM1'	25:COM1'	25:COM1'	17:COM5
244	82	+ve	0.000	8.638	0.000	0.274	1.222	16.837
			-	15:COM3	-	23:COM1'	15:COM3	15:COM3
			-4.073	0.000	-0.679	-0.934	0.000	0.000
			17:COM5	-	17:COM5	17:COM5	-	-
	61	-ve	0.000	7.336	0.000	0.274	0.000	0.000
			-	15:COM3	-	23:COM1'	-	-
			-4.438	0.000	-0.679	-0.934	-0.296	-1.001
			17:COM5	-	17:COM5	17:COM5	17:COM5	17:COM5
245	111	+ve	0.000	0.000	0.000	0.000	0.137	0.000
			-	-	-	-	14:COM2	-
			-5.855	-0.884	-0.041	0.000	0.000	-4.722
			17:COM5	14:COM2	14:COM2	-	-	14:COM2
	61	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-6.167	-1.981	-0.041	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
246	112	+ve	0.000	0.668	0.000	0.510	0.108	0.000
			-	15:COM3	-	19:COM7	15:COM3	-
			-7.348	0.000	-0.025	0.000	0.000	-2.592
			14:COM2	-	17:COM5	-	-	17:COM5
	111	-ve	0.000	0.000	0.000	0.510	0.062	0.000
			-	-	-	19:COM7	19:COM7	-
			-7.625	-0.507	-0.025	0.000	0.000	-2.896
			14:COM2	13:COM1	17:COM5	-	-	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
247	113	+ve	0.000	0.272	0.000	0.000	0.136	0.000
			-	23:COM1'	-	-	15:COM3	-
			-6.110	-0.116	-0.062	-0.220	0.000	-2.627
			14:COM2	17:COM5	17:COM5	21:COM9	-	17:COM5
	112	-ve	0.000	0.000	0.000	0.000	0.028	0.000
			-	-	-	-	23:COM1'	-
			-6.386	-1.089	-0.062	-0.220	-0.044	-1.245
			14:COM2	17:COM5	17:COM5	21:COM9	17:COM5	17:COM5
248	120	+ve	0.321	0.000	0.077	0.657	0.769	9.020
			27:COM1'	-	23:COM1'	15:COM3	19:COM7	19:COM7
			-9.843	-9.185	-0.315	-0.132	0.000	0.000
			21:COM9	17:COM5	17:COM5	25:COM1'	-	-
	82	-ve	0.186	0.000	0.077	0.657	0.683	19.276
			27:COM1'	-	23:COM1'	15:COM3	15:COM3	15:COM3
			-10.023	-9.826	-0.315	-0.132	0.000	0.000
			21:COM9	17:COM5	17:COM5	25:COM1'	-	-
249	121	+ve	0.000	0.000	0.291	0.000	0.000	0.000
			-	-	15:COM3	-	-	-
			-13.254	-5.253	0.000	-0.867	-0.387	-8.447
			21:COM9	21:COM9	-	17:COM5	17:COM5	17:COM5
	120	-ve	0.000	0.000	0.291	0.000	0.480	9.637
			-	-	15:COM3	-	19:COM7	19:COM7
			-13.738	-6.976	0.000	-0.867	0.000	0.000
			21:COM9	21:COM9	-	17:COM5	-	-
250	122	+ve	0.000	1.662	0.080	0.000	0.000	0.000
			-	19:COM7	15:COM3	-	-	-
			-11.190	0.000	-0.008	-0.752	-0.530	-10.302
			21:COM9	-	25:COM1'	17:COM5	21:COM9	21:COM9
	121	-ve	0.000	0.075	0.080	0.000	0.000	0.000
			-	27:COM1'	15:COM3	-	-	-
			-11.675	-1.187	-0.008	-0.752	-0.436	-9.346
			21:COM9	21:COM9	25:COM1'	17:COM5	17:COM5	21:COM9
251	74	+ve	13.551	5.631	0.389	0.266	0.397	9.513
			15:COM3	15:COM3	15:COM3	19:COM7	23:COM1'	15:COM3
			-4.757	0.000	-0.020	-0.308	-0.628	-6.331
			25:COM1'	-	25:COM1'	29:COM1'	17:COM5	25:COM1'
	138	-ve	13.067	3.930	0.389	0.266	0.677	0.000
			15:COM3	15:COM3	15:COM3	19:COM7	15:COM3	-
			-5.120	-0.106	-0.020	-0.308	0.000	-10.561
			25:COM1'	25:COM1'	25:COM1'	29:COM1'	-	17:COM5
254	141	+ve	10.640	0.000	0.809	3.148	0.001	11.717
			15:COM3	-	15:COM3	15:COM3	23:COM1'	19:COM7
			-0.988	-11.429	-0.540	-0.413	-0.787	-0.557
			25:COM1'	14:COM2	25:COM1'	25:COM1'	17:COM5	29:COM1'
	75	-ve	10.759	0.000	0.809	3.148	0.009	19.686
			15:COM3	-	15:COM3	15:COM3	23:COM1'	19:COM7
			-0.899	-11.851	-0.540	-0.413	-0.601	0.000
			25:COM1'	14:COM2	25:COM1'	25:COM1'	17:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
255	142	+ve	2.992	0.000	0.000	0.946	0.619	0.000
			23:COM1'	-	-	15:COM3	15:COM3	-
			-9.431	-4.597	-0.307	-0.412	0.000	-10.207
			17:COM5	17:COM5	21:COM9	25:COM1'	-	21:COM9
	141	-ve	3.355	0.000	0.000	0.946	0.025	11.668
			23:COM1'	-	-	15:COM3	27:COM1'	19:COM7
			-8.947	-6.321	-0.307	-0.412	-0.575	-0.466
			17:COM5	17:COM5	21:COM9	25:COM1'	21:COM9	29:COM1'
256	143	+ve	0.000	2.036	0.000	0.202	0.655	0.000
			-	19:COM7	-	23:COM1'	15:COM3	-
			-21.768	0.000	-0.218	-0.617	0.000	-6.926
			17:COM5	-	17:COM5	17:COM5	-	14:COM2
	142	-ve	0.000	0.407	0.000	0.202	0.215	0.000
			-	27:COM1'	-	23:COM1'	19:COM7	-
			-21.284	-1.284	-0.218	-0.617	-0.065	-10.260
			17:COM5	21:COM9	17:COM5	17:COM5	29:COM1'	21:COM9
258	148	+ve	3.692	0.000	0.646	0.589	0.069	1.138
			15:COM3	-	15:COM3	15:COM3	23:COM1'	23:COM1'
			0.000	-13.678	0.000	0.000	-0.425	-10.949
			-	17:COM5	-	-	17:COM5	17:COM5
	82	-ve	3.872	0.000	0.646	0.589	0.668	13.926
			15:COM3	-	15:COM3	15:COM3	15:COM3	15:COM3
			0.000	-14.311	0.000	0.000	-0.288	-3.451
			-	17:COM5	-	-	25:COM1'	25:COM1'
259	101	+ve	0.000	0.651	0.451	1.497	0.000	0.000
			-	23:COM1'	15:COM3	19:COM7	-	-
			-3.992	-4.837	0.000	0.000	-1.045	-17.882
			17:COM5	17:COM5	-	-	17:COM5	17:COM5
	151	-ve	0.000	0.000	0.451	1.497	0.000	0.000
			-	-	15:COM3	19:COM7	-	-
			-3.691	-5.894	0.000	0.000	-0.393	-10.260
			17:COM5	17:COM5	-	-	17:COM5	17:COM5
261	155	+ve	14.437	0.601	0.253	0.409	0.221	0.038
			14:COM2	27:COM1'	15:COM3	19:COM7	23:COM1'	23:COM1'
			0.000	-0.142	-0.167	-0.032	-0.264	-1.187
			-	21:COM9	25:COM1'	29:COM1'	17:COM5	17:COM5
	209	-ve	14.437	0.000	0.253	0.409	0.241	0.278
			14:COM2	-	15:COM3	19:COM7	15:COM3	27:COM1'
			0.000	-1.181	-0.167	-0.032	-0.113	-0.527
			-	21:COM9	25:COM1'	29:COM1'	25:COM1'	21:COM9
262	155	+ve	3.482	8.853	0.000	0.000	0.000	0.000
			19:COM7	14:COM2	14:COM2	-	-	-
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	73	-ve	5.383	0.000	0.000	0.000	0.000	0.000
			19:COM7	-	14:COM2	-	-	-
			0.000	-8.853	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
293	204	+ve	17.912	0.595	0.163	0.000	0.317	0.000
			14:COM2	15:COM3	23:COM1'	-	15:COM3	-
			0.000	0.000	-0.319	-1.155	-0.125	-0.857
			-	-	17:COM5	14:COM2	25:COM1'	17:COM5
	155	-ve	17.912	0.000	0.163	0.000	0.203	0.258
			14:COM2	-	23:COM1'	-	23:COM1'	23:COM1'
			0.000	-0.996	-0.319	-1.155	-0.323	-0.605
			-	17:COM5	17:COM5	14:COM2	17:COM5	17:COM5
294	205	+ve	21.505	0.834	0.059	0.006	0.175	0.012
			14:COM2	19:COM7	23:COM1'	27:COM1'	15:COM3	27:COM1'
			0.000	0.000	-0.207	-0.291	-0.054	-0.922
			-	-	17:COM5	21:COM9	25:COM1'	21:COM9
	204	-ve	21.505	0.000	0.059	0.006	0.064	0.000
			14:COM2	-	23:COM1'	27:COM1'	23:COM1'	-
			0.000	-0.771	-0.207	-0.291	-0.240	-0.885
			-	21:COM9	17:COM5	21:COM9	17:COM5	21:COM9
295	206	+ve	24.316	0.800	0.068	0.099	0.068	0.000
			14:COM2	19:COM7	23:COM1'	27:COM1'	23:COM1'	-
			0.000	0.000	-0.083	-0.434	-0.073	-1.017
			-	-	17:COM5	21:COM9	17:COM5	21:COM9
	205	-ve	24.316	0.000	0.068	0.099	0.063	0.000
			14:COM2	-	23:COM1'	27:COM1'	23:COM1'	-
			0.000	-0.444	-0.083	-0.434	-0.098	-1.453
			-	13:COM1	17:COM5	21:COM9	17:COM5	14:COM2
296	207	+ve	5.748	0.368	0.166	0.724	0.000	0.000
			19:COM7	13:COM1	15:COM3	15:COM3	-	-
			0.000	0.000	0.000	0.000	-0.173	-0.941
			-	-	-	-	17:COM5	14:COM2
	58	-ve	5.748	0.000	0.166	0.724	0.206	0.120
			19:COM7	-	15:COM3	15:COM3	15:COM3	23:COM1'
			0.000	-1.017	0.000	0.000	0.000	-0.190
			-	13:COM1	-	-	-	17:COM5
297	208	+ve	6.733	0.000	0.788	1.606	0.000	0.000
			19:COM7	-	19:COM7	19:COM7	-	-
			0.000	-1.848	0.000	0.000	-0.496	-0.822
			-	14:COM2	-	-	21:COM9	14:COM2
	100	-ve	6.733	0.000	0.788	1.606	0.403	1.622
			19:COM7	-	19:COM7	19:COM7	19:COM7	14:COM2
			0.000	-2.440	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
298	209	+ve	9.461	0.581	0.306	1.071	0.000	0.109
			19:COM7	19:COM7	15:COM3	19:COM7	-	27:COM1'
			0.000	0.000	0.000	0.000	-0.283	-0.232
			-	-	-	-	17:COM5	21:COM9
	208	-ve	9.461	0.000	0.306	1.071	0.331	0.411
			19:COM7	-	15:COM3	19:COM7	15:COM3	19:COM7
			0.000	-0.840	0.000	0.000	0.000	-0.140
			-	21:COM9	-	-	-	29:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
299	186	+ve	0.000	1.571	0.016	0.000	0.000	1.282
			-	14:COM2	15:COM3	-	-	14:COM2
			-1.131	0.000	0.000	-0.177	-0.022	0.000
			21:COM9	-	-	14:COM2	17:COM5	-
	207	-ve	0.000	0.000	0.016	0.000	0.015	3.000
			-	-	15:COM3	-	15:COM3	13:COM1
			-1.621	-3.010	0.000	-0.177	0.000	0.000
			21:COM9	14:COM2	-	14:COM2	-	-
300	207	+ve	0.370	0.407	0.092	0.000	0.000	1.250
			27:COM1!	27:COM1!	15:COM3	-	-	13:COM1
			-0.971	-0.905	0.000	-0.245	-0.040	0.000
			21:COM9	21:COM9	-	21:COM9	17:COM5	-
	213	-ve	0.422	0.000	0.092	0.000	0.041	2.499
			27:COM1!	-	15:COM3	-	15:COM3	19:COM7
			-0.785	-2.468	0.000	-0.245	0.000	0.000
			21:COM9	21:COM9	-	21:COM9	-	-
301	187	+ve	0.000	1.858	0.009	0.000	0.000	1.800
			-	14:COM2	15:COM3	-	-	15:COM3
			-0.677	0.000	0.000	-0.204	-0.016	0.000
			21:COM9	-	-	21:COM9	17:COM5	-
	210	-ve	0.000	0.000	0.009	0.000	0.014	6.516
			-	-	15:COM3	-	15:COM3	14:COM2
			-1.511	-4.714	0.000	-0.204	0.000	0.000
			14:COM2	14:COM2	-	21:COM9	-	-
302	208	+ve	0.000	4.687	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-2.372	0.000	-0.000	0.000	0.000	0.000
			21:COM9	-	14:COM2	-	-	-
	190	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-1.366	-4.687	-0.000	0.000	0.000	0.000
			21:COM9	14:COM2	14:COM2	-	-	-
303	164	+ve	5.155	6.770	0.000	0.000	0.000	0.000
			14:COM2	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	204	-ve	3.643	0.000	0.000	0.000	0.000	0.000
			19:COM7	-	-	-	-	-
			0.000	-6.770	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
304	204	+ve	2.809	6.664	0.000	0.000	0.000	0.000
			13:COM1	14:COM2	-	-	-	-
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	183	-ve	4.591	0.000	0.000	0.000	0.000	0.000
			14:COM2	-	-	-	-	-
			0.000	-6.664	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
305	163	+ve	2.776	4.687	0.000	0.000	0.000	0.000
			14:COM2	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	205	-ve	1.695	0.000	0.000	0.000	0.000	0.000
			19:COM7	-	-	-	-	-
			0.000	-4.687	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
306	205	+ve	1.525	4.432	0.000	0.000	0.000	0.000
			13:COM1	14:COM2	-	-	-	-
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	77	-ve	2.551	0.000	0.000	0.000	0.000	0.000
			14:COM2	-	-	-	-	-
			0.000	-4.432	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
307	162	+ve	0.000	2.607	0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
			-0.839	0.000	0.000	0.000	0.000	0.000
			21:COM9	-	-	-	-	-
	206	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-1.397	-2.607	0.000	0.000	0.000	0.000
			21:COM9	14:COM2	-	-	-	-
308	206	+ve	0.000	2.290	0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-
			-1.077	0.000	0.000	0.000	0.000	0.000
			14:COM2	-	-	-	-	-
	185	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-0.464	-2.290	0.000	0.000	0.000	0.000
			21:COM9	14:COM2	-	-	-	-
309	188	+ve	0.917	1.888	0.011	0.000	0.005	0.536
			15:COM3	14:COM2	15:COM3	-	23:COM1'	15:COM3
			0.000	0.000	-0.002	-0.366	-0.017	-0.067
			-	-	25:COM1'	21:COM9	17:COM5	25:COM1'
	211	-ve	0.298	0.000	0.011	0.000	0.020	5.229
			23:COM1'	-	15:COM3	-	15:COM3	14:COM2
			-0.179	-4.783	-0.002	-0.366	-0.003	0.000
			17:COM5	14:COM2	25:COM1'	21:COM9	25:COM1'	-
310	209	+ve	1.320	6.770	0.000	0.000	0.000	0.000
			19:COM7	14:COM2	-	-	-	-
			0.000	0.000	-0.000	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
	189	-ve	2.774	0.000	0.000	0.000	0.000	0.000
			19:COM7	-	-	-	-	-
			0.000	-6.770	-0.000	0.000	0.000	0.000
			-	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
315	212	+ve	4.746	6.844	0.001	0.000	0.004	7.536
			14:COM2	14:COM2	23:COM1'	-	15:COM3	19:COM7
			0.000	0.000	-0.001	0.000	-0.003	0.000
			-	-	17:COM5	-	25:COM1'	-
	155	-ve	3.124	0.000	0.001	0.000	0.000	0.000
			14:COM2	-	23:COM1'	-	-	-
			0.000	-4.138	-0.001	0.000	0.000	0.000
			-	14:COM2	17:COM5	-	-	-
316	213	+ve	0.000	2.248	0.020	0.000	0.000	2.433
			-	14:COM2	14:COM2	-	-	19:COM7
			-2.219	0.000	0.000	-0.171	-0.014	0.000
			21:COM9	-	-	21:COM9	21:COM9	-
	191	-ve	0.000	0.000	0.020	0.000	0.023	1.355
			-	-	14:COM2	-	14:COM2	19:COM7
			-1.847	-1.227	0.000	-0.171	0.000	0.000
			21:COM9	14:COM2	-	21:COM9	-	-
317	210	+ve	0.038	4.678	0.014	0.000	0.000	4.328
			27:COM1'	19:COM7	15:COM3	-	-	19:COM7
			-0.710	0.000	0.000	0.000	-0.017	0.000
			21:COM9	-	-	-	17:COM5	-
	208	-ve	0.000	2.540	0.014	0.000	0.000	0.000
			-	19:COM7	15:COM3	-	-	-
			-0.965	0.000	0.000	0.000	0.000	0.000
			21:COM9	-	-	-	-	-
318	211	+ve	2.754	5.342	0.003	0.000	0.001	7.194
			14:COM2	14:COM2	15:COM3	-	23:COM1'	19:COM7
			0.000	0.000	-0.000	-0.000	-0.009	0.000
			-	-	25:COM1'	13:COM1	17:COM5	-
	209	-ve	1.848	0.000	0.003	0.000	0.000	0.000
			13:COM1	-	15:COM3	-	-	-
			0.000	-1.478	-0.000	0.000	0.000	0.000
			-	21:COM9	25:COM1'	-	-	-
325	215	+ve	0.058	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.058	0.000	0.000	0.000	0.000	0.000
			25:COM1'	-	-	-	-	-
	220	-ve	0.058	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.058	-6.740	0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	-	-	-	-
326	216	+ve	0.061	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.061	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	219	-ve	0.061	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.061	-6.740	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
327	214	+ve	0.058	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.058	0.000	0.000	0.000	0.000	0.000
			25:COM1;	-	-	-	-	-
	220	-ve	0.058	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.058	-6.740	0.000	0.000	0.000	0.000
			25:COM1;	14:COM2	-	-	-	-
329	219	+ve	0.061	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	-	-	-	-
			-0.062	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	217	-ve	0.061	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	-	-	-	-
			-0.062	-6.740	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
336	222	+ve	0.118	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.118	0.000	0.000	0.000	0.000	0.000
			25:COM1;	-	-	-	-	-
	227	-ve	0.118	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.118	-6.740	0.000	0.000	0.000	0.000
			25:COM1;	14:COM2	-	-	-	-
337	223	+ve	0.127	22.122	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.127	0.000	-0.000	0.000	0.000	0.000
			25:COM1;	-	14:COM2	-	-	-
	226	-ve	0.127	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.127	-22.122	-0.000	0.000	0.000	0.000
			25:COM1;	14:COM2	14:COM2	-	-	-
338	221	+ve	0.118	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.118	0.000	0.000	0.000	0.000	0.000
			25:COM1;	-	-	-	-	-
	227	-ve	0.118	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.118	-6.740	0.000	0.000	0.000	0.000
			25:COM1;	14:COM2	-	-	-	-
340	226	+ve	0.112	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.112	0.000	-0.000	0.000	0.000	0.000
			25:COM1;	-	14:COM2	-	-	-
	224	-ve	0.112	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.112	-6.740	-0.000	0.000	0.000	0.000
			25:COM1;	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
347	229	+ve	0.059	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.059	0.000	0.000	0.000	0.000	0.000
			25:COM1'	-	-	-	-	-
	234	-ve	0.059	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.059	-6.740	0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	-	-	-	-
348	230	+ve	0.063	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.063	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	233	-ve	0.063	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.063	-6.740	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-
349	228	+ve	0.058	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.059	0.000	0.000	0.000	0.000	0.000
			25:COM1'	-	-	-	-	-
	234	-ve	0.058	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.059	-6.740	0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	-	-	-	-
351	233	+ve	0.023	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.023	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	231	-ve	0.023	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.023	-6.740	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-
355	235	+ve	0.003	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	-	-	-	-
			-0.004	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	237	-ve	0.003	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	-	-	-	-
			-0.004	-6.740	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
356	237	+ve	0.004	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	-	-	-	-
			-0.005	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	236	-ve	0.004	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	-	-	-	-
			-0.005	-6.740	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
378	239	+ve	0.064	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	-	-	-	-
			-0.059	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	243	-ve	0.064	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	-	-	-	-
			-0.059	-6.740	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
379	240	+ve	0.060	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	-	-	-	-
			-0.072	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	242	-ve	0.060	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	-	-	-	-
			-0.072	-6.740	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
380	238	+ve	0.043	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	14:COM2	-	-	-
			-0.042	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	243	-ve	0.043	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	14:COM2	-	-	-
			-0.042	-6.740	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
381	242	+ve	0.059	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	14:COM2	-	-	-
			-0.069	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	241	-ve	0.059	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	14:COM2	-	-	-
			-0.069	-6.740	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
382	245	+ve	0.049	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.041	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	249	-ve	0.049	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.041	-6.740	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-
383	246	+ve	0.418	16.685	0.005	0.000	0.000	0.000
			15:COM3	14:COM2	27:COM1'	-	-	-
			-0.399	0.000	-0.005	0.000	0.000	0.000
			25:COM1'	-	21:COM9	-	-	-
	292	-ve	0.418	0.000	0.005	0.000	0.020	0.000
			15:COM3	-	27:COM1'	-	27:COM1'	-
			-0.399	-9.030	-0.005	0.000	-0.022	-16.456
			25:COM1'	14:COM2	21:COM9	-	21:COM9	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
384	244	+ve	0.043	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	14:COM2	-	-	-
			-0.033	0.000	0.000	0.000	0.000	0.000
			25:COM1'	-	-	-	-	-
	249	-ve	0.043	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			-0.033	-6.740	0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	-	-	-	-
385	248	+ve	0.052	6.740	0.000	0.000	0.000	0.000
			19:COM7	14:COM2	14:COM2	-	-	-
			-0.034	0.000	0.000	0.000	0.000	0.000
			29:COM1'	-	-	-	-	-
	247	-ve	0.052	0.000	0.000	0.000	0.000	0.000
			19:COM7	-	14:COM2	-	-	-
			-0.034	-6.740	0.000	0.000	0.000	0.000
			29:COM1'	14:COM2	-	-	-	-
386	251	+ve	0.027	6.740	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.031	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	255	-ve	0.027	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.031	-6.740	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-
388	250	+ve	0.034	6.740	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	14:COM2	-	-	-
			-0.038	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	255	-ve	0.034	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	14:COM2	-	-	-
			-0.038	-6.740	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-
389	254	+ve	0.181	6.740	0.000	0.000	0.000	0.000
			27:COM1'	14:COM2	14:COM2	-	-	-
			-0.176	0.000	0.000	0.000	0.000	0.000
			21:COM9	-	-	-	-	-
	253	-ve	0.181	0.000	0.000	0.000	0.000	0.000
			27:COM1'	-	14:COM2	-	-	-
			-0.176	-6.740	0.000	0.000	0.000	0.000
			21:COM9	14:COM2	-	-	-	-
391	258	+ve	0.362	6.043	0.000	0.000	0.000	0.000
			23:COM1'	14:COM2	14:COM2	-	-	-
			-0.497	0.000	0.000	0.000	0.000	0.000
			17:COM5	-	-	-	-	-
	257	-ve	0.362	0.000	0.000	0.000	0.000	0.000
			23:COM1'	-	14:COM2	-	-	-
			-0.497	-6.043	0.000	0.000	0.000	0.000
			17:COM5	14:COM2	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
395	62	+ve	50.586	1.156	1.465	0.953	0.000	3.157
			14:COM2	23:COM1'	19:COM7	15:COM3	-	23:COM1'
			0.000	-3.680	0.000	-0.617	-7.981	-10.100
			-	17:COM5	-	25:COM1'	21:COM9	17:COM5
	80	-ve	45.244	1.156	1.465	0.953	2.101	12.649
			14:COM2	23:COM1'	19:COM7	15:COM3	19:COM7	15:COM3
			0.000	-3.680	0.000	-0.617	-2.447	-4.004
			-	17:COM5	-	25:COM1'	29:COM1'	25:COM1'
396	60	+ve	56.270	6.258	2.425	0.559	15.429	10.916
			14:COM2	15:COM3	27:COM1'	23:COM1'	19:COM7	15:COM3
			0.000	-5.334	-6.493	-0.629	-2.238	-9.120
			-	25:COM1'	21:COM9	17:COM5	29:COM1'	25:COM1'
	72	-ve	54.232	6.258	2.425	0.559	6.583	10.082
			14:COM2	15:COM3	27:COM1'	23:COM1'	19:COM7	23:COM1'
			0.000	-5.334	-6.493	-0.629	-8.039	-11.611
			-	25:COM1'	21:COM9	17:COM5	29:COM1'	17:COM5
397	59	+ve	56.278	8.675	7.014	0.598	1.762	15.670
			14:COM2	15:COM3	19:COM7	23:COM1'	27:COM1'	15:COM3
			0.000	-6.905	-2.399	-0.599	-16.597	-11.942
			-	25:COM1'	29:COM1'	17:COM5	21:COM9	25:COM1'
	71	-ve	54.240	8.675	7.014	0.598	8.699	12.918
			14:COM2	15:COM3	19:COM7	23:COM1'	27:COM1'	23:COM1'
			0.000	-6.905	-2.399	-0.599	-6.920	-15.561
			-	25:COM1'	29:COM1'	17:COM5	21:COM9	17:COM5
398	53	+ve	50.024	4.245	0.000	0.684	8.838	11.811
			14:COM2	23:COM1'	-	23:COM1'	19:COM7	23:COM1'
			0.000	-6.350	-1.564	-1.084	0.000	-17.513
			-	17:COM5	21:COM9	17:COM5	-	17:COM5
	79	-ve	44.702	4.245	0.000	0.684	2.036	21.572
			14:COM2	23:COM1'	-	23:COM1'	27:COM1'	15:COM3
			0.000	-6.350	-1.564	-1.084	-2.252	-14.319
			-	17:COM5	21:COM9	17:COM5	21:COM9	25:COM1'
399	77	+ve	0.000	6.450	0.176	0.770	0.014	8.819
			-	15:COM3	15:COM3	15:COM3	23:COM1'	15:COM3
			-9.584	0.000	-0.017	0.000	-0.262	0.000
			17:COM5	-	25:COM1'	-	17:COM5	-
	183	-ve	0.120	4.676	0.176	0.770	0.281	0.000
			23:COM1'	15:COM3	15:COM3	15:COM3	15:COM3	-
			-9.079	0.000	-0.017	0.000	-0.043	-8.152
			17:COM5	-	25:COM1'	-	25:COM1'	17:COM5
400	80	+ve	2.799	19.162	0.360	1.463	1.052	25.515
			15:COM3	14:COM2	27:COM1'	19:COM7	19:COM7	15:COM3
			0.000	0.000	-0.695	-0.631	-0.409	0.000
			-	-	21:COM9	29:COM1'	29:COM1'	-
	210	-ve	2.447	17.927	0.360	1.463	0.363	0.000
			15:COM3	14:COM2	27:COM1'	19:COM7	23:COM1'	-
			0.000	0.000	-0.695	-0.631	-0.430	-14.036
			-	-	21:COM9	29:COM1'	17:COM5	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
401	78	+ve	3.247	6.953	0.025	0.099	0.421	10.150
			23:COM1'	15:COM3	23:COM1'	23:COM1'	15:COM3	15:COM3
			-12.401	0.000	-0.251	-0.859	-0.063	0.000
			17:COM5	-	17:COM5	17:COM5	25:COM1'	-
	138	-ve	3.634	5.142	0.025	0.099	0.016	0.000
			23:COM1'	15:COM3	23:COM1'	23:COM1'	23:COM1'	-
			-11.886	0.000	-0.251	-0.859	-0.360	-8.655
			17:COM5	-	17:COM5	17:COM5	17:COM5	17:COM5
403	71	+ve	5.100	16.855	1.232	0.110	1.333	23.087
			23:COM1'	15:COM3	19:COM7	23:COM1'	27:COM1'	15:COM3
			-11.661	0.000	-0.877	-0.817	-1.879	0.000
			17:COM5	-	29:COM1'	17:COM5	21:COM9	-
	282	-ve	5.100	13.535	1.232	0.110	0.346	0.000
			23:COM1'	15:COM3	19:COM7	23:COM1'	19:COM7	-
			-11.661	0.000	-0.877	-0.817	-0.252	-7.891
			17:COM5	-	29:COM1'	17:COM5	29:COM1'	17:COM5
404	71	+ve	18.865	0.000	1.581	0.684	3.254	0.000
			15:COM3	-	23:COM1'	15:COM3	15:COM3	-
			0.000	-4.904	-1.070	0.000	0.000	-3.933
			-	17:COM5	17:COM5	-	-	13:COM1
	78	-ve	17.761	0.000	1.581	0.684	4.429	5.797
			15:COM3	-	23:COM1'	15:COM3	15:COM3	15:COM3
			0.000	-4.904	-1.070	0.000	0.000	-0.780
			-	17:COM5	17:COM5	-	-	25:COM1'
405	72	+ve	0.401	15.940	0.869	0.792	1.716	21.060
			23:COM1'	15:COM3	27:COM1'	19:COM7	19:COM7	15:COM3
			-7.025	0.000	-1.150	-0.076	-1.350	0.000
			17:COM5	-	21:COM9	29:COM1'	29:COM1'	-
	281	-ve	0.401	12.621	0.869	0.792	0.229	0.000
			23:COM1'	15:COM3	27:COM1'	19:COM7	27:COM1'	-
			-7.025	0.000	-1.150	-0.076	-0.370	-7.348
			17:COM5	-	21:COM9	29:COM1'	21:COM9	17:COM5
406	72	+ve	17.433	0.000	1.650	0.000	0.382	0.000
			15:COM3	-	19:COM7	-	27:COM1'	-
			0.000	-3.582	-1.746	-0.727	-4.438	-3.754
			-	13:COM1	29:COM1'	21:COM9	21:COM9	13:COM1
	77	-ve	16.329	0.000	1.650	0.000	0.000	4.220
			15:COM3	-	19:COM7	-	-	15:COM3
			0.000	-3.582	-1.746	-0.727	-4.064	0.000
			-	13:COM1	29:COM1'	21:COM9	21:COM9	-
407	217	+ve	0.000	0.000	0.673	0.416	0.272	3.336
			-	-	23:COM1'	23:COM1'	23:COM1'	27:COM1'
			-0.000	-15.916	-0.675	-1.076	-0.277	-12.554
			14:COM2	21:COM9	17:COM5	17:COM5	17:COM5	21:COM9
	34	-ve	0.000	0.000	0.673	0.416	1.389	43.985
			-	-	23:COM1'	23:COM1'	23:COM1'	19:COM7
			-0.000	-20.055	-0.675	-1.076	-1.399	0.000
			14:COM2	21:COM9	17:COM5	17:COM5	17:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
408	224	+ve	0.000	0.028	0.313	0.416	0.984	0.000
			-	27:COM1!	23:COM1'	23:COM1'	15:COM3	-
			-0.000	-5.803	-0.315	-1.076	-0.984	-21.045
			14:COM2	21:COM9	17:COM5	17:COM5	25:COM1'	14:COM2
	217	-ve	0.000	0.000	0.313	0.416	0.272	3.336
			-	-	23:COM1'	23:COM1'	23:COM1'	27:COM1!
			-0.000	-9.942	-0.315	-1.076	-0.277	-12.554
			14:COM2	21:COM9	17:COM5	17:COM5	17:COM5	21:COM9
409	231	+ve	0.000	8.813	0.338	0.416	0.224	0.000
			14:COM2	19:COM7	23:COM1'	23:COM1'	15:COM3	-
			0.000	0.000	-0.340	-1.076	-0.218	-12.697
			-	-	17:COM5	17:COM5	25:COM1'	21:COM9
	224	-ve	0.000	4.674	0.338	0.416	0.984	0.000
			14:COM2	19:COM7	23:COM1'	23:COM1'	15:COM3	-
			0.000	-0.950	-0.340	-1.076	-0.984	-21.045
			-	29:COM1!	17:COM5	17:COM5	25:COM1'	14:COM2
410	236	+ve	0.000	3.267	0.165	0.923	0.013	0.000
			-	27:COM1!	23:COM1'	15:COM3	23:COM1'	-
			0.000	-8.039	-0.176	-0.809	-0.014	-0.262
			-	21:COM9	17:COM5	25:COM1'	17:COM5	13:COM1
	19	-ve	0.000	0.000	0.165	0.923	0.422	25.907
			-	-	23:COM1'	15:COM3	23:COM1'	19:COM7
			0.000	-12.437	-0.176	-0.809	-0.451	-4.307
			-	21:COM9	17:COM5	25:COM1'	17:COM5	29:COM1!
411	241	+ve	1.710	0.000	1.450	0.420	0.636	3.765
			15:COM3	-	15:COM3	23:COM1'	23:COM1'	27:COM1!
			-1.941	-15.687	-1.452	-0.508	-0.652	-13.856
			25:COM1'	21:COM9	25:COM1'	17:COM5	17:COM5	21:COM9
	52	-ve	1.710	0.000	1.450	0.420	2.838	43.395
			15:COM3	-	15:COM3	23:COM1'	23:COM1'	19:COM7
			-1.941	-19.203	-1.452	-0.508	-2.857	0.000
			25:COM1'	21:COM9	25:COM1'	17:COM5	17:COM5	-
412	247	+ve	1.740	1.354	0.453	0.420	1.735	0.000
			15:COM3	27:COM1!	23:COM1'	23:COM1'	15:COM3	-
			-1.970	-6.197	-0.465	-0.508	-1.723	-19.171
			25:COM1'	21:COM9	17:COM5	17:COM5	25:COM1'	14:COM2
	241	-ve	1.740	0.000	0.453	0.420	0.636	3.765
			15:COM3	-	23:COM1'	23:COM1'	23:COM1'	27:COM1!
			-1.970	-9.712	-0.465	-0.508	-0.652	-13.856
			25:COM1'	21:COM9	17:COM5	17:COM5	17:COM5	21:COM9
413	253	+ve	1.896	9.601	0.565	0.420	0.453	3.341
			15:COM3	19:COM7	15:COM3	23:COM1'	23:COM1'	27:COM1!
			-2.127	0.000	-0.559	-0.508	-0.456	-13.877
			25:COM1'	-	25:COM1'	17:COM5	17:COM5	21:COM9
	247	-ve	1.896	6.085	0.565	0.420	1.735	0.000
			15:COM3	19:COM7	15:COM3	23:COM1'	15:COM3	-
			-2.127	-1.429	-0.559	-0.508	-1.723	-19.171
			25:COM1'	29:COM1!	25:COM1'	17:COM5	25:COM1'	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
414	257	+ve	2.948	1.804	0.495	0.648	0.766	0.000
			23:COM1'	27:COM1'	23:COM1'	15:COM3	15:COM3	-
			-5.632	-6.047	-0.559	-0.553	-0.743	-5.901
			17:COM5	21:COM9	17:COM5	25:COM1'	25:COM1'	14:COM2
	37	-ve	2.948	0.000	0.495	0.648	0.538	14.712
			23:COM1'	-	23:COM1'	15:COM3	23:COM1'	19:COM7
			-5.632	-9.783	-0.559	-0.553	-0.678	-4.598
			17:COM5	21:COM9	17:COM5	25:COM1'	17:COM5	29:COM1'
415	215	+ve	0.000	0.000	0.669	0.495	0.243	0.000
			-	-	23:COM1'	23:COM1'	23:COM1'	-
			0.000	-14.962	-0.672	-1.284	-0.251	-12.037
			-	21:COM9	17:COM5	17:COM5	17:COM5	21:COM9
	31	-ve	0.000	0.000	0.669	0.495	1.411	37.277
			-	-	23:COM1'	23:COM1'	23:COM1'	19:COM7
			0.000	-19.101	-0.672	-1.284	-1.427	0.000
			-	21:COM9	17:COM5	17:COM5	17:COM5	-
416	222	+ve	0.000	1.041	0.327	0.495	0.984	0.000
			-	27:COM1'	23:COM1'	23:COM1'	15:COM3	-
			0.000	-4.849	-0.330	-1.284	-0.984	-20.296
			-	21:COM9	17:COM5	17:COM5	25:COM1'	14:COM2
	215	-ve	0.000	0.000	0.327	0.495	0.243	0.000
			-	-	23:COM1'	23:COM1'	23:COM1'	-
			0.000	-8.988	-0.330	-1.284	-0.251	-12.037
			-	21:COM9	17:COM5	17:COM5	17:COM5	21:COM9
417	229	+ve	0.000	10.032	0.319	0.495	0.268	4.151
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	27:COM1'
			0.000	0.000	-0.322	-1.284	-0.259	-12.537
			-	-	17:COM5	17:COM5	25:COM1'	21:COM9
	222	-ve	0.000	5.893	0.319	0.495	0.984	0.000
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	-
			0.000	-0.203	-0.322	-1.284	-0.984	-20.296
			-	29:COM1'	17:COM5	17:COM5	25:COM1'	14:COM2
418	214	+ve	0.000	0.000	0.669	1.335	0.243	0.000
			-	-	23:COM1'	15:COM3	23:COM1'	-
			0.000	-14.599	-0.673	-0.524	-0.251	-12.924
			-	21:COM9	17:COM5	25:COM1'	17:COM5	21:COM9
	19	-ve	0.000	0.000	0.669	1.335	1.410	35.401
			-	-	23:COM1'	15:COM3	23:COM1'	19:COM7
			0.000	-18.738	-0.673	-0.524	-1.428	0.000
			-	21:COM9	17:COM5	25:COM1'	17:COM5	-
419	221	+ve	0.000	1.101	0.327	1.335	0.984	0.000
			-	27:COM1'	23:COM1'	15:COM3	15:COM3	-
			0.000	-4.486	-0.330	-0.524	-0.984	-20.649
			-	21:COM9	17:COM5	25:COM1'	25:COM1'	14:COM2
	214	-ve	0.000	0.000	0.327	1.335	0.243	0.000
			-	-	23:COM1'	15:COM3	23:COM1'	-
			0.000	-8.625	-0.330	-0.524	-0.251	-12.924
			-	21:COM9	17:COM5	25:COM1'	17:COM5	21:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (Mton·m)	My (Mton·m)	Mz (Mton·m)
420	228	+ve	0.000	10.194	0.319	1.335	0.268	3.921
			-	19:COM7	23:COM1'	15:COM3	15:COM3	27:COM1'
			0.000	0.000	-0.322	-0.524	-0.259	-11.798
			-	-	17:COM5	25:COM1'	25:COM1'	21:COM9
	221	-ve	0.000	6.055	0.319	1.335	0.984	0.000
			-	19:COM7	23:COM1'	15:COM3	15:COM3	-
			0.000	0.000	-0.322	-0.524	-0.984	-20.649
			-	-	17:COM5	25:COM1'	25:COM1'	14:COM2
421	235	+ve	0.000	1.366	0.165	0.982	0.015	0.000
			-	27:COM1'	23:COM1'	15:COM3	15:COM3	-
			0.000	-12.045	-0.176	-0.503	-0.013	-2.193
			-	21:COM9	17:COM5	25:COM1'	25:COM1'	14:COM2
	32	-ve	0.000	0.000	0.165	0.982	0.420	34.275
			-	-	23:COM1'	15:COM3	23:COM1'	19:COM7
			0.000	-16.442	-0.176	-0.503	-0.446	-0.632
			-	21:COM9	17:COM5	25:COM1'	17:COM5	29:COM1'
422	216	+ve	0.003	0.000	0.674	1.108	0.274	3.818
			15:COM3	-	23:COM1'	23:COM1'	23:COM1'	27:COM1'
			-0.003	-22.699	-0.677	-1.024	-0.280	-13.845
			25:COM1'	14:COM2	17:COM5	17:COM5	17:COM5	21:COM9
	33	-ve	0.003	0.000	0.674	1.108	1.388	58.976
			15:COM3	-	23:COM1'	23:COM1'	23:COM1'	19:COM7
			-0.003	-26.838	-0.677	-1.024	-1.400	0.000
			25:COM1'	14:COM2	17:COM5	17:COM5	17:COM5	-
423	223	+ve	0.003	0.000	0.315	1.108	0.991	0.000
			15:COM3	-	23:COM1'	23:COM1'	15:COM3	-
			-0.003	-12.161	-0.317	-1.024	-0.991	-41.266
			25:COM1'	21:COM9	17:COM5	17:COM5	25:COM1'	14:COM2
	216	-ve	0.003	0.000	0.315	1.108	0.274	3.818
			15:COM3	-	23:COM1'	23:COM1'	23:COM1'	27:COM1'
			-0.003	-16.300	-0.317	-1.024	-0.280	-13.845
			25:COM1'	21:COM9	17:COM5	17:COM5	17:COM5	21:COM9
424	230	+ve	0.003	14.737	0.349	1.108	0.206	0.000
			15:COM3	19:COM7	23:COM1'	23:COM1'	15:COM3	-
			-0.003	0.000	-0.351	-1.024	-0.201	-14.586
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	21:COM9
	223	-ve	0.003	10.598	0.349	1.108	0.991	0.000
			15:COM3	19:COM7	23:COM1'	23:COM1'	15:COM3	-
			-0.003	0.000	-0.351	-1.024	-0.991	-41.266
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	14:COM2
425	239	+ve	3.801	0.000	1.259	1.105	0.511	3.951
			15:COM3	-	23:COM1'	15:COM3	15:COM3	27:COM1'
			-2.458	-15.628	-1.240	-0.641	-0.475	-16.332
			25:COM1'	21:COM9	17:COM5	25:COM1'	25:COM1'	21:COM9
	49	-ve	3.801	0.000	1.259	1.105	2.557	42.927
			15:COM3	-	23:COM1'	15:COM3	15:COM3	19:COM7
			-2.458	-19.144	-1.240	-0.641	-2.476	-0.361
			25:COM1'	21:COM9	17:COM5	25:COM1'	25:COM1'	29:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
426	245	+ve	3.542	1.971	0.483	1.105	1.603	0.000
			15:COM3	27:COM1	15:COM3	15:COM3	15:COM3	-
			-2.198	-6.138	-0.468	-0.641	-1.602	-19.629
			25:COM1	21:COM9	25:COM1	25:COM1	25:COM1	14:COM2
	239	-ve	3.542	0.000	0.483	1.105	0.511	3.951
			15:COM3	-	15:COM3	15:COM3	15:COM3	27:COM1
			-2.198	-9.654	-0.468	-0.641	-0.475	-16.332
			25:COM1	21:COM9	25:COM1	25:COM1	25:COM1	21:COM9
427	251	+ve	3.427	10.365	0.470	1.105	0.494	4.338
			15:COM3	19:COM7	15:COM3	15:COM3	15:COM3	27:COM1
			-2.083	0.000	-0.464	-0.641	-0.507	-13.922
			25:COM1	-	25:COM1	25:COM1	25:COM1	21:COM9
	245	-ve	3.427	6.850	0.470	1.105	1.603	0.000
			15:COM3	19:COM7	15:COM3	15:COM3	15:COM3	-
			-2.083	-1.518	-0.464	-0.641	-1.602	-19.629
			25:COM1	29:COM1	25:COM1	25:COM1	25:COM1	14:COM2
428	238	+ve	2.579	0.000	1.233	0.865	0.486	3.270
			19:COM7	-	15:COM3	15:COM3	23:COM1	27:COM1
			-3.077	-15.530	-1.236	-0.742	-0.488	-14.084
			29:COM1	21:COM9	25:COM1	25:COM1	17:COM5	21:COM9
	43	-ve	2.579	0.000	1.233	0.865	2.478	42.355
			19:COM7	-	15:COM3	15:COM3	23:COM1	19:COM7
			-3.077	-19.046	-1.236	-0.742	-2.489	0.000
			29:COM1	21:COM9	25:COM1	25:COM1	17:COM5	-
429	244	+ve	2.095	1.504	0.473	0.865	1.606	0.000
			15:COM3	27:COM1	23:COM1	15:COM3	15:COM3	-
			-2.593	-6.040	-0.476	-0.742	-1.601	-19.176
			25:COM1	21:COM9	17:COM5	25:COM1	25:COM1	14:COM2
	238	-ve	2.095	0.000	0.473	0.865	0.486	3.270
			15:COM3	-	23:COM1	15:COM3	23:COM1	27:COM1
			-2.593	-9.556	-0.476	-0.742	-0.488	-14.084
			25:COM1	21:COM9	17:COM5	25:COM1	17:COM5	21:COM9
430	250	+ve	1.849	9.818	0.465	0.865	0.515	4.000
			15:COM3	19:COM7	15:COM3	15:COM3	23:COM1	27:COM1
			-2.347	0.000	-0.457	-0.742	-0.529	-13.790
			25:COM1	-	25:COM1	25:COM1	17:COM5	21:COM9
	244	-ve	1.849	6.302	0.465	0.865	1.606	0.000
			15:COM3	19:COM7	15:COM3	15:COM3	15:COM3	-
			-2.347	-1.339	-0.457	-0.742	-1.601	-19.176
			25:COM1	29:COM1	25:COM1	25:COM1	25:COM1	14:COM2
431	289	+ve	3.911	2.179	0.000	0.000	0.000	0.000
			15:COM3	13:COM1	14:COM2	-	-	-
			-4.121	0.000	0.000	0.000	0.000	0.000
			25:COM1	-	-	-	-	-
	285	-ve	3.911	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	14:COM2	-	-	-
			-4.121	-2.179	0.000	0.000	0.000	0.000
			25:COM1	13:COM1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
432	240	+ve	4.624	0.000	1.412	0.690	0.605	4.524
			15:COM3	-	23:COM1'	23:COM1'	15:COM3	27:COM1'
			-1.504	-20.443	-1.427	-2.501	-0.613	-13.293
			25:COM1'	21:COM9	17:COM5	17:COM5	25:COM1'	21:COM9
	51	-ve	4.624	0.000	1.412	0.690	2.784	56.019
			15:COM3	-	23:COM1'	23:COM1'	15:COM3	19:COM7
			-1.504	-23.959	-1.427	-2.501	-2.829	0.000
			25:COM1'	21:COM9	17:COM5	17:COM5	25:COM1'	-
433	246	+ve	4.634	0.000	0.517	0.690	1.837	0.000
			15:COM3	-	15:COM3	23:COM1'	15:COM3	-
			-1.514	-10.952	-0.521	-2.501	-1.836	-30.538
			25:COM1'	21:COM9	25:COM1'	17:COM5	25:COM1'	14:COM2
	240	-ve	4.634	0.000	0.517	0.690	0.605	4.524
			15:COM3	-	15:COM3	23:COM1'	15:COM3	27:COM1'
			-1.514	-14.468	-0.521	-2.501	-0.613	-13.293
			25:COM1'	21:COM9	25:COM1'	17:COM5	25:COM1'	21:COM9
434	252	+ve	4.707	13.940	0.719	0.690	0.183	4.384
			15:COM3	19:COM7	23:COM1'	23:COM1'	15:COM3	27:COM1'
			-1.588	0.000	-0.742	-2.501	-0.128	-14.835
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	21:COM9
	246	-ve	4.707	10.424	0.719	0.690	1.837	0.000
			15:COM3	19:COM7	23:COM1'	23:COM1'	15:COM3	-
			-1.588	0.000	-0.742	-2.501	-1.836	-30.538
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	14:COM2
435	219	+ve	0.003	0.000	0.332	1.132	0.134	1.357
			23:COM1'	-	23:COM1'	15:COM3	23:COM1'	27:COM1'
			-0.003	-33.490	-0.333	-0.596	-0.137	-14.483
			17:COM5	14:COM2	17:COM5	25:COM1'	17:COM5	21:COM9
	35	-ve	0.003	0.000	0.332	1.132	0.681	75.696
			23:COM1'	-	23:COM1'	15:COM3	23:COM1'	19:COM7
			-0.003	-37.006	-0.333	-0.596	-0.686	0.000
			17:COM5	14:COM2	17:COM5	25:COM1'	17:COM5	-
436	226	+ve	0.003	0.000	0.147	1.132	0.470	0.000
			23:COM1'	-	23:COM1'	15:COM3	15:COM3	-
			-0.003	-16.494	-0.148	-0.596	-0.470	-54.477
			17:COM5	14:COM2	17:COM5	25:COM1'	25:COM1'	14:COM2
	219	-ve	0.003	0.000	0.147	1.132	0.134	1.357
			23:COM1'	-	23:COM1'	15:COM3	23:COM1'	27:COM1'
			-0.003	-20.010	-0.148	-0.596	-0.137	-14.483
			17:COM5	14:COM2	17:COM5	25:COM1'	17:COM5	21:COM9
437	233	+ve	0.003	15.884	0.161	1.132	0.105	0.000
			23:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	-
			-0.003	0.000	-0.162	-0.596	-0.102	-20.641
			17:COM5	-	17:COM5	25:COM1'	25:COM1'	21:COM9
	226	-ve	0.003	12.368	0.161	1.132	0.470	0.000
			23:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	-
			-0.003	0.000	-0.162	-0.596	-0.470	-54.477
			17:COM5	-	17:COM5	25:COM1'	25:COM1'	14:COM2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
438	237	+ve	0.000	0.000	0.076	0.032	0.011	5.508
			-	-	23:COM1'	23:COM1'	15:COM3	14:COM2
			0.000	-10.241	-0.081	-0.259	-0.010	0.000
			-	21:COM9	17:COM5	17:COM5	25:COM1'	-
	38	-ve	0.000	0.000	0.076	0.032	0.194	33.518
			-	-	23:COM1'	23:COM1'	23:COM1'	19:COM7
			0.000	-12.447	-0.081	-0.259	-0.206	0.000
			-	21:COM9	17:COM5	17:COM5	17:COM5	-
439	220	+ve	0.000	0.000	0.328	0.305	0.120	0.000
			-	-	23:COM1'	23:COM1'	23:COM1'	-
			0.000	-21.582	-0.329	-0.300	-0.124	-18.482
			-	14:COM2	17:COM5	17:COM5	17:COM5	21:COM9
	39	-ve	0.000	0.000	0.328	0.305	0.687	40.906
			-	-	23:COM1'	23:COM1'	23:COM1'	19:COM7
			0.000	-25.098	-0.329	-0.300	-0.694	0.000
			-	14:COM2	17:COM5	17:COM5	17:COM5	-
440	227	+ve	0.000	0.000	0.152	0.305	0.466	0.000
			-	-	23:COM1'	23:COM1'	15:COM3	-
			0.000	-5.591	-0.153	-0.300	-0.466	-33.150
			-	21:COM9	17:COM5	17:COM5	25:COM1'	14:COM2
	220	-ve	0.000	0.000	0.152	0.305	0.120	0.000
			-	-	23:COM1'	23:COM1'	23:COM1'	-
			0.000	-9.107	-0.153	-0.300	-0.124	-18.482
			-	21:COM9	17:COM5	17:COM5	17:COM5	21:COM9
441	234	+ve	0.000	13.180	0.148	0.305	0.132	2.318
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	27:COM1'
			0.000	0.000	-0.149	-0.300	-0.128	-12.005
			-	-	17:COM5	17:COM5	25:COM1'	21:COM9
	227	-ve	0.000	9.664	0.148	0.305	0.466	0.000
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	-
			0.000	0.000	-0.149	-0.300	-0.466	-33.150
			-	-	17:COM5	17:COM5	25:COM1'	14:COM2
442	242	+ve	3.885	0.000	1.486	1.675	0.645	0.000
			19:COM7	-	23:COM1'	15:COM3	23:COM1'	-
			-1.723	-29.328	-1.496	-0.562	-0.665	-16.644
			29:COM1'	14:COM2	17:COM5	25:COM1'	17:COM5	21:COM9
	53	-ve	3.885	0.000	1.486	1.675	2.906	69.645
			19:COM7	-	23:COM1'	15:COM3	23:COM1'	19:COM7
			-1.723	-34.399	-1.496	-0.562	-2.951	0.000
			29:COM1'	14:COM2	17:COM5	25:COM1'	17:COM5	-
443	248	+ve	2.823	0.000	0.451	1.675	1.745	0.000
			19:COM7	-	23:COM1'	15:COM3	15:COM3	-
			-0.661	-11.590	-0.463	-0.562	-1.735	-43.781
			29:COM1'	21:COM9	17:COM5	25:COM1'	25:COM1'	14:COM2
	242	-ve	2.823	0.000	0.451	1.675	0.645	0.000
			19:COM7	-	23:COM1'	15:COM3	23:COM1'	-
			-0.661	-16.661	-0.463	-0.562	-0.665	-16.644
			29:COM1'	21:COM9	17:COM5	25:COM1'	17:COM5	21:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
444	254	+ve	2.216	14.570	0.568	1.675	0.446	0.000
			14:COM2	19:COM7	23:COM1'	15:COM3	15:COM3	-
			0.000	0.000	-0.579	-0.562	-0.410	-19.034
			-	-	17:COM5	25:COM1'	25:COM1'	21:COM9
	248	-ve	2.216	9.499	0.568	1.675	1.745	0.000
			14:COM2	19:COM7	23:COM1'	15:COM3	15:COM3	-
			0.000	0.000	-0.579	-0.562	-1.735	-43.781
			-	-	17:COM5	25:COM1'	25:COM1'	14:COM2
445	258	+ve	0.000	0.385	0.736	0.077	1.044	3.671
			-	27:COM1'	23:COM1'	23:COM1'	15:COM3	13:COM1
			-2.917	-10.518	-0.802	-0.526	-0.933	0.000
			17:COM5	21:COM9	17:COM5	17:COM5	25:COM1'	-
	59	-ve	0.000	0.000	0.736	0.077	0.953	32.933
			-	-	23:COM1'	23:COM1'	23:COM1'	19:COM7
			-2.917	-12.723	-0.802	-0.526	-1.009	0.000
			17:COM5	21:COM9	17:COM5	17:COM5	17:COM5	-
446	243	+ve	1.878	0.000	1.225	0.480	0.486	0.000
			19:COM7	-	15:COM3	15:COM3	15:COM3	-
			-1.249	-24.215	-1.217	-0.284	-0.457	-19.141
			29:COM1'	14:COM2	25:COM1'	25:COM1'	25:COM1'	21:COM9
	60	-ve	1.878	0.000	1.225	0.480	2.493	51.576
			19:COM7	-	15:COM3	15:COM3	15:COM3	19:COM7
			-1.249	-29.287	-1.217	-0.284	-2.445	0.000
			29:COM1'	14:COM2	25:COM1'	25:COM1'	25:COM1'	-
447	249	+ve	1.061	0.000	0.485	0.480	1.605	0.000
			15:COM3	-	15:COM3	15:COM3	15:COM3	-
			-0.432	-6.952	-0.474	-0.284	-1.603	-36.736
			25:COM1'	21:COM9	25:COM1'	25:COM1'	25:COM1'	14:COM2
	243	-ve	1.061	0.000	0.485	0.480	0.486	0.000
			15:COM3	-	15:COM3	15:COM3	15:COM3	-
			-0.432	-12.023	-0.474	-0.284	-0.457	-19.141
			25:COM1'	21:COM9	25:COM1'	25:COM1'	25:COM1'	21:COM9
448	255	+ve	1.745	14.001	0.462	0.480	0.521	0.000
			19:COM7	19:COM7	15:COM3	15:COM3	23:COM1'	-
			-1.117	0.000	-0.453	-0.284	-0.541	-16.737
			29:COM1'	-	25:COM1'	25:COM1'	17:COM5	21:COM9
	249	-ve	1.745	8.930	0.462	0.480	1.605	0.000
			19:COM7	19:COM7	15:COM3	15:COM3	15:COM3	-
			-1.117	0.000	-0.453	-0.284	-1.603	-36.736
			29:COM1'	-	25:COM1'	25:COM1'	25:COM1'	14:COM2
451	162	+ve	0.000	0.000	0.095	0.504	0.000	0.000
			-	-	19:COM7	15:COM3	-	-
			-18.545	-4.111	-0.017	0.000	-0.308	-8.018
			21:COM9	21:COM9	29:COM1'	-	14:COM2	21:COM9
	83	-ve	0.000	0.000	0.095	0.504	0.107	10.644
			-	-	19:COM7	15:COM3	19:COM7	19:COM7
			-19.132	-6.218	-0.017	0.000	-0.211	0.000
			21:COM9	21:COM9	29:COM1'	-	29:COM1'	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
452	163	+ve	0.000	1.885	0.235	0.283	0.186	0.000
			-	19:COM7	19:COM7	15:COM3	27:COM1	-
			-17.812	-0.399	0.000	-0.093	-0.112	-10.606
			21:COM9	29:COM1	-	25:COM1	21:COM9	21:COM9
	162	-ve	0.000	0.390	0.235	0.283	0.696	0.000
			-	27:COM1	19:COM7	15:COM3	15:COM3	-
			-18.282	-1.861	0.000	-0.093	0.000	-7.667
			21:COM9	21:COM9	-	25:COM1	-	21:COM9
453	164	+ve	3.028	6.831	0.358	0.000	0.000	14.383
			27:COM1	19:COM7	15:COM3	-	-	19:COM7
			-7.070	0.000	0.000	-0.756	-0.618	-0.441
			21:COM9	-	-	17:COM5	21:COM9	29:COM1
	163	-ve	2.675	5.142	0.358	0.000	0.689	0.000
			27:COM1	19:COM7	15:COM3	-	19:COM7	-
			-7.541	0.000	0.000	-0.756	0.000	-10.607
			21:COM9	-	-	17:COM5	-	21:COM9
454	76	+ve	6.341	14.432	0.936	0.149	0.000	22.124
			27:COM1	14:COM2	23:COM1	23:COM1	-	19:COM7
			-5.291	0.000	-1.435	-0.589	-0.805	0.000
			21:COM9	-	17:COM5	17:COM5	17:COM5	-
	164	-ve	6.273	14.105	0.936	0.149	0.012	14.393
			27:COM1	14:COM2	23:COM1	23:COM1	23:COM1	19:COM7
			-5.382	0.000	-1.435	-0.589	-1.227	-0.672
			21:COM9	-	17:COM5	17:COM5	17:COM5	29:COM1
455	189	+ve	8.532	0.000	0.510	0.000	0.044	0.000
			19:COM7	-	15:COM3	-	23:COM1	-
			-6.988	-6.589	0.000	-0.699	-0.768	-11.963
			29:COM1	14:COM2	-	17:COM5	17:COM5	21:COM9
	73	-ve	9.002	0.000	0.510	0.000	0.760	15.875
			19:COM7	-	15:COM3	-	15:COM3	19:COM7
			-6.635	-8.278	0.000	-0.699	0.000	0.000
			29:COM1	14:COM2	-	17:COM5	-	-
456	190	+ve	0.663	1.229	0.135	0.800	0.000	0.000
			27:COM1	19:COM7	15:COM3	15:COM3	-	-
			-14.139	-0.220	-0.001	0.000	-0.665	-9.978
			21:COM9	29:COM1	25:COM1	-	21:COM9	21:COM9
	189	-ve	1.016	0.000	0.135	0.800	0.000	0.000
			27:COM1	-	15:COM3	15:COM3	-	-
			-13.668	-1.795	-0.001	0.000	-0.408	-11.085
			21:COM9	21:COM9	25:COM1	-	21:COM9	21:COM9
457	191	+ve	0.000	6.341	0.000	0.854	0.198	8.120
			-	19:COM7	-	15:COM3	19:COM7	19:COM7
			-14.102	0.000	-0.099	0.000	0.000	0.000
			21:COM9	-	21:COM9	-	-	-
	190	-ve	0.000	4.652	0.000	0.854	0.000	0.000
			-	19:COM7	-	15:COM3	-	-
			-13.632	0.000	-0.099	0.000	-0.098	-7.805
			21:COM9	-	21:COM9	-	13:COM1	21:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
458	81	+ve	0.087	9.944	0.103	0.000	0.704	19.777
			27:COM1!	19:COM7	15:COM3	-	19:COM7	19:COM7
			-10.668	0.000	-0.087	-0.559	0.000	0.000
			21:COM9	-	25:COM1!	17:COM5	-	-
	191	-ve	0.242	9.199	0.103	0.000	0.724	7.562
			27:COM1!	19:COM7	15:COM3	-	19:COM7	19:COM7
			-10.461	0.000	-0.087	-0.559	0.000	0.000
			21:COM9	-	25:COM1!	17:COM5	-	-
459	185	+ve	0.000	0.000	0.000	0.292	0.539	0.000
			-	-	-	27:COM1!	15:COM3	-
			-19.311	-2.030	-0.451	-0.898	0.000	-3.275
			17:COM5	17:COM5	17:COM5	21:COM9	-	17:COM5
	77	-ve	0.000	0.000	0.000	0.292	0.000	5.208
			-	-	-	27:COM1!	-	15:COM3
			-18.827	-3.731	-0.451	-0.898	-0.783	0.000
			17:COM5	17:COM5	17:COM5	21:COM9	17:COM5	-
460	140	+ve	0.000	0.000	0.407	0.770	0.000	0.000
			-	-	15:COM3	19:COM7	-	-
			-22.371	-2.358	0.000	-0.175	-0.458	-3.586
			17:COM5	17:COM5	-	29:COM1!	14:COM2	17:COM5
	78	-ve	0.000	0.000	0.407	0.770	0.668	5.093
			-	-	15:COM3	19:COM7	15:COM3	15:COM3
			-21.918	-3.951	0.000	-0.175	0.000	0.000
			17:COM5	17:COM5	-	29:COM1!	-	-
461	186	+ve	0.000	0.000	0.045	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-5.423	-0.915	0.000	0.000	-0.141	-4.453
			21:COM9	14:COM2	-	-	14:COM2	14:COM2
	58	-ve	0.000	0.000	0.045	0.000	0.000	0.000
			-	-	14:COM2	-	-	-
			-5.717	-1.950	0.000	0.000	0.000	0.000
			21:COM9	14:COM2	-	-	-	-
462	187	+ve	0.000	0.685	0.026	0.000	0.000	0.000
			-	13:COM1	15:COM3	-	-	-
			-7.174	0.000	-0.001	-0.533	-0.119	-2.830
			21:COM9	-	25:COM1!	14:COM2	17:COM5	21:COM9
	186	-ve	0.000	0.000	0.026	0.000	0.000	0.000
			-	-	15:COM3	-	-	-
			-7.457	-0.474	-0.001	-0.533	-0.070	-3.272
			21:COM9	13:COM1	25:COM1!	14:COM2	21:COM9	14:COM2
463	188	+ve	0.000	0.151	0.054	0.161	0.000	0.000
			-	13:COM1	15:COM3	19:COM7	-	-
			-6.644	0.000	0.000	-0.008	-0.139	-2.751
			21:COM9	-	-	29:COM1!	17:COM5	21:COM9
	187	-ve	0.000	0.000	0.054	0.161	0.027	0.000
			-	-	15:COM3	19:COM7	15:COM3	-
			-6.926	-1.008	0.000	-0.008	-0.027	-1.576
			21:COM9	13:COM1	-	29:COM1!	25:COM1!	21:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
464	211	+ve	0.000	0.000	0.000	1.407	1.445	3.297
			-	-	-	19:COM7	19:COM7	15:COM3
			-11.923	-23.963	-1.750	-1.000	0.000	-2.380
			14:COM2	17:COM5	17:COM5	29:COM1	-	25:COM1
	80	-ve	0.000	0.000	0.000	1.407	0.690	22.467
			-	-	-	19:COM7	19:COM7	15:COM3
			-12.055	-24.425	-1.750	-1.000	-0.275	0.000
			14:COM2	17:COM5	17:COM5	29:COM1	29:COM1	-
465	212	+ve	0.000	0.000	0.439	1.118	0.000	0.000
			-	-	15:COM3	19:COM7	-	-
			-3.001	-4.878	0.000	0.000	-0.766	-11.269
			21:COM9	17:COM5	-	-	17:COM5	17:COM5
	211	-ve	0.000	0.000	0.439	1.118	0.528	5.648
			-	-	15:COM3	19:COM7	15:COM3	15:COM3
			-3.489	-6.595	0.000	0.000	0.000	-0.712
			21:COM9	17:COM5	-	-	-	25:COM1
466	152	+ve	0.000	0.000	1.802	0.631	0.000	4.415
			-	-	15:COM3	27:COM1	-	23:COM1
			-12.011	-26.896	0.000	-1.788	-1.514	-5.893
			17:COM5	17:COM5	-	21:COM9	17:COM5	17:COM5
	79	-ve	0.000	0.000	1.802	0.631	0.329	28.805
			-	-	15:COM3	27:COM1	27:COM1	15:COM3
			-12.162	-27.427	0.000	-1.788	-0.379	0.000
			17:COM5	17:COM5	-	21:COM9	21:COM9	-
467	147	+ve	0.000	2.105	0.000	0.000	0.734	0.590
			-	23:COM1	-	-	15:COM3	23:COM1
			-2.012	-6.207	-0.396	-1.052	0.000	-14.273
			17:COM5	17:COM5	17:COM5	17:COM5	-	17:COM5
	152	-ve	0.000	0.833	0.000	0.000	0.000	6.284
			-	23:COM1	-	-	-	15:COM3
			-2.495	-7.903	-0.396	-1.052	-0.420	-3.696
			17:COM5	17:COM5	17:COM5	17:COM5	17:COM5	25:COM1
468	213	+ve	3.404	0.000	0.000	0.000	0.353	0.000
			19:COM7	-	-	-	15:COM3	-
			0.000	-12.960	-0.632	-0.327	0.000	-8.017
			-	21:COM9	17:COM5	17:COM5	-	17:COM5
	81	-ve	3.588	0.000	0.000	0.000	0.079	9.672
			19:COM7	-	-	-	23:COM1	15:COM3
			0.000	-13.605	-0.632	-0.327	-0.442	0.000
			-	21:COM9	17:COM5	17:COM5	17:COM5	-
470	151	+ve	3.519	0.000	0.657	0.502	0.708	0.000
			15:COM3	-	15:COM3	27:COM1	15:COM3	-
			-0.677	-19.335	-0.541	-1.561	-0.447	-12.662
			25:COM1	17:COM5	25:COM1	21:COM9	25:COM1	14:COM2
	79	-ve	3.851	0.000	0.657	0.502	0.935	29.172
			15:COM3	-	15:COM3	27:COM1	19:COM7	15:COM3
			-0.428	-20.503	-0.541	-1.561	-0.442	0.000
			25:COM1	17:COM5	25:COM1	21:COM9	29:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
471	183	+ve	9.860	0.000	0.018	0.255	0.825	0.000
			15:COM3	-	23:COM1'	27:COM1'	15:COM3	-
			-0.110	-3.472	-0.380	-0.469	0.000	-9.290
			25:COM1'	17:COM5	17:COM5	21:COM9	-	17:COM5
	73	-ve	10.354	0.000	0.018	0.255	0.189	6.883
			15:COM3	-	23:COM1'	27:COM1'	23:COM1'	15:COM3
			0.000	-5.210	-0.380	-0.469	-0.366	-3.400
			-	17:COM5	17:COM5	21:COM9	17:COM5	25:COM1'
473	210	+ve	0.021	4.849	0.000	0.000	0.000	0.000
			23:COM1'	15:COM3	-	-	-	-
			-2.035	0.000	-0.405	-1.486	-0.476	-11.423
			17:COM5	-	17:COM5	21:COM9	17:COM5	14:COM2
	100	-ve	0.000	3.906	0.000	0.000	0.000	0.000
			-	15:COM3	-	-	-	-
			-2.303	0.000	-0.405	-1.486	-0.996	-18.167
			17:COM5	-	17:COM5	21:COM9	14:COM2	14:COM2
474	271	+ve	11.872	0.782	0.012	0.000	0.125	0.167
			15:COM3	19:COM7	23:COM1'	-	15:COM3	27:COM1'
			0.000	0.000	-0.126	-0.940	-0.032	-0.151
			-	-	17:COM5	21:COM9	25:COM1'	21:COM9
	274	-ve	11.872	0.000	0.012	0.000	0.000	0.033
			15:COM3	-	23:COM1'	-	-	27:COM1'
			0.000	-0.514	-0.126	-0.940	-0.127	-0.467
			-	21:COM9	17:COM5	21:COM9	17:COM5	21:COM9
475	272	+ve	17.550	1.276	0.342	0.705	0.074	0.536
			15:COM3	15:COM3	15:COM3	15:COM3	23:COM1'	23:COM1'
			0.000	0.000	-0.110	0.000	-0.308	-0.657
			-	-	25:COM1'	-	17:COM5	17:COM5
	104	-ve	17.550	0.258	0.342	0.705	0.380	0.000
			15:COM3	23:COM1'	15:COM3	15:COM3	15:COM3	-
			0.000	-0.671	-0.110	0.000	-0.148	-1.095
			-	17:COM5	25:COM1'	-	25:COM1'	17:COM5
476	273	+ve	23.605	0.998	0.168	0.529	0.001	0.209
			15:COM3	15:COM3	15:COM3	15:COM3	23:COM1'	23:COM1'
			0.000	0.000	0.000	0.000	-0.154	-1.090
			-	-	-	-	17:COM5	17:COM5
	272	-ve	23.605	0.050	0.168	0.529	0.185	0.000
			15:COM3	23:COM1'	15:COM3	15:COM3	15:COM3	-
			0.000	-0.852	0.000	0.000	0.000	-1.007
			-	17:COM5	-	-	-	17:COM5
477	274	+ve	8.452	0.000	0.000	0.000	0.164	0.000
			15:COM3	-	-	-	15:COM3	-
			0.000	-2.360	-0.337	-1.652	0.000	-0.921
			-	14:COM2	17:COM5	21:COM9	-	14:COM2
	101	-ve	8.452	0.000	0.000	0.000	0.000	2.426
			15:COM3	-	-	-	-	14:COM2
			0.000	-3.008	-0.337	-1.652	-0.259	0.000
			-	14:COM2	17:COM5	21:COM9	21:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
528	275	+ve	1.424	3.099	0.176	0.115	0.810	0.000
			23:COM1'	15:COM3	27:COM1'	23:COM1'	27:COM1'	-
			-1.930	-1.106	-0.194	-0.884	-0.811	-10.422
			17:COM5	25:COM1'	21:COM9	17:COM5	21:COM9	17:COM5
	277	-ve	1.424	0.278	0.176	0.115	0.463	0.000
			23:COM1'	23:COM1'	27:COM1'	23:COM1'	27:COM1'	-
			-1.930	-4.417	-0.194	-0.884	-0.499	-7.718
			17:COM5	17:COM5	21:COM9	17:COM5	21:COM9	14:COM2
529	276	+ve	4.550	3.656	0.232	0.903	0.945	0.000
			23:COM1'	15:COM3	27:COM1'	15:COM3	19:COM7	-
			-3.970	-2.072	-0.271	-0.131	-0.892	-12.412
			17:COM5	25:COM1'	21:COM9	25:COM1'	29:COM1'	17:COM5
	278	-ve	4.550	0.975	0.232	0.903	0.446	0.000
			23:COM1'	23:COM1'	27:COM1'	15:COM3	27:COM1'	-
			-3.970	-5.522	-0.271	-0.131	-0.466	-7.973
			17:COM5	17:COM5	21:COM9	25:COM1'	21:COM9	14:COM2
530	275	+ve	0.164	7.814	0.000	0.000	0.000	0.000
			27:COM1'	14:COM2	-	-	-	-
			-0.208	0.000	-0.000	0.000	0.000	0.000
			21:COM9	-	14:COM2	-	-	-
	276	-ve	0.164	0.000	0.000	0.000	0.000	0.000
			27:COM1'	-	-	-	-	-
			-0.208	-7.814	-0.000	0.000	0.000	0.000
			21:COM9	14:COM2	14:COM2	-	-	-
531	277	+ve	1.625	0.000	1.013	0.115	0.463	0.000
			23:COM1'	-	27:COM1'	23:COM1'	27:COM1'	-
			-2.130	-10.655	-1.133	-0.884	-0.499	-7.718
			17:COM5	17:COM5	21:COM9	17:COM5	21:COM9	14:COM2
	72	-ve	1.625	0.000	1.013	0.115	1.551	19.641
			23:COM1'	-	27:COM1'	23:COM1'	27:COM1'	15:COM3
			-2.130	-14.342	-1.133	-0.884	-1.826	0.000
			17:COM5	17:COM5	21:COM9	17:COM5	21:COM9	-
532	278	+ve	3.751	0.000	1.084	0.903	0.446	0.000
			23:COM1'	-	19:COM7	15:COM3	27:COM1'	-
			-3.171	-11.760	-1.021	-0.131	-0.466	-7.973
			17:COM5	17:COM5	29:COM1'	25:COM1'	21:COM9	14:COM2
	71	-ve	3.751	0.000	1.084	0.903	1.727	21.961
			23:COM1'	-	19:COM7	15:COM3	19:COM7	15:COM3
			-3.171	-15.448	-1.021	-0.131	-1.622	0.000
			17:COM5	17:COM5	29:COM1'	25:COM1'	29:COM1'	-
533	277	+ve	0.131	7.814	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.030	0.000	-0.000	0.000	0.000	0.000
			25:COM1'	-	14:COM2	-	-	-
	278	-ve	0.131	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.030	-7.814	-0.000	0.000	0.000	0.000
			25:COM1'	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon'm)	My (MTon'm)	Mz (MTon'm)
536	72	+ve	0.000	10.917	0.046	0.146	0.191	11.738
			-	19:COM7	23:COM1'	23:COM1'	15:COM3	19:COM7
			-3.317	0.000	-0.057	-0.149	-0.085	-7.652
			17:COM5	-	17:COM5	17:COM5	25:COM1'	29:COM1'
	71	-ve	0.000	0.000	0.046	0.146	0.166	10.735
			-	-	23:COM1'	23:COM1'	15:COM3	19:COM7
			-3.317	-10.715	-0.057	-0.149	-0.112	-7.516
			17:COM5	21:COM9	17:COM5	17:COM5	25:COM1'	29:COM1'
537	281	+ve	0.000	5.664	0.319	0.792	0.229	0.000
			-	15:COM3	15:COM3	19:COM7	27:COM1'	-
			-6.244	0.000	-0.203	-0.076	-0.370	-7.348
			17:COM5	-	25:COM1'	29:COM1'	21:COM9	17:COM5
	283	-ve	0.000	2.160	0.319	0.792	0.649	0.000
			-	15:COM3	15:COM3	19:COM7	19:COM7	-
			-6.244	-2.107	-0.203	-0.076	-0.569	-12.088
			17:COM5	25:COM1'	25:COM1'	29:COM1'	29:COM1'	17:COM5
538	282	+ve	4.276	6.578	0.214	0.110	0.346	0.000
			23:COM1'	15:COM3	27:COM1'	23:COM1'	19:COM7	-
			-10.838	-0.489	-0.256	-0.817	-0.252	-7.891
			17:COM5	25:COM1'	21:COM9	17:COM5	29:COM1'	17:COM5
	284	-ve	4.276	3.075	0.214	0.110	0.721	0.000
			23:COM1'	15:COM3	27:COM1'	23:COM1'	27:COM1'	-
			-10.838	-3.117	-0.256	-0.817	-0.708	-13.441
			17:COM5	25:COM1'	21:COM9	17:COM5	21:COM9	17:COM5
539	281	+ve	0.000	7.477	0.000	0.000	0.000	0.000
			-	14:COM2	-	-	-	-
			-0.298	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	282	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			-0.298	-7.477	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-
540	283	+ve	0.000	0.000	0.553	0.792	0.649	0.000
			-	-	27:COM1'	19:COM7	19:COM7	-
			-5.509	-8.829	-0.638	-0.076	-0.569	-12.088
			17:COM5	17:COM5	21:COM9	29:COM1'	29:COM1'	17:COM5
	55	-ve	0.000	0.000	0.553	0.792	0.401	8.211
			-	-	27:COM1'	19:COM7	27:COM1'	15:COM3
			-5.509	-11.595	-0.638	-0.076	-0.450	-3.641
			17:COM5	17:COM5	21:COM9	29:COM1'	21:COM9	25:COM1'
541	284	+ve	3.496	0.000	0.797	0.110	0.721	0.000
			23:COM1'	-	19:COM7	23:COM1'	27:COM1'	-
			-10.057	-9.860	-0.637	-0.817	-0.708	-13.441
			17:COM5	17:COM5	29:COM1'	17:COM5	21:COM9	17:COM5
	54	-ve	3.496	0.000	0.797	0.110	0.637	11.171
			23:COM1'	-	19:COM7	23:COM1'	15:COM3	15:COM3
			-10.057	-12.626	-0.637	-0.817	-0.384	-6.410
			17:COM5	17:COM5	29:COM1'	17:COM5	25:COM1'	25:COM1'

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
542	283	+ve	0.291	7.477	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.089	0.000	-0.000	0.000	0.000	0.000
			25:COM1	-	14:COM2	-	-	-
	284	-ve	0.291	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.089	-7.477	-0.000	0.000	0.000	0.000
			25:COM1	14:COM2	14:COM2	-	-	-
548	285	+ve	0.332	10.539	0.294	0.486	0.447	16.647
			23:COM1	15:COM3	19:COM7	27:COM1	27:COM1	15:COM3
			-0.771	-0.579	-0.289	-1.895	-0.449	-12.065
			17:COM5	25:COM1	29:COM1	21:COM9	21:COM9	25:COM1
	291	-ve	0.332	1.835	0.294	0.486	0.747	3.182
			23:COM1	23:COM1	19:COM7	27:COM1	19:COM7	23:COM1
			-0.771	-8.512	-0.289	-1.895	-0.727	-5.248
			17:COM5	17:COM5	29:COM1	21:COM9	29:COM1	17:COM5
549	286	+ve	0.212	10.553	0.035	1.941	0.114	16.845
			23:COM1	15:COM3	23:COM1	19:COM7	15:COM3	15:COM3
			-0.570	-0.134	-0.034	-0.527	-0.125	-10.275
			17:COM5	25:COM1	17:COM5	29:COM1	25:COM1	25:COM1
	60	-ve	0.212	0.000	0.035	1.941	0.076	17.636
			23:COM1	-	23:COM1	19:COM7	23:COM1	15:COM3
			-0.570	-11.804	-0.034	-0.527	-0.076	-5.623
			17:COM5	17:COM5	17:COM5	29:COM1	17:COM5	25:COM1
550	287	+ve	1.676	12.379	0.822	0.115	0.654	13.062
			23:COM1	15:COM3	27:COM1	23:COM1	19:COM7	15:COM3
			-2.182	0.000	-0.885	-0.884	-0.551	-2.167
			17:COM5	-	21:COM9	17:COM5	29:COM1	25:COM1
	275	-ve	1.676	9.336	0.822	0.115	0.810	0.000
			23:COM1	15:COM3	27:COM1	23:COM1	27:COM1	-
			-2.182	0.000	-0.885	-0.884	-0.811	-10.422
			17:COM5	-	21:COM9	17:COM5	21:COM9	17:COM5
551	288	+ve	5.658	16.979	0.763	0.903	0.369	17.847
			23:COM1	15:COM3	19:COM7	15:COM3	19:COM7	15:COM3
			-5.078	0.000	-0.757	-0.131	-0.327	-3.785
			17:COM5	-	29:COM1	25:COM1	29:COM1	25:COM1
	276	-ve	5.658	9.894	0.763	0.903	0.945	0.000
			23:COM1	15:COM3	19:COM7	15:COM3	19:COM7	-
			-5.078	0.000	-0.757	-0.131	-0.892	-12.412
			17:COM5	-	29:COM1	25:COM1	29:COM1	17:COM5
552	289	+ve	1.002	6.450	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-1.002	0.000	-0.000	0.000	0.000	0.000
			17:COM5	-	14:COM2	-	-	-
	258	-ve	1.002	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-1.002	-6.450	-0.000	0.000	0.000	0.000
			17:COM5	14:COM2	14:COM2	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
553	290	+ve	0.174	1.743	0.000	0.000	0.000	0.000
			15:COM3	14:COM2	-	-	-	-
			-0.171	0.000	0.000	0.000	0.000	0.000
			25:COM1	-	-	-	-	-
	254	-ve	0.174	0.000	0.000	0.000	0.000	0.000
			15:COM3	-	-	-	-	-
			-0.171	-1.743	0.000	0.000	0.000	0.000
			25:COM1	14:COM2	-	-	-	-
554	291	+ve	0.206	3.398	1.358	0.486	0.747	3.182
			23:COM1	23:COM1	27:COM1	27:COM1	19:COM7	23:COM1
			-0.650	-7.240	-1.375	-1.895	-0.727	-5.248
			17:COM5	17:COM5	21:COM9	21:COM9	29:COM1	17:COM5
	59	-ve	0.206	1.040	1.358	0.486	1.310	16.237
			23:COM1	23:COM1	27:COM1	27:COM1	27:COM1	15:COM3
			-0.650	-11.044	-1.375	-1.895	-1.316	-7.918
			17:COM5	17:COM5	21:COM9	21:COM9	21:COM9	25:COM1
555	291	+ve	1.154	0.000	0.119	0.000	0.000	0.000
			19:COM7	-	23:COM1	-	-	-
			-1.131	-2.592	-0.124	0.000	0.000	0.000
			29:COM1	21:COM9	17:COM5	-	-	-
	296	-ve	1.154	0.000	0.119	0.000	0.101	2.498
			19:COM7	-	23:COM1	-	23:COM1	19:COM7
			-1.131	-3.286	-0.124	0.000	-0.105	0.000
			29:COM1	21:COM9	17:COM5	-	17:COM5	-
556	292	+ve	0.360	0.000	0.015	0.000	0.020	0.000
			15:COM3	-	19:COM7	-	27:COM1	-
			-0.341	-9.228	-0.013	0.000	-0.022	-16.456
			25:COM1	14:COM2	29:COM1	-	21:COM9	14:COM2
	248	-ve	0.360	0.000	0.015	0.000	0.000	0.000
			15:COM3	-	19:COM7	-	-	-
			-0.341	-12.714	-0.013	0.000	0.000	0.000
			25:COM1	14:COM2	29:COM1	-	-	-
557	290	+ve	0.586	1.885	0.016	0.000	0.038	2.173
			19:COM7	19:COM7	23:COM1	-	15:COM3	19:COM7
			-0.585	0.000	-0.016	0.000	-0.038	0.000
			29:COM1	-	17:COM5	-	25:COM1	-
	292	-ve	0.586	0.000	0.016	0.000	0.000	0.000
			19:COM7	-	23:COM1	-	-	-
			-0.585	-0.718	-0.016	0.000	0.000	0.000
			29:COM1	29:COM1	17:COM5	-	-	-
558	293	+ve	0.003	23.853	0.653	1.108	0.876	27.963
			15:COM3	14:COM2	23:COM1	23:COM1	15:COM3	19:COM7
			-0.003	0.000	-0.655	-1.024	-0.867	0.000
			25:COM1	-	17:COM5	17:COM5	25:COM1	-
	230	-ve	0.003	21.180	0.653	1.108	0.206	0.000
			15:COM3	14:COM2	23:COM1	23:COM1	15:COM3	-
			-0.003	0.000	-0.655	-1.024	-0.201	-14.586
			25:COM1	-	17:COM5	17:COM5	25:COM1	21:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
559	294	+ve	0.003	31.635	0.333	1.132	0.441	27.921
			23:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	19:COM7
			-0.003	0.000	-0.334	-0.596	-0.437	0.000
			17:COM5	-	17:COM5	25:COM1'	25:COM1'	-
	233	-ve	0.003	29.365	0.333	1.132	0.105	0.000
			23:COM1'	14:COM2	23:COM1'	15:COM3	15:COM3	-
			-0.003	0.000	-0.334	-0.596	-0.102	-20.641
			17:COM5	-	17:COM5	25:COM1'	25:COM1'	21:COM9
560	293	+ve	0.012	5.487	0.033	0.000	0.096	8.768
			15:COM3	15:COM3	23:COM1'	-	15:COM3	15:COM3
			-0.011	0.000	-0.033	-1.031	-0.095	-2.868
			25:COM1'	-	17:COM5	14:COM2	25:COM1'	25:COM1'
	294	-ve	0.012	0.000	0.033	0.000	0.096	5.337
			15:COM3	-	23:COM1'	-	23:COM1'	15:COM3
			-0.011	-6.081	-0.033	-1.031	-0.097	-0.956
			25:COM1'	17:COM5	17:COM5	14:COM2	17:COM5	25:COM1'
561	295	+ve	4.747	16.211	0.966	0.690	1.479	25.449
			15:COM3	19:COM7	23:COM1'	23:COM1'	15:COM3	19:COM7
			-1.627	0.000	-0.989	-2.501	-1.388	-6.248
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	29:COM1'
	252	-ve	4.747	13.940	0.966	0.690	0.183	4.384
			15:COM3	19:COM7	23:COM1'	23:COM1'	15:COM3	27:COM1'
			-1.627	0.000	-0.989	-2.501	-0.128	-14.835
			25:COM1'	-	17:COM5	17:COM5	25:COM1'	21:COM9
562	296	+ve	0.816	4.770	0.109	0.000	0.136	8.470
			19:COM7	14:COM2	23:COM1'	14:COM2	15:COM3	19:COM7
			-0.815	0.000	-0.112	0.000	-0.131	0.000
			29:COM1'	-	17:COM5	-	25:COM1'	-
	290	-ve	0.816	3.505	0.109	0.000	0.038	2.173
			19:COM7	14:COM2	23:COM1'	14:COM2	15:COM3	19:COM7
			-0.815	0.000	-0.112	0.000	-0.038	0.000
			29:COM1'	-	17:COM5	-	25:COM1'	-
564	297	+ve	2.339	25.508	1.433	1.675	1.899	24.971
			19:COM7	14:COM2	15:COM3	15:COM3	15:COM3	19:COM7
			-0.178	0.000	-1.446	-0.562	-1.843	0.000
			29:COM1'	-	25:COM1'	25:COM1'	25:COM1'	-
	254	-ve	2.339	22.232	1.433	1.675	0.446	0.000
			19:COM7	14:COM2	15:COM3	15:COM3	15:COM3	-
			-0.178	0.000	-1.446	-0.562	-0.410	-19.034
			29:COM1'	-	25:COM1'	25:COM1'	25:COM1'	21:COM9
565	295	+ve	0.658	13.409	0.323	0.000	0.817	16.530
			23:COM1'	15:COM3	15:COM3	-	23:COM1'	15:COM3
			-0.696	0.000	-0.316	-3.558	-0.836	-3.225
			17:COM5	-	25:COM1'	21:COM9	17:COM5	25:COM1'
	296	-ve	0.658	0.780	0.323	0.000	0.706	0.000
			23:COM1'	23:COM1'	15:COM3	-	27:COM1'	-
			-0.696	-5.855	-0.316	-3.558	-0.693	-11.268
			17:COM5	17:COM5	25:COM1'	21:COM9	21:COM9	17:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
567	296	+ve	0.724	0.000	1.306	3.281	0.737	0.000
			23:COM1'	-	19:COM7	14:COM2	27:COM1'	-
			-0.761	-12.230	-1.277	0.000	-0.732	-11.268
			17:COM5	17:COM5	29:COM1'	-	21:COM9	17:COM5
	297	-ve	0.724	0.000	1.306	3.281	1.325	12.138
			23:COM1'	-	19:COM7	14:COM2	19:COM7	15:COM3
			-0.761	-13.868	-1.277	0.000	-1.277	-0.250
			17:COM5	17:COM5	29:COM1'	-	29:COM1'	25:COM1'

Memoria de Diseño de Columnas

COLUMNA C-5

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB3	2.27	.70	.60	.50	28	15.98	2.62	-31.13	3.38	4.66	26.46	12/6 (1.1%)	0.49	32.64	39.93
						0.27	-12.55					12/6 (1.1%)	0.32		
CUB.	3.00	.60	.60	.50	28	3.44	18.02	-24.86	5.01	9.41	26.46	12/6 (1.1%)	0.48	24.70	30.21
						-11.09	-13.99					12/6 (1.1%)	0.45		
NE+3.68	3.00	.60	.60	.50	28	23.35	13.10	-69.21	14.40	9.74	26.46	12/6 (1.1%)	0.68	24.70	30.21
NE+0.08		1.80				-28.49	-15.39					12/6 (1.1%)	0.83		

COLUMNA C-2

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB	5.21	.60	.60	.50	28	-21.81	-0.98	-44.95	6.36	1.79	26.46	14/6 (1.3%)	0.56	16.54	20.36
						17.35	-7.06					14/6 (1.3%)	0.46		
NE+3.68	3.00	.60	.60	.50	28	31.00	22.69	-107.54	17.55	14.94	26.46	14/6 (1.3%)	0.89	28.72	35.36
NE+0.08		1.70				-32.17	-20.16					14/6 (1.3%)	0.88		

COLUMNA C-2A

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB2	5.45	.70	.60	.50	28	-12.78	-1.75	-44.50	3.69	1.67	26.46	14/6 (1.3%)	0.33	15.81	19.46
						10.00	7.42					14/6 (1.3%)	0.30		
NE+3.68	3.00	.60	.60	.50	28	-16.62	-16.41	-112.16	9.69	9.83	26.46	14/6 (1.3%)	0.53	28.72	35.36
						4.56	-2.88					14/6 (1.3%)	0.27		
NE+0.08	1.20	.60	.60	.50	28	-3.70	-3.85	-68.35	9.69	9.83	26.46	14/6 (1.3%)	0.25	71.80	88.40
NE-1.72		1.10				18.10	8.19					14/6 (1.3%)	0.46		

Memoria de Diseño de Columnas

COLUMNA C-6

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
CUB.	3.00	.80	.60	.50	28	-29.18	1.70					14/6 (1.3%)	0.76		
						24.41	0.55	-41.52	12.42	15.86	26.46	14/6 (1.3%)	0.64	28.72	35.36
NE+3.68	3.00	.60	.60	.50	28	-16.52	6.36					14/6 (1.3%)	0.40		
NE+0.08		1.80				24.60	6.04	-95.87	12.40	11.25	26.46	14/6 (1.3%)	0.60	28.72	35.36

COLUMNA C-6A

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
CUB.	3.00	.80	.60	.50	28	-18.91	-13.64					14/6 (1.3%)	0.57		
						15.50	14.42	-42.26	7.97	19.75	26.46	14/6 (1.3%)	0.51	28.72	35.36
NE+3.68	3.00	.60	.60	.50	28	-12.89	-12.40					14/6 (1.3%)	0.41		
						6.73	3.12	-83.18	8.93	9.37	26.46	14/6 (1.3%)	0.17	28.72	35.36
NE+0.00	1.20	.60	.60	.50	28	6.41	2.87					14/6 (1.3%)	0.33		
NE-1.72		1.10				19.28	13.05	-83.18	8.93	9.37	26.46	14/6 (1.3%)	0.55	71.80	88.40

COLUMNA C-4

Son 2

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast. Direc 2
CUB3	2.80	.70	.60	.50	28	-8.42	-17.48					16/5 (1.1%)	0.52		
						16.38	10.00	-32.78	6.84	6.84	26.46	16/5 (1.1%)	0.55	25.69	31.47
NE+7.28	3.00	.60	.60	.50	28	-20.60	-14.39					16/5 (1.1%)	0.65		
						16.45	20.42	-69.89	10.28	10.93	26.46	16/5 (1.1%)	0.64	23.98	29.37
NE+3.68	3.00	.60	.60	.50	28	-18.36	-30.34					16/5 (1.1%)	0.78		
NE+0.08		1.80				13.41	46.46	-114.98	11.02	22.72	26.46	16/5 (1.1%)	0.96	23.98	29.37

Memoria de Diseño de Columnas

COLUMNA C-1

Son 2

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB	1.12	.70	.50	Circ	28	-5.13	-4.77	-19.51	3.76	1.71	22.05	20/6 (2.9%)	0.27	47.22	47.22
						2.26	-1.43					20/6 (2.9%)	0.13		
NE+7.28	3.00	.60	.50	Circ	28	16.66	2.92	-42.88	9.17	7.13	22.05	20/6 (2.9%)	0.60	17.63	17.63
						-15.19	9.64					20/6 (2.9%)	0.63		
NE+3.68	3.00	.60	.50	Circ	28	-4.60	-28.97	-115.13	8.56	16.74	22.05	20/6 (2.9%)	0.88	17.63	17.63
						5.18	31.29					20/6 (2.9%)	0.96		
NE+0.08		1.70													

COLUMNA C-3

Son 2

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB.	3.00	.80	.60	.50	28	10.17	18.00	-40.12	16.86	20.86	26.46	18/5 (1.2%)	0.80	26.58	32.00
						-15.28	-19.01					18/5 (1.2%)	0.61		
NE+3.68	3.00	.60	.60	.50	28	7.03	26.26	-73.86	7.01	17.53	26.46	18/5 (1.2%)	0.57	26.58	32.00
						-9.22	-36.89					18/5 (1.2%)	0.80		
NE+0.08		1.80													

COLUMNA C-5A

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
CUB2	2.27	.70	.60	.50	28	10.80	-1.38	-30.64	2.21	4.57	26.46	12/6 (1.1%)	0.33	32.60	39.88
						3.52	12.29					12/6 (1.1%)	0.32		
NE+7.28	3.00	.60	.60	.50	28	-0.34	-18.00	-35.14	3.44	9.21	26.46	12/6 (1.1%)	0.44	24.70	30.21
						-1.04	14.37					12/6 (1.1%)	0.33		
NE+3.68	3.00	.60	.60	.50	28	15.33	-1.80	-70.91	9.62	9.16	26.46	12/6 (1.1%)	0.40	24.70	30.21
						-5.33	-1.14					12/6 (1.1%)	0.17		

Memoria de Diseño de Columnas

COLUMNA C-5A

Es 1

Nivel	H Piso	Losa	B	H	f'c	M1 t/m	M2 t/m	p ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plast. Direc 1	V plast Direc 2
NE+0.08	1.50	.60	.60	.50	28	-5.45	-2.74	-70.91	9.62	9.16	26.46	12/6 (1.1%)	0.30	49.40	60.43
NE-1.72		1.10				-19.31	-3.36					12/6 (1.1%)	0.50		

VC17/NE+0.08

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.25	
Mu=-10.86 As =7.96 As(r)=7.13	Mu=-17.40 As =9.25 As(r)=8.84	Mu=-17.76 As =9.25 As(r)=9.03	Mu=-10.84 As =7.96 As(r)=7.13
Mu=8.30 As =7.96 As(r)=7.13	Mu=5.80 As =7.96 As(r)=7.13	Mu=5.92 As =7.96 As(r)=7.13	Mu=8.72 As =7.96 As(r)=7.13
Vu=-8.89	Vu=11.63	Vu=-11.77	Vu=8.87

VC18/NE+0.08

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.15	
Mu=-13.84 As =7.96 As(r)=7.13	Mu=-14.44 As =9.25 As(r)=7.29	Mu=-14.69 As =9.25 As(r)=7.42	Mu=-13.88 As =7.96 As(r)=7.13
Mu=6.79 As =7.96 As(r)=7.13	Mu=6.02 As =7.96 As(r)=7.13	Mu=4.81 As =7.96 As(r)=7.13	Mu=4.90 As =7.96 As(r)=7.13
Vu=-9.33	Vu=10.73	Vu=-10.83	Vu=9.33

VC19/NE+0.08

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.25	
Mu=-16.51 As =9.96 As(r)=8.37	Mu=-23.05 As =11.94 As(r)=11.87	Mu=-22.83 As =11.94 As(r)=11.75	Mu=-18.40 As =9.96 As(r)=9.37
Mu=14.51 As =7.96 As(r)=7.13	Mu=6.00 As =7.96 As(r)=7.13	Mu=7.68 As =7.96 As(r)=7.13	Mu=6.09 As =7.96 As(r)=7.13
Vu=-10.73	Vu=13.69	Vu=-13.65	Vu=11.25

VC20/NE+0.08

B=0.65 H=0.60 L=1.85		B=0.65 H=0.60 L=8.90		B=0.65 H=0.60 L=4.70	
Mu=-0.29 As =17.04 As(r)=11.58	Mu=-39.11 As =26.52 As(r)=20.18	Mu=-59.27 As =32.34 As(r)=31.54	Mu=-53.39 As =28.65 As(r)=28.15	Mu=-34.59 As =26.45 As(r)=17.74	Mu=-27.47 As =19.88 As(r)=13.95
Mu=0.00 As =14.49 As(r)=11.58	Mu=0.00 As =14.49 As(r)=11.58	Mu=7.82 As =14.49 As(r)=11.58	Mu=19.76 As =14.49 As(r)=12.82	Mu=41.27 As =16.00 As(r)=21.37	Mu=17.80 As =14.49 As(r)=12.82
Vu=-10.24	Vu=-26.60	Vu=26.84	Vu=-30.14	Vu=16.56	Vu=-19.08

B=0.65 H=0.60 L=8.90		B=0.65 H=0.60 L=1.85	
Mu=-37.50 As =19.88 As(r)=19.31	Mu=-45.58 As =24.78 As(r)=23.75	Mu=-31.07 As =24.78 As(r)=15.85	Mu=-0.40 As =17.04 As(r)=11.58
Mu=12.50 As =11.94 As(r)=11.58	Mu=20.30 As =22.23 As(r)=11.58	Mu=15.19 As =14.49 As(r)=11.58	Mu=6.21 As =14.49 As(r)=11.58
Vu=19.15	Vu=-20.20	Vu=16.69	Vu=10.59

VC21/NE+0.08

B=0.50 H=0.60 L=1.85		B=0.50 H=0.60 L=9.05		B=0.50 H=0.60 L=4.60	
Mu=-0.00 As =25.50 As(r)=8.91	Mu=-54.56 As =43.44 As(r)=29.59	Mu=-75.89 As =43.44 As(r)=43.31	Mu=-57.80 As =34.65 As(r)=31.57	Mu=-33.65 As =33.38 As(r)=17.48	Mu=-23.01 As =21.94 As(r)=11.72
Mu=0.61 As =19.35 As(r)=8.91	Mu=0.00 As =19.35 As(r)=8.91	Mu=10.91 As =19.35 As(r)=8.91	Mu=25.30 As =19.35 As(r)=17.73	Mu=54.48 As =34.65 As(r)=29.54	Mu=19.27 As =19.35 As(r)=17.73
Vu=-23.07	Vu=-28.25	Vu=37.00	Vu=-38.42	Vu=12.50	Vu=-8.33

B=0.50 H=0.60 L=9.05		B=0.50 H=0.60 L=1.85	
Mu=-41.05 As=21.94 As(r)=21.64	Mu=-63.95 As=35.70 As(r)=35.43	Mu=-55.97 As=35.70 As(r)=30.45	Mu=-0.00 As=25.50 As(r)=8.91
Mu=13.68 As=14.20 As(r)=10.32	Mu=33.15 As=34.65 As(r)=17.21	Mu=21.32 As=11.63 As(r)=10.83	Mu=11.19 As=11.65 As(r)=8.91
		Mu=0.00 As=19.35 As(r)=8.91	Mu=0.76 As=11.63 As(r)=8.91
Vu=25.10	Vu=-29.41	Vu=27.93	Vu=22.51

VC22/NE+0.08

B=0.65 H=0.60 L=1.85		B=0.65 H=0.60 L=9.00		B=0.65 H=0.60 L=4.70	
Mu=-0.32 As=17.04 As(r)=11.58	Mu=-28.83 As=24.78 As(r)=14.66	Mu=-44.25 As=24.78 As(r)=23.01	Mu=-36.21 As=19.68 As(r)=18.61	Mu=-26.07 As=19.68 As(r)=13.21	Mu=-26.18 As=19.29 As(r)=13.27
Mu=0.00 As=11.94 As(r)=11.58	Mu=0.00 As=11.94 As(r)=11.58	Mu=5.77 As=11.94 As(r)=11.58	Mu=14.75 As=11.94 As(r)=11.58	Mu=21.05 As=11.94 As(r)=11.58	Mu=12.07 As=11.94 As(r)=11.58
		Mu=8.69 As=11.94 As(r)=11.58	Mu=5.24 As=11.94 As(r)=11.58	Mu=8.73 As=11.94 As(r)=11.58	
Vu=-10.35	Vu=-16.18	Vu=20.10	Vu=-18.98	Vu=-12.51	Vu=12.54

B=0.65 H=0.60 L=9.00		B=0.65 H=0.60 L=1.85	
Mu=-35.62 As=19.68 As(r)=18.29	Mu=-45.84 As=24.78 As(r)=23.89	Mu=-31.02 As=24.78 As(r)=15.83	Mu=-0.40 As=17.04 As(r)=11.58
Mu=11.87 As=11.94 As(r)=11.58	Mu=20.65 As=11.94 As(r)=11.58	Mu=15.28 As=11.94 As(r)=11.58	Mu=6.20 As=11.94 As(r)=11.58
		Mu=0.00 As=11.94 As(r)=11.58	Mu=0.00 As=11.94 As(r)=11.58
Vu=18.79	Vu=-20.36	Vu=16.67	Vu=10.57

VC24/NE+0.08

B=0.30 H=0.60 L=5.25	
Mu=-8.91 As=5.97 As(r)=5.35	Mu=-5.40 As=5.97 As(r)=5.35
Mu=3.01 As=5.97 As(r)=5.35	Mu=5.72 As=5.97 As(r)=5.35
	Mu=1.80 As=5.97 As(r)=5.35
Vu=-5.53	Vu=6.11

V121/NE+3.68

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.25	
Mu=-21.33 As =11.94 As(r)=10.68	Mu=-15.65 As =9.95 As(r)=7.71	Mu=-18.15 As =9.95 As(r)=9.00	Mu=-16.95 As =9.95 As(r)=8.38
Mu=7.28 As =7.96 As(r)=7.39	Mu=6.99 As =7.96 As(r)=7.39	Mu=6.05 As =7.96 As(r)=7.39	Mu=8.07 As =7.96 As(r)=7.39
Vu=-11.89	Vu=10.74	Vu=-11.51	Vu=10.51

V122/NE+3.68

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.15	
Mu=-21.64 As =11.94 As(r)=10.84	Mu=-18.16 As =10.80 As(r)=9.00	Mu=-16.87 As =10.80 As(r)=8.33	Mu=-24.97 As =13.64 As(r)=12.63
Mu=10.77 As =7.96 As(r)=7.39	Mu=7.68 As =7.96 As(r)=7.39	Mu=6.05 As =7.96 As(r)=7.39	Mu=6.09 As =7.96 As(r)=7.39
Vu=-18.42	Vu=11.99	Vu=-11.55	Vu=19.78

V123/NE+3.68

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.15	
Mu=-20.10 As =11.94 As(r)=10.02	Mu=-16.72 As =10.80 As(r)=8.26	Mu=-19.49 As =10.80 As(r)=9.70	Mu=-27.29 As =15.70 As(r)=13.91
Mu=12.51 As =7.96 As(r)=7.39	Mu=9.54 As =7.96 As(r)=7.39	Mu=8.03 As =7.96 As(r)=7.39	Mu=6.91 As =7.96 As(r)=7.39
Vu=-13.10	Vu=11.23	Vu=-12.56	Vu=18.88

V124/NE+3.68

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.25	
Mu=-31.49 As =17.04 As(r)=16.27	Mu=-25.25 As =13.93 As(r)=12.79	Mu=-25.87 As =13.93 As(r)=13.13	Mu=-26.89 As =15.70 As(r)=13.69
Mu=19.06 As =10.80 As(r)=9.48	Mu=6.30 As =7.96 As(r)=7.39	Mu=15.57 As =10.80 As(r)=7.66	Mu=12.87 As =10.80 As(r)=7.39
Vu=-15.07	Vu=14.50	Vu=-14.35	Vu=13.68

V125/NE+3.68

B=0.50 H=0.60 L=1.85		B=0.50 H=0.60 L=8.90	
Mu=-0.09 As =19.35 As(r)=9.24	Mu=-28.30 As =29.14 As(r)=14.22	Mu=-56.41 As =30.96 As(r)=30.58	Mu=-53.76 As =30.96 As(r)=28.91
Mu=0.05 As =9.95 As(r)=9.24	Mu=0.00 As =9.95 As(r)=9.24	Mu=5.66 As =9.95 As(r)=9.24	Mu=18.80 As =9.95 As(r)=9.25
Vu=-6.44	Vu=-20.70	Vu=24.04	Vu=-29.48

V126/NE+3.68

B=0.50 H=0.60 L=1.85			B=0.50 H=0.60 L=9.05			B=0.50 H=0.60 L=4.60		
Mu=-0.00 As =25.50 As(r)=9.24	Mu=-35.05 As =29.68 As(r)=17.91	Mu=-69.95 As =40.80 As(r)=39.65	Mu=-60.80 As =34.59 As(r)=33.41	Mu=-33.15 As =30.55 As(r)=16.85	Mu=-28.86 As =22.78 As(r)=14.52			
Mu=0.18 As =16.26 As(r)=9.24	Mu=0.00 As =16.26 As(r)=9.24	Mu=7.01 As =19.28 As(r)=13.73	Mu=23.32 As =16.26 As(r)=13.73	Mu=43.77 As =24.76 As(r)=22.88	Mu=20.27 As =16.26 As(r)=13.73	Mu=11.05 As =15.97 As(r)=9.24	Mu=6.63 As =16.26 As(r)=9.24	Mu=9.62 As =19.30 As(r)=13.73
Vu=-14.09			Vu=-18.77			Vu=34.40		
						Vu=-40.71		
						Vu=12.81		
						Vu=-11.17		

B=0.50 H=0.60 L=9.05			B=0.50 H=0.60 L=1.70		
Mu=-51.80 As =30.92 As(r)=27.69	Mu=-63.70 As =37.11 As(r)=35.34	Mu=-35.96 As =34.42 As(r)=18.41	Mu=-0.00 As =25.50 As(r)=9.24		
Mu=17.27 As =17.50 As(r)=11.30	Mu=36.72 As =14.78 As(r)=18.84	Mu=21.28 As =12.58 As(r)=11.30	Mu=7.19 As =12.50 As(r)=9.24	Mu=0.00 As =16.26 As(r)=9.24	Mu=0.28 As =12.30 As(r)=9.24
Vu=29.29			Vu=-31.44		
			Vu=18.71		
			Vu=13.72		

V127/NE+3.68

B=0.50 H=0.60 L=1.85			B=0.50 H=0.60 L=9.00		
Mu=-0.18 As =14.20 As(r)=9.24	Mu=-17.16 As =17.27 As(r)=9.24	Mu=-43.67 As =24.40 As(r)=22.82	Mu=-43.01 As =24.40 As(r)=22.43		
Mu=0.00 As =9.95 As(r)=9.24	Mu=0.00 As =9.95 As(r)=9.24	Mu=3.43 As =9.95 As(r)=9.24	Mu=14.56 As =9.95 As(r)=9.24	Mu=19.16 As =9.95 As(r)=9.42	Mu=14.34 As =9.95 As(r)=9.24
Vu=-6.33			Vu=-9.48		
			Vu=19.26		
			Vu=-19.17		

V128/NE+3.68

B=0.50 H=0.60 L=4.70		
Mu=-14.94 As =9.95 As(r)=9.24	Mu=-14.90 As =9.95 As(r)=9.24	
Mu=4.98 As =9.95 As(r)=9.24	Mu=5.92 As =9.95 As(r)=9.24	Mu=5.01 As =9.95 As(r)=9.24
Vu=-9.88		
Vu=9.86		

V129/NE+3.68

B=0.50 H=0.60 L=9.00			B=0.50 H=0.60 L=1.70		
Mu=-42.76 As =24.40 As(r)=22.29	Mu=-44.22 As =23.40 As(r)=23.14	Mu=-17.01 As =19.89 As(r)=9.24	Mu=-0.21 As =14.20 As(r)=9.24		
Mu=14.25 As =9.95 As(r)=9.24	Mu=19.16 As =9.95 As(r)=9.42	Mu=14.74 As =9.95 As(r)=9.24	Mu=3.40 As =9.95 As(r)=9.24	Mu=0.00 As =9.95 As(r)=9.24	Mu=0.01 As =9.95 As(r)=9.24
Vu=19.12			Vu=-19.37		
			Vu=9.27		
			Vu=5.84		

V130/NE+3.68

B=0.50 H=0.60 L=4.70		
Mu=-0.00 As =9.95 As(r)=9.24	Mu=-0.00 As =9.95 As(r)=9.24	
Mu=0.49 As =9.95 As(r)=9.24	Mu=1.39 As =9.95 As(r)=9.24	Mu=1.87 As =9.95 As(r)=9.24
Vu=2.18		
Vu=-8.24		

B=0.50 H=0.60 L=8.90		B=0.50 H=0.60 L=1.70	
Mu=-43.30 As =25.81 As(r)=22.60	Mu=-46.06 As =25.29 As(r)=24.23	Mu=-17.55 As =20.07 As(r)=9.24	Mu=-0.20 As =14.20 As(r)=9.24
Mu=14.43 As =9.95 As(r)=9.24	Mu=19.62 As =9.95 As(r)=9.66	Mu=15.35 As =9.95 As(r)=9.24	Mu=3.51 As =9.95 As(r)=9.24
		Mu=0.00 As =9.95 As(r)=9.24	Mu=0.01 As =9.95 As(r)=9.24
Vu=19.22	Vu=-19.94	Vu=9.43	Vu=6.08

VE-1/NE+3.68

B=0.40 H=0.60 L=5.25	
Mu=-0.00 As =7.96 As(r)=7.39	Mu=-12.33 As =7.96 As(r)=7.39
Mu=0.00 As =11.36 As(r)=7.39	Mu=0.00 As =11.36 As(r)=7.39
	Mu=2.47 As =7.96 As(r)=7.39
Vu=0.00	Vu=13.93

V218/NE+7.28

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.15	
Mu=-20.76 As =10.80 As(r)=10.42	Mu=-19.64 As =10.80 As(r)=9.83	Mu=-21.06 As =10.80 As(r)=10.58	Mu=-20.56 As =10.80 As(r)=10.32
Mu=6.92 As =7.96 As(r)=7.26	Mu=9.94 As =7.96 As(r)=7.26	Mu=6.55 As =7.96 As(r)=7.26	Mu=7.02 As =7.96 As(r)=7.26
		Mu=11.13 As =7.96 As(r)=7.26	Mu=6.85 As =7.96 As(r)=7.26
Vu=-34.36	Vu=14.34	Vu=-15.94	Vu=21.58

V219/NE+7.28

B=0.40 H=0.60 L=5.25		B=0.40 H=0.60 L=5.15	
Mu=-24.60 As =13.64 As(r)=12.45	Mu=-21.96 As =11.94 As(r)=11.05	Mu=-23.09 As =11.94 As(r)=11.65	Mu=-23.70 As =13.64 As(r)=11.97
Mu=8.20 As =7.96 As(r)=7.26	Mu=11.51 As =7.96 As(r)=7.26	Mu=7.32 As =7.96 As(r)=7.26	Mu=7.70 As =7.96 As(r)=7.26
		Mu=12.14 As =7.96 As(r)=7.26	Mu=7.90 As =7.96 As(r)=7.26
Vu=-28.34	Vu=15.45	Vu=-16.85	Vu=21.55

V220/NE+7.28

B=0.40 H=0.60 L=1.80		B=0.40 H=0.60 L=8.90	
Mu=-16.02 As =9.95 As(r)=7.90	Mu=-17.72 As =9.95 As(r)=8.78	Mu=-16.02 As =9.95 As(r)=7.90	Mu=-17.72 As =9.95 As(r)=8.78
Mu=3.57 As =7.96 As(r)=7.39	Mu=5.91 As =7.96 As(r)=7.39	Mu=5.34 As =7.96 As(r)=7.39	Mu=5.91 As =7.96 As(r)=7.39
		Mu=5.91 As =7.96 As(r)=7.39	Mu=5.91 As =7.96 As(r)=7.39
Vu=6.74	Vu=-7.26	Vu=6.74	Vu=-7.26

V221/NE+7.28

B=0.40 H=0.60 L=4.70	
Mu=-0.00 As =7.96 As(r)=7.39	Mu=-0.00 As =7.96 As(r)=7.39
Mu=0.00 As =7.96 As(r)=7.39	Mu=21.04 As =11.94 As(r)=11.18
	Mu=0.00 As =7.96 As(r)=7.39
Vu=11.40	Vu=-22.02

V222/NE+7.28

B=0.40 H=0.60 L=8.90		B=0.40 H=0.60 L=1.80	
Mu=-18.40 As =9.95 As(r)=9.13	Mu=-16.98 As =9.95 As(r)=8.39	Mu=-18.40 As =9.95 As(r)=9.13	Mu=-16.98 As =9.95 As(r)=8.39
Mu=6.13 As =7.96 As(r)=7.39	Mu=6.13 As =7.96 As(r)=7.39	Mu=5.66 As =7.96 As(r)=7.39	Mu=6.13 As =7.96 As(r)=7.39
		Mu=6.13 As =7.96 As(r)=7.39	Mu=4.57 As =7.96 As(r)=7.39
Vu=7.44	Vu=-6.91	Vu=7.44	Vu=-6.91

V223/NE+7.28

B=0.40 H=0.60 L=4.60	
Mu=-10.89 As =7.96 As(r)=7.39	Mu=-11.89 As =7.96 As(r)=7.39
Mu=7.59 As =7.96 As(r)=7.39	Mu=8.55 As =7.96 As(r)=7.39
Mu=7.71 As =7.96 As(r)=7.39	
Vu=10.75	Vu=-10.96

V224/NE+7.28

B=0.40 H=0.60 L=1.80		B=0.40 H=0.60 L=9.00	
Mu=-0.00 As =7.96 As(r)=7.39	Mu=-2.93 As =7.96 As(r)=7.39	Mu=-15.95 As =7.96 As(r)=7.86	Mu=-12.52 As =7.96 As(r)=7.39
Mu=0.00 As =7.96 As(r)=7.39	Mu=0.00 As =7.96 As(r)=7.39	Mu=5.32 As =7.96 As(r)=7.39	Mu=4.17 As =7.96 As(r)=7.39
Vu=0.00	Vu=-2.73	Vu=6.99	Vu=-6.21

V225/NE+7.28

B=0.40 H=0.60 L=4.70	
Mu=-9.17 As =7.96 As(r)=7.39	Mu=-9.46 As =7.96 As(r)=7.39
Mu=3.06 As =7.96 As(r)=7.39	Mu=3.36 As =7.96 As(r)=7.39
Mu=3.15 As =7.96 As(r)=7.39	
Vu=-7.29	Vu=7.30

V226/NE+7.28

B=0.40 H=0.60 L=9.00		B=0.40 H=0.60 L=1.80	
Mu=-12.90 As =7.96 As(r)=7.39	Mu=-16.24 As =9.95 As(r)=8.01	Mu=-3.21 As =9.95 As(r)=7.39	Mu=-0.00 As =7.96 As(r)=7.39
Mu=4.30 As =7.96 As(r)=7.39	Mu=5.41 As =7.96 As(r)=7.39	Mu=0.64 As =7.96 As(r)=7.39	Mu=0.00 As =7.96 As(r)=7.39
Vu=6.28	Vu=-7.07	Vu=2.86	Vu=0.00

V313/CUB

B=0.40 H=0.70 L=5.53		B=0.40 H=0.70 L=5.53	
Mu=-23.54 As =9.95 As(r)=9.87	Mu=-30.77 As =15.63 As(r)=13.10	Mu=-30.39 As =15.63 As(r)=12.93	Mu=-13.57 As =9.95 As(r)=8.71
Mu=10.31 As =9.95 As(r)=8.71	Mu=11.80 As =9.95 As(r)=8.71	Mu=10.26 As =9.95 As(r)=8.71	Mu=10.13 As =9.95 As(r)=8.71
Mu=16.07 As =9.95 As(r)=8.71	Mu=6.08 As =9.95 As(r)=8.71		
Vu=-11.80	Vu=28.15	Vu=21.63	Vu=14.33

V314/CUB

B=0.30 H=0.70 L=5.53		B=0.30 H=0.70 L=5.53	
Mu=-3.34 As =8.52 As(r)=6.44	Mu=-5.09 As =8.52 As(r)=6.44	Mu=-10.15 As =8.52 As(r)=6.44	Mu=-9.51 As =8.52 As(r)=6.44
Mu=1.11 As =8.52 As(r)=6.44	Mu=3.82 As =8.52 As(r)=6.44	Mu=1.70 As =8.52 As(r)=6.44	Mu=3.38 As =8.52 As(r)=6.44
Mu=10.56 As =8.52 As(r)=6.44	Mu=6.65 As =8.52 As(r)=6.44		
Vu=-2.84	Vu=3.95	Vu=-6.95	Vu=-5.63

V316/CUB

B=0.30 H=0.70 L=9.37		B=0.30 H=0.70 L=1.94	
Mu=-10.64 As =8.52 As(r)=6.44	Mu=-22.12 As =10.51 As(r)=9.40	Mu=-11.63 As =10.51 As(r)=6.44	Mu=-0.00 As =7.88 As(r)=6.44
Mu=4.42 As =6.82 As(r)=6.44	Mu=10.02 As =6.82 As(r)=6.44	Mu=7.37 As =6.82 As(r)=6.44	Mu=2.33 As =6.82 As(r)=6.44
Mu=0.00 As =6.82 As(r)=6.44	Mu=0.70 As =6.82 As(r)=6.44		
Vu=6.22	Vu=-14.43	Vu=5.95	Vu=4.59

V317/CUB

B=0.30 H=0.70 L=1.83			B=0.30 H=0.70 L=9.37		
Mu=-0.00		Mu=-16.84	Mu=-19.28		Mu=-15.24
As=8.52		As=8.52	As=8.52		As=8.52
As(r)=6.44		As(r)=7.08	As(r)=8.15		As(r)=6.44
Mu=1.00	Mu=0.00	Mu=3.37	Mu=6.43	Mu=10.33	Mu=5.08
As=8.52	As=8.52	As=8.52	As=8.52	As=8.52	As=8.52
As(r)=6.44	As(r)=6.44	As(r)=6.44	As(r)=6.44	As(r)=6.44	As(r)=6.44
Vu=-7.34		Vu=-8.64	Vu=9.83		Vu=-7.98

V318/CUB

B=0.30 H=0.70 L=9.37			B=0.30 H=0.70 L=1.94		
Mu=-15.87		Mu=-19.78	Mu=-17.00		Mu=-0.00
As=8.52		As=8.52	As=8.52		As=8.52
As(r)=6.66		As(r)=8.37	As(r)=7.15		As(r)=6.44
Mu=5.29	Mu=11.00	Mu=6.59	Mu=3.40	Mu=0.00	Mu=0.92
As=8.52	As=8.52	As=8.52	As=8.52	As=8.52	As=8.52
As(r)=6.44	As(r)=6.44	As(r)=6.44	As(r)=6.44	As(r)=6.44	As(r)=6.44
Vu=8.28		Vu=-9.94	Vu=8.35		Vu=6.99

V319/CUB

B=0.30 H=0.70 L=12.79			B=0.30 H=0.70 L=2.55		
Mu=-4.02		Mu=-2.00	Mu=-1.05		Mu=-0.24
As=8.52		As=8.52	As=8.52		As=8.52
As(r)=6.53		As(r)=6.53	As(r)=6.53		As(r)=6.53
Mu=1.34	Mu=1.26	Mu=0.99	Mu=0.21	Mu=1.12	Mu=0.21
As=8.52	As=8.52	As=8.52	As=8.52	As=8.52	As=8.52
As(r)=6.53	As(r)=6.53	As(r)=6.53	As(r)=6.53	As(r)=6.53	As(r)=6.53
Vu=-4.52		Vu=2.91	Vu=-2.83		Vu=1.11

V320/CUB

B=0.30 H=0.70 L=2.55			B=0.30 H=0.70 L=12.77		
Mu=-4.30		Mu=-1.11	Mu=-0.57		Mu=-0.67
As=8.52		As=8.52	As=8.52		As=8.52
As(r)=6.53		As(r)=6.53	As(r)=6.53		As(r)=6.53
Mu=1.43	Mu=1.49	Mu=1.11	Mu=1.03	Mu=1.15	Mu=0.97
As=8.52	As=8.52	As=8.52	As=8.52	As=8.52	As=8.52
As(r)=6.53	As(r)=6.53	As(r)=6.53	As(r)=6.53	As(r)=6.53	As(r)=6.53
Vu=-4.94		Vu=-1.21	Vu=-1.21		Vu=1.41

VTC09/NE+0.08

B=0.20 H=0.60 L=5.25		B=0.20 H=0.60 L=5.25	
MU=-9.44 As =5.97 As(r)=4.69	MU=-12.11 As =8.52 As(r)=6.11	MU=-12.03 As =8.52 As(r)=6.07	MU=-9.98 As =5.97 As(r)=4.97
Mu=3.15 As =5.97 As(r)=3.70	Mu=7.49 As =5.97 As(r)=3.86	Mu=4.04 As =5.97 As(r)=3.70	Mu=4.01 As =5.97 As(r)=3.70
Mu=7.48 As =5.97 As(r)=3.84	Mu=3.33 As =5.97 As(r)=3.70		
Vu=-10.24	Vu=11.78	Vu=-11.75	Vu=10.35

VTC10/NE+0.08

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25	
MU=-0.00 As =2.58 As(r)=2.28	MU=-7.78 As =5.16 As(r)=4.88	MU=-7.78 As =5.16 As(r)=4.88	MU=-0.00 As =2.58 As(r)=2.28
Mu=1.33 As =3.98 As(r)=2.28	Mu=4.42 As =3.98 As(r)=3.05	Mu=1.56 As =3.98 As(r)=2.28	Mu=1.56 As =3.98 As(r)=2.28
Mu=4.42 As =3.98 As(r)=3.05	Mu=1.33 As =3.98 As(r)=2.28	Mu=4.42 As =3.98 As(r)=3.05	Mu=1.33 As =3.98 As(r)=2.28
Vu=4.09	Vu=-7.56	Vu=7.56	Vu=-4.09

VTC11/NE+0.08

B=0.20 H=0.50 L=5.25		B=0.20 H=0.50 L=5.25	
MU=-0.00 As =3.87 As(r)=3.04	MU=-14.01 As =11.42 As(r)=9.12	MU=-16.43 As =11.42 As(r)=10.99	MU=-0.00 As =3.87 As(r)=3.04
Mu=4.13 As =8.52 As(r)=6.22	Mu=16.29 As =12.15 As(r)=11.66	Mu=2.80 As =5.97 As(r)=3.04	Mu=3.29 As =5.97 As(r)=3.04
Mu=12.15 As =8.52 As(r)=6.22	Mu=2.80 As =5.97 As(r)=3.04	Mu=1.00 As =12.15 As(r)=3.04	Mu=3.12 As =5.97 As(r)=3.04
Vu=12.71	Vu=-19.63	Vu=9.95	Vu=-3.28

VT112/NE+3.68

B=0.20 H=0.60 L=5.25		B=0.20 H=0.60 L=5.25	
MU=-0.00 As =3.87 As(r)=3.70	MU=-8.63 As =4.57 As(r)=4.27	MU=-8.63 As =4.57 As(r)=4.27	MU=-0.00 As =3.87 As(r)=3.70
Mu=1.19 As =3.87 As(r)=3.70	Mu=4.96 As =3.87 As(r)=3.70	Mu=1.73 As =3.87 As(r)=3.70	Mu=1.73 As =3.87 As(r)=3.70
Mu=4.96 As =3.87 As(r)=3.70	Mu=1.19 As =3.87 As(r)=3.70	Mu=4.96 As =3.87 As(r)=3.70	Mu=1.19 As =3.87 As(r)=3.70
Vu=4.75	Vu=-8.48	Vu=8.48	Vu=-4.75

VT113/NE+3.68

B=0.15 H=0.50 L=5.25		B=0.15 H=0.50 L=5.25	
MU=-0.00 As =2.58 As(r)=2.28	MU=-8.63 As =5.68 As(r)=5.47	MU=-8.63 As =5.68 As(r)=5.47	MU=-0.00 As =2.58 As(r)=2.28
Mu=1.19 As =3.98 As(r)=2.28	Mu=4.96 As =3.98 As(r)=3.42	Mu=1.73 As =3.98 As(r)=2.28	Mu=1.73 As =3.98 As(r)=2.28
Mu=4.96 As =3.98 As(r)=3.42	Mu=1.19 As =3.98 As(r)=2.28	Mu=4.96 As =3.98 As(r)=3.42	Mu=1.19 As =3.98 As(r)=2.28
Vu=4.75	Vu=-8.48	Vu=8.48	Vu=-4.75

VT114/NE+3.68

B=0.15 H=0.50 L=5.00		B=0.15 H=0.50 L=4.65	
MU=-0.00 As =2.58 As(r)=2.28	MU=-7.27 As =5.68 As(r)=4.53	MU=-7.35 As =5.68 As(r)=4.58	MU=-0.00 As =2.58 As(r)=2.28
Mu=1.15 As =3.98 As(r)=2.28	Mu=4.82 As =3.98 As(r)=3.25	MU=1.45 As =3.98 As(r)=2.28	Mu=3.64 As =3.98 As(r)=2.53
Vu=4.62	Vu=-7.98	Vu=7.66	Vu=-4.06

VT115/NE+3.68

B=0.15 H=0.50 L=1.15		B=0.15 H=0.50 L=5.25	
MU=-0.00 As =2.58 As(r)=2.28	MU=-1.67 As =2.58 As(r)=2.28	MU=-0.63 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28
Mu=0.00 As =2.99 As(r)=2.28	Mu=0.00 As =12.15 As(r)=2.28	MU=0.33 As =3.98 As(r)=2.28	Mu=0.13 As =3.98 As(r)=2.28
Vu=0.00	Vu=-2.90	Vu=7.03	Vu=-6.20

VT116/NE+3.68

B=0.20 H=0.50 L=5.25		B=0.20 H=0.50 L=5.25	
MU=-0.00 As =3.87 As(r)=3.04	MU=-13.66 As =12.15 As(r)=8.86	MU=-16.05 As =12.15 As(r)=10.69	MU=-0.00 As =3.87 As(r)=3.04
Mu=3.24 As =12.15 As(r)=5.70	Mu=16.01 As =12.15 As(r)=11.33	MU=2.73 As =3.87 As(r)=3.04	Mu=3.21 As =3.87 As(r)=3.04
Vu=12.95	Vu=-19.39	Vu=9.83	Vu=-3.40

VT117/NE+3.68

B=0.20 H=0.60 L=5.25	
MU=-0.00 As =3.87 As(r)=3.70	MU=-0.00 As =3.87 As(r)=3.70
Mu=1.65 As =5.97 As(r)=3.70	Mu=10.34 As =5.97 As(r)=5.16
Vu=6.61	Vu=-6.62

VT118/NE+3.68

B=0.20 H=0.60 L=5.25	
MU=-0.00 As =3.87 As(r)=3.70	MU=-0.00 As =3.87 As(r)=3.70
Mu=1.65 As =5.97 As(r)=3.70	Mu=10.34 As =5.97 As(r)=5.16
Vu=6.61	Vu=-6.62

VT211/NE+7.28

B=0.15 H=0.50 L=4.70	
Mu=-0.00 As =2.58 As(r)=2.23	Mu=-0.00 As =2.58 As(r)=2.23
Mu=0.00 As =3.98 As(r)=2.23	Mu=9.53 As =6.27 As(r)=6.09
Vu=7.48	Vu=-7.48

VT212/NE+7.28

B=0.15 H=0.50 L=4.70		
MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28	
Mu=1.74 As =5.68 As(r)=3.30	Mu=11.96 As =8.04 As(r)=7.95	MU=1.74 As =5.68 As(r)=3.30
Vu=8.69	Vu=-8.69	

VT312/CUB

B=0.15 H=0.50 L=2.59			B=0.15 H=0.50 L=5.22			B=0.15 H=0.50 L=8.26		
MU=-0.00 As =5.68 As(r)=2.28	MU=-7.98 As =5.68 As(r)=5.02		MU=-8.36 As =5.68 As(r)=5.29	MU=-14.29 As =10.87 As(r)=9.89		MU=-13.51 As =10.87 As(r)=9.22	MU=-0.00 As =2.58 As(r)=2.28	
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=1.60 As =2.58 As(r)=2.28	Mu=2.86 As =2.58 As(r)=2.28	Mu=2.86 As =2.58 As(r)=2.28	Mu=4.76 As =7.74 As(r)=2.88	Mu=2.70 As =7.74 As(r)=7.10	Mu=14.46 As =13.42 As(r)=11.83	Mu=1.98 As =7.74 As(r)=7.10
Vu=0.00	Vu=-6.16	Vu=5.08	Vu=-7.35	Vu=11.69	Vu=-7.97			

VT313/CUB

B=0.15 H=0.50 L=2.73			B=0.15 H=0.50 L=3.24			B=0.15 H=0.50 L=6.27		
MU=-0.00 As =5.68 As(r)=2.28	MU=-8.87 As =8.04 As(r)=5.64		MU=-9.58 As =8.04 As(r)=6.16	MU=-7.60 As =5.68 As(r)=4.76		MU=-6.61 As =5.68 As(r)=4.09	MU=-0.00 As =2.58 As(r)=2.28	
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=1.77 As =2.58 As(r)=2.28	Mu=3.19 As =2.58 As(r)=2.28	Mu=1.92 As =2.58 As(r)=2.28	Mu=2.53 As =2.58 As(r)=2.28	Mu=1.32 As =2.58 As(r)=2.28	Mu=9.10 As =7.96 As(r)=6.05	Mu=1.42 As =2.58 As(r)=2.28
Vu=0.00	Vu=-6.50	Vu=4.47	Vu=-3.25	Vu=8.74	Vu=-6.18			

VT314/CUB

B=0.15 H=0.50 L=2.73			B=0.15 H=0.50 L=1.03			B=0.15 H=0.50 L=4.13		
MU=-0.00 As =5.68 As(r)=2.28	MU=-8.72 As =5.68 As(r)=5.54		MU=-8.93 As =5.68 As(r)=5.69	MU=-4.22 As =5.68 As(r)=2.77		MU=-2.60 As =5.68 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28	
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=1.74 As =2.58 As(r)=2.28	Mu=2.98 As =2.58 As(r)=2.28	Mu=1.79 As =2.58 As(r)=2.28	Mu=0.52 As =2.58 As(r)=2.28	Mu=4.14 As =2.58 As(r)=2.28	Mu=0.90 As =2.58 As(r)=2.28	
Vu=0.00	Vu=-6.39	Vu=5.78	Vu=3.37	Vu=5.68	Vu=-3.99			

VT315/CUB

B=0.15 H=0.50 L=1.71			B=0.15 H=0.50 L=0.21			B=0.15 H=0.50 L=0.69		
MU=-0.00 As =2.58 As(r)=2.28	MU=-3.36 As =2.58 As(r)=2.28		MU=-3.22 As =2.58 As(r)=2.28	MU=-2.28 As =2.58 As(r)=2.28		MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28	
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.67 As =2.58 As(r)=2.28	Mu=1.07 As =2.58 As(r)=2.28	Mu=0.64 As =2.58 As(r)=2.28	Mu=0.76 As =2.58 As(r)=2.28	Mu=0.85 As =2.58 As(r)=2.28	Mu=0.73 As =2.58 As(r)=2.28	Mu=0.34 As =2.58 As(r)=2.28
Vu=0.00	Vu=-3.93	Vu=4.73	Vu=4.25	Vu=0.06	Vu=-1.53			

VT316/CUB

B=0.15 H=0.50 L=6.27			B=0.15 H=0.50 L=2.03		
MU=-0.00 As =2.58 As(r)=2.28	MU=-9.24 As =6.34 As(r)=5.91		MU=-9.61 As =6.34 As(r)=6.18	MU=-0.14 As =6.34 As(r)=2.28	
Mu=1.33 As =2.58 As(r)=2.70	Mu=7.74 As =5.68 As(r)=5.26	Mu=1.85 As =2.58 As(r)=2.28	Mu=1.92 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28
Vu=5.78	Vu=-9.15	Vu=7.08	Vu=2.25		

VT317/CUB

B=0.15 H=0.50 L=4.08	
MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28
Mu=0.27 As =2.99 As(r)=2.28	Mu=5.81 As =3.98 As(r)=3.56
Vu=5.40	Vu=-5.33

VT319/CUB

B=0.15 H=0.50 L=2.15		B=0.15 H=0.50 L=2.16	
MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28
Mu=0.00 As =2.58 As(r)=2.28	Mu=1.46 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=1.46 As =2.58 As(r)=2.28
Vu=-2.41	Vu=2.41	Vu=-2.41	Vu=2.41

VT320/CUB

B=0.15 H=0.50 L=3.85	
MU=-0.00 As =2.58 As(r)=2.28	MU=-0.00 As =2.58 As(r)=2.28
Mu=1.04 As =2.58 As(r)=2.28	Mu=1.46 As =2.58 As(r)=2.28
Vu=-2.41	Vu=2.41

Reactions

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
19	31:CIM	-1.805	99.626	-6.041	0.000	0.000	0.000
	32:CIMX1	2.015	86.301	0.037	0.000	0.000	0.000
	33:CIMX2	-4.244	70.212	-5.224	0.000	0.000	0.000
	34:CIMX3	1.618	85.526	-3.880	0.000	0.000	0.000
	35:CIMX4	-4.641	69.438	-9.141	0.000	0.000	0.000
	36:CIMX5	0.290	81.578	2.740	0.000	0.000	0.000
	37:CIMX6	-1.596	76.731	1.155	0.000	0.000	0.000
	38:CIMX7	-1.030	79.007	-10.259	0.000	0.000	0.000
	39:CIMX8	-2.915	74.160	-11.844	0.000	0.000	0.000
	40:CIMX9	1.524	108.058	-1.452	0.000	0.000	0.000
	41:CIMX10	1.126	107.283	-5.368	0.000	0.000	0.000
	42:CIMX11	-4.735	91.969	-6.713	0.000	0.000	0.000
	43:CIMX12	-5.133	91.195	-10.629	0.000	0.000	0.000
	44:CIMX13	-0.202	103.335	1.251	0.000	0.000	0.000
	45:CIMX14	-1.521	100.764	-11.748	0.000	0.000	0.000
	46:CIMX15	-2.088	98.488	-0.334	0.000	0.000	0.000
	47:CIMX16	-3.407	95.917	-13.333	0.000	0.000	0.000
20	31:CIM	-1.745	99.376	6.628	0.000	0.000	0.000
	32:CIMX1	2.392	91.130	9.343	0.000	0.000	0.000
	33:CIMX2	-4.645	65.480	4.283	0.000	0.000	0.000
	34:CIMX3	2.086	90.030	5.444	0.000	0.000	0.000
	35:CIMX4	-4.951	64.380	0.384	0.000	0.000	0.000
	36:CIMX5	0.288	83.445	12.096	0.000	0.000	0.000
	37:CIMX6	-1.832	75.717	10.572	0.000	0.000	0.000
	38:CIMX7	-0.727	79.793	-0.845	0.000	0.000	0.000
	39:CIMX8	-2.847	72.065	-2.369	0.000	0.000	0.000
	40:CIMX9	1.926	112.752	11.107	0.000	0.000	0.000
	41:CIMX10	1.620	111.651	7.208	0.000	0.000	0.000
	42:CIMX11	-5.111	87.101	6.047	0.000	0.000	0.000
	43:CIMX12	-5.416	86.001	2.148	0.000	0.000	0.000
	44:CIMX13	-0.178	105.066	13.860	0.000	0.000	0.000
	45:CIMX14	-1.193	101.414	0.919	0.000	0.000	0.000
	46:CIMX15	-2.298	97.338	12.336	0.000	0.000	0.000
	47:CIMX16	-3.313	93.686	-0.605	0.000	0.000	0.000
28	31:CIM	2.737	98.191	2.567	0.000	0.000	0.000
	32:CIMX1	6.050	85.404	4.434	0.000	0.000	0.000
	33:CIMX2	-1.283	72.666	0.789	0.000	0.000	0.000
	34:CIMX3	5.556	82.288	2.019	0.000	0.000	0.000
	35:CIMX4	-1.776	69.550	-1.626	0.000	0.000	0.000
	36:CIMX5	4.060	84.567	5.961	0.000	0.000	0.000
	37:CIMX6	1.851	80.730	4.863	0.000	0.000	0.000
	38:CIMX7	2.423	74.224	-2.055	0.000	0.000	0.000
	39:CIMX8	0.214	70.387	-3.153	0.000	0.000	0.000
	40:CIMX9	6.649	106.118	5.598	0.000	0.000	0.000
	41:CIMX10	6.156	103.002	3.183	0.000	0.000	0.000
	42:CIMX11	-0.683	93.381	1.952	0.000	0.000	0.000
	43:CIMX12	-1.176	90.264	-0.463	0.000	0.000	0.000
	44:CIMX13	4.660	105.282	7.124	0.000	0.000	0.000
	45:CIMX14	3.023	94.939	-0.891	0.000	0.000	0.000
	46:CIMX15	2.450	101.444	6.026	0.000	0.000	0.000
	47:CIMX16	0.813	91.101	-1.990	0.000	0.000	0.000
30	31:CIM	-2.916	100.425	3.071	0.000	0.000	0.000
	32:CIMX1	1.968	87.104	4.550	0.000	0.000	0.000

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
	33:CIMX2	-5.943	76.531	1.083	0.000	0.000	0.000
	34:CIMX3	1.420	82.187	2.465	0.000	0.000	0.000
	35:CIMX4	-6.491	71.614	-1.002	0.000	0.000	0.000
	36:CIMX5	-0.160	89.111	5.756	0.000	0.000	0.000
	37:CIMX6	-2.544	85.926	4.711	0.000	0.000	0.000
	38:CIMX7	-1.979	72.792	-1.163	0.000	0.000	0.000
	39:CIMX8	-4.362	69.607	-2.208	0.000	0.000	0.000
	40:CIMX9	1.314	108.169	5.847	0.000	0.000	0.000
	41:CIMX10	0.766	103.253	3.762	0.000	0.000	0.000
	42:CIMX11	-6.597	97.596	2.379	0.000	0.000	0.000
	43:CIMX12	-7.145	92.680	0.295	0.000	0.000	0.000
	44:CIMX13	-0.815	110.177	7.052	0.000	0.000	0.000
	45:CIMX14	-2.633	93.858	0.134	0.000	0.000	0.000
	46:CIMX15	-3.198	106.991	6.008	0.000	0.000	0.000
	47:CIMX16	-5.017	90.672	-0.911	0.000	0.000	0.000
31	31:CIM	2.316	117.195	-7.067	0.000	0.000	0.000
	32:CIMX1	5.024	91.345	-1.122	0.000	0.000	0.000
	33:CIMX2	-1.317	79.513	-5.904	0.000	0.000	0.000
	34:CIMX3	4.677	88.771	-4.805	0.000	0.000	0.000
	35:CIMX4	-1.664	76.939	-9.587	0.000	0.000	0.000
	36:CIMX5	3.212	90.197	1.478	0.000	0.000	0.000
	37:CIMX6	1.302	86.632	0.037	0.000	0.000	0.000
	38:CIMX7	2.058	81.652	-10.746	0.000	0.000	0.000
	39:CIMX8	0.148	78.088	-12.187	0.000	0.000	0.000
	40:CIMX9	5.660	124.398	-2.835	0.000	0.000	0.000
	41:CIMX10	5.312	121.824	-6.518	0.000	0.000	0.000
	42:CIMX11	-0.681	112.566	-7.617	0.000	0.000	0.000
	43:CIMX12	-1.029	109.992	-11.300	0.000	0.000	0.000
	44:CIMX13	3.848	123.250	-0.235	0.000	0.000	0.000
	45:CIMX14	2.694	114.706	-12.459	0.000	0.000	0.000
	46:CIMX15	1.937	119.685	-1.676	0.000	0.000	0.000
	47:CIMX16	0.784	111.141	-13.900	0.000	0.000	0.000
32	31:CIM	3.530	123.447	11.063	0.000	0.000	0.000
	32:CIMX1	7.283	101.953	11.793	0.000	0.000	0.000
	33:CIMX2	-1.962	75.362	6.761	0.000	0.000	0.000
	34:CIMX3	6.862	100.424	8.067	0.000	0.000	0.000
	35:CIMX4	-2.383	73.833	3.036	0.000	0.000	0.000
	36:CIMX5	4.541	94.437	14.355	0.000	0.000	0.000
	37:CIMX6	1.755	86.425	12.839	0.000	0.000	0.000
	38:CIMX7	3.145	89.361	1.990	0.000	0.000	0.000
	39:CIMX8	0.359	81.349	0.474	0.000	0.000	0.000
	40:CIMX9	8.363	137.507	15.442	0.000	0.000	0.000
	41:CIMX10	7.942	135.978	11.716	0.000	0.000	0.000
	42:CIMX11	-0.883	110.916	10.410	0.000	0.000	0.000
	43:CIMX12	-1.303	109.387	6.685	0.000	0.000	0.000
	44:CIMX13	5.621	129.991	18.004	0.000	0.000	0.000
	45:CIMX14	4.225	124.915	5.638	0.000	0.000	0.000
	46:CIMX15	2.835	121.979	16.488	0.000	0.000	0.000
	47:CIMX16	1.439	116.903	4.122	0.000	0.000	0.000
33	31:CIM	2.409	123.613	-4.274	0.000	0.000	0.000
	32:CIMX1	8.448	103.474	1.135	0.000	0.000	0.000
	33:CIMX2	-4.072	83.533	-2.919	0.000	0.000	0.000
	34:CIMX3	7.897	99.979	-1.254	0.000	0.000	0.000

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
	35:CIMX4	-4.623	80.038	-5.307	0.000	0.000	0.000
	36:CIMX5	4.714	100.560	2.489	0.000	0.000	0.000
	37:CIMX6	0.942	94.552	1.268	0.000	0.000	0.000
	38:CIMX7	2.884	88.960	-5.440	0.000	0.000	0.000
	39:CIMX8	-0.888	82.952	-6.661	0.000	0.000	0.000
	40:CIMX9	8.944	135.331	-1.052	0.000	0.000	0.000
	41:CIMX10	8.393	131.836	-3.441	0.000	0.000	0.000
	42:CIMX11	-3.576	115.390	-5.106	0.000	0.000	0.000
	43:CIMX12	-4.127	111.896	-7.495	0.000	0.000	0.000
	44:CIMX13	5.210	132.417	0.302	0.000	0.000	0.000
	45:CIMX14	3.380	120.818	-7.628	0.000	0.000	0.000
	46:CIMX15	1.438	126.409	-0.920	0.000	0.000	0.000
	47:CIMX16	-0.392	114.810	-8.849	0.000	0.000	0.000
34	31:CIM	-3.138	99.752	-3.409	0.000	0.000	0.000
	32:CIMX1	4.884	88.981	0.824	0.000	0.000	0.000
	33:CIMX2	-9.147	72.074	-2.835	0.000	0.000	0.000
	34:CIMX3	4.274	85.503	-1.311	0.000	0.000	0.000
	35:CIMX4	-9.757	68.597	-4.970	0.000	0.000	0.000
	36:CIMX5	0.688	87.106	2.022	0.000	0.000	0.000
	37:CIMX6	-3.539	82.013	0.919	0.000	0.000	0.000
	38:CIMX7	-1.334	75.564	-5.065	0.000	0.000	0.000
	39:CIMX8	-5.561	70.471	-6.168	0.000	0.000	0.000
	40:CIMX9	4.183	109.944	-0.511	0.000	0.000	0.000
	41:CIMX10	3.573	106.466	-2.647	0.000	0.000	0.000
	42:CIMX11	-9.849	93.037	-4.171	0.000	0.000	0.000
	43:CIMX12	-10.458	89.560	-6.306	0.000	0.000	0.000
	44:CIMX13	-0.013	108.070	0.686	0.000	0.000	0.000
	45:CIMX14	-2.035	96.528	-6.401	0.000	0.000	0.000
	46:CIMX15	-4.240	102.976	-0.416	0.000	0.000	0.000
	47:CIMX16	-6.263	91.434	-7.503	0.000	0.000	0.000
35	31:CIM	-0.775	162.401	-8.166	0.000	0.000	0.000
	32:CIMX1	11.225	125.175	-1.907	0.000	0.000	0.000
	33:CIMX2	-11.287	120.796	-3.588	0.000	0.000	0.000
	34:CIMX3	10.254	123.416	-4.247	0.000	0.000	0.000
	35:CIMX4	-12.258	119.037	-5.927	0.000	0.000	0.000
	36:CIMX5	4.487	125.684	0.219	0.000	0.000	0.000
	37:CIMX6	-2.296	124.365	-0.287	0.000	0.000	0.000
	38:CIMX7	1.263	119.847	-7.547	0.000	0.000	0.000
	39:CIMX8	-5.520	118.527	-8.054	0.000	0.000	0.000
	40:CIMX9	10.967	165.470	-6.156	0.000	0.000	0.000
	41:CIMX10	9.995	163.711	-8.495	0.000	0.000	0.000
	42:CIMX11	-11.546	161.091	-7.836	0.000	0.000	0.000
	43:CIMX12	-12.517	159.332	-10.176	0.000	0.000	0.000
	44:CIMX13	4.228	165.979	-4.029	0.000	0.000	0.000
	45:CIMX14	1.004	160.142	-11.796	0.000	0.000	0.000
	46:CIMX15	-2.555	164.660	-4.536	0.000	0.000	0.000
	47:CIMX16	-5.779	158.822	-12.302	0.000	0.000	0.000
38	31:CIM	-0.653	149.517	9.111	0.000	0.000	0.000
	32:CIMX1	5.075	108.980	8.257	0.000	0.000	0.000
	33:CIMX2	-5.429	107.124	6.550	0.000	0.000	0.000
	34:CIMX3	4.592	106.567	5.803	0.000	0.000	0.000
	35:CIMX4	-5.912	104.710	4.095	0.000	0.000	0.000
	36:CIMX5	1.966	111.131	10.507	0.000	0.000	0.000

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (Mton)	FY (Mton)	FZ (Mton)	MX (MTon·m)	MY (MTon·m)	MZ (MTon·m)
	37:CIMX6	-1.199	110.571	9.992	0.000	0.000	0.000
	38:CIMX7	0.361	103.119	2.360	0.000	0.000	0.000
	39:CIMX8	-2.803	102.560	1.846	0.000	0.000	0.000
	40:CIMX9	4.840	151.652	11.192	0.000	0.000	0.000
	41:CIMX10	4.357	149.239	8.737	0.000	0.000	0.000
	42:CIMX11	-5.664	149.795	9.484	0.000	0.000	0.000
	43:CIMX12	-6.147	147.382	7.030	0.000	0.000	0.000
	44:CIMX13	1.731	153.802	13.441	0.000	0.000	0.000
	45:CIMX14	0.127	145.791	5.295	0.000	0.000	0.000
	46:CIMX15	-1.434	153.243	12.927	0.000	0.000	0.000
	47:CIMX16	-3.038	145.232	4.781	0.000	0.000	0.000
39	31:CIM	0.013	126.603	-7.163	0.000	0.000	0.000
	32:CIMX1	4.410	96.653	-3.052	0.000	0.000	0.000
	33:CIMX2	-3.948	92.736	-4.787	0.000	0.000	0.000
	34:CIMX3	3.955	94.493	-5.514	0.000	0.000	0.000
	35:CIMX4	-4.403	90.576	-7.248	0.000	0.000	0.000
	36:CIMX5	2.018	97.790	-0.804	0.000	0.000	0.000
	37:CIMX6	-0.500	96.610	-1.327	0.000	0.000	0.000
	38:CIMX7	0.507	90.620	-8.974	0.000	0.000	0.000
	39:CIMX8	-2.011	89.440	-9.496	0.000	0.000	0.000
	40:CIMX9	4.419	129.641	-5.065	0.000	0.000	0.000
	41:CIMX10	3.964	127.481	-7.526	0.000	0.000	0.000
	42:CIMX11	-3.938	125.724	-6.800	0.000	0.000	0.000
	43:CIMX12	-4.393	123.564	-9.261	0.000	0.000	0.000
	44:CIMX13	2.027	130.778	-2.817	0.000	0.000	0.000
	45:CIMX14	0.517	123.608	-10.986	0.000	0.000	0.000
	46:CIMX15	-0.491	129.598	-3.340	0.000	0.000	0.000
	47:CIMX16	-2.001	122.428	-11.509	0.000	0.000	0.000
42	31:CIM	-0.036	154.614	3.716	0.000	0.000	0.000
	32:CIMX1	6.736	120.408	3.477	0.000	0.000	0.000
	33:CIMX2	-5.847	118.170	1.875	0.000	0.000	0.000
	34:CIMX3	5.817	118.454	1.193	0.000	0.000	0.000
	35:CIMX4	-6.767	116.215	-0.409	0.000	0.000	0.000
	36:CIMX5	3.407	121.892	5.566	0.000	0.000	0.000
	37:CIMX6	-0.385	121.218	5.084	0.000	0.000	0.000
	38:CIMX7	0.354	115.406	-2.015	0.000	0.000	0.000
	39:CIMX8	-3.437	114.731	-2.498	0.000	0.000	0.000
	40:CIMX9	6.716	156.710	5.659	0.000	0.000	0.000
	41:CIMX10	5.796	154.756	3.375	0.000	0.000	0.000
	42:CIMX11	-5.868	154.472	4.057	0.000	0.000	0.000
	43:CIMX12	-6.788	152.517	1.773	0.000	0.000	0.000
	44:CIMX13	3.386	158.194	7.748	0.000	0.000	0.000
	45:CIMX14	0.333	151.708	0.166	0.000	0.000	0.000
	46:CIMX15	-0.405	157.520	7.265	0.000	0.000	0.000
	47:CIMX16	-3.458	151.033	-0.316	0.000	0.000	0.000



JARDÍN INFANTIL CAMPO VERDE.

GENERALES

CNI INGENIEROS CONSULTORES SAS.
Bogotá D.C., 28 junio de 2018

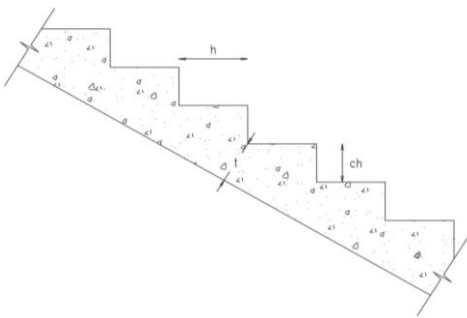
ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: JARDIN CAMPO VERDE

CALCULO:

RCR

ESCALERA Escalera E1



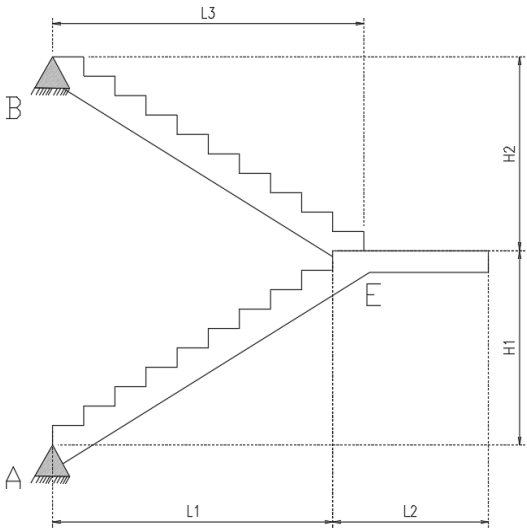
h=	0.28 m
ch=	0.18 m
t=	0.15 m

CARGAS

PESO PLACA MACIZA	425 Kg/m ²			
PESO PELDAÑOS	178 Kg/m ²			
CARGAS SOBREIMPUESTAS				[Kg/m ²]
* ACABADOS				150
C. MUERTA	603	Kg/m ²	+	150 Kg/m ²
C. VIVA	500	Kg/m ²		
C. TOTAL =				1253 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =				1703 Kg/m ²
Factor de Carga, F.C.=				1.36

DISEÑO DE LA LOSA

Segun Esquema de Analisis:



Materiales	
* f'c (kg/cm ²)	280
* fy (kg/cm ²)	4200

Solicitaciones	
Wu (Ton/m2)	1.70
L 1(m)	2.47
L 2(m)	1.47
L 3(m)	2.47
H1(m)	1.84
H2(m)	1.76
MAE (Ton-m/m)	1.01
MBE (Ton-m/m)	0.98
ME (Ton-m/m)	1.84
Vu (Ton/m)	2.62

Chequeo a cortante	
b (m)	1.20
c (m)	0.03
d (m)	0.12
ΦVc (Ton/m)	9.72
Cumple	OK

Diseño a flexión

Tramo A-E		Tramo B-E		Nodo E	
Mu (Ton-m/m)	1.01	Mu (Ton-m/m)	0.98	Mu (Ton-m/m)	1.84
ρ	0.0016	ρ	0.0015	ρ	0.0029
ρmin	0.0018	ρmin	0.0018	ρmin	0.0018
As (cm ² /m)	3.24	As (cm ² /m)	3.24	As (cm ² /m)	4.16
barras No.4 c/a	25	barras No.4 c/a	25	barras No.4 c/a	25

Diseño a torsión

Mtor (Ton-m/m)	0.86	Ao(cm ²)	183.6	ph (cm)	66
b'(cm)	30	Flejes No	3	At(cm ²)	0.71
h' (m)	15	Separación (cm)	10	Al(cm ²)	4.70
c (cm)	3	ΦTn (Ton-m/m)	0.82	Barras no 4 Requeridas:	4
Aoh(cm ²)	216	Cumple?	NO		

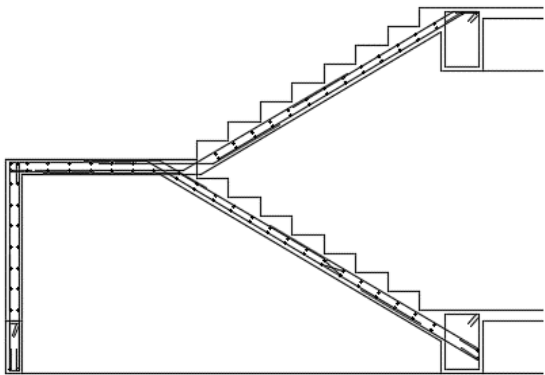
ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: JARDIN CAMPO VERDE

CALCULO:

RCR

ESCALERA Escalera E2



h=	0.28 m
ch=	0.18 m
t=	0.15 m

CARGAS

PESO PLACA MACIZA

425 Kg/m²

PESO PELDAÑOS

178 Kg/m²

CARGAS SOBREIMPUESTAS

[Kg/m²]

* ACABADOS

150

C. MUERTA

603

Kg/m²

+

150

Kg/m²

C. VIVA

500

Kg/m²

C. TOTAL =

1253 Kg/m²

C. ULTIMA = 1.2 CM + 1.6 CV =

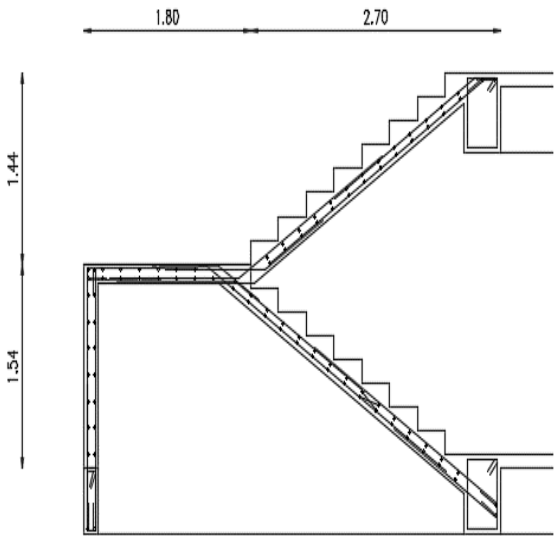
1703 Kg/m²

Factor de Carga, F.C.=

1.36

DISEÑO DE LA LOSA

Segun Esquema de Analisis:



Materiales

* f'c (kg/cm ²)	280
* fy (kg/cm ²)	4200

Solicitaciones

Wu (Ton/m2)	1.70
L 1(m)	2.30
L 2(m)	1.80
L 3(m)	2.30
H1(m)	1.54
H2(m)	1.44

Chequeo a cortante

b (m)	1.20
c (m)	0.03
d (m)	0.12
ΦVc (Ton/m)	3.49
Cumple	OK

Diseño a flexión

Tramo simplemente apoyado	
Mu (Ton-m/m)	3.58
ρ	0.0058
ρmin	0.0018
As (cm ² /m)	8.30
barras No.5 c/a	20

Diseño a torsión

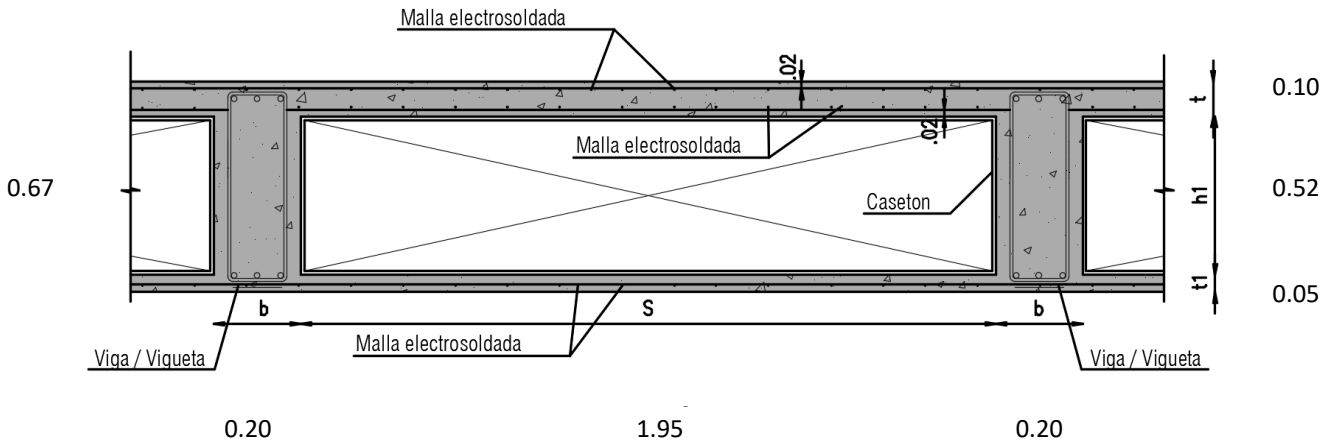
Mtor (Ton-m/m)	0.00	Ao(cm ²)	183.6	ph (cm)	66
b'(cm)	30	Flejes No	3	At(cm ²)	0.71
h' (m)	15	Separación (cm)	10	Al(cm ²)	4.70
c (cm)	3	ΦTn (Ton-m/m)	0.82	Barras no 4 Requeridas:	N/A
Aoh(cm ²)	216	Cumple?	N/A		

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: JARDIN CAMPO VERDE

CALCULÓ: JDH

PISO: CUB ENTRADA



CARGAS	[Kg/m ²]		[Kg/m ²]	
* PLACA	360			
* VIGUETAS	116			
* CASETON			25	
* ACABADOS			150	
* MUROS DIVISORIOS			0	
C. MUERTA	476	Kg/m ²	+	175 Kg/m ²
C. VIVA	180	Kg/m ²		
C. TOTAL =				831 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =				1069 Kg/m ²
Factor de Carga, F.C.=				1.29

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
q_u / Vigueta = 1069 x 2.15 = 2298.8 Kg/m

DISEÑO DE LA LOSA SUPERIOR			Materiales (kg/cm ²)			
C. MUERTA =	390.0	Kg/m ²	f'c =	280	b (cm) =	100
C. VIVA =	180.0	Kg/m ²	fy =	4200	d (cm) =	7
C. ULTIMA =	756.0	Kg/m ²				

Diseño a Flexión					
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	287.47	0.065	0.07	0.0018	1.80
M+	205.34	0.047	0.07	0.0012	1.80

Chequeo Cortante		
V _u (kg/m)	φV _c (kg/m)	Check
737.10	4656.01	Ok

DISEÑO DE LA LOSA INFERIOR			Materiales (kg/cm ²)			
C. MUERTA =	145.0	Kg/m ²	f'c =	280	b (cm) =	100
C. ULTIMA =	174.0	Kg/m ²	fy =	4200	d (cm) =	2.5

Diseño a Flexión					
	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	66.16	0.118	0.07	0.0032	0.90
M+	47.26	0.084	0.07	0.0023	0.90

Chequeo Cortante		
V _u (kg/m)	φV _c (kg/m)	Check
169.65	1662.86	Ok



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Nodes

Node	X (m)	Y (m)	Z (m)
1	-0.000	0.000	-2.200
2	6.000	0.000	-2.200
4	17.920	0.000	-2.200
5	6.000	0.000	0.000
7	17.920	0.000	0.000
8	-0.000	0.000	0.000
9	6.000	-3.600	-2.200
10	18.050	0.000	-2.200
11	-0.000	-3.600	-2.200
12	2.000	0.000	-2.200
13	2.000	0.000	0.000
14	4.000	0.000	-2.200
15	4.000	0.000	0.000
16	8.000	0.000	-2.200
17	8.000	0.000	0.000
18	10.000	0.000	-2.200
19	10.000	0.000	0.000
20	12.000	0.000	-2.200
21	12.000	0.000	0.000
22	14.000	0.000	-2.200
23	14.000	0.000	0.000
24	16.000	0.000	-2.200
25	16.000	0.000	0.000
26	-0.000	-3.600	0.000
27	-0.000	0.000	-4.350
28	-0.000	-3.600	-4.350
29	-0.000	0.000	-5.450

Beams

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1	1	12	2.000	2	0
2	2	16	2.000	2	0
4	5	2	2.200	6	0
6	7	4	2.200	3	0
7	8	13	2.000	3	0
8	5	17	2.000	3	0
10	9	2	3.600	5	0
11	4	10	0.130	2	0
12	11	1	3.600	4	0
13	8	1	2.200	6	0
14	12	14	2.000	2	0
15	13	15	2.000	3	0



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Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
16	13	12	2.200	3	0
17	14	2	2.000	2	0
18	15	5	2.000	3	0
19	15	14	2.200	3	0
20	16	18	2.000	2	0
21	17	19	2.000	3	0
22	17	16	2.200	3	0
23	18	20	2.000	2	0
24	19	21	2.000	3	0
25	19	18	2.200	3	0
26	20	22	2.000	2	0
27	21	23	2.000	3	0
28	21	20	2.200	3	0
29	22	24	2.000	2	0
30	23	25	2.000	3	0
31	23	22	2.200	3	0
32	24	4	1.920	2	0
33	25	7	1.920	3	0
34	25	24	2.200	3	0
36	26	8	3.600	4	0
37	28	27	3.600	4	0
38	1	27	2.150	6	0
39	29	27	1.100	6	0

Section Properties

Prop	Section	Area (cm ²)	I_{yy} (cm ⁴)	I_{zz} (cm ⁴)	J (cm ⁴)	Material
2	Rect 1.03x0.40	4.12E+3	549E+3	3.64E+6	1.66E+6	CONCRETE
3	Rect 0.67x0.20	1.34E+3	44.7E+3	501E+3	145E+3	CONCRETE
4	Rect 0.40x0.40	1.6E+3	213E+3	213E+3	360E+3	CONCRETE
5	PIPE	101.952	12.5E+3	12.5E+3	25.1E+3	STEEL
6	Rect 0.60x0.40	2.4E+3	320E+3	720E+3	751E+3	CONCRETE

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	10.000	10.000	10.000	10.000	DIAFRAGMA



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Materials

Mat	Name	E (kN/mm ²)	ν	Density (kg/m ³)	α (/°C)
1	DIAFRAGMA	24.389	0.170	0.100	10E -6
2	STEEL	205.000	0.300	7.83E+3	12E -6
3	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
4	ALUMINUM	68.948	0.330	2.71E+3	23E -6
5	CONCRETE	24.396	0.170	2.4E+3	10E -6

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
5	DERX1	3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	0.80
6	DERX2	3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	-0.80
7	DERZ1	3	DEAD	1.20
		4	LIVE	1.00
		2	EQZ	0.80
8	DERZ2	3	DEAD	1.20
		4	LIVE	1.00
		2	EQZ	-0.80
9	DERX3	3	DEAD	0.90
		1	EQX	0.80
10	DERX4	3	DEAD	0.90
		1	EQX	-0.80
11	DERZ3	3	DEAD	0.90
		2	EQZ	0.80
12	DERZ4	3	DEAD	0.90
		2	EQZ	-0.80
13	COM1	3	DEAD	1.40
14	COM2	3	DEAD	1.20
		4	LIVE	1.60
15	COM3	3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	1.00
		2	EQZ	0.30
16	COM4	3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	1.00
		2	EQZ	-0.30
17	COM5	3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	-1.00



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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
18	COM6	2	EQZ	-0.30
		3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	-1.00
		2	EQZ	0.30
		3	DEAD	1.20
19	COM7	4	LIVE	1.00
		1	EQX	0.30
		2	EQZ	1.00
		3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	0.30
20	COM8	2	EQZ	1.00
		3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	0.30
		2	EQZ	-1.00
		3	DEAD	1.20
21	COM9	4	LIVE	1.00
		1	EQX	-0.30
		2	EQZ	-1.00
		3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	-0.30
22	COM10	2	EQZ	1.00
		3	DEAD	1.20
		4	LIVE	1.00
		1	EQX	-0.30
		2	EQZ	1.00
		3	DEAD	0.90
23	COM11	4	LIVE	1.00
		1	EQX	0.30
		2	EQZ	0.30
		3	DEAD	0.90
		1	EQX	1.00
		2	EQZ	-0.30
24	COM12	3	DEAD	0.90
		4	LIVE	1.00
		1	EQX	-0.30
		2	EQZ	0.90
		3	DEAD	0.90
		4	LIVE	0.90
25	COM13	1	EQX	-1.00
		2	EQZ	-0.30
		3	DEAD	0.90
		4	LIVE	0.90
		1	EQX	-1.00
		2	EQZ	0.30
26	COM14	3	DEAD	0.90
		4	LIVE	0.90
		1	EQX	-1.00
		2	EQZ	0.30
		3	DEAD	0.90
		4	LIVE	0.90
27	COM15	1	EQX	0.30
		2	EQZ	1.00
		3	DEAD	0.90
		4	LIVE	0.90
		1	EQX	0.30
		2	EQZ	1.00
28	COM16	3	DEAD	0.90
		4	LIVE	0.90
		1	EQX	0.30
		2	EQZ	-1.00
		3	DEAD	0.90
		4	LIVE	0.90
29	COM17	1	EQX	-0.30
		2	EQZ	-1.00
		3	DEAD	0.90
		4	LIVE	0.90
		1	EQX	-0.30
		2	EQZ	-1.00
30	COM18	3	DEAD	0.90
		4	LIVE	0.90
		1	EQX	-0.30
		2	EQZ	1.00
		3	DEAD	0.90
		4	LIVE	0.90



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Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
31	CIM	3	DEAD	1.00
		4	LIVE	1.00
32	CIMX1	3	DEAD	1.00
		1	EQX	0.70
33	CIMX2	3	DEAD	1.00
		1	EQX	-0.70
34	CIMX3	3	DEAD	1.00
		4	LIVE	0.75
		1	EQX	0.21
35	CIMX4	3	DEAD	1.00
		4	LIVE	0.75
		1	EQX	-0.21
36	CIMX5	3	DEAD	0.60
		1	EQX	0.70
37	CIMX6	3	DEAD	0.60
		1	EQX	-0.70
38	CIMZ1	3	DEAD	1.00
		2	EQZ	0.70
39	CIMZ2	3	DEAD	1.00
		2	EQZ	-0.70
40	CIMZ3	3	DEAD	1.00
		4	LIVE	0.75
		2	EQZ	0.21
41	CIMZ4	3	DEAD	1.00
		4	LIVE	0.75
		2	EQZ	-0.21
42	CIMZ5	3	DEAD	0.60
		2	EQZ	0.70
43	CIMZ6	3	DEAD	0.60
		2	EQZ	-0.70

Load Generators*There is no data of this type.*



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Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
1	1	+ve	125.443	0.000	75.085	0.000	250.005	0.000
			19:COM7	-	28:COM1	-	22:COM1	-
			-79.397	-51.331	-114.957	-273.365	-157.927	-92.281
			29:COM1	19:COM7	22:COM1	19:COM7	28:COM1	19:COM7
	12	-ve	125.443	0.000	75.085	0.000	20.090	35.497
			19:COM7	-	28:COM1	-	22:COM1	22:COM1
			-79.397	-74.629	-114.957	-273.365	-7.757	0.000
			29:COM1	19:COM7	22:COM1	19:COM7	28:COM1	-
2	2	+ve	307.733	201.104	36.649	0.000	0.000	376.324
			19:COM7	13:COM1	21:COM9	-	-	14:COM2
			-191.807	0.000	-17.967	-263.221	-37.857	0.000
			29:COM1	-	27:COM1	14:COM2	14:COM2	-
	16	-ve	307.733	176.933	36.649	0.000	40.861	2.460
			19:COM7	14:COM2	21:COM9	-	29:COM1	28:COM1
			-191.807	0.000	-17.967	-263.221	-61.621	-2.647
			29:COM1	-	27:COM1	14:COM2	19:COM7	22:COM1
4	5	+ve	13.601	0.000	71.728	106.955	35.842	0.000
			21:COM9	-	22:COM1	19:COM7	28:COM1	-
			-1.255	-49.030	-51.462	0.000	-49.958	-7.188
			27:COM1	21:COM9	28:COM1	-	22:COM1	19:COM7
	2	-ve	13.601	0.000	71.728	106.955	107.843	158.778
			21:COM9	-	22:COM1	19:COM7	22:COM1	21:COM9
			-1.255	-99.427	-51.462	0.000	-77.374	0.000
			27:COM1	21:COM9	28:COM1	-	28:COM1	-
6	7	+ve	28.282	0.000	3.366	8.225	1.005	0.000
			29:COM1	-	20:COM8	14:COM2	30:COM1	-
			-37.954	-25.511	-0.839	0.000	-3.308	-9.436
			19:COM7	14:COM2	30:COM1	-	20:COM8	14:COM2
	4	-ve	28.282	0.000	3.366	8.225	4.097	77.928
			29:COM1	-	20:COM8	14:COM2	20:COM8	14:COM2
			-37.954	-53.911	-0.839	0.000	-0.842	0.000
			19:COM7	14:COM2	30:COM1	-	30:COM1	-
7	8	+ve	53.166	90.570	13.381	0.000	30.695	183.851
			25:COM1	19:COM7	29:COM1	-	19:COM7	19:COM7
			-54.561	0.000	-23.797	-22.112	-17.313	0.000
			15:COM3	-	19:COM7	14:COM2	29:COM1	-
	13	-ve	53.166	82.992	13.381	0.000	9.449	17.392
			25:COM1	19:COM7	29:COM1	-	29:COM1	21:COM9
			-54.561	0.000	-23.797	-22.112	-16.900	0.000
			15:COM3	-	19:COM7	14:COM2	19:COM7	-



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
8	5	+ve	138.191	52.194	14.106	0.000	14.723	85.293
			29:COM1	14:COM2	21:COM9	-	30:COM1	21:COM9
			-201.701	0.000	-13.741	-19.522	-16.218	0.000
			19:COM7	-	27:COM1	19:COM7	20:COM8	-
	17	-ve	138.191	44.616	14.106	0.000	12.160	0.000
			29:COM1	14:COM2	21:COM9	-	29:COM1	-
			-201.701	0.000	-13.741	-19.522	-12.925	-29.168
			19:COM7	-	27:COM1	19:COM7	19:COM7	19:COM7
10	9	+ve	462.247	0.000	62.540	0.000	0.000	0.000
			14:COM2	-	21:COM9	19:COM7	20:COM8	-
			0.000	-4.991	0.000	-0.000	-0.000	-0.000
			-	17:COM5	-	29:COM1	30:COM1	18:COM6
	2	-ve	458.864	0.000	62.540	0.000	225.144	17.968
			14:COM2	-	21:COM9	19:COM7	21:COM9	17:COM5
			0.000	-4.991	0.000	-0.000	0.000	0.000
			-	17:COM5	-	29:COM1	-	-
11	4	+ve	270.930	0.000	138.115	0.000	15.580	0.000
			15:COM3	-	22:COM1	-	28:COM1	-
			-223.104	-202.314	-119.844	-0.000	-17.955	-26.399
			25:COM1	14:COM2	28:COM1	13:COM1	22:COM1	14:COM2
	10	-ve	270.930	0.000	138.115	0.000	0.000	0.000
			15:COM3	-	22:COM1	-	23:COM1	-
			-223.104	-203.828	-119.844	-0.000	-0.000	-0.000
			25:COM1	14:COM2	28:COM1	13:COM1	17:COM5	14:COM2
12	11	+ve	10.584	0.940	46.695	0.000	0.000	0.000
			29:COM1	27:COM1	29:COM1	29:COM1	22:COM1	28:COM1
			-5.790	-1.052	-57.414	-0.000	-0.000	-0.000
			19:COM7	21:COM9	19:COM7	19:COM7	28:COM1	22:COM1
	1	-ve	0.000	0.940	46.695	0.000	168.103	3.789
			-	27:COM1	29:COM1	29:COM1	29:COM1	21:COM9
			-22.076	-1.052	-57.414	-0.000	-206.691	-3.384
			19:COM7	21:COM9	19:COM7	19:COM7	19:COM7	27:COM1
13	8	+ve	25.582	225.599	18.192	94.782	0.000	231.016
			29:COM1	19:COM7	15:COM3	19:COM7	-	19:COM7
			-29.305	-64.253	0.000	0.000	-16.592	-128.665
			19:COM7	29:COM1	-	-	15:COM3	29:COM1
	1	-ve	25.582	192.936	18.192	94.782	23.431	36.434
			29:COM1	19:COM7	15:COM3	19:COM7	15:COM3	29:COM1
			-29.305	-85.837	0.000	0.000	0.000	-229.373
			19:COM7	29:COM1	-	-	-	19:COM7



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
14	12	+ve	175.803	0.000	43.891	0.000	74.302	10.500
			19:COM7	-	28:COM1f	-	22:COM1f	17:COM5
			-109.107	-75.658	-80.671	-310.499	-37.598	0.000
			29:COM1f	14:COM2	22:COM1f	19:COM7	28:COM1f	-
	14	-ve	175.803	0.000	43.891	0.000	50.937	181.856
			19:COM7	-	28:COM1f	-	29:COM1f	14:COM2
			-109.107	-99.122	-80.671	-310.499	-87.794	0.000
			29:COM1f	13:COM1	22:COM1f	19:COM7	19:COM7	-
15	13	+ve	67.523	39.813	15.815	0.000	29.785	41.095
			29:COM1f	19:COM7	28:COM1f	-	22:COM1f	14:COM2
			-89.568	0.000	-29.323	-31.087	-16.176	0.000
			19:COM7	-	22:COM1f	19:COM7	28:COM1f	-
	15	-ve	67.523	32.235	15.815	0.000	15.490	1.975
			29:COM1f	19:COM7	28:COM1f	-	29:COM1f	29:COM1f
			-89.568	0.000	-29.323	-31.087	-28.897	-32.167
			19:COM7	-	22:COM1f	19:COM7	19:COM7	19:COM7
16	13	+ve	13.590	43.180	45.864	29.592	25.477	9.676
			28:COM1f	19:COM7	19:COM7	19:COM7	29:COM1f	19:COM7
			-16.682	0.000	-25.214	0.000	-46.536	-0.283
			22:COM1f	-	29:COM1f	-	19:COM7	29:COM1f
	12	-ve	13.590	2.449	45.864	29.592	54.364	0.000
			28:COM1f	27:COM1f	19:COM7	19:COM7	19:COM7	-
			-16.682	-12.027	-25.214	0.000	-29.993	-37.135
			22:COM1f	21:COM9	29:COM1f	-	29:COM1f	19:COM7
17	14	+ve	226.663	0.000	15.820	0.000	21.790	155.857
			19:COM7	-	28:COM1f	-	29:COM1f	14:COM2
			-138.768	-141.167	-54.128	-275.357	-33.768	0.000
			29:COM1f	14:COM2	22:COM1f	19:COM7	19:COM7	-
	2	-ve	226.663	0.000	15.820	0.000	52.717	461.489
			19:COM7	-	28:COM1f	-	29:COM1f	14:COM2
			-138.768	-164.465	-54.128	-275.357	-141.310	0.000
			29:COM1f	14:COM2	22:COM1f	19:COM7	19:COM7	-
18	15	+ve	89.902	28.297	15.374	0.000	19.163	14.886
			29:COM1f	19:COM7	28:COM1f	-	22:COM1f	21:COM9
			-133.146	0.000	-27.355	-26.710	-10.811	-5.118
			19:COM7	-	22:COM1f	19:COM7	28:COM1f	27:COM1f
	5	-ve	89.902	20.719	15.374	0.000	19.937	10.609
			29:COM1f	19:COM7	28:COM1f	-	28:COM1f	29:COM1f
			-133.146	-1.447	-27.355	-26.710	-35.547	-52.647
			19:COM7	29:COM1f	22:COM1f	19:COM7	22:COM1f	19:COM7



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
19	15	+ve	10.793	6.439	46.413	28.536	26.265	0.000
			21:COM9	21:COM9	22:COM10	19:COM7	28:COM10	-
			-9.266	0.000	-25.214	0.000	-48.025	-4.377
			27:COM10	-	28:COM10	-	22:COM10	19:COM7
	14	-ve	10.793	0.000	46.413	28.536	54.084	36.685
			21:COM9	-	22:COM10	19:COM7	22:COM10	14:COM2
			-9.266	-42.212	-25.214	0.000	-29.206	0.000
			27:COM10	14:COM2	28:COM10	-	28:COM10	-
20	16	+ve	317.540	135.630	17.661	0.000	26.996	0.000
			19:COM7	13:COM1	21:COM9	-	29:COM10	-
			-208.365	0.000	-4.881	-223.247	-55.931	-21.861
			29:COM10	-	27:COM10	14:COM2	19:COM7	22:COM10
	18	-ve	317.540	111.166	17.661	0.000	56.964	0.000
			19:COM7	14:COM2	21:COM9	-	29:COM10	-
			-208.365	0.000	-4.881	-223.247	-60.339	-266.345
			29:COM10	-	27:COM10	14:COM2	19:COM7	14:COM2
21	17	+ve	147.467	38.621	4.583	0.000	0.000	7.042
			29:COM10	14:COM2	21:COM9	-	-	29:COM10
			-204.226	0.000	0.000	-18.956	-6.960	-9.932
			19:COM7	-	-	14:COM2	22:COM10	19:COM7
	19	-ve	147.467	31.044	4.583	0.000	7.096	0.000
			29:COM10	14:COM2	21:COM9	-	21:COM9	-
			-204.226	0.000	0.000	-18.956	-2.007	-71.697
			19:COM7	-	-	14:COM2	27:COM10	14:COM2
22	17	+ve	5.788	5.995	6.724	19.876	14.070	1.170
			22:COM10	14:COM2	27:COM10	14:COM2	21:COM9	29:COM10
			0.000	0.000	-13.476	0.000	-7.391	-1.430
			-	-	21:COM9	-	27:COM10	19:COM7
	16	-ve	5.788	0.000	6.724	19.876	7.402	39.975
			22:COM10	-	27:COM10	14:COM2	27:COM10	14:COM2
			0.000	-42.469	-13.476	0.000	-15.576	0.000
			-	14:COM2	21:COM9	-	21:COM9	-
23	18	+ve	308.603	72.038	17.707	0.000	58.416	0.000
			19:COM7	13:COM1	22:COM10	-	29:COM10	-
			-211.540	0.000	-5.708	-189.076	-75.985	-284.214
			29:COM10	-	28:COM10	14:COM2	19:COM7	14:COM2
	20	-ve	308.603	47.017	17.707	0.000	48.461	0.000
			19:COM7	14:COM2	22:COM10	-	21:COM9	-
			-211.540	0.000	-5.708	-189.076	-42.032	-401.546
			29:COM10	-	28:COM10	14:COM2	27:COM10	14:COM2



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Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
24	19	+ve	145.270	23.431	11.725	0.000	7.531	0.000
			28:COM1f	14:COM2	22:COM1f	-	28:COM1f	-
			-189.917	0.000	-4.678	-16.563	-14.894	-53.827
			22:COM1f	-	28:COM1f	14:COM2	22:COM1f	14:COM2
	21	-ve	145.270	15.854	11.725	0.000	8.557	0.000
			28:COM1f	14:COM2	22:COM1f	-	22:COM1f	-
			-189.917	0.000	-4.678	-16.563	-1.824	-93.112
			22:COM1f	-	28:COM1f	14:COM2	28:COM1f	14:COM2
25	19	+ve	3.194	7.864	1.450	17.870	14.040	0.000
			21:COM9	21:COM9	28:COM1f	14:COM2	22:COM1f	-
			-2.413	0.000	-13.562	0.000	-1.589	-2.629
			27:COM1f	-	22:COM1f	-	28:COM1f	19:COM7
	18	-ve	3.194	0.000	1.450	17.870	1.602	34.170
			21:COM9	-	28:COM1f	14:COM2	28:COM1f	14:COM2
			-2.413	-40.852	-13.562	0.000	-15.797	0.000
			27:COM1f	14:COM2	22:COM1f	-	22:COM1f	-
26	20	+ve	282.537	7.679	37.200	0.000	67.258	0.000
			19:COM7	13:COM1	22:COM1f	-	29:COM1f	-
			-198.887	0.000	-25.282	-153.516	-76.580	-416.378
			29:COM1f	-	28:COM1f	14:COM2	19:COM7	14:COM2
	22	-ve	282.537	0.000	37.200	0.000	19.798	0.000
			19:COM7	-	22:COM1f	-	21:COM9	-
			-198.887	-19.501	-25.282	-153.516	-5.283	-403.481
			29:COM1f	13:COM1	28:COM1f	14:COM2	27:COM1f	14:COM2
27	21	+ve	130.738	9.548	20.742	0.000	15.937	0.000
			28:COM1f	13:COM1	22:COM1f	-	28:COM1f	-
			-161.972	0.000	-13.614	-13.438	-22.961	-78.280
			22:COM1f	-	28:COM1f	14:COM2	22:COM1f	14:COM2
	23	-ve	130.738	1.629	20.742	0.000	18.524	0.000
			28:COM1f	14:COM2	22:COM1f	-	22:COM1f	-
			-161.972	0.000	-13.614	-13.438	-11.292	-89.115
			22:COM1f	-	28:COM1f	14:COM2	28:COM1f	14:COM2
28	21	+ve	2.011	6.648	17.319	14.832	31.517	0.000
			21:COM9	14:COM2	28:COM1f	14:COM2	22:COM1f	-
			-1.931	0.000	-30.731	0.000	-17.761	-3.125
			27:COM1f	-	22:COM1f	-	28:COM1f	14:COM2
	20	-ve	2.011	0.000	17.319	14.832	20.340	35.561
			21:COM9	-	28:COM1f	14:COM2	28:COM1f	14:COM2
			-1.931	-41.816	-30.731	0.000	-36.091	0.000
			27:COM1f	14:COM2	22:COM1f	-	22:COM1f	-



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
29	22	+ve	247.760	0.000	61.044	0.000	51.783	0.000
			15:COM3	-	22:COM1f	-	20:COM8	-
			-176.328	-59.728	-48.106	-117.967	-51.608	-415.163
			25:COM1f	14:COM2	28:COM1f	14:COM2	30:COM1f	14:COM2
	24	-ve	247.760	0.000	61.044	0.000	70.517	0.000
			15:COM3	-	22:COM1f	-	22:COM1f	-
			-176.328	-83.691	-48.106	-117.967	-44.466	-272.410
			25:COM1f	13:COM1	28:COM1f	14:COM2	28:COM1f	14:COM2
30	23	+ve	103.565	0.000	25.410	0.000	19.394	0.000
			28:COM1f	-	22:COM1f	-	28:COM1f	-
			-122.581	-5.205	-19.301	-10.710	-24.702	-77.433
			22:COM1f	14:COM2	28:COM1f	14:COM2	22:COM1f	14:COM2
	25	-ve	103.565	0.000	25.410	0.000	26.118	0.000
			28:COM1f	-	22:COM1f	-	22:COM1f	-
			-122.581	-13.167	-19.301	-10.710	-19.209	-59.445
			22:COM1f	13:COM1	28:COM1f	14:COM2	28:COM1f	14:COM2
31	23	+ve	5.221	6.834	29.958	11.682	43.226	0.000
			29:COM1f	14:COM2	28:COM1f	14:COM2	22:COM1f	-
			-6.240	0.000	-42.177	0.000	-30.686	-2.728
			19:COM7	-	22:COM1f	-	28:COM1f	14:COM2
	22	-ve	5.221	0.000	29.958	11.682	35.223	35.549
			29:COM1f	-	28:COM1f	14:COM2	28:COM1f	14:COM2
			-6.240	-41.630	-42.177	0.000	-49.563	0.000
			19:COM7	14:COM2	22:COM1f	-	22:COM1f	-
32	24	+ve	248.934	0.000	96.499	0.000	26.727	0.000
			15:COM3	-	19:COM7	-	19:COM7	-
			-184.886	-126.036	-79.520	-77.928	-9.456	-281.635
			25:COM1f	14:COM2	29:COM1f	14:COM2	29:COM1f	14:COM2
	4	-ve	248.934	0.000	96.499	0.000	212.006	0.000
			15:COM3	-	19:COM7	-	19:COM7	-
			-184.886	-148.402	-79.520	-77.928	-162.136	-18.175
			25:COM1f	14:COM2	29:COM1f	14:COM2	29:COM1f	14:COM2
33	25	+ve	76.384	0.000	18.456	0.000	11.282	0.000
			28:COM1f	-	22:COM1f	-	28:COM1f	-
			-88.016	-18.236	-16.388	-9.436	-11.836	-50.221
			22:COM1f	14:COM2	28:COM1f	14:COM2	22:COM1f	14:COM2
	7	-ve	76.384	0.000	18.456	0.000	23.598	0.000
			28:COM1f	-	22:COM1f	-	22:COM1f	-
			-88.016	-25.510	-16.388	-9.436	-20.183	-8.225
			22:COM1f	14:COM2	28:COM1f	14:COM2	28:COM1f	14:COM2



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Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
34	25	+ve	14.039	5.453	29.950	9.225	37.955	0.000
			29:COM1	14:COM2	28:COM1	14:COM2	22:COM1	-
			-18.080	0.000	-37.334	0.000	-30.491	-1.274
			19:COM7	-	22:COM1	-	28:COM1	14:COM2
	24	-ve	14.039	0.000	29.950	9.225	35.399	40.039
			29:COM1	-	28:COM1	14:COM2	28:COM1	14:COM2
			-18.080	-43.011	-37.334	0.000	-44.179	0.000
			19:COM7	14:COM2	22:COM1	-	22:COM1	-
36	26	+ve	332.456	0.000	39.235	0.000	0.000	0.000
			19:COM7	-	29:COM1	29:COM1	19:COM7	22:COM1
			-14.549	-25.752	-58.224	-0.000	-0.000	0.000
			29:COM1	14:COM2	19:COM7	19:COM7	29:COM1	-
	8	-ve	316.170	0.000	39.235	0.000	141.247	92.706
			19:COM7	-	29:COM1	29:COM1	29:COM1	14:COM2
			-26.763	-25.752	-58.224	-0.000	-209.605	0.000
			29:COM1	14:COM2	19:COM7	19:COM7	19:COM7	-
37	28	+ve	101.246	1.790	38.490	0.000	0.000	0.000
			29:COM1	28:COM1	29:COM1	25:COM1	19:COM7	19:COM7
			-183.851	-2.175	-59.847	-0.000	-0.000	-0.000
			19:COM7	22:COM1	19:COM7	15:COM3	29:COM1	29:COM1
	27	-ve	89.032	1.790	38.490	0.000	138.565	7.829
			29:COM1	28:COM1	29:COM1	25:COM1	29:COM1	22:COM1
			-200.137	-2.175	-59.847	-0.000	-215.449	-6.446
			19:COM7	22:COM1	19:COM7	15:COM3	19:COM7	28:COM1
38	1	+ve	28.732	222.190	7.734	7.829	18.943	250.682
			29:COM1	19:COM7	25:COM1	22:COM1	15:COM3	19:COM7
			-50.089	-72.491	-8.118	-6.446	-18.117	-25.975
			19:COM7	29:COM1	15:COM3	28:COM1	25:COM1	29:COM1
	27	-ve	28.732	207.601	7.734	7.829	1.489	141.644
			29:COM1	19:COM7	25:COM1	22:COM1	15:COM3	29:COM1
			-50.089	-83.433	-8.118	-6.446	-1.489	-211.343
			19:COM7	29:COM1	15:COM3	28:COM1	17:COM5	19:COM7
39	29	+ve	1.590	0.000	1.354	0.000	0.000	0.000
			19:COM7	27:COM1	17:COM5	19:COM7	26:COM1	30:COM1
			-1.590	-0.000	-1.354	-0.000	-0.000	-0.000
			20:COM8	21:COM9	15:COM3	28:COM1	16:COM4	20:COM8
	27	-ve	1.590	0.000	1.354	0.000	1.489	4.790
			19:COM7	-	17:COM5	19:COM7	17:COM5	13:COM1
			-1.590	-8.708	-1.354	-0.000	-1.489	0.000
			20:COM8	13:COM1	15:COM3	28:COM1	15:COM3	-



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Reactions

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
9	31:CIM	3.954	370.683	35.838	0.000	0.000	0.000
	32:CIMX1	3.273	327.916	29.828	0.000	0.000	0.000
	33:CIMX2	3.656	326.308	31.075	0.000	0.000	0.000
	34:CIMX3	3.774	360.031	34.305	0.000	0.000	0.000
	35:CIMX4	3.889	359.549	34.679	0.000	0.000	0.000
	36:CIMX5	1.887	197.071	17.647	0.000	0.000	0.000
	37:CIMX6	2.270	195.464	18.895	0.000	0.000	0.000
	38:CIMZ1	3.300	324.177	16.211	0.000	0.000	0.000
	39:CIMZ2	3.628	330.047	44.692	0.000	0.000	0.000
	40:CIMZ3	3.783	358.909	30.220	0.000	0.000	0.000
	41:CIMZ4	3.881	360.670	38.764	0.000	0.000	0.000
	42:CIMZ5	1.915	193.332	4.030	0.000	0.000	0.000
	43:CIMZ6	2.242	199.202	32.512	0.000	0.000	0.000
10	31:CIM	-24.643	163.310	-9.445	0.000	0.000	0.000
	32:CIMX1	-190.403	143.673	-0.804	0.000	0.000	0.000
	33:CIMX2	148.253	143.661	-15.243	0.000	0.000	0.000
	34:CIMX3	-74.549	158.401	-6.924	0.000	0.000	0.000
	35:CIMX4	27.048	158.397	-11.256	0.000	0.000	0.000
	36:CIMX5	-181.973	86.206	2.405	0.000	0.000	0.000
	37:CIMX6	156.683	86.195	-12.034	0.000	0.000	0.000
	38:CIMZ1	-22.123	144.434	-95.030	0.000	0.000	0.000
	39:CIMZ2	-20.028	142.901	78.982	0.000	0.000	0.000
	40:CIMZ3	-24.065	158.629	-35.191	0.000	0.000	0.000
	41:CIMZ4	-23.437	158.169	17.012	0.000	0.000	0.000
	42:CIMZ5	-13.693	86.967	-91.820	0.000	0.000	0.000
	43:CIMZ6	-11.598	85.434	82.191	0.000	0.000	0.000
11	31:CIM	0.051	-0.006	-5.538	0.000	0.000	0.000
	32:CIMX1	-0.314	3.469	-7.043	0.000	0.000	0.000
	33:CIMX2	0.424	5.259	-2.377	0.000	0.000	0.000
	34:CIMX3	-0.058	0.818	-6.031	0.000	0.000	0.000
	35:CIMX4	0.163	1.355	-4.631	0.000	0.000	0.000
	36:CIMX5	-0.336	1.723	-5.159	0.000	0.000	0.000
	37:CIMX6	0.402	3.513	-0.493	0.000	0.000	0.000
	38:CIMZ1	-0.527	-0.027	-39.664	0.000	0.000	0.000
	39:CIMZ2	0.638	8.755	30.244	0.000	0.000	0.000
	40:CIMZ3	-0.122	-0.231	-15.817	0.000	0.000	0.000
	41:CIMZ4	0.227	2.403	5.155	0.000	0.000	0.000
	42:CIMZ5	-0.549	-1.773	-37.780	0.000	0.000	0.000
	43:CIMZ6	0.615	7.009	32.128	0.000	0.000	0.000
26	31:CIM	20.441	162.891	-9.814	0.000	0.000	0.000
	32:CIMX1	17.220	146.941	-10.466	0.000	0.000	0.000
	33:CIMX2	17.548	134.907	-6.215	0.000	0.000	0.000
	34:CIMX3	19.628	159.204	-10.083	0.000	0.000	0.000
	35:CIMX4	19.726	155.594	-8.808	0.000	0.000	0.000



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Job No

Sheet No

2

Rev

Part

Job Title

Ref

By

Date 14-Jun-18

Chd

Client

File CUB METALICA.std

Date/Time 07-Nov-2018 16:21

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kN)	FY (kN)	FZ (kN)	MX (kN·m)	MY (kN·m)	MZ (kN·m)
	36:CIMX5	10.267	90.572	-7.130	0.000	0.000	0.000
	37:CIMX6	10.595	78.538	-2.879	0.000	0.000	0.000
	38:CIMZ1	18.010	238.086	-40.422	0.000	0.000	0.000
	39:CIMZ2	16.759	43.763	23.741	0.000	0.000	0.000
	40:CIMZ3	19.864	186.547	-19.070	0.000	0.000	0.000
	41:CIMZ4	19.489	128.251	0.179	0.000	0.000	0.000
	42:CIMZ5	11.056	181.716	-37.086	0.000	0.000	0.000
	43:CIMZ6	9.805	-12.607	27.077	0.000	0.000	0.000
28	31:CIM	0.196	-45.049	-11.042	0.000	0.000	0.000
	32:CIMX1	-0.474	-40.073	-11.515	0.000	0.000	0.000
	33:CIMX2	0.816	-28.210	-7.240	0.000	0.000	0.000
	34:CIMX3	-0.004	-44.102	-11.267	0.000	0.000	0.000
	35:CIMX4	0.383	-40.543	-9.984	0.000	0.000	0.000
	36:CIMX5	-0.542	-26.417	-7.764	0.000	0.000	0.000
	37:CIMX6	0.747	-14.554	-3.489	0.000	0.000	0.000
	38:CIMZ1	1.339	-124.744	-41.587	0.000	0.000	0.000
	39:CIMZ2	-0.997	56.460	22.832	0.000	0.000	0.000
	40:CIMZ3	0.540	-69.503	-20.288	0.000	0.000	0.000
	41:CIMZ4	-0.160	-15.142	-0.963	0.000	0.000	0.000
	42:CIMZ5	1.270	-111.087	-37.836	0.000	0.000	0.000
	43:CIMZ6	-1.065	70.117	26.583	0.000	0.000	0.000

CHEQUEO DE COLUMNAS - ESTRUCTURA ACTUAL

Columna C29

Nivel	H Libre	Losa	B	H	f'c	M1 tm	M2 tm	P ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plastico Direc 1	V Plastrico Direc 2
NE+3.68	3.00	1.03	.40	.40	21	0.09	19.67	2.11	0.09	5.46	12.22	12/7 (2.9%)	0.85	26.72	26.60
		3.08				0.00	0.00					12/7 (2.9%)			

C28

Nivel	H Libre	Losa	B	H	f'c	M1 tm	M2 tm	P ton	V1 ton	V2 ton	Vc ton	Cuantia	M/Mr	V plastico Direc 1	V Plastrico Direc 2
NE+3.68	3.00	.67	.40	.40	21	-5.62	20.13	-31.77	1.72	5.59	12.22	24/5 (3.0%)	0.97	27.17	27.04
NE+0.08		3.08				0.00	0.00					24/5 (3.0%)			

V133/NE+3.68

B=0.50 H=1.03 L=5.64		B=0.50 H=1.03 L=11.61		B=0.50 H=0.47 L=0.30	
Mu=-0.00 As=23.22 As(r)=16.33	Mu=-47.90 As=23.22 As(r)=16.33	Mu=-39.29 As=23.22 As(r)=16.33	Mu=-8.74 As=23.22 As(r)=16.33	Mu=-0.00 As=23.22 As(r)=7.09	Mu=-0.00 As=17.41 As(r)=7.09
Mu=10.26 As=23.22 As(r)=16.33	Mu=0.00 As=23.22 As(r)=16.33	Mu=9.58 As=23.22 As(r)=16.33	Mu=13.10 As=23.22 As(r)=16.33	Mu=43.68 As=23.22 As(r)=16.33	Mu=24.27 As=34.46 As(r)=9.46
Mu=10.71 As=23.22 As(r)=7.09	Mu=14.58 As=23.22 As(r)=7.09	Mu=4.90 As=12.73 As(r)=7.09			
Vu=5.46	Vu=17.39	Vu=-21.11	Vu=20.43	Vu=18.02	Vu=21.03

V134/NE+3.68

B=0.40 H=0.67 L=0.77		B=0.40 H=0.67 L=1.68		B=0.40 H=0.67 L=1.73	
Mu=-22.57 As=8.95 As(r)=9.94	Mu=-4.83 As=11.94 As(r)=8.32	Mu=-22.57 As=11.94 As(r)=9.94	Mu=-4.83 As=11.94 As(r)=8.32	Mu=-26.63 As=11.94 As(r)=11.84	Mu=-13.65 As=11.94 As(r)=8.32
Mu=12.58 As=8.95 As(r)=8.32	Mu=6.78 As=11.94 As(r)=8.32	Mu=24.17 As=11.94 As(r)=10.68	Mu=12.58 As=11.94 As(r)=8.32	Mu=6.78 As=11.94 As(r)=8.32	Mu=24.17 As=11.94 As(r)=10.68
Mu=8.88 As=11.94 As(r)=8.32	Mu=5.33 As=11.94 As(r)=8.32	Mu=20.52 As=11.94 As(r)=8.99			
Vu=-22.91	Vu=-19.58	Vu=-22.91	Vu=-19.58	Vu=-22.68	Vu=-21.19

V135/NE+3.68

B=0.40 H=0.67 L=1.90	
Mu=-0.00 As=11.36 As(r)=8.32	Mu=-16.62 As=11.36 As(r)=8.32
Mu=0.75 As=11.36 As(r)=8.32	Mu=0.00 As=11.36 As(r)=8.32
Vu=5.17	Vu=10.31

VT120/NE+3.68

B=0.20 H=0.60 L=1.90	
Mu=-0.00 As=5.68 As(r)=3.70	Mu=-4.20 As=5.68 As(r)=3.70
Mu=0.19 As=3.98 As(r)=3.70	Mu=0.00 As=3.98 As(r)=3.70
Vu=-0.50	Vu=4.44

VT119/NE+3.68

B=0.20 H=0.67 L=1.70		B=0.20 H=0.67 L=1.70		B=0.20 H=0.67 L=1.75	
Mu=-16.86 As=9.41 As(r)=7.62	Mu=-3.37 As=5.68 As(r)=4.16	Mu=-3.12 As=5.68 As(r)=4.16	Mu=-0.81 As=5.68 As(r)=4.16	Mu=-1.26 As=5.68 As(r)=4.16	Mu=-1.55 As=5.68 As(r)=4.16
Mu=5.62 As=5.68 As(r)=4.16	Mu=3.37 As=5.68 As(r)=4.16	Mu=3.37 As=5.68 As(r)=4.16	Mu=1.04 As=5.68 As(r)=4.16	Mu=0.81 As=5.68 As(r)=4.16	Mu=4.07 As=5.68 As(r)=4.16
Mu=1.26 As=5.68 As(r)=4.16	Mu=3.90 As=5.68 As(r)=4.16	Mu=6.30 As=5.68 As(r)=4.16			
Vu=-8.86	Vu=-8.09	Vu=-3.96	Vu=-3.18	Vu=-2.98	Vu=-2.21

B=0.20 H=0.67 L=1.80		B=0.20 H=0.67 L=1.80		B=0.20 H=0.67 L=1.80	
Mu=-8.59 As=5.68 As(r)=4.16	Mu=-1.72 As=5.68 As(r)=4.16	Mu=-1.40 As=5.68 As(r)=4.16	Mu=-1.40 As=5.68 As(r)=4.16	Mu=-1.80 As=5.68 As(r)=4.16	Mu=-1.80 As=5.68 As(r)=4.16
Mu=2.86 As=5.68 As(r)=4.16	Mu=1.72 As=5.68 As(r)=4.16	Mu=3.20 As=5.68 As(r)=4.16	Mu=1.40 As=5.68 As(r)=4.16	Mu=4.30 As=5.68 As(r)=4.16	Mu=6.98 As=5.68 As(r)=4.16
Mu=5.27 As=5.68 As(r)=4.16	Mu=7.30 As=5.68 As(r)=4.16	Mu=8.99 As=5.68 As(r)=4.16			
Vu=-5.16	Vu=-4.38	Vu=-3.80	Vu=-3.03	Vu=-2.28	Vu=-1.50

B=0.20 H=0.67 L=1.80		B=0.20 H=0.67 L=1.80		B=0.20 H=0.67 L=1.77	
Mu=-1.72 As=-5.68 As(r)=4.16	Mu=-1.72 As=-5.68 As(r)=4.16	Mu=-1.49 As=-5.68 As(r)=4.16	Mu=-1.49 As=-5.68 As(r)=4.16	Mu=-0.00 As=-5.68 As(r)=4.16	Mu=-0.00 As=-5.68 As(r)=4.16
Mu=7.54 As=-5.68 As(r)=4.16	Mu=8.25 As=-5.68 As(r)=4.16	Mu=8.59 As=-5.68 As(r)=4.16	Mu=7.45 As=-5.68 As(r)=4.16	Mu=6.78 As=-5.68 As(r)=4.16	Mu=5.73 As=-5.68 As(r)=4.16
Mu=4.85 As=-5.68 As(r)=4.16	Mu=2.88 As=-5.68 As(r)=4.16	Mu=0.78 As=-5.68 As(r)=4.16	Mu=1.29 As=-5.68 As(r)=4.16	Mu=1.75 As=-5.68 As(r)=4.16	Mu=2.49 As=-5.68 As(r)=4.16
Vu=-0.95	Vu=-0.15	Vu=0.48	Vu=1.29	Vu=1.75	Vu=2.49

DISEÑO DE TANQUE (Con Tapa)
Proyecto: EDIFICIO JARDIN CAMPO VERDE

Dimensiones Ta

B (m)	L (m)	H (m)
5.90	5.90	2.8

DISEÑO TAPA

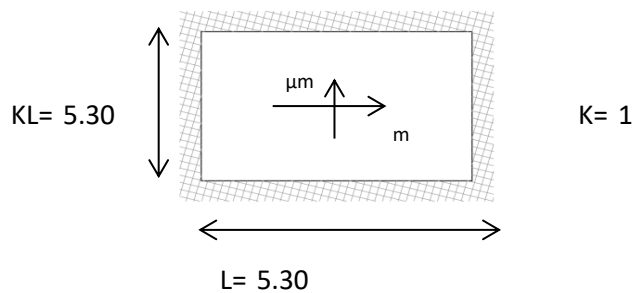
1. Evaluacion de Cargas

Espesor de la placa (m): 0.3

Acabados (t/m²): 0.8

CM (t/m ²)	CV (t/m ²)	CU (t/m ²)
1.52	0.5	2.624

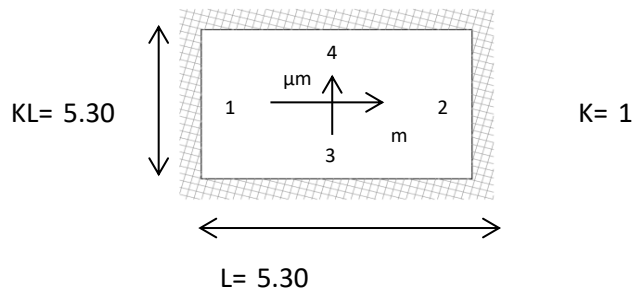
2. Diseño sin contiunidad en el perímetro



$$\begin{aligned} m/(q_u k^2 L^2) &= 0.0580 \rightarrow m = 4.27 \text{ T-m/m} \\ \mu m/(q_u k^2 L^2) &= 0.0267 \rightarrow \mu m = 1.97 \text{ T-m/m} \end{aligned}$$

k	m/qk ² L ²	μm/qk ² L ²
1	0.0417	0.0417
0.95	0.0498	0.0376
0.9	0.0575	0.0338
0.85	0.0648	0.0301
0.8	0.0717	0.0267
0.75	0.0781	0.0234
0.7	0.0842	0.0204
0.65	0.0898	0.0176
0.6	0.095	0.015
0.55	0.0998	0.0126
0.5	0.1042	0.0104
0.45	0.01081	0.0084

3. Diseño con contiunidad en el perímetro



$$\begin{aligned} m/(q_u k^2 L^2) &= 0.0186 \rightarrow m = 1.37 \text{ T-m/m} \\ (m_3 \text{ o } m_4)/(q_u k^2 L^2) &= -0.0269 \rightarrow m_3 = -1.98 \text{ T-m/m} \\ \mu m/(q_u k^2 L^2) &= 0.016228 \rightarrow \mu m = 1.20 \text{ T-m/m} \\ (m_1 \text{ o } m_2)/(q_u k^2 L^2) &= -0.02356 \rightarrow m_1 = -1.74 \text{ T-m/m} \end{aligned}$$

b (cm)	r (cm)	d (cm)	f'c (Kg/cm ²)	Fy (Kg/cm ²)	m
100	5	24.5	280	4200	17.647

4. Momentos de diseño

m (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
2.82	5.222	0.00126	3.08

μm (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
1.58	2.929	0.00070	1.72

m ₃ (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
-0.99	-1.836	0.00044	1.08

m ₁ (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
-0.87	-1.607	0.00038	0.94

ρ _{mín}	As _{mín} (cm ² /m)
0.004	6 c/cara

DISEÑO PLACA DE FONDO

1. Evaluacion de Cargas

Espesor de la placa (m): 0.3

CM (t/m ²)	CV (t/m ²)	FC	CU (t/m ²)
0.720	0.18	1.3	1.17

$$\frac{[qu]_{fondo}}{[qu]_{tapa}} = 0.45$$

2. Cálculo del factor Sd

f _s (MPa)	f _s _{mín} (MPa)	Sd	b (cm)	r (cm)	d (cm)
179	140	1.62	100	7	22.5

4. Momentos de diseño

m (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
2.04	4.484	0.00108	2.43

μm (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
1.15	2.515	0.00060	1.35

m ₃ (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
-0.72	-1.577	0.00038	0.85

m ₁ (T-m/m)	k (kg/cm ²)	ρ	As(cm ² /m)
-0.63	-1.380	0.00033	0.74

ρ _{mín}	As _{mín} (cm ² /m)
0.004	6 c/cara

DISEÑO MURO

Espesor muro (m)= 0.3

1. Prueba de Hermeticidad

γ_{H_2O} (T/m ³)	h (m)	P' (T/m ²)	FC	P'u (T/m ²)
1.00	1.70	1.70	1.4	3.78

Cálculo del factor Sd

b (cm)	r (cm)	d (cm)
100	7	22.5

fs (MPa)	fs _{mín} (MPa)	Sd	Mu (T-m/m)	Vu (T)	φVc (T)
130	170	1.59	0.70	2.14	14.97

k (kg/cm ²)	ρ	As (cm ² /m)
1.54	0.00037	0.83

2. Estado de servicio (tanque vacío)

γ_s (T/m ³)	h (m)	Ka	P (T/m ²)	q (T/m ²)
1.70	2.50	1	4.25	1.5

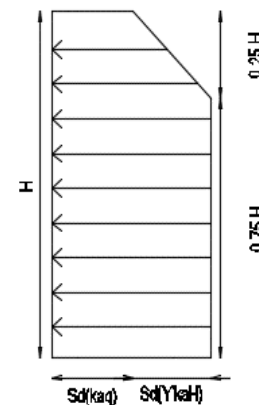
FC	Pu (T/m ²)	qu (T/m ²)
1.6	11.48	4.05

Cálculo del factor Sd

fs (MPa)	fs _{mín} (MPa)	Sd	Mu (T-m/m)	Vu (T)	φVc (T)
129.9	140	1.69	4.24	10.99	14.97

k (kg/cm ²)	ρ	As (cm ² /m)
9.30	0.00226	5.08

ρ _{mín}	As _{mín} (cm ² /m)
0.004	6 c/cara



DISEÑO DE TANQUE (Con Tapa)
Proyecto: EDIFICIO JARDIN CAMPO VERDE
TANQUE AGUAS LLUVIAS

Dimensiones Ta

B (m)	L (m)	H (m)
2.00	6.70	2.4

DISEÑO TAPA

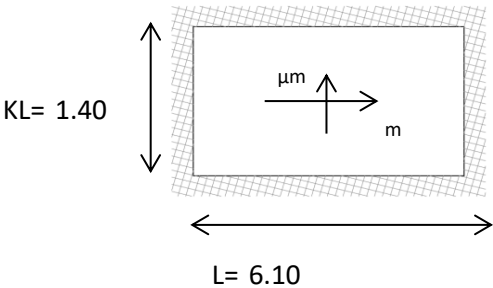
1. Evaluacion de Cargas

Espesor de la placa (m): 0.3

Acabados (t/m2): 0.8

CM (t/m2)	CV (t/m2)	CU (t/m2)
1.52	0.5	2.624

2. Diseño sin contiunidad en el perímetro

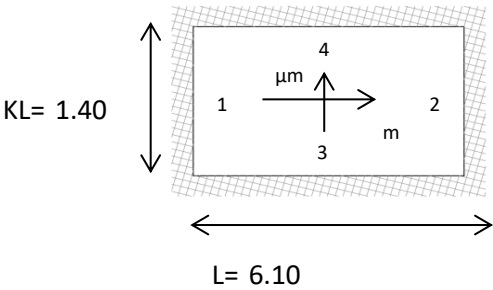


K= 0.2295082

k	m/qk ² L ²	μm/qk ² L ²
1	0.0417	0.0417
0.95	0.0498	0.0376
0.9	0.0575	0.0338
0.85	0.0648	0.0301
0.8	0.0717	0.0267
0.75	0.0781	0.0234
0.7	0.0842	0.0204
0.65	0.0898	0.0176
0.6	0.095	0.015
0.55	0.0998	0.0126
0.5	0.1042	0.0104
0.45	0.01081	0.0084

$m/(q_u k^2 L^2) = 0.0934 \rightarrow m = 0.48 \text{ T-m/m}$
 $\mu m/(q_u k^2 L^2) = 0.0267 \rightarrow \mu m = 0.14 \text{ T-m/m}$

3. Diseño con contiunidad en el perímetro



K= 0.2295082

$m/(q_u k^2 L^2) = 0.0565 \rightarrow m = 0.29 \text{ T-m/m}$
 $(m_3 \text{ o } m_4)/(q_u k^2 L^2) = -0.0820 \rightarrow m_3 = -0.42 \text{ T-m/m}$
 $\mu m/(q_u k^2 L^2) = -0.002786 \rightarrow \mu m = -0.01 \text{ T-m/m}$
 $(m_1 \text{ o } m_2)/(q_u k^2 L^2) = 0.00401 \rightarrow m_1 = 0.02 \text{ T-m/m}$

b (cm)	r (cm)	d (cm)	f'c (Kg/cm2)	Fy (Kg/cm2)	m
100	5	24.5	280	4200	17.647

4. Momentos de diseño

m (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
0.39	0.714	0.00017	0.42

μ m (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
0.06	0.114	0.00003	0.07

m ₃ (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
-0.21	-0.390	0.00009	0.23

m ₁ (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
0.01	0.019	0.00000	0.01

ρ_{\min}	As _{min} (cm ² /m)
0.004	6 c/cara

DISEÑO PLACA DE FONDO

1. Evaluacion de Cargas

Espesor de la placa (m): 0.3

CM (t/m2)	CV (t/m2)	FC	CU (t/m2)
0.720	0.18	1.3	1.17

$$\frac{[qu]_{fondo}}{[qu]_{tapa}} = 0.45$$

2. Cálculo del factor Sd

f _s (MPa)	f _{s_min} (MPa)	Sd	b (cm)	r (cm)	d (cm)
179	140	1.62	100	7	22.5

4. Momentos de diseño

m (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
0.28	0.613	0.00015	0.33

μ m (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
0.04	0.098	0.00002	0.05

m ₃ (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
-0.15	-0.335	0.00008	0.18

m ₁ (T-m/m)	k (kg/cm2)	ρ	As(cm ² /m)
0.01	0.016	0.00000	0.01

ρ_{\min}	As _{min} (cm ² /m)
0.004	6 c/cara

DISEÑO MURO

Espesor muro (m)= 0.3

1. Prueba de Hermeticidad

γ_{H_2O} (T/m ³)	h (m)	P' (T/m ²)	FC	P'u (T/m ²)
1.00	2.20	2.20	1.4	4.89176471

Cálculo del factor Sd

b (cm)	r (cm)	d (cm)
100	7	22.5

f _s (MPa)	f _{s_{min}} (MPa)	Sd	Mu (T-m/m)	Vu (T)	φVc (T)
130	170	1.59	1.52	3.59	14.97

k (kg/cm ²)	ρ	As (cm ² /m)
3.33	0.00080	1.80

2. Estado de servicio (tanque vacío)

γ_s (T/m ³)	h (m)	Ka	P (T/m ²)	q (T/m ²)
1.70	2.10	1	3.57	1.5

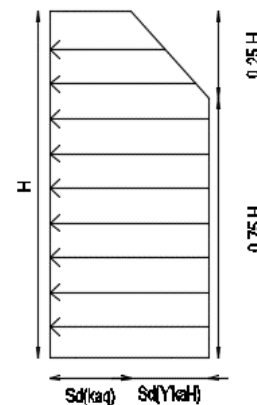
FC	Pu (T/m ²)	qu (T/m ²)
1.6	9.64	4.05

Cálculo del factor Sd

f _s (MPa)	f _{s_{min}} (MPa)	Sd	Mu (T-m/m)	Vu (T)	φVc (T)
129.9	140	1.69	5.31	11.36	14.97

k (kg/cm ²)	ρ	As (cm ² /m)
11.65	0.00285	6.40

ρ _{min}	As _{min} (cm ² /m)
0.004	6 c/cara



DISEÑO DE ELEMENTOS NO ESTRUCTURALES

Proyecto:

Jardin campo verde

Calculó:

JDH

CNI

1. Fuerzas Horizontales en cada nivel

Aa =0.15I =1.25W (t) = 953.02

Fa =1.05Sa =0.492Vs (t) = 468.88

NIVEL	hi (m)	wi (t)	wi hik	Cvx	Fx (t)
Cubierta	10.50	289.25	612586.69	0.257	1040.97
Piso 3	7.35	340.62	170510.46	0.072	289.75
Piso 2	3.60	323.15	101044.92	0.042	171.71
		953.02	884142.07	0.37	1502.43

2. Materiales - Muros divisorios y Fachadas

Tipo de muro	t (m)	γ (t/m³)	w _{muro} (t/m²)
1.Bloque perf. Hznal	0.15	1.4	0.21
2.Bloque perf. Vtcal	0.15	1.6	0.24
3.Tolete macizo	0.12	1.85	0.222
4.Bloque de concreto	0.14	2.15	0.301
5.Concreto Arq.	0.12	2.4	0.288
6.Otro			0

Columnetas f'c =210 kg/cm²

Refuerzo, fy =4200 kg/cm²

3. Diseño de Muros

Desempeño: SuperiorAs =0.492

hn (m) = 10.5heq (m) = 7.88

A) Elementos apoyados Arriba y abajo

Tipo de muro:2

Seccion columnetas:b (cm) = 15h (cm) = 15Separación, S (m) = 2.00

NIVEL	hx (m)	ax	ap	Rp	w _{muro} (t/m²)	Fp (t/m²)	Hmuro (m)	M (t-m)	V (t)	K	rho	As (cm²)	Conector
Piso 3	7.35	0.49	1.00	3.00	0.24	0.04	3.00	0.088	0.117	0.05	0.0014	0.24	ϕ 4/8
Piso 2	3.75	0.49	1.00	3.00	0.24	0.04	3.00	0.088	0.117	0.05	0.0014	0.24	ϕ 4/8
Piso 1	0.15	0.49	1.00	3.00	0.24	0.04	3.00	0.088	0.117	0.05	0.0014	0.24	ϕ 4/8

B) Elementos en voladizo (Antepechos)

Tipo de muro:2

Seccion columnetas:b (cm) = 15h (cm) = 15Separación, S (m) = 2.00

NIVEL	hx (m)	ax	ap	Rp	w _{muro} (t/m²)	Fp (t/m²)	Hmuro (m)	M (t-m)	V (t)	K	rho	As (cm²)
Cubierta	10.50	0.66	2.5	3.00	0.24	0.13	0.60	0.048	0.158	0.03	0.001	0.129
Piso 3	7.00	0.49	2.5	3.00	0.24	0.10	0.60	0.035	0.118	0.02	0.001	0.094
Piso 2	3.50	0.49	2.5	3.00	0.24	0.10	1.00	0.098	0.196	0.06	0.002	0.267
Muro de cerramiento	0.00	0.49	2.5	3.00	0.24	0.10	2.00	0.392	0.392	0.24	0.007	1.141

DADO TIPO

D-1

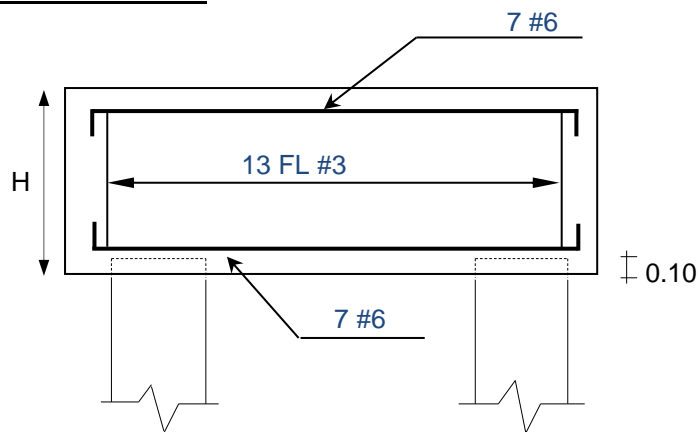
Pilotes $\phi = 0.80$ mRecubrimiento = 0.10 m $P_{REAL} = 59$ Ton (carga de la columna) $P_u = 59 \times 1.4 = 82.6$ Ton**DISEÑO POR EL METODO DE LAS BIELAS :**

$$A_{s_{inf}} = \frac{P_u (2e - a)}{8 f_y d \phi}$$

donde :

 $e = 2.5 \phi_{pilot} = 2.00$ m
 (según estudio de suelos)
 $a = 0.50$ m (dimensión columna) $f_y = 4200$ Kg/cm² $\phi = 0.9$ (coeficiente de reducción de resistencia) $d_{min} = e/2 = 1.00$ m $d = 1.00$ m (definitivo)

Entonces :

 $A_{s_{inf}} = 9.56$ cm² $A_{s_{min}} = 19.80$ cm² $A_{s_{min}} = 0.0018 (\phi_{pilot} + 2 \text{ Recub.}) H$ $H = 1.10$ m (altura dado)**Detalle de Refuerzo:****CORTE 1-1**

$$H(m) \geq l_d + 0.15$$

DADO TIPO **D2**

3 Pilotes $\phi = 0.80$ m

Recubrimiento = 0.10 m

$P_{REAL} = 127$ Ton (carga de la columna)

$P_u = 127 \times 1.4 = 178$ Ton

DISEÑO POR EL METODO DE LAS BIELAS :

$$A_{s_{inf}} = \frac{P_u(2e\sqrt{3} - a\sqrt{2})}{18f_y d \phi}$$

donde :

$e = 2.5 \phi_{pilote} = 2.00$ m
(según estudio de suelos)

$a = 0.49$ m (dimensión columna)

$f_y = 4200$ Kg/cm²

$\phi = 0.9$ (coef. de reducción de resistencia)

$d_{min.} = 0.58e = 1.16$ m

$d = 1.20$ m (definitivo)

$H = 1.30$ m (altura dado)

Dimensiones de la columna :

$a' \text{ (cm)} = 40$

$b \text{ (cm)} = 60$

$$a = \sqrt{a' \times b}$$

$A_{s_{sup}} = 0.0018 (\phi_{pilote} + 2 \text{ Recub.}) H/2$

$A_{s_{sup}} = 11.70$ cm²

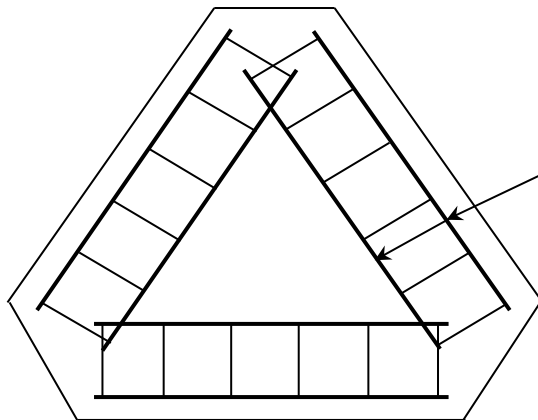
Entonces :

$A_{s_{inf}} = 13.58$ cm²

$A_{s_{min}} = 0.0018 (\phi_{pilote} + 2 \text{ Recub.}) H$

$A_{s_{min}} = 23.40$ cm²

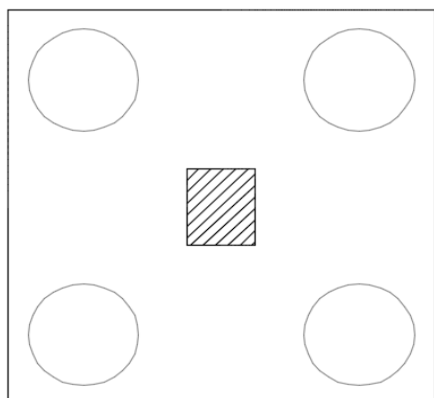
Detalle de Refuerzo:



5 # 5 Refuerzo Superior

5 # 5 Refuerzo Inferior

TIPO DE DADO D-3



$$\begin{aligned}
 \Sigma P &= 180 \text{ Ton} & F'_c &= 21.0 \text{ MPa} \\
 \Sigma \text{Total} &= 180 \text{ Ton} & FC &= 1.4 \\
 P_u &= 252 \text{ Ton} \\
 P_{\text{pil}} &= 63 \text{ Ton} & 4 & 0.8 \\
 e &= 2.5 & \times \phi_{\text{pilote}} &= 2 \\
 \text{A) Punzonamiento} & & A_1 &= 0.42 \text{ m}^2 \\
 & & 487 \text{ Ton} & > P_u \text{ OK}
 \end{aligned}$$

DISEÑO A CORTANTE

$$\begin{aligned}
 \text{B) Cortante como viga "d":} & & B &= 3.10 \text{ m} \\
 & & h_{\text{dado}} &= 1.10 \text{ m} \\
 V_u &= 2 \times 63 = 126 \text{ Ton} \\
 & & 181 \text{ Ton} & \text{OK}
 \end{aligned}$$

B) Cortante como placa "d/2":

$$\begin{aligned}
 b_o &= 6.00 \text{ m} & L_c &= 0.50 \text{ m} & B_c &= 0.50 \text{ m} \\
 \alpha &= 40 & \beta &= 1.00 \\
 \phi V_c &= \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1052 \text{ Ton} \\
 \phi V_c &= 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1519 \text{ Ton} \\
 \phi V_c &= \phi 0.33 \sqrt{f'_c} \times b_o \times d = 681 \text{ Ton} \\
 V_u &= 252 \text{ Ton} < V_c & \text{OK}
 \end{aligned}$$

DISEÑO A FLEXION

$$M = 2 \text{ pilotes} \times \frac{63 \text{ ton}}{\text{pilote}} \times 0.75 \text{ m} = 95 \text{ ton.m}$$

Geometria

$$\begin{aligned}
 b &= 310 \text{ cm} \\
 h &= 110 \text{ cm} \\
 r &= 10 \text{ cm} \\
 d &= 100 \text{ cm}
 \end{aligned}$$

Materiales

$$\begin{aligned}
 f'_c &= 21.0 \text{ kg/cm}^2 \\
 f_y &= 4200 \text{ kg/cm}^2
 \end{aligned}$$

Análisis

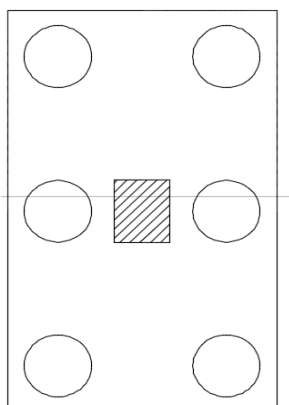
$$\begin{aligned}
 M_u &= 95 \text{ ton.m} \\
 \phi &= 0.9 \\
 m &= 24 \\
 k &= 3.39
 \end{aligned}$$

cuantia

$$\begin{aligned}
 \rho &= 0.0018 \\
 A_{s \text{ req}} &= 61 \text{ cm}^2 \\
 \rho_b &= 0.02125 \\
 \rho_{\text{max}} &= 0.0159375
 \end{aligned}$$

$$\begin{aligned}
 A_{s_{\text{min}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H & 61.38 \\
 A_{s_{\text{sup}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2 & 30.69
 \end{aligned}$$

TIPO DE DADO D-4



$$\begin{aligned}
 \Sigma P &= 196 \text{ Ton} & F'_c &= 21.0 \text{ MPa} \\
 \Sigma \text{Total} &= 196 \text{ Ton} & FC &= 1.4 \\
 P_u &= 274 \text{ Ton} \\
 P_{\text{pil}} &= 46 \text{ Ton} & 6 & 0.6 \\
 e &= 2.5 & \times \phi_{\text{pilote}} &= 1.5 \\
 \text{A) Punzonamiento} & & A_1 &= 0.42 \text{ m}^2 \\
 & & 487 \text{ Ton} & > P_u \quad \text{OK}
 \end{aligned}$$

DISEÑO A CORTANTE

$$\begin{aligned}
 \text{B) Cortante como viga "d":} & & B &= 3.90 \text{ m} \\
 & & h_{\text{dado}} &= 1.10 \text{ m} \\
 V_u &= 3 \times 46 = 137 \text{ Ton} \\
 & & 228 \text{ Ton} & \quad \text{OK}
 \end{aligned}$$

B) Cortante como placa "d/2":

$$\begin{aligned}
 b_o &= 9.40 \text{ m} & L_c &= 0.50 \text{ m} & B_c &= 0.60 \text{ m} \\
 \alpha &= 40 & \beta &= 0.83 \\
 \phi V_c &= \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1867 \text{ Ton} \\
 \phi V_c &= 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1718 \text{ Ton} \\
 \phi V_c &= \phi 0.33 \sqrt{f'_c} \times b_o \times d = 1066 \text{ Ton} \\
 V_u &= 274 \text{ Ton} < V_c & \text{OK}
 \end{aligned}$$

DISEÑO A FLEXION SENTIDO CORTO

$$M = 3 \text{ pilotes} \times \frac{46 \text{ ton}}{\text{pilote}} \times 0.50 \text{ m} = 69 \text{ ton.m}$$

Geometria

$$\begin{aligned}
 b &= 390 \text{ cm} \\
 h &= 110 \text{ cm} \\
 r &= 10 \text{ cm} \\
 d &= 100 \text{ cm}
 \end{aligned}$$

Materiales

$$\begin{aligned}
 f'_c &= 21.0 \text{ kg/cm}^2 \\
 f_y &= 4200 \text{ kg/cm}^2
 \end{aligned}$$

Análisis

$$\begin{aligned}
 M_u &= 69 \text{ ton.m} \\
 \phi &= 0.9 \\
 m &= 24 \\
 k &= 1.95
 \end{aligned}$$

cuantia

$$\begin{aligned}
 \rho &= 0.0018 \\
 A_{s \text{ req}} &= 77 \text{ cm}^2 \\
 \rho_b &= 0.02125 \\
 \rho_{\text{max}} &= 0.0159375
 \end{aligned}$$

$$\begin{aligned}
 A_{s_{\text{min}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H & 77.22 \\
 A_{s_{\text{sup}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2 & 38.61
 \end{aligned}$$

DISEÑO A FLEXION SENTIDO LARGO

$$M = 2pilotes * \frac{33ton}{pilote} * 1.25m = \quad \mathbf{114 \text{ ton.m}}$$

Geometria

b= 240 cm
h= 110 cm
r= 10 cm
d= 100 cm

Materiales

f'c= 210 kg/cm²
fy= 4200 kg/cm²

Análisis

Mu= 114 ton.m
φ= 0.9
m= 24
k= 5.29

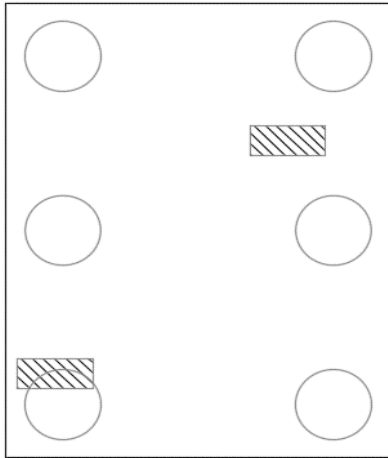
cuantia

ρ= 0.0018
As req= 48 cm²
ρb= 0.02125
ρmax= 0.0159375

$$\mathbf{As_{min} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H} \quad \mathbf{\underline{47.52}}$$

$$\mathbf{As_{sup} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H/2} \quad \mathbf{\underline{23.76}}$$

TIPO DE DADO D-5



$\Sigma P = 161 \text{ Ton}$ $F'_c = 21.0 \text{ MPa}$
 $\Sigma \text{Total} = 161 \text{ Ton}$ $FC = 1.4$
 $P_u = 225 \text{ Ton}$
 $P_{\text{pil}} = 38 \text{ Ton}$ 6 0.6
 $e = 2.5$ $\times \phi_{\text{pilote}} = 1.5$
 A) Punzonamiento $A_1 = 0.42 \text{ m}^2$
 $487 \text{ Ton} > P_u$ **OK**

DISEÑO A CORTANTE

B) Cortante como viga "d": $B = 3.90 \text{ m}$
 $h_{\text{dado}} = 1.10 \text{ m}$
 $V_u = 3 \times 38 = 113 \text{ Ton}$
 228 Ton **OK**

B) Cortante como placa "d/2":

$b_o = 9.40 \text{ m}$ $L_c = 0.50 \text{ m}$ $B_c = 0.60 \text{ m}$
 $\alpha = 40$ $\beta = 0.83$

$$\phi V_c = \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1867 \text{ Ton}$$

$$\phi V_c = 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1718 \text{ Ton}$$

$$\phi V_c = \phi 0.33 \sqrt{f'_c} \times b_o \times d = 1066 \text{ Ton}$$

$V_u = 225 \text{ Ton} < V_c$ **OK**

DISEÑO A FLEXION

$$M = 3 \text{ pilotes} \times \frac{38 \text{ ton}}{\text{pilote}} \times 1.07 \text{ m} = 121 \text{ ton.m}$$

Geometria

$b = 390 \text{ cm}$
 $h = 110 \text{ cm}$
 $r = 10 \text{ cm}$
 $d = 100 \text{ cm}$

Materiales

$f'_c = 21.0 \text{ kg/cm}^2$
 $f_y = 4200 \text{ kg/cm}^2$

Análisis

$M_u = 121 \text{ ton.m}$
 $\phi = 0.9$
 $m = 24$
 $k = 3.44$

cuantia

$\rho = 0.0018$
 $A_{s \text{ req}} = 77 \text{ cm}^2$
 $\rho_b = 0.02125$
 $\rho_{\text{max}} = 0.0159375$

$A_{s_{\text{min}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H$ 77.22
 $A_{s_{\text{sup}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2$ 38.61

DISEÑO A FLEXION SENTIDO LARGO

$$M = 2\text{pilotes} * \frac{28\text{ton}}{\text{pilote}} * 1.50\text{m} = \mathbf{113 \text{ ton.m}}$$

Geometria

b= **305 cm**
h= 110 cm
r= 10 cm
d= 100 cm

Materiales

f'c= 210 kg/cm²
fy= **4200 kg/cm²**

Análisis

Mu= 113 ton.m
φ= 0.9
m= 24
k= 4.11

cuantia

ρ= 0.0018
As req= 60 cm²
ρb= 0.02125
ρmax= 0.0159375

$$A_{s_{\min}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H \quad \mathbf{60.39}$$

$$A_{s_{\sup}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2 \quad \mathbf{30.20}$$

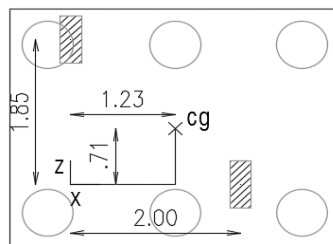
CALCULO DE CENTRO DE CARGA

NUDO	Carga Serv (Ton)	x (m)	z (m)	P*x	P*z
C-5	62	0	1.85	0.0	114.7
C-4	99	2	0	198.0	0.0

Σ	161.0
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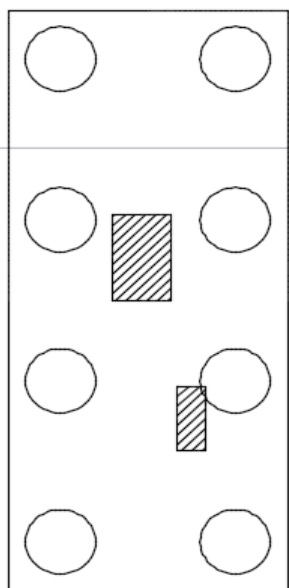
198.0	114.7
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x (m) = **1.23**
z (m) = **0.71**



Nota: el centro del dado se localiza en el centro de carga

TIPO DE DADO D-6



$$\begin{aligned}
 \Sigma P &= 236 \text{ Ton} & F'_c &= 21.0 \text{ MPa} \\
 \Sigma \text{Total} &= 236 \text{ Ton} & FC &= 1.4 \\
 P_u &= 330 \text{ Ton} \\
 P_{\text{pil}} &= 41 \text{ Ton} & 8 & 0.6 \\
 e &= 2.5 & \times \phi_{\text{pilote}} &= 1.5 \\
 \text{A) Punzonamiento} & & A_1 &= 0.42 \text{ m}^2 \\
 & & 487 \text{ Ton} & > P_u \text{ OK}
 \end{aligned}$$

DISEÑO A CORTANTE

$$\begin{aligned}
 \text{B) Cortante como viga "d":} & & B &= 5.40 \text{ m} \\
 h_{\text{dado}} &= 1.10 \text{ m}
 \end{aligned}$$

$$V_u = 4 \times 41 = 165 \text{ Ton}$$

$$316 \text{ Ton} \quad \text{OK}$$

$$\text{B) Cortante como placa "d/2":}$$

$$\begin{aligned}
 b_o &= 5.70 \text{ m} & L_c &= 0.25 \text{ m} & B_c &= 0.60 \text{ m} \\
 \alpha &= 40 & \beta &= 0.42
 \end{aligned}$$

$$\begin{aligned}
 \phi V_c &= \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1932 \text{ Ton} \\
 \phi V_c &= 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1502 \text{ Ton} \\
 \phi V_c &= \phi 0.33 \sqrt{f'_c} \times b_o \times d = 646 \text{ Ton}
 \end{aligned}$$

$$V_u = 330 \text{ Ton} < V_c \quad \text{OK}$$

DISEÑO A FLEXION SENTIDO CORTO

$$M = 4 \text{ pilotes} \times \frac{41 \text{ ton}}{\text{pilote}} \times 0.60 \text{ m} = 99 \text{ ton.m}$$

Geometria

$$\begin{aligned}
 b &= 540 \text{ cm} \\
 h &= 110 \text{ cm} \\
 r &= 10 \text{ cm} \\
 d &= 100 \text{ cm}
 \end{aligned}$$

Materiales

$$\begin{aligned}
 f'_c &= 21.0 \text{ kg/cm}^2 \\
 f_y &= 4200 \text{ kg/cm}^2
 \end{aligned}$$

Análisis

$$\begin{aligned}
 M_u &= 99 \text{ ton.m} \\
 \phi &= 0.9 \\
 m &= 24 \\
 k &= 2.04
 \end{aligned}$$

cuantia

$$\begin{aligned}
 \rho &= 0.0018 \\
 A_{s \text{ req}} &= 107 \text{ cm}^2 \\
 \rho_b &= 0.02125 \\
 \rho_{\text{max}} &= 0.0159375
 \end{aligned}$$

$$\begin{aligned}
 A_{s_{\text{min}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H & 106.92 \\
 A_{s_{\text{sup}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2 & 53.46
 \end{aligned}$$

DISEÑO A FLEXION SENTIDO LARGO

$$M = 2 \text{pilotes} * \frac{28 \text{ton}}{\text{pilote}} * 1.45 \text{m} = \mathbf{120 \text{ ton.m}}$$

Geometria

b= **240 cm**
h= 110 cm
r= 10 cm
d= 100 cm

Materiales

f'c= 210 kg/cm²
fy= **4200 kg/cm²**

Análisis

Mu= 120 ton.m
φ= 0.9
m= 24
k= 5.54

cuantia

ρ= 0.0018
As req= 48 cm²
pb= 0.02125
ρmax= 0.0159375

$$A_{s_{\min}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H \quad \mathbf{47.52}$$

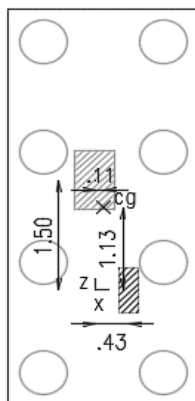
$$A_{s_{\sup}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2 \quad \mathbf{23.76}$$

CALCULO DE CENTRO DE CARGA

NUDO	Carga Serv (Ton)	x (m)	z (m)	P*x	P*z
C-1	58	0.43	0	24.9	0.0
C-2	178	0	1.5	0.0	267.0

Σ	236.0
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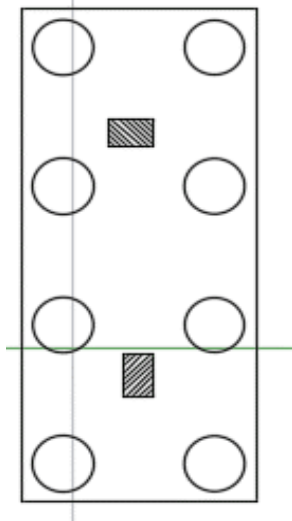
x (m) = **0.11**
z (m) = **1.13**



24.9	267.0
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Nota: el centro del dado se localiza en el centro de carga

TIPO DE DADO D-7



$\Sigma P =$ 269 Ton $F'_c = 21.0 \text{ MPa}$
 $\Sigma \text{Total} =$ 269 Ton $FC =$ 1.4
 $P_u =$ 377 Ton
 $P_{\text{pil}} =$ 47 Ton 8 0.8
 $e =$ 2.5 $\times \phi_{\text{pilote}} =$ 2
 A) Punzonamiento $A_1 = 0.42 \text{ m}^2$
 $487 \text{ Ton} > P_u$ OK

DISEÑO A CORTANTE

B) Cortante como viga "d": $B = 7.10 \text{ m}$
 $h_{\text{dado}} =$ 1.10 m
 $V_u = 4 \times 47 =$ 188 Ton
 415 Ton OK

B) Cortante como placa "d/2":

$b_o = 6.20 \text{ m}$ $L_c = 0.50 \text{ m}$ $B_c = 0.60 \text{ m}$
 $\alpha = 40$ $\beta = 0.83$

$$\phi V_c = \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1232 \text{ Ton}$$

$$\phi V_c = 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1531 \text{ Ton}$$

$$\phi V_c = \phi 0.33 \sqrt{f'_c} \times b_o \times d = 703 \text{ Ton}$$

$V_u =$ 377 Ton $< V_c$ OK

DISEÑO A FLEXION

$$M = 4 \text{ pilotes} \times \frac{47 \text{ ton}}{\text{pilote}} \times 0.60 \text{ m} = 113 \text{ ton.m}$$

Geometria

$b =$ 710 cm
 $h =$ 110 cm
 $r =$ 10 cm
 $d =$ 100 cm

Materiales

$f'_c =$ 210 kg/cm²
 $f_y =$ 4200 kg/cm²

Análisis

$M_u =$ 113 ton.m
 $\phi =$ 0.9
 $m =$ 24
 $k =$ 1.77

cuantia

$\rho =$ 0.0018
 $A_{s \text{ req}} =$ 141 cm²
 $\rho_b =$ 0.02125
 $\rho_{\text{max}} =$ 0.0159375

$A_{s_{\text{min}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H$ 140.58
 $A_{s_{\text{sup}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2$ 70.29

DISEÑO A FLEXION SENTIDO LARGO

$$M = 2pilotes * \frac{34ton}{pilote} * 1.00m = \quad \quad \quad \mathbf{94 \text{ ton.m}}$$

Geometria

b= **310 cm**
h= 110 cm
r= 10 cm
d= 100 cm

Materiales

f'c= 210 kg/cm2
fy= **4200 kg/cm2**

Análisis

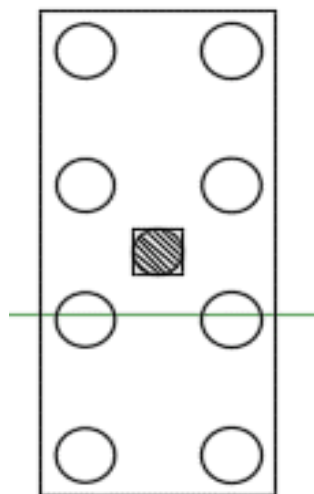
Mu= 94 ton.m
 ϕ = 0.9
m= 24
k= 3.37

cuantia

ρ = 0.0018
As req= 61 cm2
 ρ_b = 0.02125
 ρ_{max} = 0.0159375

$A_{s_{min}} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H$ 61.38
 $A_{s_{sup}} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H/2$ 30.69

TIPO DE DADO D-8



$$\begin{aligned}
 \Sigma P &= 224 \text{ Ton} & F'_c &= 21.0 \text{ MPa} \\
 \Sigma \text{Total} &= 224 \text{ Ton} & FC &= 1.4 \\
 P_u &= 314 \text{ Ton} \\
 P_{\text{pil}} &= 39 \text{ Ton} & 8 & 0.6 \\
 e &= 2.5 & \times \phi_{\text{pilote}} &= 1.5 \\
 \text{A) Punzonamiento} & & A_1 &= 0.42 \text{ m}^2 \\
 & & 487 \text{ Ton} & > P_u \text{ OK}
 \end{aligned}$$

DISEÑO A CORTANTE

$$\begin{aligned}
 \text{B) Cortante como viga "d":} & & B &= 5.40 \text{ m} \\
 h_{\text{dado}} &= 1.10 \text{ m} \\
 V_u &= 4 \times 39 = 157 \text{ Ton} \\
 & & 316 \text{ Ton} & \text{OK}
 \end{aligned}$$

B) Cortante como placa "d/2":

$$\begin{aligned}
 b_o &= 6.60 \text{ m} & L_c &= 0.50 \text{ m} & B_c &= 0.80 \text{ m} \\
 \alpha &= 40 & \beta &= 0.63 \\
 \phi V_c &= \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1620 \text{ Ton} \\
 \phi V_c &= 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1554 \text{ Ton} \\
 \phi V_c &= \phi 0.33 \sqrt{f'_c} \times b_o \times d = 749 \text{ Ton} \\
 V_u &= 314 \text{ Ton} < V_c & \text{OK}
 \end{aligned}$$

DISEÑO A FLEXION

$$M = 4 \text{ pilotes} \times \frac{39 \text{ ton}}{\text{pilote}} \times 0.80 \text{ m} = 125 \text{ ton.m}$$

Geometria

$$\begin{aligned}
 b &= 540 \text{ cm} \\
 h &= 110 \text{ cm} \\
 r &= 10 \text{ cm} \\
 d &= 100 \text{ cm}
 \end{aligned}$$

Materiales

$$\begin{aligned}
 f'_c &= 210 \text{ kg/cm}^2 \\
 f_y &= 4200 \text{ kg/cm}^2
 \end{aligned}$$

Análisis

$$\begin{aligned}
 M_u &= 125 \text{ ton.m} \\
 \phi &= 0.9 \\
 m &= 24 \\
 k &= 2.58
 \end{aligned}$$

cuantia

$$\begin{aligned}
 \rho &= 0.0018 \\
 A_{s \text{ req}} &= 107 \text{ cm}^2 \\
 \rho_b &= 0.02125 \\
 \rho_{\text{max}} &= 0.0159375
 \end{aligned}$$

$$\begin{aligned}
 A_{s_{\text{min}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H & 106.92 \\
 A_{s_{\text{sup}}} &= 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2 & 53.46
 \end{aligned}$$

DISEÑO A FLEXION SENTIDO LARGO

$$M = 4pilotes * \frac{28ton}{pilote} * 1.25m = \quad \quad \quad \mathbf{196 \text{ ton.m}}$$

Geometria

b= **240 cm**
h= 110 cm
r= 10 cm
d= 100 cm

Materiales

f'c= 210 kg/cm2
fy= **4200 kg/cm2**

Análisis

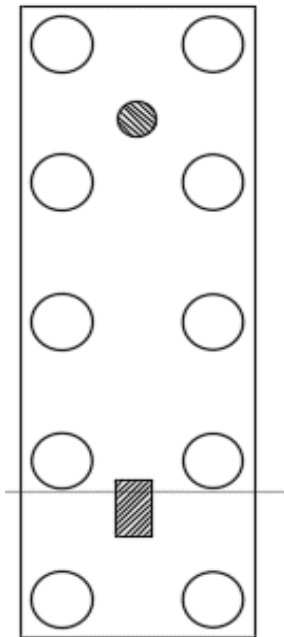
Mu= 196 ton.m
 ϕ = 0.9
m= 24
k= 9.07

cuantia

ρ = 0.002218391
As req= 53 cm2
 ρ_b = 0.02125
 ρ_{max} = 0.0159375

$A_{s_{min}} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H$ 47.52
 $A_{s_{sup}} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H/2$ 23.76

TIPO DE DADO D-9



$\Sigma P =$ 404 Ton $F'_c = 21.0 \text{ MPa}$
 $\Sigma \text{Total} =$ 404 Ton $FC =$ 1.4
 $P_u =$ 566 Ton
 $P_{\text{pil}} =$ 57 Ton 10 0.8
 $e =$ 2.5 $\times \phi_{\text{pilote}} =$ 2
 A) Punzonamiento $A_1 = 0.42 \text{ m}^2$
 487 Ton **No Cumple**

DISEÑO A CORTANTE

B) Cortante como viga "d": $B = 9.10 \text{ m}$
 $h_{\text{dado}} =$ 1.10 m

$$V_u = 5 \times 57 = 283 \text{ Ton}$$

532 Ton **OK**

B) Cortante como placa "d/2":

$b_o = 6.00 \text{ m}$ $L_c = 0.50 \text{ m}$ $B_c = 0.50 \text{ m}$
 $\alpha = 40$ $\beta = 1.00$

$$\phi V_c = \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1052 \text{ Ton}$$

$$\phi V_c = 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1519 \text{ Ton}$$

$$\phi V_c = \phi 0.33 \sqrt{f'_c} \times b_o \times d = 681 \text{ Ton}$$

$V_u =$ 452 Ton $< V_c$ **OK**

DISEÑO A FLEXION

$$M = 5 \text{ pilotes} \times \frac{57 \text{ ton}}{\text{pilote}} \times 0.80 \text{ m} = 226 \text{ ton.m}$$

Geometria

$b =$ 910 cm
 $h =$ 110 cm
 $r =$ 10 cm
 $d =$ 100 cm

Materiales

$f'_c =$ 210 kg/cm²
 $f_y =$ 4200 kg/cm²

Análisis

$M_u =$ 226 ton.m
 $\phi =$ 0.9
 $m =$ 24
 $k =$ 2.76

cuantia

$\rho =$ 0.0018
 $A_{s \text{ req}} =$ 180 cm²
 $\rho_b =$ 0.02125
 $\rho_{\text{max}} =$ 0.0159375

$A_{s_{\text{min}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H$ **180.18**
 $A_{s_{\text{sup}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2$ **90.09**

DISEÑO A FLEXION SENTIDO LARGO

$$M = 2pilotes * \frac{40ton}{pilote} * 1.15m = \quad \mathbf{130 \text{ ton.m}}$$

Geometria

b= **310 cm**
h= 110 cm
r= 10 cm
d= 100 cm

Materiales

f'c= 210 kg/cm²
fy= **4200 kg/cm²**

Análisis

Mu= 130 ton.m
φ= 0.9
m= 24
k= 4.66

cuantia

ρ= 0.0018
As req= 61 cm²
ρb= 0.02125
ρmax= 0.0159375

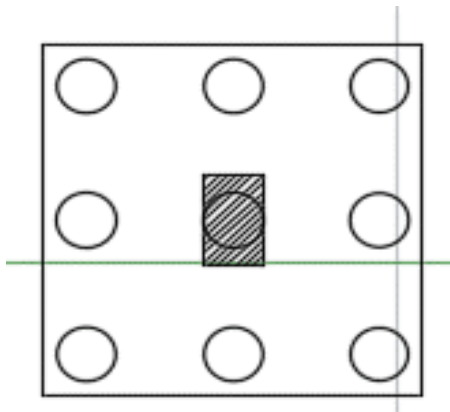
$$\mathbf{As_{min} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H}$$

61.38

$$\mathbf{As_{sup} = 0.0018 (\phi_{pilote} + 2 \text{ Recub} + e) H/2}$$

30.69

TIPO DE DADO D-10



$\Sigma P =$ 265 Ton $F'_c = 21.0 \text{ MPa}$
 $\Sigma \text{Total} =$ 265 Ton $FC =$ 1.4
 $P_u =$ 371 Ton
 $P_{\text{pil}} =$ 41 Ton 9 0.6
 $e =$ 2.5 $\times \phi_{\text{pilote}} =$ 1.5

A) Punzonamiento $A_1 = 0.42 \text{ m}^2$
 487 Ton $> P_u$ OK

DISEÑO A CORTANTE

B) Cortante como viga "d": $B = 3.90 \text{ m}$
 $h_{\text{dado}} =$ 1.10 m

$V_u = 3 \times 41 =$ 124 Ton

228 Ton OK

B) Cortante como placa "d/2":

$b_o = 7.20 \text{ m}$ $L_c = 0.60 \text{ m}$ $B_c = 1.00 \text{ m}$
 $\alpha = 40$ $\beta = 0.60$

$$\phi V_c = \phi 0.17 \left(1 + \frac{2}{\beta} \right) \sqrt{f'_c} \times b_o \times d = 1823 \text{ Ton}$$

$$\phi V_c = 0.083 \left(\frac{\alpha d}{b_o} + 2 \right) \times \sqrt{f'_c} \times b_o \times d = 1589 \text{ Ton}$$

$$\phi V_c = \phi 0.33 \sqrt{f'_c} \times b_o \times d = 817 \text{ Ton}$$

$V_u =$ 330 Ton $< V_c$ OK

DISEÑO A FLEXION

$$M = 5_{\text{pilotes}} \times \frac{41 \text{ ton}}{\text{pilote}} \times 0.80 \text{ m} = 165 \text{ ton.m}$$

Geometria

$b =$ 390 cm
 $h =$ 110 cm
 $r =$ 10 cm
 $d =$ 100 cm

Materiales

$f'_c =$ 210 kg/cm²
 $f_y =$ 4200 kg/cm²

Análisis

$M_u =$ 165 ton.m
 $\phi =$ 0.9
 $m =$ 24
 $k =$ 4.70

cuantia

$\rho =$ 0.0018
 $A_{s \text{ req}} =$ 77 cm²
 $\rho_b =$ 0.02125
 $\rho_{\text{max}} =$ 0.0159375

$A_{s_{\text{min}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H$ 77.22
 $A_{s_{\text{sup}}} = 0.0018 (\phi_{\text{pilote}} + 2 \text{ Recub} + e) H/2$ 38.61

DISEÑO DE ZAPATAS AISLADAS

PROYECTO: JARDIN CAMPO VERDE

CALCULÓ: JDH

ZAPATA TIPO Z-1

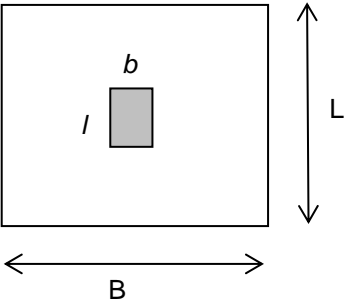
P (t)	FC	P _u (t)	s _{adm} (t/m ²)	b _{col} (cm)	l _{col} (cm)	h _{zap} (cm)
39.00	1.3	50.70	8.9	40	120	30

Materiales

f'c (MPa)	λ	fy (MPa)
21	1	420

1. Dimension del cimiento

A _{req} (m ²)	B (m)	L (m)	Check	Voladizo (m)
4.82	2.20	2.20	CUMPLE	0.9



2. Chequeo Esfuerzos de contacto

A₁ (mm²) = 480000

0.65 x 0.85 x f'c x A₁ = 5569.2 kN > Pu CUMPLE

3. Cortante como Viga

s _u (t/m ²)	V _u (kN)	φ
10.48	68.09	0.75

φVc = φ 0.17 λ √f'c x 250 = 146.07 kN > Vu CUMPLE

4. Cortante como placa

b ₀ (mm)	b	a _s	V _u (kN)	Check
4200	3.00	40	507	CUMPLE

φVc = φ 0.33 λ √f'c x 4200 x 250 = 1190.9 kN

φVc = φ 0.17 λ x (1 + 2 / b) x √f'c x b₀ x 250 = 1022.49 kN

φVc = φ 0.083 λ (a_s * d / b₀ + 2) √f'c x b₀ x 250 = 1312.22 kN

5. Diseño a flexion

M _u (t-m)	R (kg/cm ²)	k	ρ	A _s (cm ²)
4.24	7.54	0.050	0.0020	5.40

Colocar # 4 cada 0.24 m

Son 10 barras en c/direccion L= 2.1 m

DISEÑO DE ZAPATAS AISLADAS

PROYECTO: JARDIN CAMPO VERDE

CALCULÓ: JDH

ZAPATA TIPO Z-2

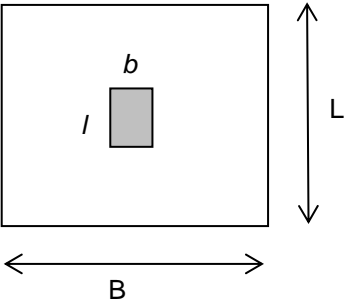
P (t)	FC	P _u (t)	s _{adm} (t/m ²)	b _{col} (cm)	l _{col} (cm)	h _{zap} (cm)
17.00	1.3	22.10	8.9	40	120	30

Materiales

f'c (MPa)	λ	fy (MPa)
21	1	420

1. Dimension del cimiento

A _{req} (m ²)	B (m)	L (m)	Check	Voladizo (m)
2.10	1.50	1.50	CUMPLE	0.55



2. Chequeo Esfuerzos de contacto

A₁ (mm²) = 480000

0.65 x 0.85 x f'c x A₁ = 5569.2 kN > Pu CUMPLE

3. Cortante como Viga

s _u (t/m ²)	V _u (kN)	φ
9.82	29.47	0.75

φVc = φ 0.17 λ √f'c x 250 = 146.07 kN > Vu CUMPLE

4. Cortante como placa

b ₀ (mm)	b	a _s	V _u (kN)	Check
4200	3.00	40	221	CUMPLE

φVc = φ 0.33 λ √f'c x 4200 x 250 = 1190.9 kN

φVc = φ 0.17 λ x (1 + 2 / b) x √f'c x b₀ x 250 = 1022.49 kN

φVc = φ 0.083 λ ($\frac{a_s * d}{b_0} + 2$) √f'c x b₀ x 250 = 1312.22 kN

5. Diseño a flexion

M _u (t-m)	R (kg/cm ²)	k	ρ	A _s (cm ²)
1.49	2.64	0.050	0.0007	5.40

Colocar # 4 cada 0.24 m

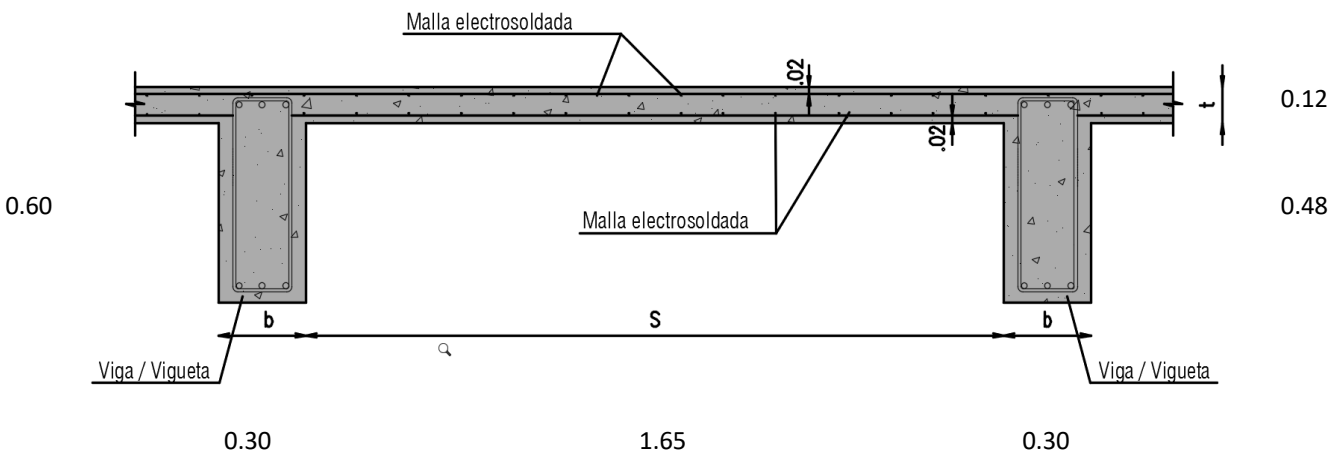
Son 7 barras en c/direccion L= 1.4 m

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: Jardin Infantil El Recreo

CALCULO: RCR

PISO: puente



CARGAS	[Kg/m ²]		[Kg/m ²]	
* PLACA	288			
* CIELO RASO			25	
* ACABADOS			170	
* OTROS			50	
C. MUERTA	288	Kg/m ²	+	245 Kg/m ²
C. VIVA	500	Kg/m ²		
C. TOTAL =				1033 Kg/m ²
C. ULTIMA = 1.2 CM + 1.6 CV =				1440 Kg/m ²
Factor de Carga, F.C.=				1.39

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

$q_u / \text{Vigueta} = 1440 \times 1.13 = 1619.6 \text{ Kg/m}$

DISEÑO DE LA LOSA

C. MUERTA =	508.0	Kg/m ²	Materiales (kg/cm ²)			
C. VIVA =	500.0	Kg/m ²	f'c =	280	b (cm) =	100
C. ULTIMA =	1409.6	Kg/m ²	fy =	4200	d (cm) =	9

Diseño a Flexión

	M _u (kg-m/m)	R (kg/cm ²)	k	ρ	A _s (cm ² /m)
M-	383.76	0.053	0.07	0.0014	2.16
M+	274.12	0.038	0.07	0.0010	2.16

Chequeo Cortante

v _u (kg/m)	φV _c (kg/m)	Check
1162.92	5986.30	Ok

VP1/

B=0.20 H=0.60 L=2.87		
Mu=-0.00 As =1.61 As(r)=3.70		Mu=-0.00 As =6.45 As(r)=3.70
Mu=0.16 As =4.48 As(r)=3.70	Mu=2.42 As =5.97 As(r)=3.70	Mu=0.16 As =3.97 As(r)=3.70
Vu=3.16		Vu=-3.16

VP2/

B=0.20 H=0.60 L=2.10		
Mu=-0.00 As =4.48 As(r)=3.70		Mu=-0.00 As =4.48 As(r)=3.70
Mu=0.12 As =4.48 As(r)=3.70	Mu=1.33 As =5.97 As(r)=3.70	Mu=0.12 As =4.48 As(r)=3.70
Vu=2.31		Vu=-2.31

VP3/

B=0.20 H=0.60 L=2.05		
Mu=-0.00 As =1.49 As(r)=3.70		Mu=-0.00 As =4.48 As(r)=3.70
Mu=0.47 As =1.49 As(r)=3.70	Mu=2.38 As =5.97 As(r)=3.70	Mu=0.47 As =4.48 As(r)=3.70
Vu=9.32		Vu=-9.32

VP2/

B=0.20 H=0.60 L=3.07		
Mu=-0.00 As=0.00 As(r)=3.70		Mu=-0.00 As=0.00 As(r)=3.70
Mu=0.00 As=0.00 As(r)=3.70	Mu=2.59 As=5.97 As(r)=3.70	Mu=0.00 As=0.00 As(r)=3.70
Vu=3.38		Vu=-3.38

VP3/

B=0.20 H=0.60 L=2.30		
Mu=-0.00 As=0.00 As(r)=3.70		Mu=-0.00 As=0.00 As(r)=3.70
Mu=0.00 As=0.00 As(r)=3.70	Mu=1.45 As=5.97 As(r)=3.70	Mu=0.00 As=0.00 As(r)=3.70
Vu=2.53		Vu=-2.53

VP7/

B=0.30 H=0.60 L=11.10		
Mu=-0.00 As=5.97 As(r)=5.54		Mu=-0.00 As=5.97 As(r)=5.54
Mu=0.90 As=13.04 As(r)=5.54	Mu=25.85 As=14.07 As(r)=13.11	Mu=0.90 As=11.61 As(r)=5.54
Vu=8.99		Vu=-8.99

VP8/

B=0.20 H=0.60 L=2.25		
Mu=-0.00 As=0.00 As(r)=3.70		Mu=-0.00 As=0.00 As(r)=3.70
Mu=0.00 As=0.00 As(r)=3.70	Mu=2.10 As=5.97 As(r)=3.70	Mu=0.00 As=0.00 As(r)=3.70
Vu=9.32		Vu=-9.32

DISEÑO DE VIGAS A TORSION

Proyecto: JARDIN INFANTIL CAMPO VERDE

Seccion del elemento

b (mm)	h (mm)	r' (mm)	Tu (kNm)	Vu (kN)	ϕ	f'c (Mpa)
600	600	50	138.4	41.4	0.75	28
λ						
1						

Parametros:

A_{cp} (mm ²)	p_{cp} (mm)	A_{oh} (mm ²)	p_h (mm)	vc (Mpa)	vu (Mpa)	A_0 (mm ²)
360000	2400	250000	2000	0.88192	0.1150	212500

1.- Limite de torsion

$T_{lim} = 17.7874$ kNm Diseñar por torsion

2.- Tamaño de la sección

Limite: 3.281 Mpa

Calculado: 2.608 MPa OK

3.- Refuerzo transversal a Torsión

Fleje No.	A_t (mm ²)	θ	$\cot \theta$	s_{calc} (mm)	$ph/8$ (mm)	s_t (mm)
4	127	45	1	122.85	250	122.85

4.- Refuerzo de cortante y torsion combinado

A_v (mm ²)	s_v (mm)	A_{v+t}/s	s (mm)	Ref. Min	
71.26	300	2.54263	99.90	47.570	Ok

5.- Refuerzo longitudinal por torsión

A_l (mm ²)	A_{lmin} (mm ²)	
2067.6	0	Ok
20.676		

DISEÑO DE VIGAS A TORSION

Proyecto: JARDIN INFANTIL CAMPO VERDE

Viga: V133

Seccion del elemento

b (mm)	h (mm)	r' (mm)	Tu (kNm)	Vu (kN)	ϕ	f'c (Mpa)
500	1030	40	330	82	0.75	28
λ						
1						

Parametros:

A_{cp} (mm ²)	p_{cp} (mm)	A_{oh} (mm ²)	p_h (mm)	vc (Mpa)	vu (Mpa)	A_0 (mm ²)
515000	3060	399000	2740	0.88192	0.1592	339150

1.- Limite de torsion

$T_{lim} =$ 28.5503 kNm Diseñar por torsion

2.- Tamaño de la sección

Limite: 3.281 Mpa

Calculado: 3.345 MPa cambiar seccion

3.- Refuerzo transversal a Torsión

Fleje No.	A_t (mm ²)	θ	$\cot \theta$	s_{calc} (mm)	ph/8 (mm)	s_t (mm)
3	71.26	45	1	46.14	342.5	46.14

4.- Refuerzo de cortante y torsion combinado

A_v (mm ²)	s_v (mm)	A_{v+t}/s	s (mm)	Ref. Min	
71.26	515	3.36560	42.35	16.804	Ok

5.- Refuerzo longitudinal por torsión

A_l (mm²) A_{lmin} (mm²)
4231.7 0 Ok

PROYECTO: CAMPO VERDE - V106

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
500	700	1250	670	1935	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 1429166667 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	10050	29179.8	250	39229.8	-7900692

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
115.856	-272.7755202	115.856

Inercia de la seccion fisurada, Icr (mm⁴) = 3513195652

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	584.14

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
1429166667	3513195652	6.400E+08	80266421.49	0.12541628	3534458378

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 1935

d (mm) = 670

cuantía negativa, ρ' = 0.005776119

Tiempo	ε	λ _Δ
6 meses	1.2	0.931094383
1 año	1.4	1.086276781
5 años	2	1.551823972

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 4.92 mm

Por LL = 1.03 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	4.92	4.5810	9.5010
1 año	4.92	5.3445	10.2645
5 años	4.92	7.6350	12.5550

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	4.92	18.5233	23.4433
1 año	4.92	21.6105	26.5305
5 años	4.92	30.8722	35.7922

$$\Delta_{largo\ plazo (Ie)} = \Delta_{largo\ plazo (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 3610.00 mm

Δ/240= 15.04 mm < 39.96, No Cumple
Contraflecha de 25 mm

PROYECTO: CAMPO VERDE - V107

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
500	600	1250	570	2550	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 9000000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	10050	38454	250	48504	-7266660

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
99.148	-293.1640401	99.148

Inercia de la seccion fisurada, Icr (mm⁴) = 2525074775

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	500.85

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
9000000000	2525074775	7.135E+08	58952718.56	0.08262469	2528727057

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 2550

d (mm) = 570

cuantía negativa, ρ' = 0.008947368

Tiempo	ε	λ _Δ
6 meses	1.2	0.829090909
1 año	1.4	0.967272727
5 años	2	1.381818182

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 4.92 mm

Por LL = 1.03 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	4.92	4.0791	8.9991
1 año	4.92	4.7590	9.6790
5 años	4.92	6.7985	11.7185

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	4.92	14.5180	19.4380
1 año	4.92	16.9377	21.8577
5 años	4.92	24.1967	29.1167

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 3530.00 mm

Δ/240= 14.71 mm < 32.78, No Cumple
Contraflecha de 19 mm

PROYECTO: CAMPO VERDE - V108

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
500	700	1250	670	2550	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 1429166667 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	10050	38454	250	48504	-8271660

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
109.140	-303.1564709	109.140

Inercia de la seccion fisurada, Icr (mm⁴) = 3561861677

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	590.86

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
1429166667	3561861677	9.587E+08	79354094.35	0.0827726	3567946552

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 2550

d (mm) = 670

cuantía negativa, ρ' = 0.00761194

Tiempo	ε	λ _Δ
6 meses	1.2	0.869189189
1 año	1.4	1.014054054
5 años	2	1.448648649

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 4.92 mm

Por LL = 1.03 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	4.92	4.2764	9.1964
1 año	4.92	4.9891	9.9091
5 años	4.92	7.1274	12.0474

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	4.92	17.1295	22.0495
1 año	4.92	19.9844	24.9044
5 años	4.92	28.5491	33.4691

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 3530.00 mm

Δ/240= 14.71 mm < 37.59, No Cumple
Contraflecha de 23 mm

PROYECTO: CAMPO VERDE - V201

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
400	600	966	570	1194	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 7200000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	7766.64	18005.52	200	25772.16	-5147205.6

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
108.449	-237.3098506	108.449

Inercia de la seccion fisurada, Icr (mm⁴) = 1908947901

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	491.55

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
7200000000	1908947901	1.150E+08	48054566.34	0.41786579	2295005854

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 1194

d (mm) = 570

cuantía negativa, ρ' = 0.005236842

Tiempo	ε	λ _Δ
6 meses	1.2	0.950990615
1 año	1.4	1.109489051
5 años	2	1.584984359

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 1.057 mm

Por LL = 0.495 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	1.057	1.0052	2.0622
1 año	1.057	1.1727	2.2297
5 años	1.057	1.6753	2.7323

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	1.057	3.1536	4.2106
1 año	1.057	3.6791	4.7361
5 años	1.057	5.2559	6.3129

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 5250.00 mm

Δ/480= 10.94 mm > 7.87, Cumple

PROYECTO: CAMPO VERDE - V202

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
400	600	1172	570	1194	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 7200000000 mm4

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	9422.88	18005.52	200	27428.4	-6091262.4

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
118.934	-256.0764507	118.934

Inercia de la seccion fisurada, Icr (mm4) = 2253683210

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	481.07

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
7200000000	2253683210	8.740E+07	49101973.19	0.56180747	3130773825

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 1194

d (mm) = 570

cuantía negativa, ρ' = 0.005236842

Tiempo	ε	λ _Δ
6 meses	1.2	0.950990615
1 año	1.4	1.109489051
5 años	2	1.584984359

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 1.41 mm

Por LL = 0.731 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	1.41	1.3409	2.7509
1 año	1.41	1.5644	2.9744
5 años	1.41	2.2348	3.6448

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	1.41	3.0837	4.4937
1 año	1.41	3.5977	5.0077
5 años	1.41	5.1395	6.5495

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 5250.00 mm

Δ/480= 10.94 mm > 8.23, Cumple

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
400	600	1342	570	1548	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular
Ig = 7200000000 mm4

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	10789.68	23343.84	200	34133.52	-7083871.2

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
121.309	-291.9765193	121.309

Inercia de la seccion fisurada, Icr (mm4) = 2564569461

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	478.69

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
7200000000	2564569461	1.830E+08	49345535.47	0.26964773	2655451991

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 1548
d (mm) = 570
cuantía negativa, ρ' = 0.006789474

Tiempo	ε	λ _Δ
6 meses	1.2	0.895874263
1 año	1.4	1.04518664
5 años	2	1.493123772

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 9.7 mm
Por LL = 1.95 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	9.7	8.6900	18.3900
1 año	9.7	10.1383	19.8383
5 años	9.7	14.4833	24.1833

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	9.7	23.5620	33.2620
1 año	9.7	27.4890	37.1890
5 años	9.7	39.2701	48.9701

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 10710.00 mm
Δ/240= 44.63 mm < 54.26, No Cumple
Contraflecha de 10 mm

PROYECTO: CAMPO VERDE - V302

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
400	600	1250	570	1136	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular
I_g = 7200000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	10050	17130.88	200	27180.88	-6413735.2

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
123.584	-259.4885607	123.584

Inercia de la seccion fisurada, I_{cr} (mm⁴) = 2374184565

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	476.42

5. Calculo de la Inercia efectiva

I _g (mm ⁴)	I _{cr} (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	I _e (mm ⁴)
7200000000	2374184565	1.110E+08	49581197.26	0.44667745	2804268084

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 1136
d (mm) = 570
cuantía negativa, ρ' = 0.004982456

Tiempo	ε	λ _Δ
6 meses	1.2	0.960674157
1 año	1.4	1.120786517
5 años	2	1.601123596

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 9.5 mm
Por LL = 1.8 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	9.5	9.1264	18.6264
1 año	9.5	10.6475	20.1475
5 años	9.5	15.2107	24.7107

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	9.5	23.4322	32.9322
1 año	9.5	27.3375	36.8375
5 años	9.5	39.0536	48.5536

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 10710.00 mm
Δ/240= 44.63 mm < 53.18, No Cumple
Contraflecha de 9 mm

PROYECTO: CAMPO VERDE - V406

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
300	600	597	570	597	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 5400000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	4799.88	9002.76	150	13802.64	-3096042

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
104.846	-196.8633315	104.846

Inercia de la seccion fisurada, Icr (mm⁴) = 1191652137

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	495.15

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
5400000000	1191652137	6.230E+07	35778649.01	0.57429613	1988764059

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 597

d (mm) = 570

cuantía negativa, ρ' = 0.003491228

Tiempo	ε	λ _Δ
6 meses	1.2	1.021657954
1 año	1.4	1.191934279
5 años	2	1.702763256

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 5 mm

Por LL = 1.08 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5	5.1083	10.1083
1 año	5	5.9597	10.9597
5 años	5	8.5138	13.5138

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5	13.8703	18.8703
1 año	5	16.1820	21.1820
5 años	5	23.1172	28.1172

$$\Delta_{largo\ plazo (Ie)} = \Delta_{largo\ plazo (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 12950.00 mm

Δ/240= 53.96 mm > 31.05, Cumple

PROYECTO: CAMPO VERDE - V407

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
300	600	597	570	597	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 5400000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	4799.88	9002.76	150	13802.64	-3096042

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
104.846	-196.8633315	104.846

Inercia de la seccion fisurada, Icr (mm⁴) = 1191652137

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	495.15

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
5400000000	1191652137	2.930E+07	35778649.01	1.2211143	8854330272

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 597

d (mm) = 570

cuantía negativa, ρ' = 0.003491228

Tiempo	ε	λ _Δ
6 meses	1.2	1.021657954
1 año	1.4	1.191934279
5 años	2	1.702763256

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 5.505 mm

Por LL = 1.291 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5.505	5.6242	11.1292
1 año	5.505	6.5616	12.0666
5 años	5.505	9.3737	14.8787

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5.505	3.4301	8.9351
1 año	5.505	4.0017	9.5067
5 años	5.505	5.7168	11.2218

$$\Delta_{largo\ plazo (Ie)} = \Delta_{largo\ plazo (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 12950.00 mm

Δ/240= 53.96 mm > 12.01, Cumple

PROYECTO: CAMPO VERDE - V217

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
300	600	1626	570	852	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 5400000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	13073.04	12848.16	150	25921.2	-7965559.2

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
159.704	-332.5124704	159.704

Inercia de la seccion fisurada, Icr (mm⁴) = 2792185077

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	440.30

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
5400000000	2792185077	1.599E+08	40236499.33	0.25161966	2833729283

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 852

d (mm) = 570

cuantía negativa, ρ' = 0.004982456

Tiempo	ε	λ _Δ
6 meses	1.2	0.960674157
1 año	1.4	1.120786517
5 años	2	1.601123596

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 12.31 mm

Por LL = 5.96 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	12.31	11.8259	24.1359
1 año	12.31	13.7969	26.1069
5 años	12.31	19.7098	32.0198

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	12.31	22.5356	34.8456
1 año	12.31	26.2916	38.6016
5 años	12.31	37.5594	49.8694

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 10610.00 mm

Δ/240= 22.10 mm < 61.23, No Cumple
Contraflecha de 40 mm

PROYECTO: CAMPO VERDE - V312

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
400	600	796	570	796	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular
Ig = 7200000000 mm4

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	6399.84	12003.68	200	18403.52	-4128056

Solucion de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
104.846	-196.8633315	104.846

Inercia de la seccion fisurada, Icr (mm4) = 1588869515

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	495.15

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
7200000000	1588869515	1.194E+08	47704865.35	0.39953824	1946739612

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 796
d (mm) = 570
cuantía negativa, ρ' = 0.003491228

Tiempo	ε	λ _Δ
6 meses	1.2	1.021657954
1 año	1.4	1.191934279
5 años	2	1.702763256

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 5.69 mm
Por LL = 1.5 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5.69	5.8132	11.5032
1 año	5.69	6.7821	12.4721
5 años	5.69	9.6887	15.3787

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5.69	21.5002	27.1902
1 año	5.69	25.0836	30.7736
5 años	5.69	35.8337	41.5237

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 15550.00 mm
Δ/240= 64.79 mm > 47.07, Cumple

PROYECTO: CAMPO VERDE - V412

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
400	600	796	570	796	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular
Ig = 7200000000 mm4

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	6399.84	12003.68	200	18403.52	-4128056

Solucion de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
104.846	-196.8633315	104.846

Inercia de la seccion fisurada, Icr (mm4) = 1588869515

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	495.15

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
7200000000	1588869515	1.599E+08	47704865.35	0.29832322	1737843873

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 796
d (mm) = 570
cuantía negativa, ρ' = 0.003491228

Tiempo	ε	λ _Δ
6 meses	1.2	1.021657954
1 año	1.4	1.191934279
5 años	2	1.702763256

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 3.547 mm
Por LL = 1.279 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	3.547	3.6238	7.1708
1 año	3.547	4.2278	7.7748
5 años	3.547	6.0397	9.5867

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	3.547	15.0137	18.5607
1 año	3.547	17.5160	21.0630
5 años	3.547	25.0229	28.5699

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 7300.00 mm
Δ/240= 30.42 mm < 33.87, No Cumple
Contraflecha de 4 mm

PROYECTO: CAMPO VERDE - VP 7

FECHA: 9/08/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
300	600	597	560	597	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 5400000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	4799.88	9002.76	150	13802.64	-3048043.2

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
103.781	-195.7989788	103.781

Inercia de la seccion fisurada, Icr (mm⁴) = 1147427404

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	496.22

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
5400000000	1147427404	2.585E+08	35701906.42	0.13811182	1158630661

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 597

d (mm) = 560

cuantía negativa, ρ' = 0.003553571

Tiempo	ε	λ _Δ
6 meses	1.2	1.018953753
1 año	1.4	1.188779378
5 años	2	1.698256255

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 10.39 mm

Por LL = 9.75 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	10.39	10.5869	20.9769
1 año	10.39	12.3514	22.7414
5 años	10.39	17.6449	28.0349

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	10.39	49.3422	59.7322
1 año	10.39	57.5659	67.9559
5 años	10.39	82.2370	92.6270

$$\Delta_{largo\ plazo (Ie)} = \Delta_{largo\ plazo (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 11550.00 mm

Δ/240= 48.13 mm < 138.07, No Cumple
Contraflecha de 55 mm

PROYECTO: CAMPO VERDE - V312

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm ²)	d (mm)	As' (mm ²)	d' (mm)	f'c (MPa)
400	600	796	570	796	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 7200000000 mm⁴

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	6399.84	12003.68	200	18403.52	-4128056

Solución de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
104.846	-196.8633315	104.846

Inercia de la seccion fisurada, Icr (mm⁴) = 1588869515

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	495.15

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
7200000000	1588869515	1.194E+08	47704865.35	0.39953824	1946739612

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm²) = 796

d (mm) = 570

cuantía negativa, ρ' = 0.003491228

Tiempo	ε	λ _Δ
6 meses	1.2	1.021657954
1 año	1.4	1.191934279
5 años	2	1.702763256

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 5.69 mm

Por LL = 1.5 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5.69	5.8132	11.5032
1 año	5.69	6.7821	12.4721
5 años	5.69	9.6887	15.3787

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	5.69	21.5002	27.1902
1 año	5.69	25.0836	30.7736
5 años	5.69	35.8337	41.5237

$$\Delta_{largo\ plazo (Ie)} = \Delta_{largo\ plazo (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 15550.00 mm

Δ/240= 64.79 mm > 47.07, Cumple

PROYECTO: CAMPO VERDE - V412

FECHA: 19/06/2018

CALCULO DE DEFLEXION EN VIGAS

1. Propiedades de la Seccion

B (mm)	H (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
400	600	796	570	796	40	28

2. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular
Ig = 7200000000 mm4

3. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
8.04	6399.84	12003.68	200	18403.52	-4128056

Solucion de la ecuación cuadrática

x1	x2	Eje Neutro (mm)
104.846	-196.8633315	104.846

Inercia de la seccion fisurada, Icr (mm4) = 1588869515

4. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
28	24870.06232	3.280731626	495.15

5. Calculo de la Inercia efectiva

Ig (mm ⁴)	Icr (mm ⁴)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	Ie (mm ⁴)
7200000000	1588869515	1.599E+08	47704865.35	0.29832322	1737843873

6. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 796
d (mm) = 570
cuantía negativa, ρ' = 0.003491228

Tiempo	ε	λ _Δ
6 meses	1.2	1.021657954
1 año	1.4	1.191934279
5 años	2	1.702763256

DEFLEXION INSTANTANEA (resultado analisis)

Por DL = 3.547 mm
Por LL = 1.279 mm

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	3.547	3.6238	7.1708
1 año	3.547	4.2278	7.7748
5 años	3.547	6.0397	9.5867

DEFLEXION ESPERADA A LARGO PLAZO (Inercia efectiva)

Tiempo	Instantanea	Largo plazo	Total (mm)
6 meses	3.547	15.0137	18.5607
1 año	3.547	17.5160	21.0630
5 años	3.547	25.0229	28.5699

$$\Delta_{largo\ plazo\ (Ie)} = \Delta_{largo\ plazo\ (Ig)} * \left(\frac{Ig}{Ie}\right)$$

DEFLEXION MAXIMA ADMISIBLE

L (mm)= 7900.00 mm
Δ/240= 32.92 mm < 33.87, No Cumple
Contraflecha de 1 mm

Proyecto: Jardin Campo Verde

Calculo : JDH

Diseño de pilotes circulares

Capacidad de pilotes según Consolciv (Ton)

diametro	8	9	10	11	12
0.20	6.4	7.3	8.2	9.1	10
0.40	13.5	15.3	17.1	18.9	20.7
0.60	21.2	24	26.8	29.6	32.4
0.80	29.7	33.5	37.3	41.1	44.9

f'c= 210 kg/cm² Rec= 50 mm Ø 0.80 = E Ø4/8 @ 75 mm
Fy= 4200 kg/cm² Ø 0.60 = E Ø3/8 @ 75 mm

Eje	Fy (Ton)	Diametro (m)	Z (m)	Cantidad calculada	Cantidad	0.25 f'c Ag => D+L Según C.15-2	Cortante Vu/pilote< φVc+φVs
A-10	224	0.80	12	4.99	5	263.89 Ton Ok	45 107
B-10	197	0.80	12	4.39	5	263.89 Ton Ok	39 107
C-10	287	0.60	12	8.86	9	148.44 Ton Ok	32 47
A-8	177	0.80	12	3.94	4	263.89 Ton Ok	44 107
B-8	155	0.80	12	3.45	4	263.89 Ton Ok	39 107
C-8	219	0.60	12	6.76	8	148.44 Ton Ok	27 47
A-6	173	0.60	12	5.34	6	148.44 Ton Ok	29 47
B-6	130	0.80	12	2.90	3	263.89 Ton Ok	43 107
C-6	188	0.60	12	5.80	6	148.44 Ton Ok	31 47
A-2	188	0.60	12	5.80	6	148.44 Ton Ok	31 47
B-2	166	0.80	12	3.70	4	263.89 Ton Ok	42 107
C-2	202	0.60	12	6.23	6	148.44 Ton Ok	34 47
C-1	74	0.80	12	1.65	2	263.89 Ton Ok	37 107
C-4	104	0.60	12	3.21	3	148.44 Ton Ok	35 47
C-5	82	0.60	12	2.54	3	148.44 Ton Ok	27 47
D-1	118	0.80	12	2.63	3	263.89 Ton Ok	39 107
D-3	145	0.80	12	3.23	4	263.89 Ton Ok	36 107
D-5	146	0.80	12	3.25	4	263.89 Ton Ok	37 107
E-1	105	0.80	12	2.34	3	263.89 Ton Ok	35 107
E-3	151	0.80	12	3.36	4	263.89 Ton Ok	38 107
E-5	136	0.80	12	3.03	3	263.89 Ton Ok	45 107
F-1	106	0.80	12	2.36	3	263.89 Ton Ok	35 107
F-3	113	0.80	12	2.52	3	263.89 Ton Ok	38 107
F-5	138	0.80	12	3.07	4	263.89 Ton Ok	35 107
G-1	102	0.80	12	2.27	3	263.89 Ton Ok	34 107
G-3	41	0.80	12	0.91	2	263.89 Ton Ok	21 107
G-5	97	0.80	12	2.16	3	263.89 Ton Ok	32 107
H-9	99.56	0.80	12	2.22	3	263.89 Ton Ok	33 107
I-9	156	0.80	12	3.47	4	263.89 Ton Ok	39 107
J-9	102.11	0.80	12	2.27	3	263.89 Ton Ok	34 107
H-7	119	0.80	12	2.65	3	263.89 Ton Ok	40 107
I-7	125.35	0.80	12	2.79	3	263.89 Ton Ok	42 107
J-7	96.54	0.80	12	2.15	3	263.89 Ton Ok	32 107
H-4	125	0.80	12	2.78	3	263.89 Ton Ok	42 107
I-4	148	0.80	12	3.30	4	263.89 Ton Ok	37 107
J-4	96.22	0.80	12	2.14	3	263.89 Ton Ok	32 107
H-1	125	0.80	12	2.78	3	263.89 Ton Ok	42 107
I-1	164	0.80	12	3.65	4	263.89 Ton Ok	41 107
J-1	102	0.80	12	2.27	3	263.89 Ton Ok	34 107

DISEÑO DE VIGAS DE AMARRE DE CIMENTACION

 VIGA: **VA**
1. Dimensiones minimas:

 Capacidad de Disipacion: **DMO**

Luz, L (m)	h_{min} (cm)	b (cm)	h_{adop} (cm)
5.7	19	30	60

Ok
2. Refuerzo a traccion y compresion (A.3.6.4.2)

Aa	0.25Aa	Pu	Tu (t)
0.15	0.0375	25	0.9375

Refuerzo a tracción:
 $f_y = 4200 \text{ kg/cm}^2$
 $A_{st} = 0.248 \text{ cm}^2$

Sección a compresión:
 $f'_c = 280 \text{ kg/cm}^2$
 $A_{req} = 5.151 \text{ cm}^2$
 $A_{viga} = 1800 \text{ cm}^2$

Ok
3. Chequeo a Flexión

 Asentamiento diferencial máximo (m): **0.01**

Δ (m)	E (kg/cm ²)	I (m ⁴)	M (t.m)	V (t)	F.Carga
0.01	250998.01	0.0027	12.52	4.39	1.3

Refuerzo requerido:

Mu (t.m)	d (cm)	R (kg/cm ²)	k	ρ_{req}	As (cm ²)
16.276	53	0.21460	0.066666667	0.005995	9.53267267

Vu (t)	ϕV_c (t)	# fleje	Nº ramas	Av (cm ²)	s (cm)
5.707	6.8688	3	2	0.76	-218.4

S minimo
RESUMEN:

As = 9.533 cm²
 Diam. flejes 3/8
 Separación= 15 cm

RESISTENCIA ÚLTIMA MENSULA PUENTE ENTRE B Y C

Geometría

b= 40 cm
h= 50 cm
R= 4 cm
d= 46 cm

Materiales

f'c= 280 kg/cm²
fy= 4200 kg/cm²

Análisis

Mu= 2.5 kN.m
φ= 0.9
m= 18
k= 0.33

DISEÑO A FLEXIÓN

Cuantía

ρ= 0.00180 *min*
As req= 3.60 cm²
ρ_b= 0.02833
ρ_{max}= 0.02125
Asmax= 39.10
#fleje= #3

Refuerzo

fila 1		fila 2	
Cantidad	Barra	Cantidad	Barra
3	#5	0	#6
3	#7	0	#5

As= 17.58 cm ²	As= 0.00 cm ²
S= 3.73 cm	S= -30.10 cm
bsug= 40 cm	
As= 17.58 cm²	

CHEQUEO CORTANTE EN VIGAS

Vu= 56.0 kN
φ= 0.75

Refuerzo

Ramas	Barra	Separ. (m)
4	#3	0.15

φVc=	124.1	kN
φVs=	548.7	kN
φVn=	672.8	kN

Av= 2.84 cm²

φVn > Vu **OK CUMPLE**

RESISTENCIA ÚLTIMA MENSULA CUBIERTA ENTRE B y C

Geometría

b= 100 cm
h= 30 cm
R= 4 cm
d= 26 cm

Materiales

f'c= 280 kg/cm²
fy= 4200 kg/cm²

Análisis

Mu= 57.0 kN.m
φ= 0.9
m= 18
k= 9.37

DISEÑO A FLEXIÓN

Cuantía

ρ= 0.00228
As req= 5.92 cm²
ρ_b= 0.02833
ρ_{max}= 0.02125
Asmax= 55.25
#fleje= #3

Refuerzo

fila 1		fila 2	
Cantidad	Barra	Cantidad	Barra
9	#3	0	#6
	#7	0	#5

As= 6.39 cm²
S= 10.19 cm
bsug= 100 cm
As= 6.39 cm²

As= 0.00 cm²
S= -90.10 cm

CHEQUEO CORTANTE EN VIGAS

Vu= 93.0 kN
φ= 0.75

Refuerzo

Ramas	Barra	Separ. (m)
4	#4	0.15

φVc=	175.4	kN
φVs=	563.5	kN
φVn=	738.9	kN

Av= 5.16 cm²

φVn > Vu OK CUMPLE

Nodes

Node	X (m)	Y (m)	Z (m)
1	5.000	12.500	0.000
2	5.000	0.000	0.000
3	15.000	12.500	0.000
4	15.000	0.000	0.000
5	5.000	11.500	0.000
6	15.000	11.500	0.000
7	5.000	10.500	0.000
8	15.000	10.500	0.000
9	5.000	9.500	0.000
10	15.000	9.500	0.000
11	5.000	8.500	0.000
12	15.000	8.500	0.000
13	5.000	7.500	0.000
14	15.000	7.500	0.000
15	5.000	6.500	0.000
16	15.000	6.500	0.000
17	5.000	5.500	0.000
18	15.000	5.500	0.000
19	5.000	4.500	0.000
20	15.000	4.500	0.000
21	5.000	3.500	0.000
22	15.000	3.500	0.000
23	5.000	2.500	0.000
24	15.000	2.500	0.000
25	5.000	1.500	0.000
26	15.000	1.500	0.000
27	5.000	0.500	0.000
28	15.000	0.500	0.000

Beams

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1	1	5	1.000	1	0
2	3	6	1.000	2	0
3	5	7	1.000	1	0
4	6	8	1.000	2	0
5	7	9	1.000	1	0
6	8	10	1.000	2	0
7	9	11	1.000	1	0
8	10	12	1.000	2	0
9	11	13	1.000	1	0
10	12	14	1.000	2	0
11	13	15	1.000	1	0
12	14	16	1.000	2	0
13	15	17	1.000	1	0
14	16	18	1.000	2	0
15	17	19	1.000	1	0
16	18	20	1.000	2	0
17	19	21	1.000	1	0
18	20	22	1.000	2	0
19	21	23	1.000	1	0
20	22	24	1.000	2	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property β (degrees)	
21	23	25	1.000	1	0
22	24	26	1.000	2	0
23	25	27	1.000	1	0
24	26	28	1.000	2	0
25	27	2	0.500	1	0
26	28	4	0.500	2	0

Section Properties

Prop	Section	Area (cm ²)	I _{yy} (cm ⁴)	I _{zz} (cm ⁴)	J (cm ⁴)	Material
1	Cir 0.60	2.83E+3	636E+3	636E+3	1.27E+6	CONCRETE
2	Cir 0.80	5.03E+3	2.01E+6	2.01E+6	4.02E+6	CONCRETE

Materials

Mat	Name	E (kN/mm ²)	ν	Density (kg/m ³)	α (/°C)
1	STEEL	205.000	0.300	7.83E+3	12E -6
2	STAINLESSSTEEL	197.930	0.300	7.83E+3	18E -6
3	ALUMINUM	68.948	0.330	2.71E+3	23E -6
4	CONCRETE	21.718	0.170	2.4E+3	10E -6

Supports

Node	X (kN/mm)	Y (kN/mm)	Z (kN/mm)	rX (kN·m/deg)	rY (kN·m/deg)	rZ (kN·m/deg)
2	6.015	1.203	6.015	-	-	-
4	8.020	1.604	8.020	-	-	-
5	1.203	-	1.203	-	-	-
6	1.604	-	1.604	-	-	-
7	2.406	-	2.406	-	-	-
8	3.208	-	3.208	-	-	-
9	3.609	-	3.609	-	-	-
10	4.812	-	4.812	-	-	-
11	4.812	-	4.812	-	-	-
12	6.416	-	6.416	-	-	-
13	6.015	-	6.015	-	-	-
14	8.020	-	8.020	-	-	-
15	6.015	-	6.015	-	-	-
16	8.020	-	8.020	-	-	-
17	6.015	-	6.015	-	-	-
18	8.020	-	8.020	-	-	-
19	6.015	-	6.015	-	-	-
20	8.020	-	8.020	-	-	-
21	6.015	-	6.015	-	-	-
22	8.020	-	8.020	-	-	-
23	6.015	-	6.015	-	-	-
24	8.020	-	8.020	-	-	-
25	6.015	-	6.015	-	-	-
26	8.020	-	8.020	-	-	-
27	6.015	-	6.015	-	-	-

Supports Cont...

Node	X	Y	Z	rX	rY	rZ
	(kN/mm)	(kN/mm)	(kN/mm)	(kN`m/deg)	(kN`m/deg)	(kN`m/deg)
28	8.020	-	8.020	-	-	-

Primary Load Cases

Number	Name	Type
1	REACC	Dead

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
2	COMBINATION LOAD CASE 2	1	REACC	1.40

Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
1	1	+ve	4.283	4.568	0.428	0.000	0.000	0.000
			2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-0.000
	5	-ve	-	-	-	-	-	2:COMBIN
			4.283	4.568	0.428	0.000	0.428	0.000
			2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
2	3	+ve	0.000	0.000	0.000	0.000	0.000	-4.568
			-	-	-	-	-	2:COMBIN
			6.281	5.996	0.385	0.000	0.000	0.000
	6	-ve	2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-5.996
			-	-	-	-	-	2:COMBIN
3	5	+ve	-	-	-	-	-	2:COMBIN
			4.283	3.276	0.307	0.000	0.428	0.000
			2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
	7	-ve	0.000	0.000	0.000	0.000	0.000	-4.568
			-	-	-	-	-	2:COMBIN
			4.283	3.276	0.307	0.000	0.735	0.000
4	6	+ve	2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-5.996
			-	-	-	-	-	2:COMBIN
	8	-ve	6.281	4.732	0.304	0.000	0.690	0.000
			2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-10.728
5	7	+ve	-	-	-	-	-	2:COMBIN
			4.283	1.501	0.141	0.000	0.735	0.000
			2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
	9	-ve	0.000	0.000	0.000	0.000	0.000	-7.844
			-	-	-	-	-	2:COMBIN
			4.283	1.501	0.141	0.000	0.876	0.000
6	8	+ve	2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-9.346
			-	-	-	-	-	2:COMBIN
	10	-ve	6.281	2.854	0.183	0.000	0.690	0.000
			2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-10.728

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
7	9	+ve	4.283	0.000	0.000	0.000	0.876	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.146	-0.014	0.000	0.000	-9.346
	11	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.863	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.146	-0.014	0.000	0.000	-9.200
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.893	0.057	0.000	0.873	0.000
8	10	+ve	2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-13.582
			-	-	-	-	-	2:COMBIN
	12	-ve	6.281	0.893	0.057	0.000	0.931	0.000
			2:COMBIN	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			0.000	0.000	0.000	0.000	0.000	-14.475
			-	-	-	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.863	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
9	11	+ve	0.000	-1.308	-0.123	0.000	0.000	-9.200
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.740	0.000
	13	-ve	2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.308	-0.123	0.000	0.000	-7.892
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.931	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.777	-0.050	0.000	0.000	-14.475
10	12	+ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.881	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
	14	-ve	0.000	-0.777	-0.050	0.000	0.000	-13.698
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.565	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.864	-0.175	0.000	0.000	-6.028
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
11	13	+ve	4.283	0.000	0.000	0.000	0.740	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.864	-0.175	0.000	0.000	-7.892
	15	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.755	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.864	-0.175	0.000	0.000	-6.028
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.881	0.000
12	14	+ve	2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.947	-0.125	0.000	0.000	-13.698
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
	16	-ve	6.281	0.000	0.000	0.000	0.755	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.947	-0.125	0.000	0.000	-11.751
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.876	0.000
			2:COMBIN	-	-	-	2:COMBIN	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
13	15	+ve	4.283	0.000	0.000	0.000	0.565	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.864	-0.175	0.000	0.000	-6.028
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.390	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.864	-0.175	0.000	0.000	-4.164
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.390	0.000
14	16	+ve	6.281	0.000	0.000	0.000	0.755	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-2.451	-0.158	0.000	0.000	-11.751
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.598	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-2.451	-0.158	0.000	0.000	-9.300
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.390	0.000
15	17	+ve	4.283	0.000	0.000	0.000	0.390	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.571	-0.147	0.000	0.000	-4.164
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.243	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.571	-0.147	0.000	0.000	-2.593
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.598	0.000
16	18	+ve	6.281	0.000	0.000	0.000	0.598	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-2.503	-0.161	0.000	0.000	-9.300
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.437	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-2.503	-0.161	0.000	0.000	-6.797
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.243	0.000
17	19	+ve	4.283	0.000	0.000	0.000	0.243	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.166	-0.109	0.000	0.000	-2.593
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.134	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.166	-0.109	0.000	0.000	-1.427
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.437	0.000
18	20	+ve	6.281	0.000	0.000	0.000	0.437	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-2.275	-0.146	0.000	0.000	-6.797
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.291	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-2.275	-0.146	0.000	0.000	-4.522
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.390	0.000

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
19	21	+ve	4.283	0.000	0.000	0.000	0.134	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.765	-0.072	0.000	0.000	-1.427
	23	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.062	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.765	-0.072	0.000	0.000	-0.663
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			-	-	-	-	-	-
20	22	+ve	6.281	0.000	0.000	0.000	0.291	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.891	-0.122	0.000	0.000	-4.522
	24	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.169	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.891	-0.122	0.000	0.000	-2.631
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			-	-	-	-	-	-
21	23	+ve	4.283	0.000	0.000	0.000	0.062	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.431	-0.040	0.000	0.000	-0.663
	25	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.022	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.431	-0.040	0.000	0.000	-0.231
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			-	-	-	-	-	-
22	24	+ve	6.281	0.000	0.000	0.000	0.169	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.436	-0.092	0.000	0.000	-2.631
	26	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.077	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-1.436	-0.092	0.000	0.000	-1.195
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			-	-	-	-	-	-
23	25	+ve	4.283	0.000	0.000	0.000	0.022	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.196	-0.018	0.000	0.000	-0.231
	27	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.003	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.196	-0.018	0.000	0.000	-0.035
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			-	-	-	-	-	-
24	26	+ve	6.281	0.000	0.000	0.000	0.077	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.957	-0.062	0.000	0.000	-1.195
	28	-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.015	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.957	-0.062	0.000	0.000	-0.239
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon·m)	My (MTon·m)	Mz (MTon·m)
25	27	+ve	4.283	0.000	0.000	0.000	0.003	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.070	-0.007	0.000	0.000	-0.035
		-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			4.283	0.000	0.000	0.000	0.000	0.000
			2:COMBIN	-	-	-	-	2:COMBIN
	2	+ve	0.000	-0.070	-0.007	0.000	-0.000	0.000
			-	2:COMBIN	2:COMBIN	-	2:COMBIN	-
			6.281	0.000	0.000	0.000	0.015	0.000
		-ve	2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.477	-0.031	0.000	0.000	-0.239
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
26	28	+ve	6.281	0.000	0.000	0.000	0.000	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.477	-0.031	0.000	0.000	-0.239
		-ve	-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.000	0.000
			2:COMBIN	-	-	-	2:COMBIN	-
	4	+ve	0.000	-0.477	-0.031	0.000	0.000	-0.000
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN
			6.281	0.000	0.000	0.000	0.000	0.000
		-ve	2:COMBIN	-	-	-	2:COMBIN	-
			0.000	-0.477	-0.031	0.000	0.000	-0.000
			-	2:COMBIN	2:COMBIN	-	-	2:COMBIN

```
*****
*
*          STAAD.Pro V8i SELECTseries6          *
*          Version  20.07.11.90                  *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    JUL 12, 2018                 *
*          Time=    16:20: 7                     *
*
*          USER ID:                             *
*****
```

```
1. STAAD SPACE
INPUT FILE: X:\PROYECTOS 2018\181_JARDIN CAMPO VERDE\2. MODELOS\1.CURADURIA\pilote.STD
2. START JOB INFORMATION
3. ENGINEER DATE 12-JUL-18
4. END JOB INFORMATION
5. INPUT WIDTH 79
6. UNIT METER KN
7. JOINT COORDINATES
8. 1 5 12.5 0; 2 5 0 0; 3 15 12.5 0; 4 15 0 0; 5 5 11.5 0; 6 15 11.5 0
9. 7 5 10.5 0; 8 15 10.5 0; 9 5 9.5 0; 10 15 9.5 0; 11 5 8.5 0; 12 15 8.5 0
10. 13 5 7.5 0; 14 15 7.5 0; 15 5 6.5 0; 16 15 6.5 0; 17 5 5.5 0; 18 15 5.5 0
11. 19 5 4.5 0; 20 15 4.5 0; 21 5 3.5 0; 22 15 3.5 0; 23 5 2.5 0; 24 15 2.5 0
12. 25 5 1.5 0; 26 15 1.5 0; 27 5 0.5 0; 28 15 0.5 0
13. MEMBER INCIDENCES
14. 1 1 5; 2 3 6; 3 5 7; 4 6 8; 5 7 9; 6 8 10; 7 9 11; 8 10 12; 9 11 13; 10 12 14
15. 11 13 15; 12 14 16; 13 15 17; 14 16 18; 15 17 19; 16 18 20; 17 19 21; 18 20 22
16. 19 21 23; 20 22 24; 21 23 25; 22 24 26; 23 25 27; 24 26 28; 25 27 2; 26 28 4
17. DEFINE MATERIAL START
18. ISOTROPIC CONCRETE
19. E 2.17185E+007
20. POISSON 0.17
21. DENSITY 23.5616
22. ALPHA 1E-005
23. DAMP 0.05
24. TYPE CONCRETE
25. STRENGTH FCU 21000
26. END DEFINE MATERIAL
27. MEMBER PROPERTY AMERICAN
28. 1 3 5 7 9 11 13 15 17 19 21 23 25 PRIS YD 0.6
29. 2 4 6 8 10 12 14 16 18 20 22 24 26 PRIS YD 0.8
30. CONSTANTS
31. MATERIAL CONCRETE ALL
32. SUPPORTS
33. 5 FIXED BUT FY MX MY MZ KFX 1202.98 KFZ 1202.98
34. 7 FIXED BUT FY MX MY MZ KFX 2405.96 KFZ 2405.96
35. 9 FIXED BUT FY MX MY MZ KFX 3608.94 KFZ 3608.94
36. 11 FIXED BUT FY MX MY MZ KFX 4811.92 KFZ 4811.92
37. 13 15 17 19 21 23 25 27 FIXED BUT FY MX MY MZ KFX 6014.9 KFZ 6014.9
38. 6 FIXED BUT FY MX MY MZ KFX 1603.98 KFZ 1603.98
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STAAD SPACE

-- PAGE NO. 2

39. 8 FIXED BUT FY MX MY MZ KFX 3207.96 KFZ 3207.96
 40. 10 FIXED BUT FY MX MY MZ KFX 4811.94 KFZ 4811.94
 41. 12 FIXED BUT FY MX MY MZ KFX 6415.92 KFZ 6415.92
 42. 14 16 18 20 22 24 26 28 FIXED BUT FY MX MY MZ KFX 8019.9 KFZ 8019.9
 43. 4 FIXED BUT MX MY MZ KFX 8019.9 KFY 1604 KFZ 8019.9
 44. 2 FIXED BUT MX MY MZ KFX 6014.9 KFY 1203.07 KFZ 6014.9
 45. LOAD 1 LOADTYPE DEAD TITLE REACC
****WARNING- THIS STRUCTURE IS DISJOINTED. IGNORE IF**
 MASTER/SLAVE OR IF UNCONNECTED JOINTS.
 46. JOINT LOAD
 47. 1 FX 32 FY -30 FZ 3
 48. 3 FX 42 FY -44 FZ 2.7
 49. LOAD COMB 2 COMBINATION LOAD CASE 2
 50. 1 1.4
 51. PERFORM ANALYSIS

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	28	NUMBER OF MEMBERS	26
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	26

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

ORIGINAL/FINAL BAND-WIDTH= 25/ 1/ 12 DOF
 TOTAL PRIMARY LOAD CASES = 1, TOTAL DEGREES OF FREEDOM = 168
 TOTAL LOAD COMBINATION CASES = 1 SO FAR.
 SIZE OF STIFFNESS MATRIX = 3 DOUBLE KILO-WORDS
 REQD/AVAIL. DISK SPACE = 12.1/ 287526.7 MB

****WARNING - INSTABILITY AT JOINT 2 DIRECTION = MY**
 PROBABLE CAUSE SINGULAR-ADDING WEAK SPRING
 K-MATRIX DIAG= 2.0903967E+06 L-MATRIX DIAG= 2.3283064E-10 EQN NO 83
****NOTE - VERY WEAK SPRING ADDED FOR STABILITY**

****NOTE**** STAAD DETECTS INSTABILITIES AS EXCESSIVE LOSS OF SIGNIFICANT DIGITS
 DURING DECOMPOSITION. WHEN A DECOMPOSED DIAGONAL IS LESS THAN THE
 BUILT-IN REDUCTION FACTOR TIMES THE ORIGINAL STIFFNESS MATRIX DIAGONAL,
 STAAD PRINTS A SINGULARITY NOTICE. THE BUILT-IN REDUCTION FACTOR
 IS 1.000E-09

THE ABOVE CONDITIONS COULD ALSO BE CAUSED BY VERY STIFF OR VERY WEAK ELEMENTS AS WELL AS TRUE SINGULARITIES.

***WARNING - INSTABILITY AT JOINT 4 DIRECTION = MY
PROBABLE CAUSE SINGULAR-ADDING WEAK SPRING
K-MATRIX DIAG= 6.6066867E+06 L-MATRIX DIAG= -1.8626451E-09 EQN NO 167
***NOTE - VERY WEAK SPRING ADDED FOR STABILITY

52. START CONCRETE DESIGN
53. CODE ACI
54. CLB 0.05 ALL
55. CLS 0.05 ALL
56. CLT 0.05 ALL
57. CLT 0.05 ALL
58. FC 21000 ALL
59. FC 21000 ALL
60. FYMAIN 420000 ALL
61. FYSEC 420000 ALL
62. RHOMN 0.001 ALL
63. TRACK 2 ALL
64. DESIGN COLUMN 1 TO 26

ACI 318-11 COLUMN NO. 1 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED

AREA OF STEEL REQUIRED = 483.8 SQ. MM

BAR CONFIGURATION REINF PCT. LOAD LOCATION PHI

6 - 12 MM 0.240 2 END 0.650

(EQUALLY SPACED)

TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal.	(MM)
5319.86	4255.89	2233.79	351.69	157.4	
M0	P-tens.	Des.Pn	Des.Mn	e/h	
74.89	-285.00	64.62	69.23	1.06667	

		Pn	Mn	Pn	Mn
		3928.51	266.16	1964.26	343.15
P0	*	3601.14	301.00	1636.88	325.90
	*	3273.76	326.61	1309.50	296.97
Pn,max	*	2946.38	343.16	982.13	256.27
	*	2619.01	351.70	654.75	205.65
Pn	*	2291.63	352.29	327.38	147.12
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 2 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED

ONLY MINIMUM STEEL IS REQUIRED.

AREA OF STEEL REQUIRED = 502.7 SQ. MM

STAAD SPACE

-- PAGE NO. 5

```

BAR CONFIGURATION      REINF PCT.    LOAD    LOCATION    PHI
-----
6 - 12 MM              0.135      1      END      0.650
(EQUALLY SPACED)
TIE BAR NUMBER    12 SPACING 192.00 MM

```

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

```

-----
P0      Pn max    P-bal.    M-bal.    e-bal. (MM)
9245.28  7396.22  4101.87  805.06    196.3
M0      P-tens.    Des.Pn    Des.Mn    e/h
104.15   -285.00    67.69    64.75    0.95455
-----
                Pn      Mn      Pn      Mn
                6827.28  619.81  3413.64  774.40
P0 | *          6258.34  698.80  2844.70  727.70
   | *          5689.40  755.46  2275.76  651.93
Pn,max| *       5120.46  791.30  1706.82  552.67
   | *          4551.52  806.95  1137.88  430.00
Pn   | *       3982.58  801.83  568.94   285.30
NOMINAL| *
AXIAL| *
COMPRESSION| *
Pb|-----*Mb
   | *
   | *
   | *
   | * M0 Mn,
   | * BENDING
P-tens| * MOMENT
   |

```

ACI 318-11 COLUMN NO. 3 DESIGN RESULTS

```

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
AREA OF STEEL REQUIRED = 997.5 SQ. MM

```

```

BAR CONFIGURATION      REINF PCT.    LOAD    LOCATION    PHI
-----
9 - 12 MM              0.360      2      END      0.650
(EQUALLY SPACED)
TIE BAR NUMBER    12 SPACING 192.00 MM

```

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

STAAD SPACE

-- PAGE NO. 6

P0	Pn max	P-bal.	M-bal.	e-bal.	(MM)
5456.30	4365.04	2242.45	370.19	165.1	
M0	P-tens.	Des.Pn	Des.Mn	e/h	
106.80	-427.50	64.62	118.87	1.83161	

		Pn	Mn	Pn	Mn
		4029.27	271.88	2014.64	364.90
P0	*	3693.50	309.22	1678.86	348.41
	*	3357.73	337.31	1343.09	321.65
Pn,max	*	3021.95	356.47	1007.32	283.18
	*	2686.18	367.46	671.55	236.54
Pn	*	2350.41	370.53	335.77	177.35
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
	Pb -----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 4 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 899.8 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
8 - 12 MM	0.180	2	END	0.650

(EQUALLY SPACED)

TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9336.24	7468.99	4109.49	823.12	200.3
M0	P-tens.	Des.Pn	Des.Mn	e/h
136.81	-380.00	94.77	162.19	1.70790

STAAD SPACE

-- PAGE NO. 7

	Pn	Mn	Pn	Mn
	6894.46	625.73	3447.23	797.36
P0 *	6319.92	707.07	2872.69	747.27
*	5745.38	766.75	2298.15	674.50
Pn,max *	5170.84	805.42	1723.61	581.52
*	4596.30	823.28	1149.08	460.23
Pn *	4021.77	821.18	574.54	310.96
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

ACI 318-11 COLUMN NO. 5 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 1243.2 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
11 - 12 MM (EQUALLY SPACED)	0.440	2	END	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5547.27	4437.81	2250.41	382.40	169.9
M0	P-tens.	Des.Pn	Des.Mn	e/h
128.25	-522.51	64.62	141.62	2.18220

STAAD SPACE

-- PAGE NO. 8

	Pn	Mn	Pn	Mn
	4096.44	275.98	2048.22	378.59
P0 *	3755.07	314.41	1706.85	364.54
*	3413.70	343.28	1365.48	337.27
Pn,max *	3072.33	363.87	1024.11	302.53
*	2730.96	376.61	682.74	254.44
Pn *	2389.59	381.92	341.37	197.05
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

ACI 318-11 COLUMN NO. 6 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 1217.4 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
11 - 12 MM	0.247	2	END	0.650
(EQUALLY SPACED)				
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9472.69	7578.15	4120.59	848.03	205.8
M0	P-tens.	Des.Pn	Des.Mn	e/h
182.01	-522.51	94.77	205.33	2.16222

STAAD SPACE

-- PAGE NO. 9

	Pn	Mn	Pn	Mn
	6995.22	634.65	3497.61	826.92
P0 *	6412.28	718.47	2914.67	781.82
*	5829.35	780.69	2331.74	711.75
Pn,max *	5246.41	822.29	1748.80	619.95
*	4663.48	844.47	1165.87	499.68
Pn *	4080.54	847.76	582.93	357.22
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

ACI 318-11 COLUMN NO. 7 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 1243.2 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
11 - 12 MM (EQUALLY SPACED)	0.440	2	STA	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5547.27	4437.81	2250.41	382.40	169.9
M0	P-tens.	Des.Pn	Des.Mn	e/h
128.25	-522.51	64.62	141.62	2.18220

STAAD SPACE

-- PAGE NO. 10

	Pn	Mn	Pn	Mn
	4096.44	275.98	2048.22	378.59
P0 *	3755.07	314.41	1706.85	364.54
*	3413.70	343.28	1365.48	337.27
Pn,max *	3072.33	363.87	1024.11	302.53
*	2730.96	376.61	682.74	254.44
Pn *	2389.59	381.92	341.37	197.05
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

ACI 318-11 COLUMN NO. 8 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 1296.8 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
12 - 12 MM (EQUALLY SPACED)	0.270	2	END	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9518.17	7614.54	4119.74	856.21	207.8
M0	P-tens.	Des.Pn	Des.Mn	e/h
197.42	-570.01	94.77	218.84	2.30438

		Pn	Mn	Pn	Mn
		7028.80	638.08	3514.40	836.50
P0	*	6443.07	723.01	2928.67	793.47
	*	5857.33	785.79	2342.93	723.92
Pn, max	— *	5271.60	828.23	1757.20	631.81
	*	4685.87	851.39	1171.47	513.98
Pn	*	4100.13	855.98	585.73	369.97
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
	Pb -----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 9 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
AREA OF STEEL REQUIRED = 1220.9 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
11 - 12 MM (EQUALLY SPACED)	0.440	2	STA	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5547.27	4437.81	2250.41	382.40	169.9
M0	P-tens.	Des.Pn	Des.Mn	e/h
128.25	-522.51	64.62	139.41	2.14818

STAAD SPACE

-- PAGE NO. 12

	Pn	Mn	Pn	Mn
	4096.44	275.98	2048.22	378.59
P0 *	3755.07	314.41	1706.85	364.54
*	3413.70	343.28	1365.48	337.27
Pn,max *	3072.33	363.87	1024.11	302.53
*	2730.96	376.61	682.74	254.44
Pn *	2389.59	381.92	341.37	197.05
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

ACI 318-11 COLUMN NO. 10 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 1296.8 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
12 - 12 MM	0.270	2	STA	0.650
(EQUALLY SPACED)				
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9518.17	7614.54	4119.74	856.21	207.8
M0	P-tens.	Des.Pn	Des.Mn	e/h
197.42	-570.01	94.77	218.84	2.30438

STAAD SPACE

-- PAGE NO. 13

	Pn	Mn	Pn	Mn
	7028.80	638.08	3514.40	836.50
P0 *	6443.07	723.01	2928.67	793.47
*	5857.33	785.79	2342.93	723.92
Pn,max *	5271.60	828.23	1757.20	631.81
*	4685.87	851.39	1171.47	513.98
Pn *	4100.13	855.98	585.73	369.97
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

ACI 318-11 COLUMN NO. 11 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 997.5 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
9 - 12 MM (EQUALLY SPACED)	0.360	2	STA	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5456.30	4365.04	2242.45	370.19	165.1
M0	P-tens.	Des.Pn	Des.Mn	e/h
106.80	-427.50	64.62	119.59	1.84273

STAAD SPACE

-- PAGE NO. 14

		Pn	Mn	Pn	Mn
		4029.27	271.88	2014.64	364.90
P0	*	3693.50	309.22	1678.86	348.41
	*	3357.73	337.31	1343.09	321.65
Pn,max	*	3021.95	356.47	1007.32	283.18
	*	2686.18	367.46	671.55	236.54
Pn	*	2350.41	370.53	335.77	177.35
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 12 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 1217.4 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
11 - 12 MM (EQUALLY SPACED)	0.247	2	STA	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9472.69	7578.15	4120.59	848.03	205.8
M0	P-tens.	Des.Pn	Des.Mn	e/h
182.01	-522.51	94.77	207.09	2.18073

		Pn	Mn	Pn	Mn
		6995.22	634.65	3497.61	826.92
PO	*	6412.28	718.47	2914.67	781.82
	*	5829.35	780.69	2331.74	711.75
Pn, max	— *	5246.41	822.29	1748.80	619.95
	*	4663.48	844.47	1165.87	499.68
Pn	*	4080.54	847.76	582.93	357.22
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	————— *Mb				
	*				
	— * —————				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 13 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
AREA OF STEEL REQUIRED = 707.1 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
7 - 12 MM (EQUALLY SPACED)	0.280	2	STA	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5365.34	4292.27	2238.03	357.88	159.9
M0	P-tens.	Des.Pn	Des.Mn	e/h
86.39	-332.50	64.62	91.34	1.40743

STAAD SPACE

-- PAGE NO. 16

		Pn	Mn	Pn	Mn
		3962.10	268.93	1981.05	351.18
P0	*	3631.92	304.33	1650.87	331.84
	*	3301.75	330.45	1320.70	304.65
Pn,max	*	2971.57	347.89	990.52	267.30
	*	2641.40	357.19	660.35	216.37
Pn	*	2311.22	358.46	330.17	155.85
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 14 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 1018.9 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
10 - 12 MM (EQUALLY SPACED)	0.225	2	STA	0.650
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9427.21	7541.77	4118.20	840.07	204.0
M0	P-tens.	Des.Pn	Des.Mn	e/h
167.02	-475.01	94.77	177.66	1.87077

STAAD SPACE

-- PAGE NO. 17

	Pn	Mn	Pn	Mn
	6961.63	631.07	3480.81	817.79
P0 *	6381.49	714.41	2900.68	769.73
*	5801.36	775.87	2320.54	702.38
Pn,max *	5221.22	816.61	1740.41	605.39
*	4641.09	837.43	1160.27	486.62
Pn *	4060.95	839.17	580.14	341.84
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

ACI 318-11 COLUMN NO. 15 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 416.8 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM	0.240	2	STA	0.650
(EQUALLY SPACED)				
TIE BAR NUMBER 12 SPACING 192.00 MM				

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5319.86	4255.89	2233.79	351.69	157.4
M0	P-tens.	Des.Pn	Des.Mn	e/h
74.89	-285.00	64.62	63.09	0.97215

STAAD SPACE

-- PAGE NO. 18

		Pn	Mn	Pn	Mn
		3928.51	266.16	1964.26	343.15
P0	*	3601.14	301.00	1636.88	325.90
	*	3273.76	326.61	1309.50	296.97
Pn,max	*	2946.38	343.16	982.13	256.27
	*	2619.01	351.70	654.75	205.65
Pn	*	2291.63	352.29	327.38	147.12
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 16 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 AREA OF STEEL REQUIRED = 740.9 SQ. MM

BAR CONFIGURATION REINF PCT. LOAD LOCATION PHI

 7 - 12 MM 0.157 2 STA 0.650
 (EQUALLY SPACED)
 TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9290.76	7432.61	4107.70	814.06	198.2
M0	P-tens.	Des.Pn	Des.Mn	e/h
120.60	-332.50	94.77	140.61	1.48062

STAAD SPACE

-- PAGE NO. 19

		Pn	Mn	Pn	Mn
		6860.87	623.33	3430.43	785.02
P0	*	6289.13	703.94	2858.70	734.94
	*	5717.39	761.71	2286.96	665.05
Pn,max	*	5145.65	798.56	1715.22	568.20
	*	4573.91	815.14	1143.48	444.79
Pn	*	4002.17	812.27	571.74	296.70
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 17 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 282.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM	0.240	1	END	0.650

(EQUALLY SPACED)
 TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5319.86	4255.89	2233.79	351.69	157.4
M0	P-tens.	Des.Pn	Des.Mn	e/h
74.89	-285.00	46.15	15.45	0.33325

STAAD SPACE

-- PAGE NO. 20

		Pn	Mn	Pn	Mn
		3928.51	266.16	1964.26	343.15
P0	*	3601.14	301.00	1636.88	325.90
	*	3273.76	326.61	1309.50	296.97
Pn,max	*	2946.38	343.16	982.13	256.27
	*	2619.01	351.70	654.75	205.65
Pn	*	2291.63	352.29	327.38	147.12
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 18 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 502.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM (EQUALLY SPACED)	0.135	1	END	0.650

TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9245.28	7396.22	4101.87	805.06	196.3
M0	P-tens.	Des.Pn	Des.Mn	e/h
104.15	-285.00	67.69	48.84	0.71996

STAAD SPACE

-- PAGE NO. 21

		Pn	Mn	Pn	Mn
		6827.28	619.81	3413.64	774.40
P0	*	6258.34	698.80	2844.70	727.70
	*	5689.40	755.46	2275.76	651.93
Pn,max	*	5120.46	791.30	1706.82	552.67
	*	4551.52	806.95	1137.88	430.00
Pn	*	3982.58	801.83	568.94	285.30
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 19 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 282.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM	0.240	1	END	0.650

(EQUALLY SPACED)
 TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5319.86	4255.89	2233.79	351.69	157.4
M0	P-tens.	Des.Pn	Des.Mn	e/h
74.89	-285.00	46.15	7.17	0.15471

STAAD SPACE

-- PAGE NO. 22

		Pn	Mn	Pn	Mn
		3928.51	266.16	1964.26	343.15
P0	*	3601.14	301.00	1636.88	325.90
	*	3273.76	326.61	1309.50	296.97
Pn,max	*	2946.38	343.16	982.13	256.27
	*	2619.01	351.70	654.75	205.65
Pn	*	2291.63	352.29	327.38	147.12
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 20 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 502.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM (EQUALLY SPACED)	0.135	1	END	0.650

TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9245.28	7396.22	4101.87	805.06	196.3
M0	P-tens.	Des.Pn	Des.Mn	e/h
104.15	-285.00	67.69	28.41	0.41887

STAAD SPACE

-- PAGE NO. 23

		Pn	Mn	Pn	Mn
		6827.28	619.81	3413.64	774.40
P0	*	6258.34	698.80	2844.70	727.70
	*	5689.40	755.46	2275.76	651.93
Pn,max	*	5120.46	791.30	1706.82	552.67
	*	4551.52	806.95	1137.88	430.00
Pn	*	3982.58	801.83	568.94	285.30
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 21 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 282.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM	0.240	1	END	0.650

(EQUALLY SPACED)
 TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5319.86	4255.89	2233.79	351.69	157.4
M0	P-tens.	Des.Pn	Des.Mn	e/h
74.89	-285.00	46.15	2.50	0.05399

STAAD SPACE

-- PAGE NO. 24

		Pn	Mn	Pn	Mn
		3928.51	266.16	1964.26	343.15
P0	*	3601.14	301.00	1636.88	325.90
	*	3273.76	326.61	1309.50	296.97
Pn,max	*	2946.38	343.16	982.13	256.27
	*	2619.01	351.70	654.75	205.65
Pn	*	2291.63	352.29	327.38	147.12
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 22 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 502.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM (EQUALLY SPACED)	0.135	1	END	0.650

TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9245.28	7396.22	4101.87	805.06	196.3
M0	P-tens.	Des.Pn	Des.Mn	e/h
104.15	-285.00	67.69	12.91	0.19032

STAAD SPACE

-- PAGE NO. 25

		Pn	Mn	Pn	Mn
		6827.28	619.81	3413.64	774.40
P0	*	6258.34	698.80	2844.70	727.70
	*	5689.40	755.46	2275.76	651.93
Pn,max	*	5120.46	791.30	1706.82	552.67
	*	4551.52	806.95	1137.88	430.00
Pn	*	3982.58	801.83	568.94	285.30
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 23 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 282.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM	0.240	1	END	0.650

(EQUALLY SPACED)
 TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5319.86	4255.89	2233.79	351.69	157.4
M0	P-tens.	Des.Pn	Des.Mn	e/h
74.89	-285.00	46.15	0.38	0.00820

STAAD SPACE

-- PAGE NO. 26

		Pn	Mn	Pn	Mn
		3928.51	266.16	1964.26	343.15
P0	*	3601.14	301.00	1636.88	325.90
	*	3273.76	326.61	1309.50	296.97
Pn,max	*	2946.38	343.16	982.13	256.27
	*	2619.01	351.70	654.75	205.65
Pn	*	2291.63	352.29	327.38	147.12
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 24 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 502.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM (EQUALLY SPACED)	0.135	1	END	0.650

TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9245.28	7396.22	4101.87	805.06	196.3
M0	P-tens.	Des.Pn	Des.Mn	e/h
104.15	-285.00	67.69	2.58	0.03800

STAAD SPACE

-- PAGE NO. 27

		Pn	Mn	Pn	Mn
		6827.28	619.81	3413.64	774.40
P0	*	6258.34	698.80	2844.70	727.70
	*	5689.40	755.46	2275.76	651.93
Pn,max	*	5120.46	791.30	1706.82	552.67
	*	4551.52	806.95	1137.88	430.00
Pn	*	3982.58	801.83	568.94	285.30
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 25 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 600.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 282.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM	0.240	1	END	0.650

(EQUALLY SPACED)
 TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
5319.86	4255.89	2233.79	351.69	157.4
M0	P-tens.	Des.Pn	Des.Mn	e/h
74.89	-285.00	46.15	0.00	0.00000

STAAD SPACE

-- PAGE NO. 28

		Pn	Mn	Pn	Mn
		3928.51	266.16	1964.26	343.15
P0	*	3601.14	301.00	1636.88	325.90
	*	3273.76	326.61	1309.50	296.97
Pn,max	*	2946.38	343.16	982.13	256.27
	*	2619.01	351.70	654.75	205.65
Pn	*	2291.63	352.29	327.38	147.12
NOMINAL	*				
AXIAL	*				
COMPRESSION	*				
Pb	-----*Mb				
	*				
	*				
	* M0 Mn,				
	* BENDING				
P-tens	* MOMENT				

ACI 318-11 COLUMN NO. 26 DESIGN RESULTS

FY - 420.0 FC - 21.0 MPA, CIRC SIZE 800.0 MMS DIAMETER TIED
 ONLY MINIMUM STEEL IS REQUIRED.
 AREA OF STEEL REQUIRED = 502.7 SQ. MM

BAR CONFIGURATION	REINF PCT.	LOAD	LOCATION	PHI
6 - 12 MM (EQUALLY SPACED)	0.135	1	END	0.650

TIE BAR NUMBER 12 SPACING 192.00 MM

COLUMN INTERACTION: MOMENT ABOUT Z/Y -AXIS (KN-MET)

P0	Pn max	P-bal.	M-bal.	e-bal. (MM)
9245.28	7396.22	4101.87	805.06	196.3
M0	P-tens.	Des.Pn	Des.Mn	e/h
104.15	-285.00	67.69	0.00	0.00000

STAAD SPACE

-- PAGE NO. 29

	Pn	Mn	Pn	Mn
	6827.28	619.81	3413.64	774.40
P0 *	6258.34	698.80	2844.70	727.70
*	5689.40	755.46	2275.76	651.93
Pn,max *	5120.46	791.30	1706.82	552.67
*	4551.52	806.95	1137.88	430.00
Pn *	3982.58	801.83	568.94	285.30
NOMINAL *				
AXIAL *				
COMPRESSION *				
Pb -----*Mb				
*				
*				
* M0 Mn,				
* BENDING				
P-tens * MOMENT				

*****END OF COLUMN DESIGN RESULTS*****

65. END CONCRETE DESIGN

66. FINISH

***** END OF THE STAAD.Pro RUN *****

**** DATE= JUL 12,2018 TIME= 16:20:10 ****

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*****
*   For technical assistance on STAAD.Pro, please visit   *
*   http://selectservices.bentley.com/en-US/              *
*                                                         *
*   Details about additional assistance from              *
*   Bentley and Partners can be found at program menu    *
*   Help->Technical Support                               *
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DISEÑO DE PLACA BASE
NSR-10 APÉNDICE C-D ANCLAJES AL CONCRETO

PROYECTO: JARDIN Campo Verde

CALCULÓ: JDH

Solicitaciones

COMB	P _u (Ton)	M _u (Ton-m)	V _{u1} (Ton)
COMB2	38.0	1.0	3.6

Propiedades de la columna

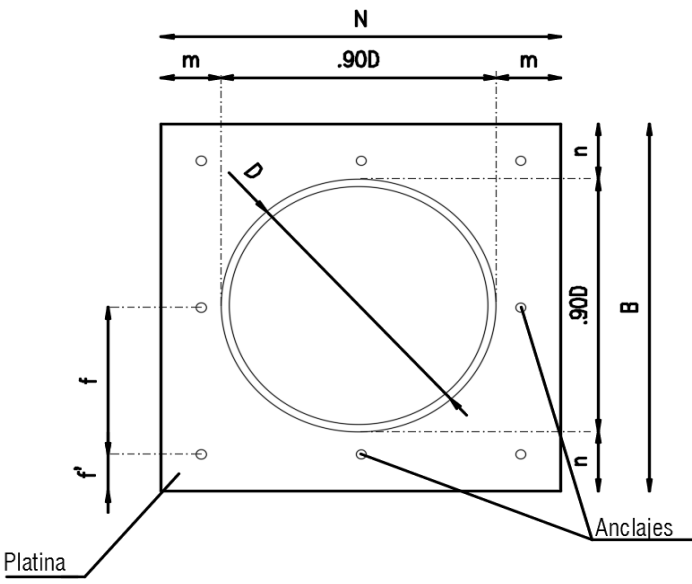
COLUMNA	D (mm)	t (mm)
	168.2	7

Propiedades de la platina

B (mm)	N (mm)	F _y (MPa)	f' (mm)
330	330	350	50

Propiedades pedestal

B (mm)	L (mm)	f'c (MPa)
490	490	21



1) ESTADO LIMITE DE APLASTAMIENTO

1.1. Esfuerzo máximo por aplastamiento

$\frac{A_1 \text{ (mm}^2\text{)}}{108900}$	$\frac{A_2 \text{ (mm}^2\text{)}}{240100}$	$\sqrt{\frac{A_2}{A_1}} = 1.485$	< 2.0	$\frac{\sigma_{m\acute{a}x} \text{ (N/mm}^2\text{)}}{17.23}$	$\frac{q_{m\acute{a}x} \text{ (N/mm)}}{5685.23}$	$\frac{\phi P_p \text{ (N)}}{1.88E+06}$
--	--	----------------------------------	--------------	--	--	---

1.2. Determine la excentricidad crítica

e (mm)	e _{crítica} (mm)	N/6 (mm)	Momento bajo	Sin fuerzas de izaje
26	132	55		

CASO 1: Momento bajo

Y (mm)
277

1.3. Determinación de la carga distribuida actuante en la placa

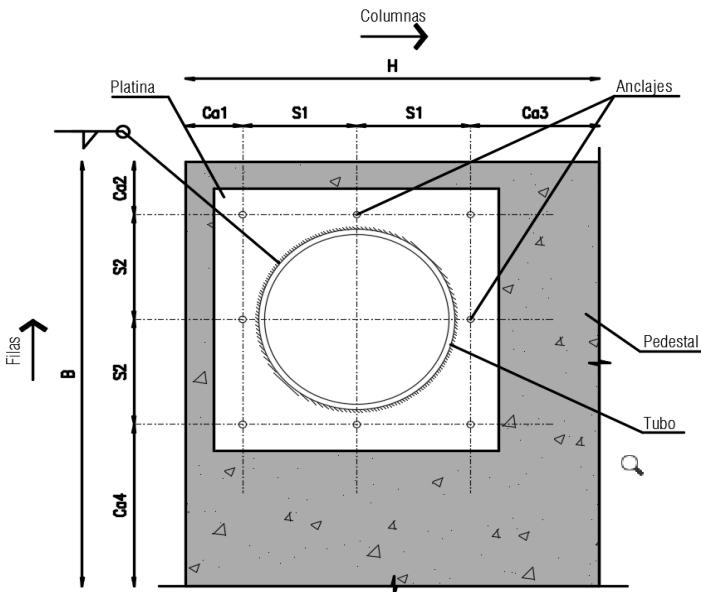
q _{actuante} (N/mm ²)	Check
4.15	OK

1.4. Determinación del espesor mínimo de la platina

m (mm)	t _{pl} (mm)	n (mm)	t _{pl} (mm)	t _{pl} (pulg)= 0.57
89.31	14.59	89.31	14.59	

PROPIEDADES DE LA PLACA BASE

#pernos	8	A354 GR.BC
d _b (pulg):	5/8	
Exposición:	Interior	
Tipo de anclaje:	Con cabeza	
	Anclaje adherido	
	Con roscas en el plano de corte	
	Preinstalado	
	Anclaje adherido	
Área cabeza (mm2):	100	
Longitud embebida h _{ef} (mm):	200	
Longitud del pedestal h _a (mm):	1000	
Excent. a tracción e _N (mm):	0.00	
Excent. a corte e _N (mm):	0.00	
Tipo de concreto	Normal	
	λ _a = 1.0	
Fisuración en el pedestal	Fisurado bajo cargas de servicio	
Reforzamiento pedestal	Reforzado	



Geometria Platina

C _{a1} (mm)	C _{a2} (mm)	C _{a3} (mm)	C _{a4} (mm)	S ₁ (mm)	S ₂ (mm)
80	80	80	80	190	190

2) ESTADOS LIMITE ANCLAJE A TENSION

2.1. Tensión en el anclaje

					Zona en compresión
					Y (mm) = 36
Pernos	F _{ut} (MPa)	d _b (pulg)	#pernos	φN _{sa} (Ton)	Pernos en Tensión
A354 GR.BC	860	5/8	8	76.60	Filas
					Columnas
					3

2.2. Arrancamiento del concreto

h _{ef} (mm)	K _c	N _b (Ton)	ψ _{ed,N}	ψ _{c,N}	ψ _{ec,N}	c _{ac} (mm)	ψ _{cp,N}
200	10	12.96	0.78	1.00	1.00	500	1.00
A _{NCO} (mm ²)	A _{NC} (mm ²)	A _{NC} /A _{NCO}	N _{cb} (Ton)	N _{cbg} (Ton)	φ	φN _{cbg} (Ton)	
360000	291600	0.81	8.19	8.19	0.75	6.14	

2.2.1 Teniendo en cuenta el refuerzo

Φ _{barra}	#Ramas	F _y (MPa)	s _{máx} (mm)	Con gancho	h _{a,min} (mm)	Check
3/8	6	420	100	SI	416	OK
N _{cbg} (Ton)	φ	φN _{cbg} (Ton)				
17.96	0.75	13.47				

2.3 Extracción por deslizamiento a tensión

N _b (Ton)	ψ _{c,p}	φ	φN _b (Ton)
1.68	1.0	0.75	10.08

2.4 Adherencia por tensión del anclaje no adherido

τ_{cr} (MPa)	N_{ba} (Ton)	τ_{uncr} (MPa)	C_{Na} (mm)	A_{Na0} (mm ²)	A_{Na} (mm ²)	A_{Na}/A_{Na0}	
2.1	2.09	7	152.35	92848	291600	3.14	
$\psi_{ec,N}$	C_{ac} (mm)	C_{Na}/C_{ac}	$\psi_{cp,N}$	$\psi_{ed,N}$	N_{gk} (Ton)	ϕN_{gk} (Ton)	ϕR_n (Ton)
1.000	500.00	0.305	0.305	0.858	1.72	1.29	6.91

2.5 Desprendimiento lateral

h _{ef} (mm)	K _{1,Ca1}	N _{sb,Ca1} (Ton)	K _{1,Ca2}	N _{sb,Ca2} (Ton)	N _{sbg} (Ton)	φ	N _{sbg} (Ton)
200	0.500	2.38	0.500	2.38	19.06	0.75	14.30

RESUMEN ANCLAJES SOMETIDOS A TENSION

Estado limite	ΦN _n (Ton)
2.1 Tension en el anclaje	76.600
2.2 Arrancamiento del concreto	19.609
2.3 Extraccion por deslizamiento a tension	10.080
2.4 Adherencia por tension del anclaje no adherido	1.289
2.5 Desprendimiento lateral	14.298
ΦN _n (Ton) con anclajes a tension	10.080

Tu (Ton)
-17.50

OK

3) ESTADOS LIMITE ANCLAJE A CORTANTE

3.1 Cortante en el anclaje

Pernos	Fy (MPa)	d _b (pulg)	#pernos	ΦR _n (Ton)
A354 GR.BC	750	5/8	6	66.39

Distribución Pernos	
Filas	Columnas
3	2

2.2 Arrancamiento del concreto

C _{a1} ' (mm)	A _{Vco} (mm²)	A _{Vc} (mm²)	I _d (mm)	V _b (Ton)
270	28800	218700	200	1.30

Ψ _{ec,V}	Ψ _{ed,V}	Ψ _{c,V}	Ψ _{n,V}	A _{Vc} /A _{Vco}	V _{cbg} (Ton)	ΦV _{cbg} (Ton)
1	0.759	1.2	1.000	7.59	7.11	5.33

2.3 Desprendimiento lateral

h _{ef} (mm)	K _{cp}	N _{cbg} (Ton)	V _{cpb} (Ton)	ΦV _{cpb} (Ton)
200	2	8.19	16.38	73.70

RESUMEN ANCLAJES SOMETIDOS A CORTANTE

Estado limite	ΦV _n (Ton)
2.1.Cortante en el anclaje	66.387
2.2 Arrancamiento del concreto	5.335
2.3 Desprendimiento lateral	73.702
ΦV _n (Ton) con anclajes a tension	5.335

V _{ui} (Ton)
3.6

OK

4) INTERACCION TRACCION-CORTANTE ANCLAJES

CASO 1

PERNOS A COMPRESION

Caso 1: Si $V_{ua} \leq 0.2 \cdot \Phi V_n$

$N_{ua} / \Phi N_n =$ NA OK

Caso 2: Si $N_{ua} \leq 0.2 \cdot \Phi N_n$

$V_{ua} / \Phi V_n =$ 0.05 OK

5) REVISIÓN DE LA SOLDADURA

Φ	F _{Exx} (Ksi)	F _{exx} (MPa)	t _{w,min} (mm)	t _{w,máx} (mm)	t _w (mm)
0.75	70	483	5	5	5

5.1 Soldadura todo alrededor

Solicitaciones	V _u (T)	L _w (mm)	β	L _{w,efectivo} (mm)	Φ (R _n)	Check
Corte (T)=	3.6	528	0.989	522	40	OK
Flexión (T)=	11.9					

Solicitaciones

COMB	P _u (Ton)	M _u (Ton-m)	V _{u1} (Ton)
COMB2	20.0	6.8	1.9

Propiedades de la columna

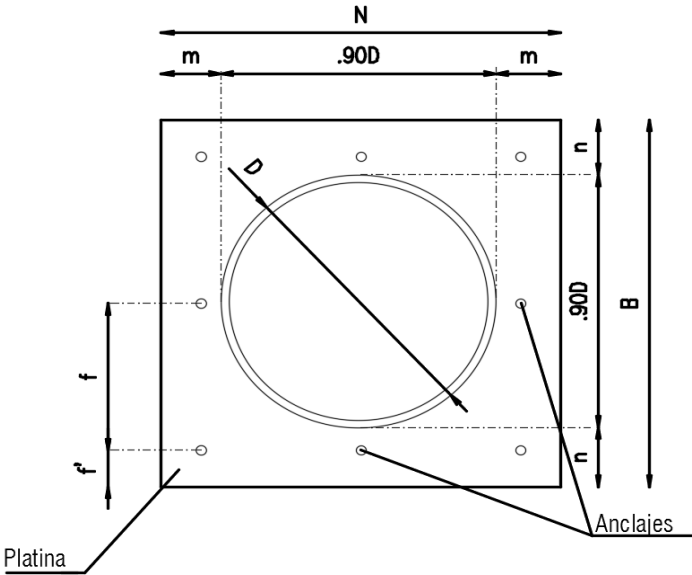
COLUMNA	D (mm)	t (mm)
	324	10

Propiedades de la platina

B (mm)	N (mm)	F _y (MPa)	f' (mm)
400	400	350	50

Propiedades pedestal

B (mm)	L (mm)	f'c (MPa)
490	490	28



1) ESTADO LIMITE DE APLASTAMIENTO

1.1. Esfuerzo máximo por aplastamiento

$\frac{A_1 \text{ (mm}^2\text{)}}{160000}$	$\frac{A_2 \text{ (mm}^2\text{)}}{240100}$	$\sqrt{\frac{A_2}{A_1}} =$	1.225	< 2.0	$\frac{\sigma_{m\acute{a}x} \text{ (N/mm}^2\text{)}}{18.95}$	$\frac{q_{m\acute{a}x} \text{ (N/mm)}}{7580.30}$	$\frac{\phi P_p \text{ (N)}}{3.03E+06}$
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1.2. Determine la excentricidad crítica

$\frac{e \text{ (mm)}}{339}$	$\frac{e_{cr\acute{it}ica} \text{ (mm)}}{187}$	$\frac{N/6 \text{ (mm)}}{67}$	Momento alto	Con fuerzas de izaje
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CASO 3: Momento alto con fuerzas de izaje

$\frac{f \text{ (mm)}}{150}$	$\frac{(f+N/2)^2}{122500}$	> 25777
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$\frac{Y \text{ (mm)}}{39}$

1.3. Determinación de la carga distribuida actuante en la placa

$\frac{q_{actuante} \text{ (N/mm}^2\text{)}}{12.82}$	Check OK
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1.4. Determinación del espesor mínimo de la platina

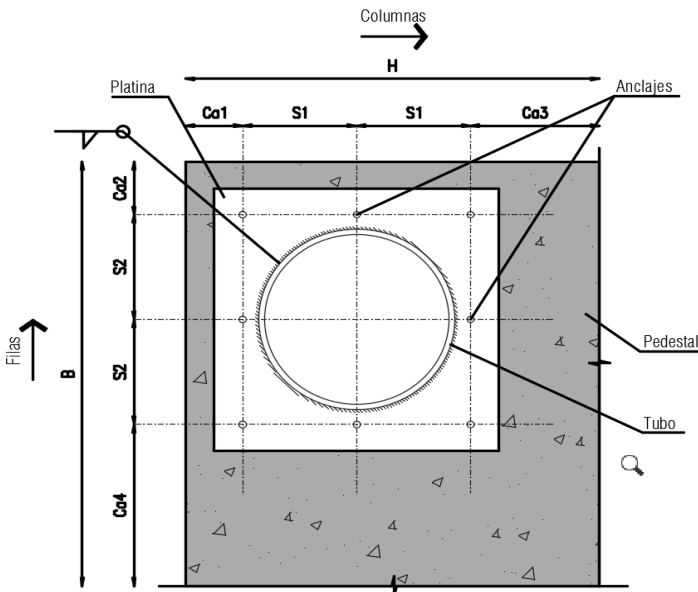
$\frac{m \text{ (mm)}}{54}$	$\frac{t_{pl} \text{ (mm)}}{13}$	$\frac{n \text{ (mm)}}{54}$	$\frac{t_{pl} \text{ (mm)}}{15}$	$t_{pl} \text{ (pulg)}= 0.58$
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1.5. Tensión en el anclaje

$\frac{T_u \text{ (Ton)}}{9.56}$

PROPIEDADES DE LA PLACA BASE

#pernos	6	A354 GR.BC
d _b (pulg):	1/2	
Exposición:	Interior	
Tipo de anclaje:	Con cabeza	
	Anclaje adherido	
	Con roscas en el plano de corte	
	Preinstalado	
	Anclaje adherido	
Área cabeza (mm2):	200	
Longitud embebida h _{ef} (mm):	200	
Longitud del pedestal h _a (mm):	1000	
Excent. a tracción e _N (mm):	0.00	
Excent. a corte e _N (mm):	0.00	
Tipo de concreto	Normal	
	λ _a = 1.0	
Fisuración en el pedestal	Fisurado bajo cargas de servicio	
Reforzamiento pedestal	Reforzado	



Geometria Platina

C _{a1} (mm)	C _{a2} (mm)	C _{a3} (mm)	C _{a4} (mm)	S ₁ (mm)	S ₂ (mm)
1000	80	1000	80	310	120

2) ESTADOS LIMITE ANCLAJE A TENSION

2.1. Tensión en el anclaje

					Zona en compresión
					Y (mm) = 39
Pernos	F _{ut} (MPa)	d _b (pulg)	#pernos	φN _{sa} (Ton)	Pernos en Tensión
A354 GR.BC	860	1/2	6	36.77	Filas
					3
					Columnas
					2

2.2. Arrancamiento del concreto

h _{ef} (mm)	K _c	N _b (Ton)	ψ _{ed,N}	ψ _{c,N}	ψ _{ec,N}	c _{ac} (mm)	ψ _{cp,N}
200	10	14.97	0.78	1.00	1.00	500	1.00
A _{NCO} (mm ²)	A _{NC} (mm ²)	A _{NC} /A _{NCO}	N _{cb} (Ton)	N _{cbg} (Ton)	φ	φN _{cbg} (Ton)	
360000	341600	0.95	11.08	11.08	0.75	8.31	

2.2.1 Teniendo en cuenta el refuerzo

Φ _{barra}	#Ramas	F _y (MPa)	s _{max} (mm)	Con gancho	h _{a,min} (mm)	Check
3/8	6	420	100	SI	416	OK
N _{cbg} (Ton)	φ	φN _{cbg} (Ton)				
17.96	0.75	13.47				

2.3 Extracción por deslizamiento a tensión

N _b (Ton)	ψ _{c,p}	φ	φN _b (Ton)
4.48	1.0	0.75	20.16

2.4 Adherencia por tensión del anclaje no adherido

τ_{cr} (MPa)	N_{ba} (Ton)	τ_{uncr} (MPa)	C_{Na} (mm)	A_{Na0} (mm ²)	A_{Na} (mm ²)	A_{Na}/A_{Na0}	
2.1	1.68	7	121.88	59423	204765	3.45	
$\psi_{ec,N}$	C_{ac} (mm)	C_{Na}/C_{ac}	$\psi_{cp,N}$	$\psi_{ed,N}$	N_{ag} (Ton)	ϕN_{ag} (Ton)	ϕRn (Ton)
1.000	500.00	0.244	0.244	0.897	1.26	0.95	4.15

2.5 Desprendimiento lateral

h _{ef} (mm)	K _{1,Ca1}	N _{sb,Ca1} (Ton)	K _{1,Ca2}	N _{sb,Ca2} (Ton)	N _{sbg} (Ton)	φ	N _{sbg} (Ton)
200	0.270	26.27	1.000	7.78	46.70	0.75	35.02

RESUMEN ANCLAJES SOMETIDOS A TENSION

Estado limite	ϕN_n (Ton)
2.1 Tension en el anclaje	36.768
2.2 Arrancamiento del concreto	21.775
2.3 Extracción por deslizamiento a tension	20.160
2.4 Adherencia por tension del anclaje no adherido	0.947
2.5 Desprendimiento lateral	35.022
ϕN_n (Ton) con anclajes a tension	20.160

Tu (Ton)
9.56

OK

3) ESTADOS LIMITE ANCLAJE A CORTANTE

3.1 Cortante en el anclaje

Pernos	Fy (MPa)	db (pulg)	#pernos	ϕR_n (Ton)
A354 GR.BC	750	1/2	6	42.49

Distribución Pernos	
Filas	Columnas
3	2

2.2 Arrancamiento del concreto

C _{a1} ' (mm)	A _{Vco} (mm ²)	A _{Vc} (mm ²)	ld (mm)	Vb (Ton)
667	4500000	400000	200	33.70

$\psi_{ec,V}$	$\psi_{ed,V}$	$\psi_{c,V}$	$\psi_{h,V}$	A _{Vc} /A _{Vco}	V _{cbg} (Ton)	ϕV_{cbg} (Ton)
1	0.724	1.2	1.000	0.09	2.60	1.95

2.3 Desprendimiento lateral

her (mm)	K _{cp}	N _{cbg} (Ton)	V _{cpb} (Ton)	ϕV_{cpb} (Ton)
200	2	11.08	22.15	99.70

RESUMEN ANCLAJES SOMETIDOS A CORTANTE

Estado limite	ϕV_n (Ton)
2.1.Cortante en el anclaje	42.487
2.2 Arrancamiento del concreto	1.952
2.3 Desprendimiento lateral	99.696
ϕV_n (Ton) con anclajes a tension	1.952

V _{ui} (Ton)
1.9

OK

4) INTERACCION TRACCIÓN-CORTANTE ANCLAJES

CASO 1

→ Nu ≤ φNn

Caso 1: Si $V_{ua} \leq 0.2 * \phi V_n$

$N_{ua} / \phi N_n =$

0.26

OK

Caso 2: Si $N_{ua} \leq 0.2 * \phi N_n$

$V_{ua} / \phi V_n =$

0.04

OK

5) REVISIÓN DE LA SOLDADURA

ϕ	F _{Exx} (Ksi)	F _{exx} (MPa)	t _{w,min} (mm)	t _{w,máx} (mm)	t _w (mm)
0.75	70	483	5	8	5

5.1 Soldadura todo alrededor

Solicitaciones	V _u (T)	L _w (mm)	β	L _{w,efectivo} (mm)	φ (R _n)	Check
Corte (T)=	1.9	1018	0.793	807	62	OK
Flexión (T)=	41.8					

DISEÑO DE PLACA BASE
NSR-10 APÉNDICE C-D ANCLAJES AL CONCRETO

PROYECTO: **JARDIN Campo Verde**

CALCULÓ: RCR

Solicitaciones

COMB	P _u (Ton)	M _u (Ton-m)	V _{u1} (Ton)
COMB2	57.0	10.0	5.0

Propiedades de la columna

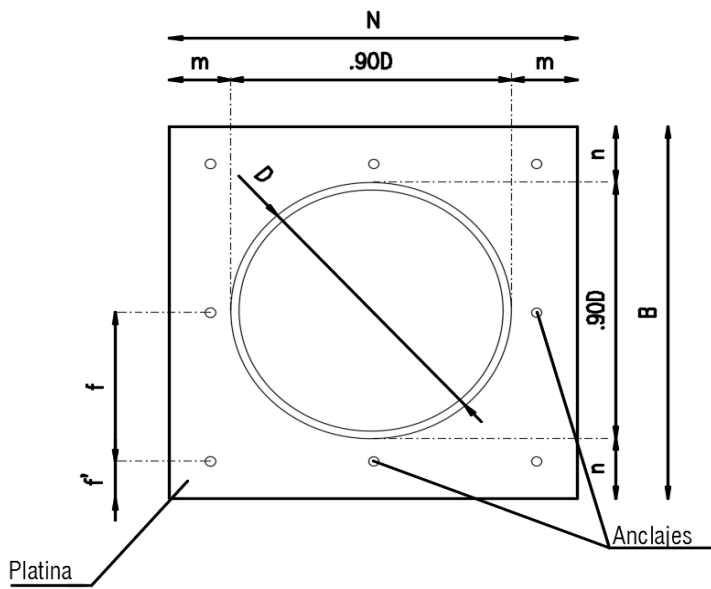
COLUMNA	D (mm)	t (mm)
	320	10

Propiedades de la platina

B (mm)	N (mm)	F _y (MPa)	f' (mm)
450	450	350	50

Propiedades pedestal

B (mm)	L (mm)	f'c (MPa)
500	500	28



1) ESTADO LIMITE DE APLASTAMIENTO

1.1. Esfuerzo máximo por aplastamiento

A_1 (mm ²)	A_2 (mm ²)	$\sqrt{\frac{A_2}{A_1}} =$	1.111	< 2.0	σ_{\max} (N/mm ²)	q_{\max} (N/mm)	ϕP_p (N)
202500	250000				17.19	7735.00	3.48E+06

1.2. Determine la excentricidad crítica

e (mm)	e _{crítica} (mm)	N/6 (mm)
175	188	75

Momento bajo	Sin fuerzas de izaje
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CASO 1: Momento bajo

$$\frac{Y \text{ (mm)}}{99}$$

1.3. Determinación de la carga distribuida actuante en la placa

$q_{\text{actuante}} \text{ (N/mm}^2\text{)}$	Check
12.78	OK

1.4. Determinación del espesor mínimo de la platina

m (mm)	t _{pl} (mm)	n (mm)	t _{pl} (mm)
81.00	23.22	81.00	23.22

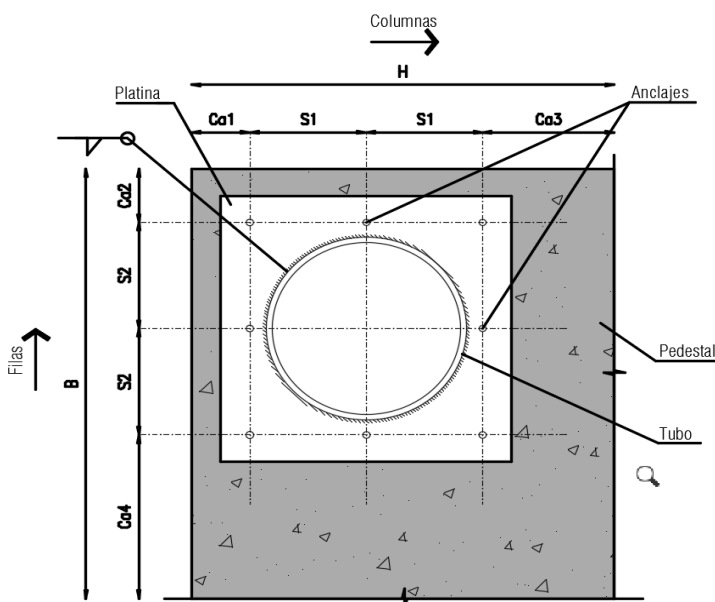
$$t_{pl}(\text{pulg}) = 0.91$$

PROPIEDADES DE LA PLACA BASE

#pernos	8	F1554 GR.55
d _b (pulg):	5/8	
Exposición:	Interior	
Tipo de anclaje:	Con cabeza	

Área cabeza (mm ²):	50
Longitud embebida h_{ef} (mm):	300
Longitud del pedestal h_a (mm):	600
Excent. a tracción e_N (mm):	0.00
Excent. a corte e_N (mm):	0.00
Tipo de concreto	Normal

	$\lambda_a = 1.0$
Fisuración en el pedestal	Fisurado bajo cargas de servicio
Reforzamiento pedestal	Reforzado



Geometria Platina

C_{a1} (mm)	C_{a2} (mm)	C_{a3} (mm)	C_{a4} (mm)	S_1 (mm)	S_2 (mm)
100	100	100	100	190	190

2) ESTADOS LIMITE ANCLAJE A TENSION

2.1. Tensión en el anclaje

					Zona en compresión	
					Y (mm) = 71	
Pernos	F _{ut} (MPa)	d _b (pulg)	#pernos	φN _{sa} (Ton)	Pernos en Tensión	
F1554 GR.55	525	5/8	8	46.76	Filas	Columnas
					3	3

2.2. Arrancamiento del concreto

h _{ef} (mm)	K _c	N _b (Ton)	ψ _{ed,N}	ψ _{c,N}	ψ _{ec,N}	c _{ac} (mm)	ψ _{cp,N}
300	10	27.50	0.77	1.00	1.00	750	1.00
A _{NCO} (mm ²)	A _{NC} (mm ²)	A _{NC} /A _{NCO}	N _{cb} (Ton)	N _{cbrg} (Ton)	φ	φN _{cbrg} (Ton)	
810000	336400	0.42	8.75	8.75	0.75	6.57	

2.2.1 Teniendo en cuenta el refuerzo

Φ _{barra}	#Ramas	F _y (MPa)	s _{máx} (mm)	Con gancho	h _{2,min} (mm)	Check
3/8	4	420	150	SI	416	OK
N _{cbrg} (Ton)	φ	φN _{cbrg} (Ton)				
11.97	0.75	8.98				

2.3 Extracción por deslizamiento a tensión

N _p (Ton)	ψ _{c,p}	φ	φN _b (Ton)
1.12	1.0	0.75	6.72

2.4 Adherencia por tensión del anclaje no adherido

τ_{cr} (MPa)	N_{ba} (Ton)	τ_{ungr} (MPa)	C_{Na} (mm)	A_{Na0} (mm ²)	A_{Na} (mm ²)	A_{Na}/A_{Na0}	
2.1	3.14	7	152.35	92848	336400	3.62	
$\Psi_{ec,N}$	C_{ac} (mm)	C_{Na}/C_{ac}	$\Psi_{cp,N}$	$\Psi_{ed,N}$	N_{ag} (Ton)	ϕN_{ag} (Ton)	ϕRn (Ton)
1.000	750.00	0.203	0.203	0.897	2.07	1.56	10.37

2.5 Desprendimiento lateral

h _{ef} (mm)	K _{1,Ca1}	N _{sb,Ca1} (Ton)	K _{1,Ca2}	N _{sb,Ca2} (Ton)	N _{sbg} (Ton)	φ	N _{sbg} (Ton)
300	0.500	2.43	0.500	2.43	19.46	0.75	14.59

RESUMEN ANCLAJES SOMETIDOS A TENSIÓN

Estado límite	φN _n (Ton)
2.1 Tensión en el anclaje	46.762
2.2 Arrancamiento del concreto	15.544
2.3 Extracción por deslizamiento a tensión	6.720
2.4 Adherencia por tensión del anclaje no adherido	1.556
2.5 Desprendimiento lateral	14.592
φN _n (Ton) con anclajes a tensión	6.720

Tu (Ton)
-2.21

OK

3) ESTADOS LIMITE ANCLAJE A CORTANTE

3.1 Cortante en el anclaje

					Distribución Pernos	
					Filas	Columnas
Pernos	F _y (MPa)	d _b (pulg)	#pernos	φR _n (Ton)	3	2
F1554 GR.55	385	5/8	6	56.47		

2.2 Arrancamiento del concreto

C _{a1} ' (mm)	A _{Vco} (mm ²)	A _{Vc} (mm ²)	l _d (mm)	V _b (Ton)		
290	45000	252300	300	2.28		
ψ _{ec,V}	ψ _{ed,V}	ψ _{c,V}	ψ _{h,V}	A _{Vc} /A _{Vco}	V _{cbg} (Ton)	φV _{cbg} (Ton)
1	0.769	1.2	1.000	5.61	11.78	8.84

2.3 Desprendimiento lateral

h _{ef} (mm)	K _{cp}	N _{cbrg} (Ton)	V _{cpbg} (Ton)	φV _{cpbg} (Ton)
300	2	8.75	17.51	78.79

RESUMEN ANCLAJES SOMETIDOS A CORTANTE

Estado límite	φV _n (Ton)
2.1.Cortante en el anclaje	56.467
2.2 Arrancamiento del concreto	8.835
2.3 Desprendimiento lateral	78.792
φV _n (Ton) con anclajes a tensión	8.835

V _{u1} (Ton)
5.0

OK

4) INTERACCION TRACCIÓN-CORTANTE ANCLAJES

CASO 1

PERNOS A COMPRESIÓN

Caso 1: Si $V_{uo} \leq 0.2 \cdot \phi V_n$

$$N_{ua} / \phi N_n = \quad \text{NA} \quad \text{OK}$$

5) REVISIÓN DE LA SOLDADURA

φ	F _{Exx} (Ksí)	F _{Exx} (MPa)	t _{w,min} (mm)	t _{w,máx} (mm)	t _w (mm)
0.75	70	483	5	8	8

5.1 Soldadura todo alrededor

Solicitaciones	V _u (T)	L _w (mm)	β	L _{w,efectivo} (mm)	φ (R _n)	Check
Corte (T)=	5.0	1005	0.949	954	117	OK
Flexión (T)=	62.5					