



REALIZAR LA CONSULTORIA PARA LA ELABORACION DE LOS ESTUDIOS, DISEÑOS, OBTENCIÓN DE PERMISOS, APROBACIONES Y LICENCIAS DE CONSTRUCCIÓN Y/O URBANISMO DE UN CENTRO CRECER EN LA CIUDAD DE BOGOTÁ D.C.

**CENTRO CRECER CALANDAIMA - SDIS
SECRETARÍA DISTRITAL DE INTEGRACIÓN SOCIAL**

MEMORIA DE CALCULO ESTRUCTURAL

OCTUBRE 30 2018

CONSORCIO CRECER DSB TALLAR

**CONTRATO DE CONSULTORÍA N° 9278 - 2017
SDIS – CONSORCIO CRECER DSB TALLAR.**



**BOGOTÁ
MEJOR
PARA TODOS**

PROYECTO: CENTRO CRECER CAMPO ALEGRE - SDIS	MEMORIA DE CALCULO ESTRUCTURAL	CONSORCIO CRECER DSB TALLAR
MEMORIA CENTRO CAMPO ALEGRE - V2 / OCT-18		

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CENTRO CRECER CAMPO ALEGRE BOGOTA- CUNDINAMARCA

1. DESCRIPCIÓN GENERAL

1.1 Generalidades

El presente estudio fue elaborado por GUEVARA ÁLVAREZ INGENIEROS LTDA, en desarrollo del proyecto de diseño estructural contratado por DSB ARQUITECTOS

El proyecto se encuentra localizado en la ciudad de Bogotá, Cundinamarca, con un área de construcción de aproximadamente 1500 m², destinada para edificaciones que conforman el Centro Crecer Campo Alegre.

En el presente informe y en los planos estructurales que se entregan se encuentran desarrollados todos los aspectos referentes al proyecto.

1.2 Descripción de las estructuras

1.2.1 BLOQUE 1

Las estructuras están diseñadas y definidas en concreto, cuyo sistema estructural se ha definido como: pórticos resistentes a momento con capacidad moderada de disipación de energía (DMO), conforme la tabla A.3-3 del reglamento NSR-10.

Las estructuras son de un (1) nivel, las definen seis (6) ejes transversales (numerales) y tres (3) ejes longitudinales (literales), distanciados entre sí 6.25m y 7.45-8.05 m, respectivamente.

La cimentación está conformada por pilotes de 0.60 m de diámetro, con una profundidad de 15 m bajo el terreno actual. La placa del nivel NE+0.10 es aérea y cuenta con una altura 0.60m.

Los niveles de entrepiso se conforman mediante placas aligeradas en dos direcciones de 0.60m de altura, con torta superior de 0.06m de espesor y torta inferior de 0.04m de espesor. Las estructuras cuentan con columnas de secciones 0.40x0.60m y circulares con diámetro de 0.60.

1.2.2 BLOQUE 2

Las estructuras están diseñadas y definidas en concreto, cuyo sistema estructural se ha definido como: pórticos resistentes a momento con capacidad moderada de disipación de energía (DMO), conforme la tabla A.3-3 del reglamento NSR-10.

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Las estructuras son de un (1) nivel, las definen tres (3) ejes transversales (numerales) y dos (2) ejes longitudinales (literales), distanciados entre sí 6.25m y 8.15m, respectivamente.

La cimentación está conformada por pilotes de 0.60 m de diámetro, con una profundidad de 15 m bajo el terreno actual. La placa del nivel NE+0.10 es aérea y cuenta con una altura 0.60m.

Los niveles de entrepiso se conforman mediante placas aligeradas en dos direcciones de 0.60m de altura, con torta superior de 0.06m de espesor y torta inferior de 0.04m de espesor. Las estructuras cuentan con columnas de secciones 0.40x0.60m y 0.40x0.65m

1.2.3 BLOQUE 3

Las estructuras están diseñadas y definidas en concreto, cuyo sistema estructural se ha definido como: pórticos resistentes a momento con capacidad moderada de disipación de energía (DMO), conforme la tabla A.3-3 del reglamento NSR-10.

Las estructuras son de dos (2) nivel, la definen cuatro (4) ejes transversales (numerales) y dos (6) ejes longitudinales (literales), distanciados entre sí 4.25m y 8.40m, respectivamente.

La cimentación está conformada por pilotes de 0.60 m de diámetro, con una profundidad de 15 m bajo el terreno actual. La placa del nivel NE+0.10 es aérea y cuenta con una altura 0.60m.

Los niveles de entrepiso se conforman mediante placas aligeradas en dos direcciones de 0.60m y 0.70m de altura, con torta superior de 0.06m de espesor y torta inferior de 0.04m de espesor. Las estructuras cuentan con columnas de secciones 0.40x0.60m, 0.45x0.40m y circulares con diámetros de 0.60 m.

1.3 Definición de elementos no estructurales

A continuación, se listan los elementos no estructurales del proyecto:

- Muros de cerramiento
- Antepechos
- Muros divisorios

1.4 Características del uso y suelo

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Por su uso, las edificaciones se clasifican en el Grupo III, correspondiente a estructuras de atención a la comunidad ($I=1.25$)

La ciudad de Bogotá D.C, cuenta con un estudio de Microzonificación Sísmica, aprobada mediante Decreto 523 de 2010, a partir de cual se han obtenido los coeficientes espectrales de diseño para una zona tipo Aluvial 300.

De acuerdo a la información contenida dentro del estudio de suelos suministrado, se caracteriza el suelo con un *Perfil Tipo F*, conforme al reglamento NSR-10.

La cimentación de todas las estructuras estará compuesta por pilotes pre excavados y fundidos in situ que trabajarán por fricción en los suelos arcillosos del perfil, La profundidad de los pilotes será como mínimo de 15 m bajo el nivel 0.0.

1.5 Materiales

Se utilizaron las siguientes resistencias para los concretos:

Cimentación:	$f'_c = 21.0 \text{ MPa}$, $E_c = 21538.1 \text{ MPa}$
Vigas y placas aéreas:	$f'_c = 28.0 \text{ MPa}$, $E_c = 24870.1 \text{ MPa}$
Columnas:	$f'_c = 28.0 \text{ MPa}$, $E_c = 24870.1 \text{ MPa}$
Tanques:	$f'_c = 28.0 \text{ MPa}$, $E_c = 24870.1 \text{ MPa}$

Para los elementos metálicos:

Lámina colaborante Steel Deck	$F_y = 280.0 \text{ MPa}$
Láminas conexiones ASTM A-36:	$F_y = 250.0 \text{ MPa}$
Perfilería estructural ASTM A-36	$F_y = 250.0 \text{ MPa}$
Tubería estructural cuadrada ASTM A500 Gr. C	$F_y = 350.0 \text{ MPa}$
Pernos anclaje ASTM F1554 Gr. 36	
Soldaduras (SMAW-MIG) AWS E-70, ER70	
Tornillería ASTM A-325	

Acero de refuerzo:

Barras #3 y menores:	$F_y = 420.0 \text{ MPa}$
Barras #4 y mayores:	$F_y = 420.0 \text{ MPa}$

Mampostería parcialmente reforzada:

Mampostería de perforación vertical:	$f'_m = 10.0 \text{ MPa}$
Mortero de inyección:	$f'_{cp} = 12.5 \text{ MPa}$
Mortero de Pega:	$f'_{cp} = 12.5 \text{ MPa}$

1.6 Normas

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La evaluación de la estructura, y todos sus elementos constitutivos, fue realizada cumpliendo con los requerimientos establecidos por las NORMAS COLOMBIANAS DE DISEÑO Y CONSTRUCCIÓN SISMO-RESISTENTES, correspondientes a:

- Norma NSR-10, Reglamento de Construcciones Sismo-Resistentes
- Ley 400 de 1997, y posteriores Decretos complementarios y reglamentarios
- Decreto 926, del 19 de marzo de 2010, modificaciones técnicas y científicas al Reglamento Colombiano de Construcción Sismo-Resistente - NSR-10.

ING. IVÁN MAURICIO GUEVARA RODRÍGUEZ
MP. 25202-65724 CND.

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MEMORIAL DE RESPONSABILIDAD ESTRUCTURAL

Yo **IVAN MAURICIO GUEVARA RODRIGUEZ**, identificado como aparece en la cédula de ciudadanía No. 80.419.229, de profesión Ingeniero Civil con Tarjeta Profesional No. **2520265724 CND**, con más de cinco años de experiencia de ejercicio profesional, en el ejercicio de la facultad conferida por el decreto 926 del 2010 y el decreto 092 de 2011, NSR-10, por medio del presente documento declaro que asumo toda responsabilidad de los diseños y planos estructurales contenidos en el **CENTRO CRECER CAMPO ALEGRE**, ubicado en Bogotá, (Cundinamarca), eximiendo a la **CURADURIA URBANA** de cualquier responsabilidad o perjuicio relacionado ó producido por este concepto.

Para constancia de lo anterior se firma en la ciudad de Bogotá D.C., a los once días (03) días del mes de julio de 2018.

Atentamente,


IVAN MAURICIO GUEVARA R.
T.P. No. 2520265724 CND

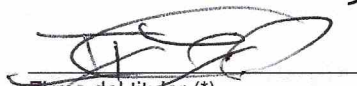
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RUBÉN DARÍO OCHOA ARBELÁEZ


Firma del titular (*)

(*) Con el fin de verificar que el titular autoriza su participación en procesos estatales de selección de contratistas. La falta de firma del titular no invalida el Certificado.

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Matrícula Profesional No.
25202-65724 CND
Fecha de Expedición: 19/05/1997

Nombre:
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GUEVARA RODRIGUEZ**
Identificación:
C.C. 80419229
Profesión:
INGENIERO CIVIL
Institución:
**UNIVERSIDAD NACIONAL DE
COLOMBIA**



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CENTRO CRECER CAMPO ALEGRE

CAPITULO 2
PARÁMETROS SÍSMICOS Y ESTRUCTURALES

	PROYECTO:	CENTRO CRECER		FECHA:	2/08/2018																					
	INGENIERO:	IVAN MAURICIO GUEVARA		N.P :	P-18-490																					
2.1 - DEFINICION DE MOVIMIENTO SISMICO DEL DISEÑO																										
<p>a.- Ubicación del proyecto: Carrera 88 No. 6A-36, Bogota D.C</p> <p>b.- Zona de amenaza sísmica: Intermedia</p> <p>c.- Valor de A_a $A_a = 0.15$</p> <p>d.- Valor de A_v $A_v = 0.20$</p> <p>e.- Zona de Respuesta Sísmica (Microzonificación): Aluvial 300</p> <p>f.- Tipo de perfil de suelo:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Fa</th> <th>Fv</th> </tr> </thead> <tbody> <tr><td>A</td><td></td><td></td></tr> <tr><td>B</td><td></td><td></td></tr> <tr><td>C</td><td></td><td></td></tr> <tr><td>D</td><td></td><td></td></tr> <tr><td>E</td><td></td><td></td></tr> <tr><td>F</td><td>0.95</td><td>2.10</td></tr> </tbody> </table> <p style="text-align: center;">x</p> <p>g.- Grupo de uso III</p> <p>h.- Coeficiente de importancia: I 1.25</p> <p>i.- Coeficiente de amortig. crítico C.C.A: 5%</p> <p>j.- Espectro de diseño: Elástico</p>							Fa	Fv	A			B			C			D			E			F	0.95	2.10
	Fa	Fv																								
A																										
B																										
C																										
D																										
E																										
F	0.95	2.10																								
Observaciones: Según numeral A.6.2.1.2, el coeficiente de importancia a utilizar para el cálculo del desplazamiento horizontal I= 1 y para el diseño III= 1.25					Revisó: _____ Ejecutó: _____																					

	PROYECTO:	FECHA:
	CENTRO CRECER	2/08/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA	P-18-490
2.2 CARACTERISTICAS DE LOS MATERIALES Y DE LA ESTRUCTURA		
a.- Sistema estructural:	PORTICOS RESISTENTES A MOMENTOS	
b.- Material	CONCRETO	
c.- Capacidad de disipación de energía	Moderada (DMO)	
d.- Coeficiente de capacidad básica de modificación de respuesta	Ro = 5.0	
Coeficiente de Sobre resistencia	$\Omega_0 = 3.0$	
e.- Número de edificaciones	1	
f.- Número de pisos	2 PISOS	
Observaciones:		Revisó: _____ Ejecutó: _____

	PROYECTO:	FECHA:
	CENTRO CRECER	2/08/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA	P-18-490

2.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 1

a.- EDIFICACIÓN: 2 PISOS

b.- CONFIGURACION EN PLANTA

TIPO	DESCRIPCION	ϕ_p
1aP	Irregularidad torsional	1.0
1bP	Irregularidad torsional extrema	1.0
2P	Retrocesos en esquinas	\times 0.9
3P	Discontinuidades en el diafragma	1.0
4P	Desplaz. de elementos verticales	1.0
5P	Sistemas no paralelos	1.0
$\phi_p =$	0.9	

c.- CONFIGURACION EN ALTURA

TIPO	DESCRIPCION	ϕ_a
1aA	Piso flexible (irregularidad en rigidez)	1.0
1bA	Piso flexible (irregularidad extrema en rigidez)	1.0
2A	Distribución masa	1.0
3A	Irregularidad geométrica	1.0
4A	Desplaz. dentro del plano de acción	1.0
5aA	Piso débil- discontinuidad en la resistencia	1.0
5bA	Piso débil- discontinuidad extrema resistencia	1.0
$\phi_a =$	1.0	

d.- AUSENCIA DE REDUNDANCIA ϕ_r 1.00

e.- COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA
 $R_o = 5.0$

f.- COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA

$R = (\phi_a) \times (\phi_p) \times (\phi_r) \times R_o$
 $R = 4.50$


g.- EFECTOS ORTOGONALES EN CARGAS SISMICAS


Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y


h.- MEZCLA DE SISTEMAS ESTRUCTURALES

No existe, ni en planta ni en altura.

Observaciones:	Revisó: _____ Ejecutó: _____
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	PROYECTO:	CENTRO CRECER		FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA		N.P :	P-18-490
2.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 2 EJES 1-3					
a.- EDIFICACIÓN: 2 PISOS					
b.- CONFIGURACION EN PLANTA					
	TIPO	DESCRIPCION		ϕp	
	1aP	Irregularidad torsional		1.0	
	1bP	Irregularidad torsional extrema		1.0	
	2P	Retrocesos en esquinas		1.0	
	3P	Discontinuidades en el diafragma		1.0	
	4P	Desplaz. de elementos verticales		1.0	
	5P	Sistemas no paralelos		1.0	
	$\phi p =$	1.0			
c.- CONFIGURACION EN ALTURA					
	TIPO	DESCRIPCION		ϕa	
	1aA	Piso flexible (irregularidad en rigidez)		1.0	
	1bA	Piso flexible (irregularidad extrema en rigidez)		1.0	
	2A	Distribución masa		1.0	
	3A	Irregularidad geométrica		1.0	
	4A	Desplaz. dentro del plano de acción		1.0	
	5aA	Piso débil- discontinuidad en la resistencia		1.0	
	5bA	Piso débil- discontinuidad extrema resistencia		1.0	
	$\phi a =$	1.0			
d.-	AUSENCIA DE REDUNDANCIA		ϕr	X	0.75
e.-	COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA				
	$R_o =$	5.0			
f.-	COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA				
	$R =$	$(\phi a) \times (\phi p) \times (\phi r) \times R_o$			
	$R =$	3.75			
g.-	EFECTOS ORTOGONALES EN CARGAS SISMICAS				
	Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y				
h.-	MEZCLA DE SISTEMAS ESTRUCTURALES				
	No existe, ni en planta ni en altura.				
Observaciones:					Revisó: _____ Ejecutó: _____

	PROYECTO:	CENTRO CRECER		FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA		N.P :	P-18-490
2.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 2 EJES 4-9					
a.- EDIFICACIÓN: 2 PISOS					
b.- CONFIGURACION EN PLANTA					
	TIPO	DESCRIPCION		ϕp	
	1aP	Irregularidad torsional		1.0	
	1bP	Irregularidad torsional extrema		1.0	
	2P	Retrocesos en esquinas		1.0	
	3P	Discontinuidades en el diafragma		1.0	
	4P	Desplaz. de elementos verticales		1.0	
	5P	Sistemas no paralelos		1.0	
	$\phi p =$	1.0			
c.- CONFIGURACION EN ALTURA					
	TIPO	DESCRIPCION		ϕa	
	1aA	Piso flexible (irregularidad en rigidez)		1.0	
	1bA	Piso flexible (irregularidad extrema en rigidez)		1.0	
	2A	Distribución masa		1.0	
	3A	Irregularidad geométrica		1.0	
	4A	Desplaz. dentro del plano de acción		1.0	
	5aA	Piso débil- discontinuidad en la resistencia		1.0	
	5bA	Piso débil- discontinuidad extrema resistencia		1.0	
	$\phi a =$	1.0			
d.-	AUSENCIA DE REDUNDANCIA		ϕr	X	0.75
e.-	COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA				
	$R_o =$	5.0			
f.-	COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA				
	$R =$	$(\phi a) \times (\phi p) \times (\phi r) \times R_o$			
	$R =$	3.75			
g.-	EFECTOS ORTOGONALES EN CARGAS SISMICAS				
	Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y				
h.-	MEZCLA DE SISTEMAS ESTRUCTURALES				
	No existe, ni en planta ni en altura.				
Observaciones:					Revisó: _____ Ejecutó: _____

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA	P-18-490

2.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 3

a.- EDIFICACIÓN: 2 PISOS

b.- CONFIGURACION EN PLANTA

TIPO	DESCRIPCION	ϕ_p
1aP	Irregularidad torsional	X 0.9
1bP	Irregularidad torsional extrema	1.0
2P	Retrocesos en esquinas	X 0.9
3P	Discontinuidades en el diafragma	1.0
4P	Desplaz. de elementos verticales	1.0
5P	Sistemas no paralelos	1.0
$\phi_p =$	0.9	

c.- CONFIGURACION EN ALTURA

TIPO	DESCRIPCION	ϕ_a
1aA	Piso flexible (irregularidad en rigidez)	1.0
1bA	Piso flexible (irregularidad extrema en rigidez)	1.0
2A	Distribución masa	1.0
3A	Irregularidad geométrica	1.0
4A	Desplaz. dentro del plano de acción	1.0
5aA	Piso débil- discontinuidad en la resistencia	1.0
5bA	Piso débil- discontinuidad extrema resistencia	1.0
$\phi_a =$	1.0	

d.- AUSENCIA DE REDUNDANCIA ϕ_r **X** 0.75

e.- COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA
 $R_o = 5.0$

f.- COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA

$R = (\phi_a) \times (\phi_p) \times (\phi_r) \times R_o$
 $R = 3.38$


g.- EFECTOS ORTOGONALES EN CARGAS SISMICAS


Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y

h.- MEZCLA DE SISTEMAS ESTRUCTURALES

No existe, ni en planta ni en altura.

Observaciones:	Revisó: _____ Ejecutó: _____
----------------	---------------------------------

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA	P-18-490
<p align="center">2.4 - CARACTERISTICAS DEL DISEÑO</p>		
<p>a.- METODO DE ANALISIS SISMICO UTILIZADO</p> <p>Analisis dinámico elástico espectral</p> <p>b.- METODO DE ANALISIS ESTRUCTURAL</p> <p>Análisis matricial: Estructura principal</p> <p>c.- METODO DE DISEÑO</p> <p>Resistencia ultima</p>		
Observaciones:		Revisó: _____ Ejecutó: _____

	PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-18-490
2.5 - ESPECTRO SISMICO				
MODELO NSR-10				
a. - PERIODO DE LA ESTRUCTURA				
$T_a = C_t \times h^\alpha$ $C_t = 0.047$ (Pórticos resistentes a momento) $\alpha = 0.90$ $h_n = 8.50 \text{ m}$ $T_a = 0.32$ $c_u = 1.25$ $T_{dinmax} = 0.40$ $T_{din} = 0.52$				
b. - PARÁMETROS				
$A_a = 0.15$ $F_a = 0.95$ $I = 1.00$ $I_{dis} = 1.25$		$A_v = 0.20$ $F_v = 2.10$		
c. - LIMITES DEL PERIODO				
$T_o = (0.1 \cdot A_v \cdot F_v) / (A_a \cdot F_a) = 0.29$ $T_c = (0.48 \cdot A_v \cdot F_v) / (A_a \cdot F_a) = 1.41$ $T_L = T_L \text{ (Tabla 3., Decreto 523 de 2010)} = 3.50$				
d. - ESPECTRO PARA PERIODOS MENORES A T_c.				
$S_a 1 = 2.5 \cdot A_a \cdot F_a \cdot I =$		$S_a 1 = 0.36$		
e. - ESPECTRO DE ACELERACIONES EN FUNCION DE T				
$S_a 2 = \frac{1.2 \cdot A_v \cdot F_v \cdot I}{T}$		$S_a 2 = 0.50 / T = 0.97$		
f. - ESPECTRO PARA PERIODOS MAYORES A T_L.				
$S_a 3 = \frac{1.2 \cdot A_v \cdot F_v \cdot T_L \cdot I}{T^2}$		$S_a 3 = 1.76 / T^2 = 6.59$		
g. - ESPECTRO SISMICO DE DISEÑO				
$S_a = 0.36$ 36% (g)				
Para el diseño el espectro sísmico según NSR-10, entonces $S_a = 0.36 = 35.625\%$ (g)				
Observaciones:			Revisó: _____ Ejecutó: _____	



PROYECTO:

CENTRO CRECER

FECHA:

1/08/2018

INGENIERO:

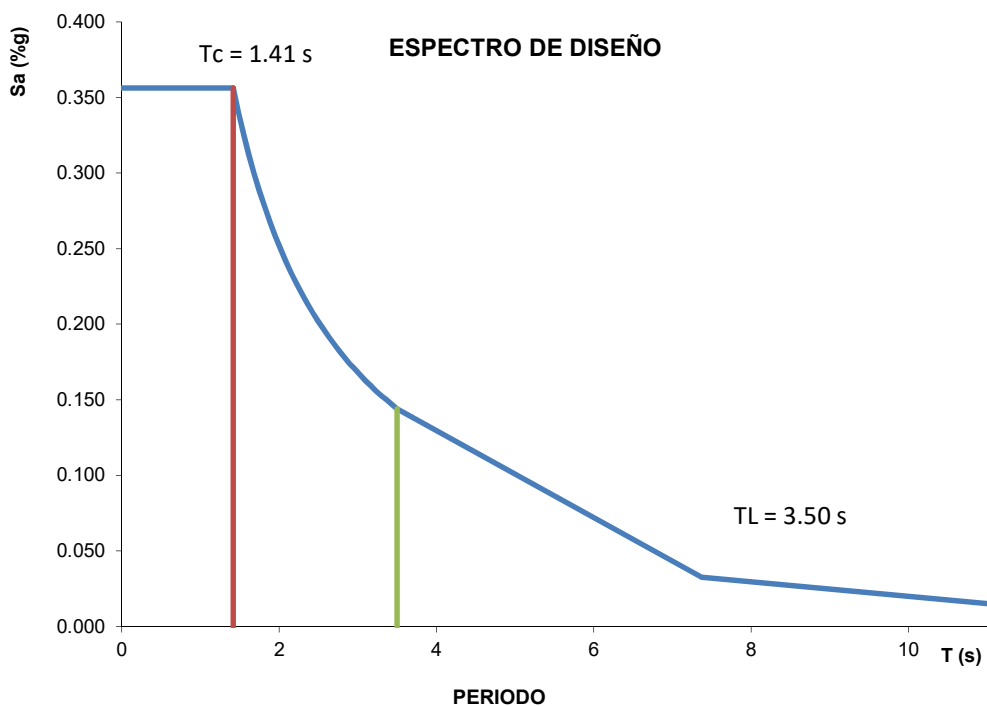
IVAN MAURICIO GUEVARA

N.P :

P-18-490

2.5 - ESPECTRO SISMICO DE DISEÑO

CURVAS DE ESPECTROS DE ACUERDO A LA NSR-10



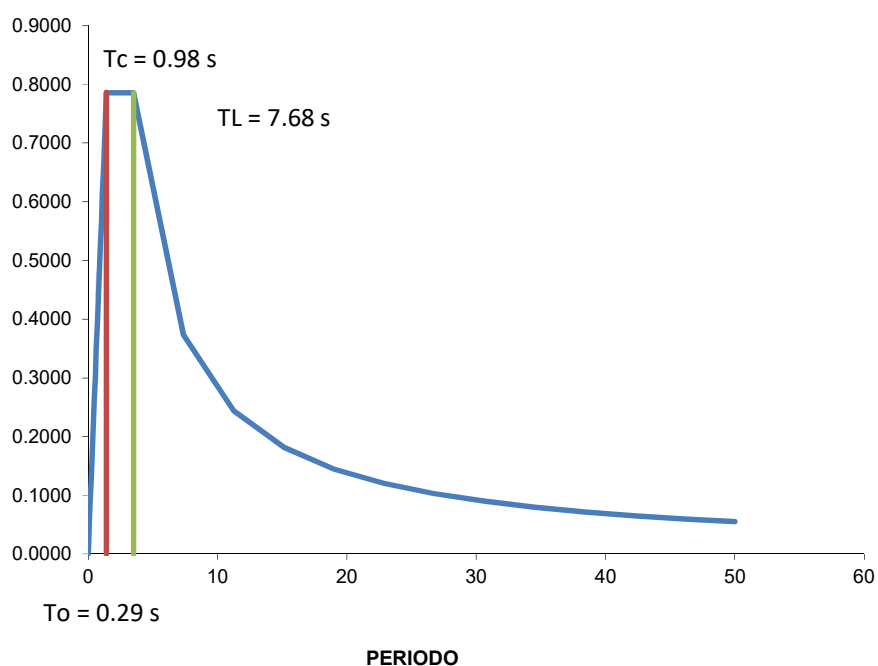
Observaciones:

Revisó: _____

Ejecutó: _____

2.5 - ESPECTRO ELASTICO DE VELOCIDADES (m/s) DE DISEÑO

i.



Observaciones:

Revisó: _____
Ejecutó: _____



PROYECTO:

CENTRO CRECER

FECHA:

1/08/2018

INGENIERO:

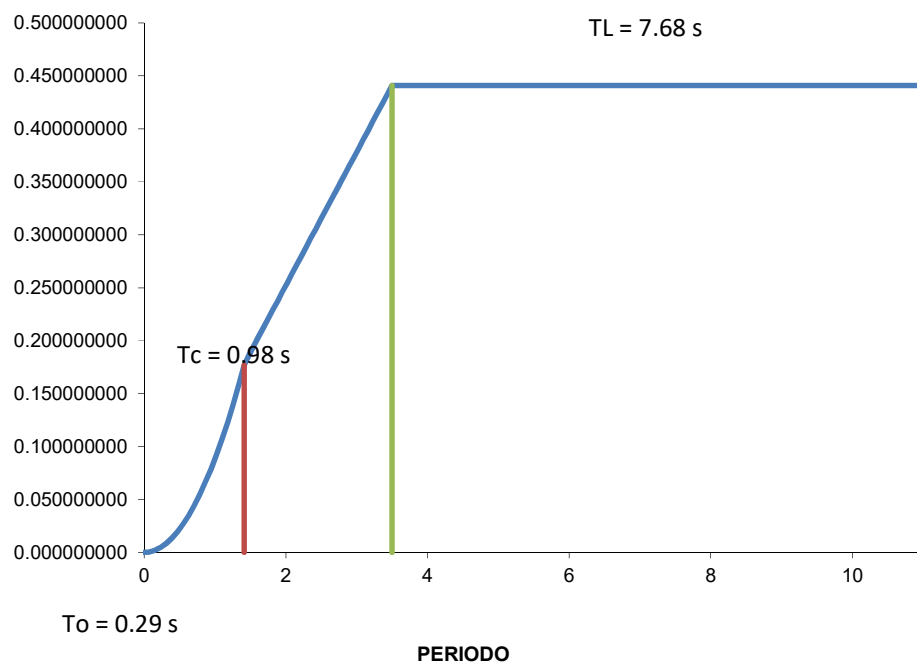
IVAN MAURICIO GUEVARA

N.P.:

P-18-490

2.5 - ESPECTRO ELASTICO DE DESPLAZAMIENTOS (m) DE DISEÑO

j.



Observaciones:

Revisó: _____
Ejecutó: _____

CAPITULO 3
PESO DE LA EDIFICACIÓN

PROYECTO:	FECHA:
CENTRO CRECER	1/08/2018
INGENIERO:	N.P :
IVAN MAURICIO GUEVARA	P-490

3. PESO DE LA EDIFICACION

VOLUMES DE VIGAS Y COLUMNAS

PISO 1

NE+0.10

$$\text{Area placa} = 1360.35 \text{ m}^2$$

Columnas y pantallas


ITEM	b (m)	h (m)	H (m)	Cant	V (m3)	Peso (t)
C40X60	0.40	0.60	4.45	13	13.88	33.32
C60	0.28		4.45	4	5.03	12.08
C40X60	0.40	0.60	4.05	6	5.83	14.00
C40X60	0.40	0.60	4.05	6	5.83	14.00
C40X65	0.40	0.65	4.05	6	6.32	15.16
C40X60	0.40	0.60	3.55	10	8.52	20.45
C60	0.60		3.55	2	0.28	0.68
Total				47	18.92	45.40

Vigas

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
V40X60	0.40	0.60	560.33	134.48	322.75
V40X55	0.40	0.55	18.75	4.13	9.90
V20X60	0.20	0.60	116.75	14.01	33.62
V15X60	0.15	0.60	6.25	0.56	1.35
Total				153.18	367.62

Viguetas

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
VT12X55	0.12	0.55	66.05	4.36	10.46
VT12X60	0.12	0.60	1626.02	117.07	280.98
Total				121.43	291.44

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA	P-490

3. PESO DE LA EDIFICACION

VOLUMES DE VIGAS Y COLUMNAS


CUBIERTA BLOQUE 1EJES 1- NE+4.15 Area placa = 117.50 m²

Vigas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
V40X60	0.40	0.60	53.20	12.77	30.64
V20X60	0.20	0.60	12.50	1.50	3.60
Total				14.27	34.24

Viguetas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
VT12X60	0.12	0.60	154.80	11.15	26.75
Total				11.15	26.75

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA	P-490

3. PESO DE LA EDIFICACION

VOLUMES DE VIGAS Y COLUMNAS


CUBIERTA BLOQUE 1 EJES 4 NE+4.15 Area placa = 117.50 m²

Vigas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
V40X60	0.40	0.60	53.20	12.77	30.64
Total				12.77	30.64

Viguetas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
VT12X60	0.12	0.60	139.46	10.04	24.10
Total				10.04	24.10

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA	P-490

3. PESO DE LA EDIFICACION

VOLUMES DE VIGAS Y COLUMNAS


CUBIERTA BLOQUE 1 NE+4.55 Area placa = 305.57 m²

Vigas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
V60X60	0.60	0.60	28.00	10.08	24.19
V40X60	0.40	0.60	140.20	33.65	80.76
V20X60	0.20	0.60	7.45	0.89	2.15
Total				44.62	107.09

Viguetas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
VT12X60	0.12	0.60	483.99	34.85	83.63
Total				34.85	83.63

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P. :
	IVAN MAURICIO GUEVARA	P-18-490

3. PESO DE LA EDIFICACION

VOLUMES DE VIGAS Y COLUMNAS

PISO 2 BLOQUE 3 N +4.35 Area placa = 258.58 m²

Columnas y pantallas


ITEM	b (m)	h (m)	H (m)	Cant	V (m3)	Peso (t)
C40X60	0.40	0.60	3.60	10	8.64	20.74
C45X40	0.40	0.45	3.60	2	1.30	3.11
Total				12	8.64	20.74

Vigas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
V40X70	0.40	0.70	95.13	26.64	63.93
V20X70	0.20	0.70	65.85	9.22	22.13
V15X70	0.15	0.70	7.25	0.76	1.83
V40X60	0.40	0.60	24.55	5.89	14.14
V20X60	0.20	0.60	12.50	1.50	3.60
Total				44.01	105.62

Viguetas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
VT12X70	0.12	0.70	232.56	19.54	46.88
VT12X60	0.12	0.60	60.03	4.32	10.37
Total				23.86	57.26

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P. :
	IVAN MAURICIO GUEVARA	P-18-490


CUBIERTA BLOQUE 3 N +8.55 Area placa = 200.20 m²

Vigas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
V40X60	0.40	0.60	93.87	22.53	54.07
V20X60	0.20	0.60	36.30	4.36	10.45
V30X60	0.30	0.60	29.30	5.27	12.66
V15X60	0.15	0.60	7.00	0.63	1.51
Total				32.79	78.69

Viguetas Entrepiso

ITEM	b (m)	h (m)	L (m)	V (m3)	Peso (t)
VT12X60	0.12	0.60	231.86	16.69	40.07
Total				16.69	40.07

	PROYECTO:					FECHA:
	CENTRO CRECER					1/08/2018
	INGENIERO:					N.P :
	IVAN MAURICIO GUEVARA					P-490
CALCULO DE DENSIDADES						
N +0.10						
Area de placa						
1360.35 m ²						
MUROS						
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
MUROS ANTEPECHO	0.15	267.80	40.17	1600	3.85	247.45
MUROS ANTEPECHO	0.15	89.80	13.47	1600	3.45	74.36
MUROS ANTEPECHO	0.15	96.88	14.53	1600	3.45	80.22
MUROS ANTEPECHO	0.15	127.09	19.06	1600	3.55	108.28
						510.30

MUROS ANTEPECHO	0.375	t/m ²
MUROS CONTENCION	0.000	t/m2
DENSIDAD DE VIGAS	0.270	t/m ²
DENSIDAD DE COLUMNAS	0.017	t/m ²
DENSIDAD DE VIGUETAS	0.214	t/m ²

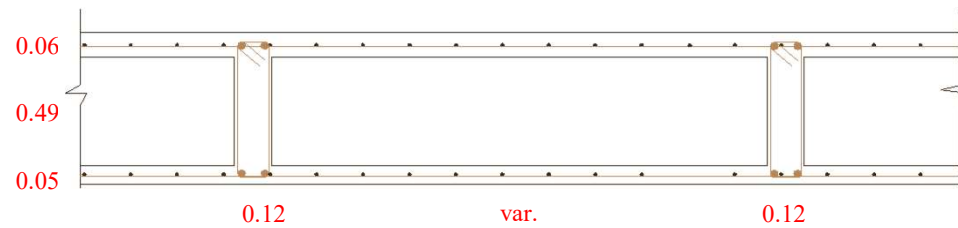


PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-490

AVALUO DE CARGAS

N +0.10

N +0.00




Placa Sup. e Inf.	0.11	x	2.40	t/m ²	0.26
Casetones					0.05
Acabados	0.05	x	2.20		0.11
					<hr/> 0.424

MUROS	0.375	t/m ²
CARGA MUERTA	0.80	t/m ²
CARGA VIVA	0.20	t/m ²
CARGA VIVA CORREDORES	0.50	t/m ²

DENSIDADES

VIGAS	0.270	t/m ²
COLUMNAS	0.017	t/m ²
VIGUETAS	0.214	t/m ²
CARGA REAL	1.50	t/m ²
CARGA ULTIMA PARA VIGUETAS	0.83	t/m ²
CARGA PARA ANALISIS SISMICO	1.30	t/m ²

	PROYECTO:					FECHA:		
	CENTRO CRECER					1/08/2018		
	INGENIERO:					N.P :		
	IVAN MAURICIO GUEVARA					P-490		
CALCULO DE DENSIDADES							CUBIERTA BLOQUE 1EJES 1-3	N +4.15
Area de placa							117.50	m ²
MUROS								
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)		
MUROS ANTEPECHO	0.15	43.80	0.00	1600	0.15	1.58		
						1.58		

MUROS ANTEPECHO 0.013 t/m²

MUROS CONTENCION 0.000 t/m2

DENSIDAD DE VIGAS 0.291 t/m²

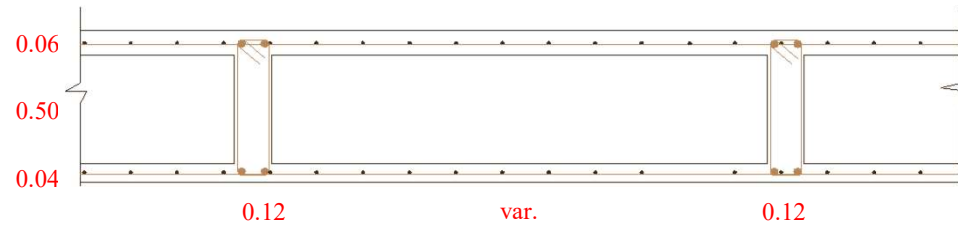
DENSIDAD DE COLUMNAS 0.060 t/m²

DENSIDAD DE VIGUETAS 0.228 t/m²



PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-490

AVALUO DE CARGAS CUBIERTA BLOQUE 1EJES 1-3 N +4.15




Placa Sup. e Inf.	0.10	x	2.40	t/m ²
Casetones				0.24
Acabados	0.05	x	2.20	0.05
				<hr/> 0.11
				0.400

MUROS	0.013	t/m ²
CARGA MUERTA	0.41	t/m ²
CARGA VIVA	0.18	t/m ²

DENSIDADES

VIGAS	0.291	t/m ²
COLUMNAS	0.060	t/m ²
VIGUETAS	0.228	t/m ²
CARGA REAL	1.17	t/m ²
CARGA ULTIMA PARA VIGUETAS	0.77	t/m ²
CARGA PARA ANALISIS SISMICO	0.99	t/m ²

	PROYECTO:					FECHA:		
	CENTRO CRECER					1/08/2018		
	INGENIERO:					N.P :		
	IVAN MAURICIO GUEVARA					P-490		
CALCULO DE DENSIDADES							CUBIERTA BLOQUE 1 EJES 4-9	N +4.15
Area de placa		117.50					m ²	
MUROS								
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)		
MUROS ANTEPECHO	0.15	43.80	0.00	1600	0.15	1.58		
						1.58		

MUROS ANTEPECHO 0.013 t/m²

MUROS CONTENCION 0.000 t/m²

DENSIDAD DE VIGAS 0.261 t/m²

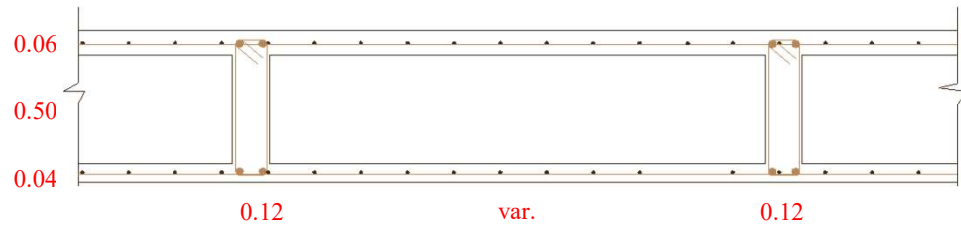
DENSIDAD DE COLUMNAS 0.062 t/m²

DENSIDAD DE VIGUETAS 0.205 t/m²



PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-490

AVALUO DE CARGAS CUBIERTA BLOQUE 1 EJES 4-9 N +4.15



Placa Sup. e Inf.	0.10	x	2.40	t/m ²
Casetones				0.24
Acabados	0.05	x	2.20	0.05
				0.11
				<hr/> 0.400

MUROS	0.013	t/m ²
CARGA MUERTA	0.41	t/m ²
CARGA VIVA	0.50	t/m ²

DENSIDADES

VIGAS	0.261	t/m ²
COLUMNAS	0.062	t/m ²
VIGUETAS	0.205	t/m ²
CARGA REAL	1.44	t/m ²
CARGA ULTIMA PARA VIGUETAS	1.28	t/m ²
CARGA PARA ANALISIS SISMICO	0.94	t/m ²

	PROYECTO:				FECHA:	
	CENTRO CRECER				1/08/2018	
	INGENIERO:				N.P. :	
	IVAN MAURICIO GUEVARA				P-18-490	
CALCULO DE DENSIDADES						
			PISO 2 BLOQUE 3		N +4.35	
Area de placa			258.58		m ²	
MUROS						
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
MUROS NO ESTRUC.	0.15	86.39	12.96	1600	3.60	74.64
BARANDAS		50.43		100.00		5.04
						79.69


MUROS NO ESTRUCT. 0.308 t/m²

MUROS CONTENCION 0.000 t/m²

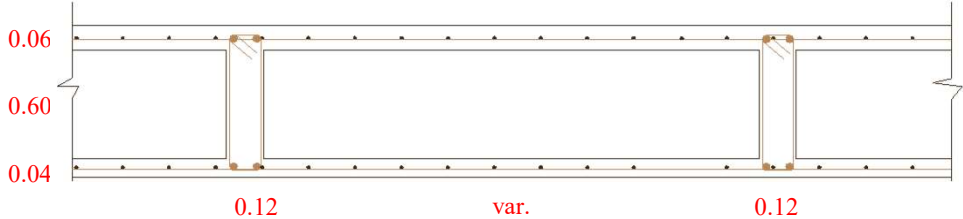
DENSIDAD DE VIGAS 0.408 t/m²

DENSIDAD DE COLUMNAS 0.081 t/m²

DENSIDAD DE VIGUETAS 0.221 t/m²

	PROYECTO:		CENTRO CRECER		FECHA:		1/08/2018	
	INGENIERO:		IVAN MAURICIO GUEVARA		N.P.:		P-18-490	


AVALUO DE CARGAS		PISO 2 BLOQUE 3		N +4.35	
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Placa Sup. e Inf.	0.10	x	2.40	t/m ²	0.24
Casetones					0.05
Acabados	0.05	x	2.20		0.11
					0.400

MUROS	0.308	t/m ²
CARGA MUERTA	0.71	t/m ²
CARGA VIVA	0.20	t/m ²
CARGA VIVA CORREDOR-ESCALERA	0.50	t/m ²

DENSIDADES		
VIGAS	0.408	t/m ²
COLUMNAS	0.081	t/m ²
VIGUETAS	0.221	t/m ²
CARGA REAL	1.62	t/m ²
CARGA ULTIMA PARA VIGUETAS	0.80	t/m ²
CARGA PARA ANALISIS SISMICO	1.42	t/m ²

	PROYECTO:					FECHA:
	CENTRO CRECER					1/08/2018
	INGENIERO:					N.P.:
	IVAN MAURICIO GUEVARA					P-490

CALCULO DE DENSIDADES		CUBIERTA BLOQUE 1		N +4.55	
Area de placa	305.57		m ²		

MUROS						
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
MUROS ANTEPECHO	0.15	108.40	0.00	1600	0.20	5.20
MUROS LUCARNAS	0.15	116.25	0.00	1600	0.60	16.74
						21.94

Cargas Adicionales						
	Esp.(m)	Long. (m)	Area (m2)	Carga (kgf/m ³)	h (m)	Peso (t)
Viga 40 x 60 (sobre alto)	0.40	12.50	0.00	2400	0.50	6.00
Viga 20 x 60 (sobre alto)	0.20	7.45	0.00	2400	0.50	1.79
Placa maciza	0.25	1.85	28.68	2400		17.21
Placa maciza	0.25	1.05	32.81	2400		19.69
						44.68

MUROS ANTEPECHO	0.072	t/m ²
MUROS CONTENCION	0.000	t/m2
DENSIDAD DE VIGAS	0.350	t/m ²
DENSIDAD DE COLUMNAS	0.074	t/m ²
DENSIDAD DE VIGUETAS	0.274	t/m ²

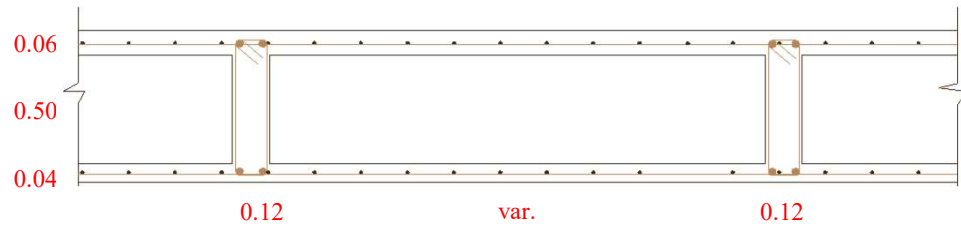


PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-490

AVALUO DE CARGAS

CUBIERTA BLOQUE 1

N +4.55




				t/m^2
Placa Sup. e Inf.	0.10	x	2.40	0.24
Casetones				0.05
Acabados	0.05	x	2.20	0.11
				<hr/> 0.400

MUROS	0.072	t/m^2
CARGA MUERTA	0.62	t/m^2
CARGA VIVA	0.18	t/m^2
CARGA VIVA CUB VERDE	0.50	t/m^2

DENSIDADES

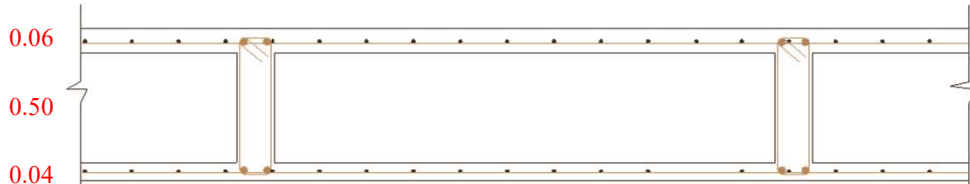
VIGAS	0.350	t/m^2
COLUMNAS	0.074	t/m^2
VIGUETAS	0.274	t/m^2
CARGA REAL	1.50	t/m^2
CARGA ULTIMA PARA VIGUETAS	0.77	t/m^2
CARGA PARA ANALISIS SISMICO	1.32	t/m^2

	PROYECTO:		CENTRO CRECER		FECHA:	1/08/2018
	INGENIERO:		IVAN MAURICIO GUEVARA		N.P.:	P-18-490

AVALUO DE CARGAS

CUBIERTA BLOQUE 3

N +8.55



Placa Sup. e Inf. _____	0.10	x	2.40	t/m ²	0.24
Casetones _____					0.05
Acabados _____	0.05	x	2.20		0.11
					<u>0.400</u>

MUROS	0.034	t/m ²
CARGA MUERTA	0.43	t/m ²
CARGA VIVA-PLACAS	0.18	t/m ²


DENSIDADES


VIGAS	0.393	t/m ²
COLUMNAS	0.052	t/m ²
VIGUETAS	0.200	t/m ²

CARGA REAL	1.26	t/m ²
CARGA ULTIMA PARA VIGUETAS	0.77	t/m ²
CARGA PARA ANALISIS SISMICO	1.08	t/m ²

CAPITULO 4

TORSIÓN

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P. :
	IVAN MAURICIO GUEVARA	P-18-490
4. TORSIÓN		
4.1 CENTROS DE MASA Y TORSION ACCIDENTAL		
CENTROS DE MASA		
CENTRO DE MASA:	N +0.10 X = 29.69	Y = 13.14
EXCENRICIDAD ACCIDENTAL		
Dimensiones	Excentricidad	Excentricidad
N +0.10		
X= 68.75m	ex = 3.44m	e= 3.44m
Y= 28.95m	ey = 1.45m	
CENTROS DE MASA EJES 1-3		
CENTRO DE MASA:	N +4.15 X = 6.31	Y = 3.33
EXCENRICIDAD ACCIDENTAL		
Dimensiones	Excentricidad	Excentricidad
N +4.15		
X= 12.50m	ex = 0.63m	e= 0.63m
Y= 8.16m	ey = 0.41m	
CENTROS DE MASA EJES 4-9		
CENTRO DE MASA:	N +4.15 X = 25.00	Y = 3.33
EXCENRICIDAD ACCIDENTAL		
Dimensiones	Excentricidad	Excentricidad
N +4.15		
X= 12.50m	ex = 0.63m	e= 0.63m
Y= 8.15m	ey = 0.41m	

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P. :
	IVAN MAURICIO GUEVARA	P-18-490
CENTROS DE MASA		
N+4.25		
CENTRO DE MASA:	X = 60.82	Y = 13.12
EXCENRICIDAD ACCIDENTAL		
Dimensiones	Excentricidad	Excentricidad
N+4.25		
X= 12.50m	ex = 0.63m	e= 1.50m
Y= 29.95m	ey = 1.50m	
CENTROS DE MASA		
N+4.55		
CENTRO DE MASA:	X = 33.41	Y = 23.25
EXCENRICIDAD ACCIDENTAL		
Dimensiones	Excentricidad	Excentricidad
N+4.55		
X= 31.25m	ex = 1.56m	e= 1.56m
Y= 15.50m	ey = 0.78m	
CENTROS DE MASA		
N +8.55		
CENTRO DE MASA:	X = 59.88	Y = 15.13
EXCENRICIDAD ACCIDENTAL		
Dimensiones	Excentricidad	Excentricidad
N +8.55		
X= 7.00m	ex = 0.35m	e= 1.45m
Y= 28.95m	ey = 1.45m	

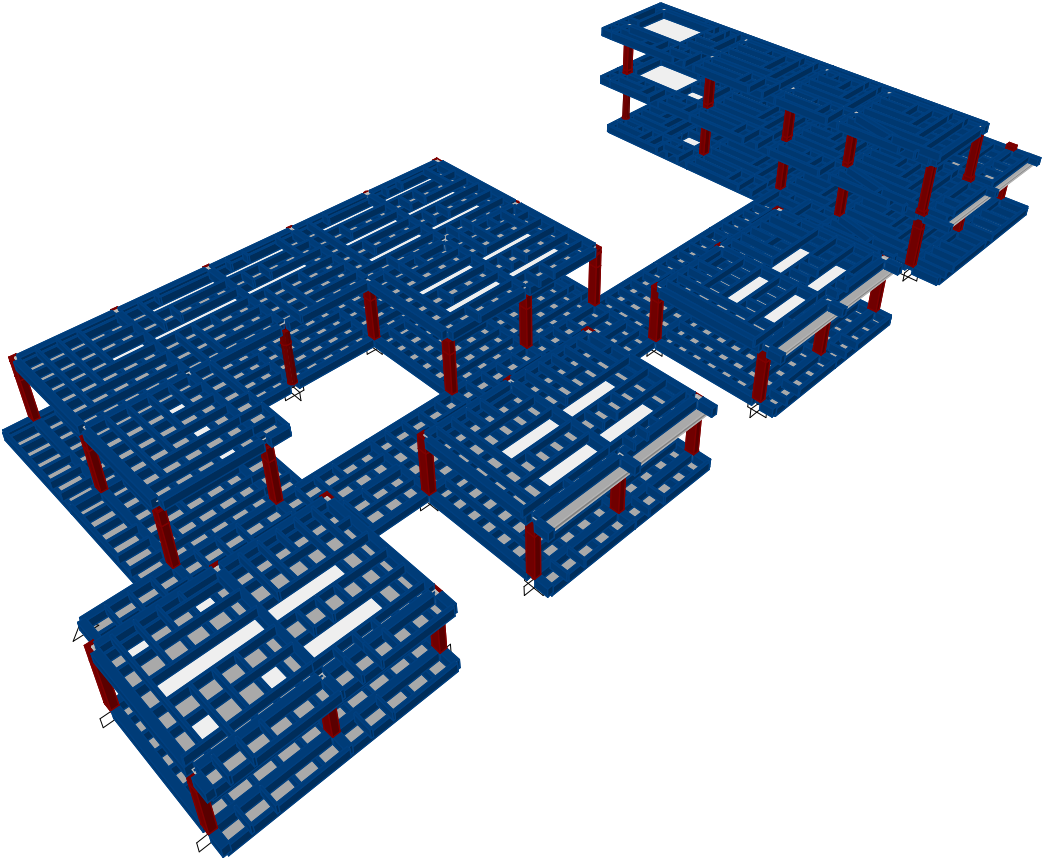
CAPITULO 5 ESTRUCTURACIÓN

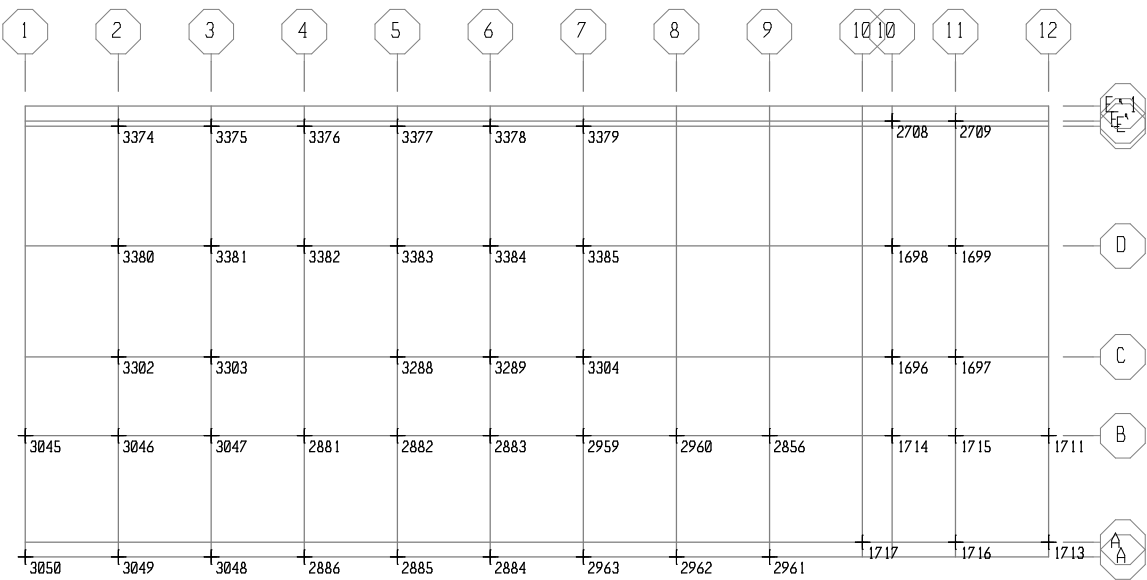
MODELO

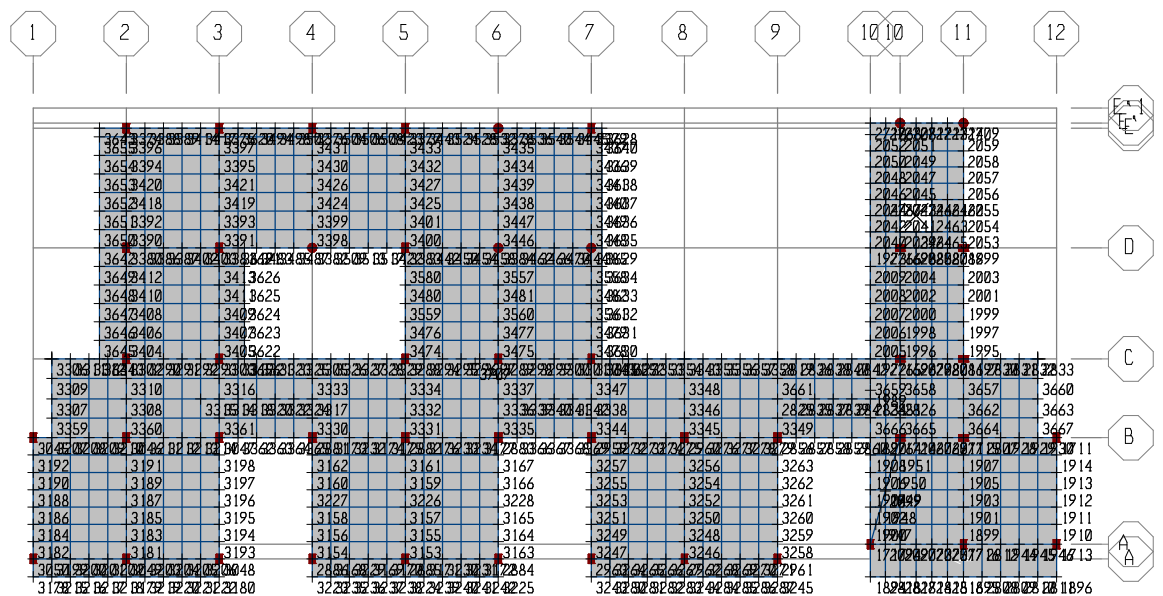
El modelo de la estructura fue hecho con el software ETABS versión 9.7.1. En este programa se hizo una combinación de herramientas utilizando elementos tipo Frame para la simulación de las vigas, columnas, y elementos tipo Shell para las placas y muros.

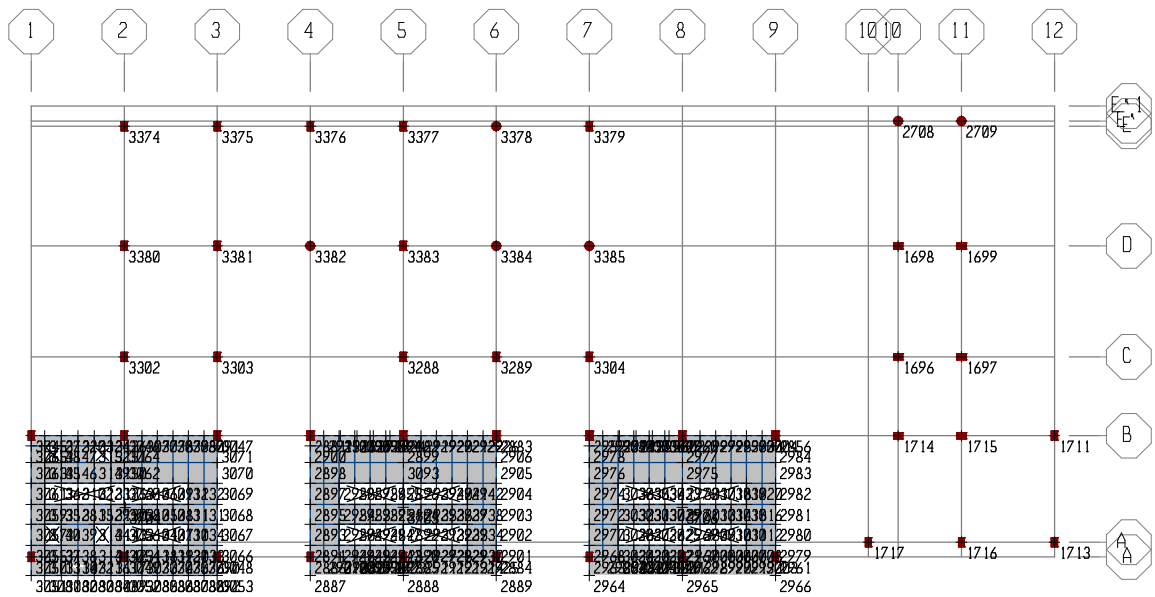
Los apoyos de las columnas y muros son apoyos de empotramiento.

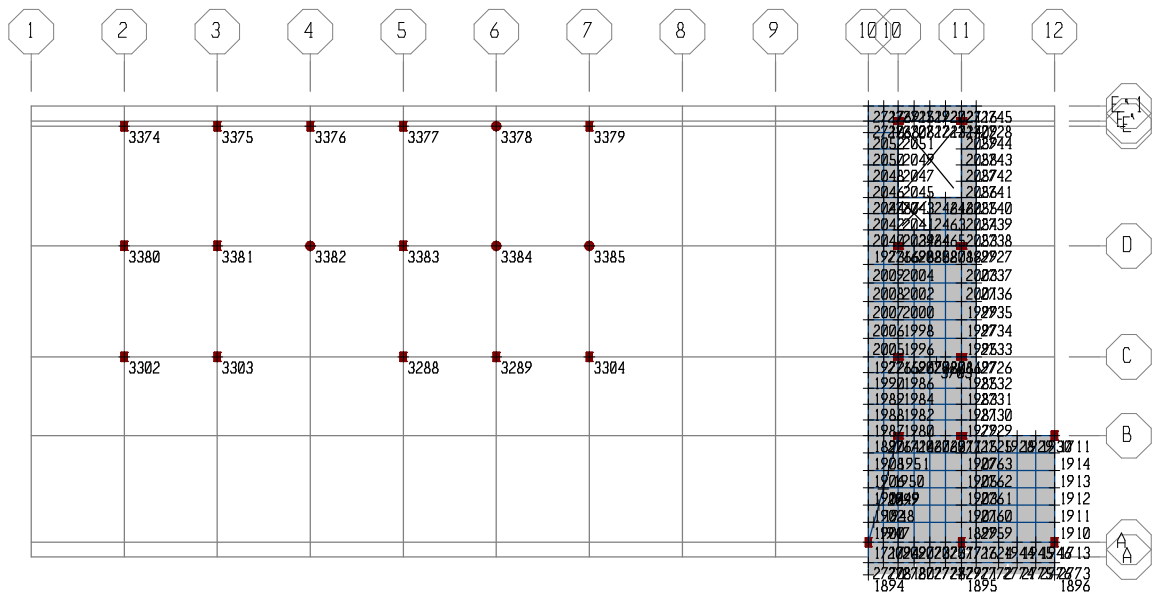
El sistema de cargas de la estructura es estático para cargas muertas y vivas, y dinámico para las fuerzas horizontales.

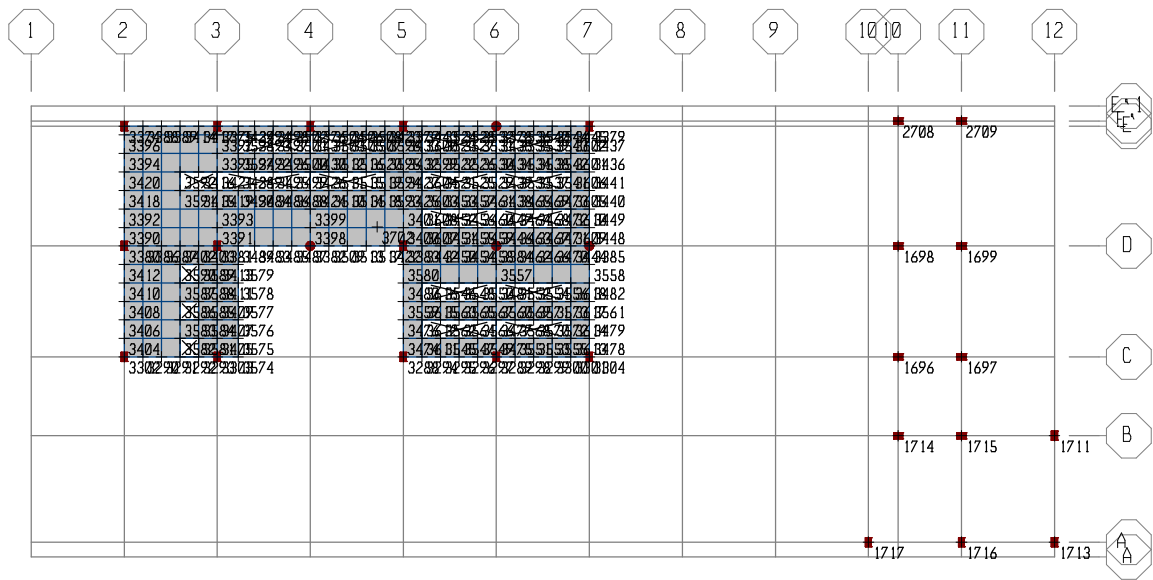




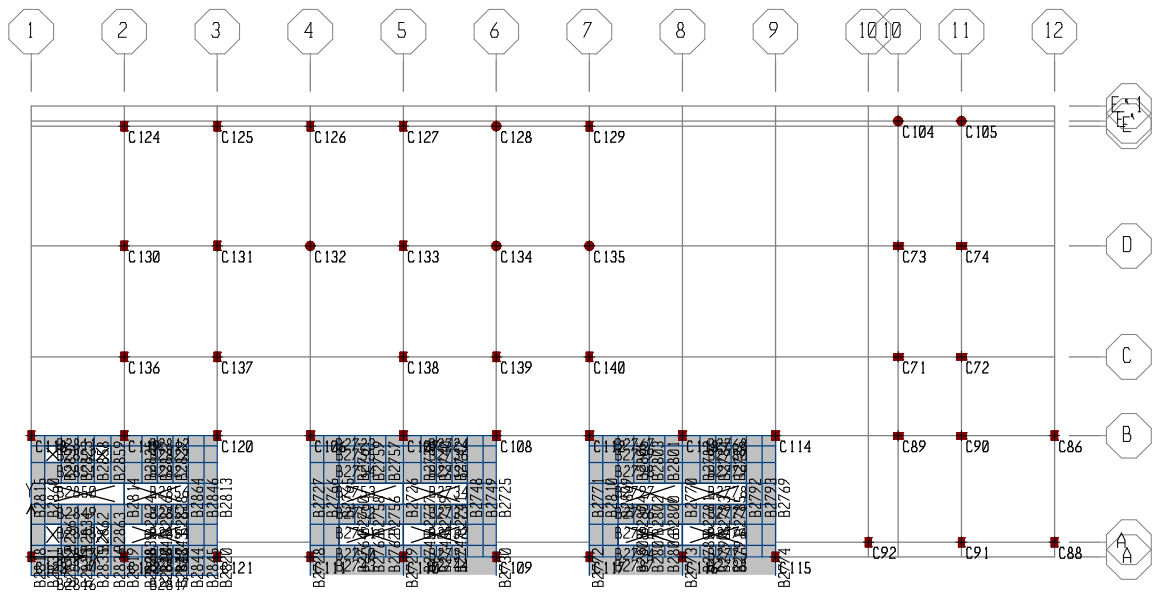








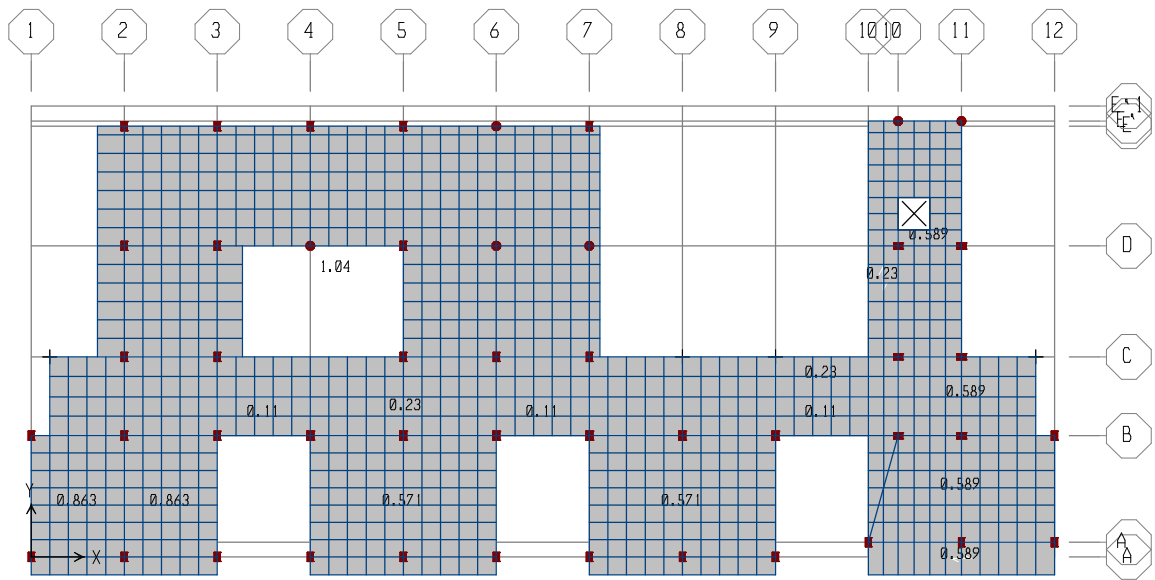


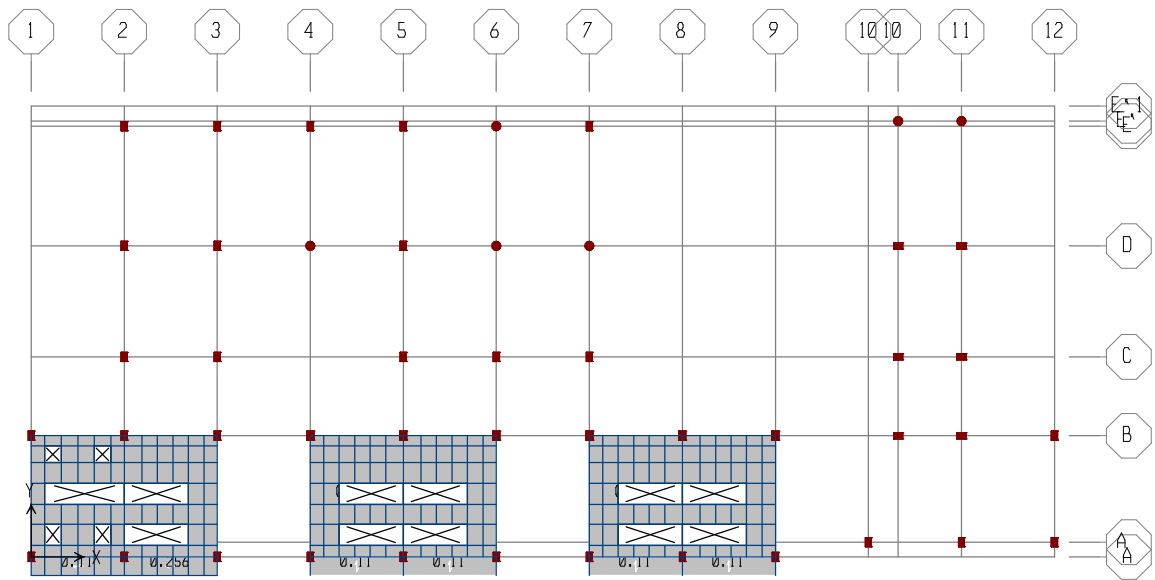


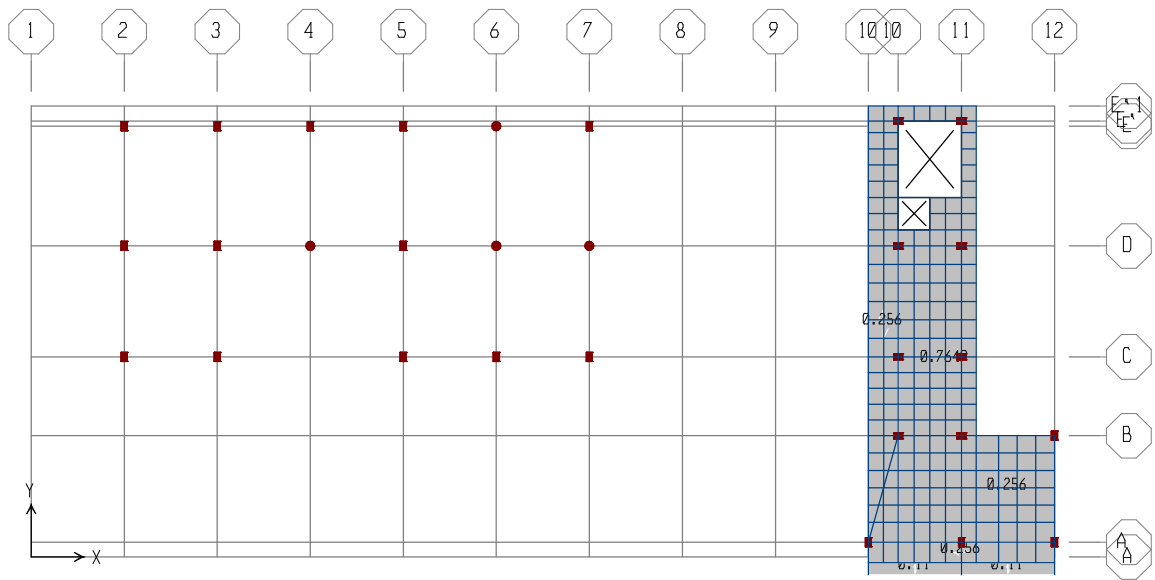


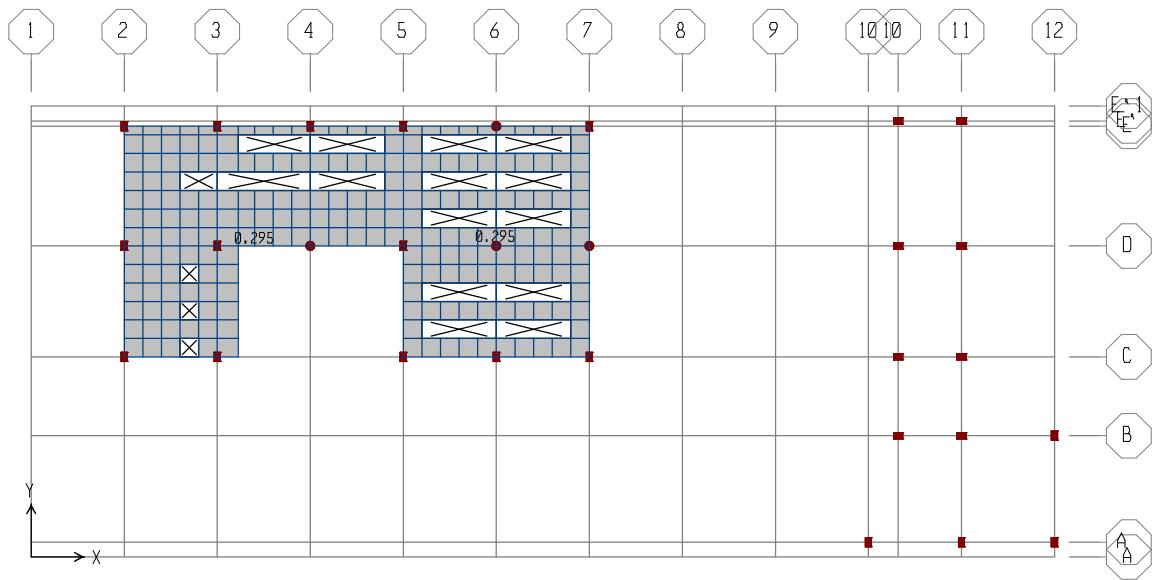


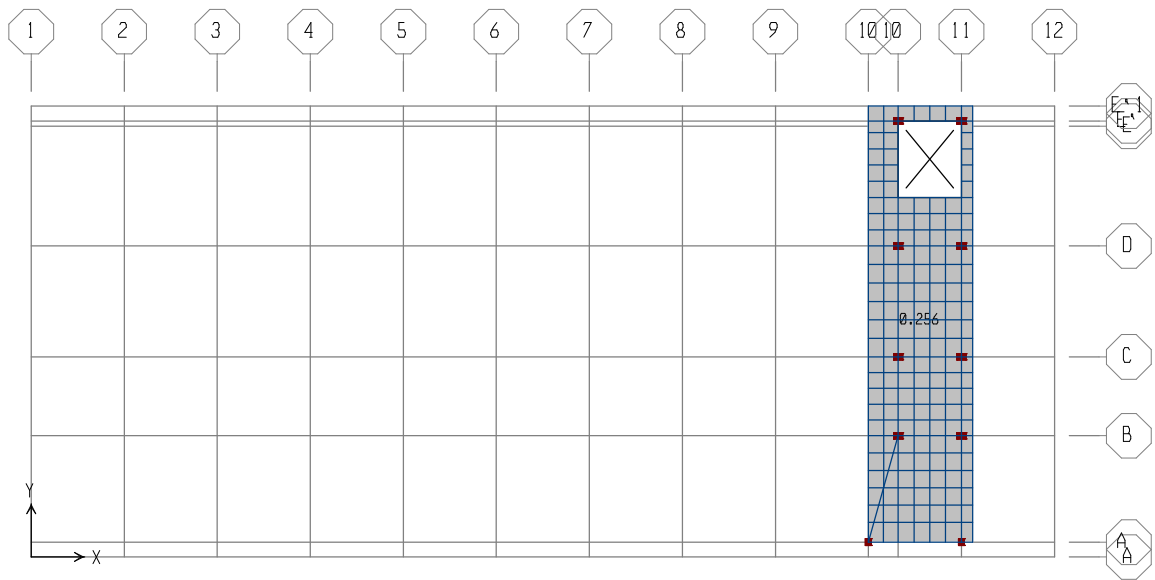


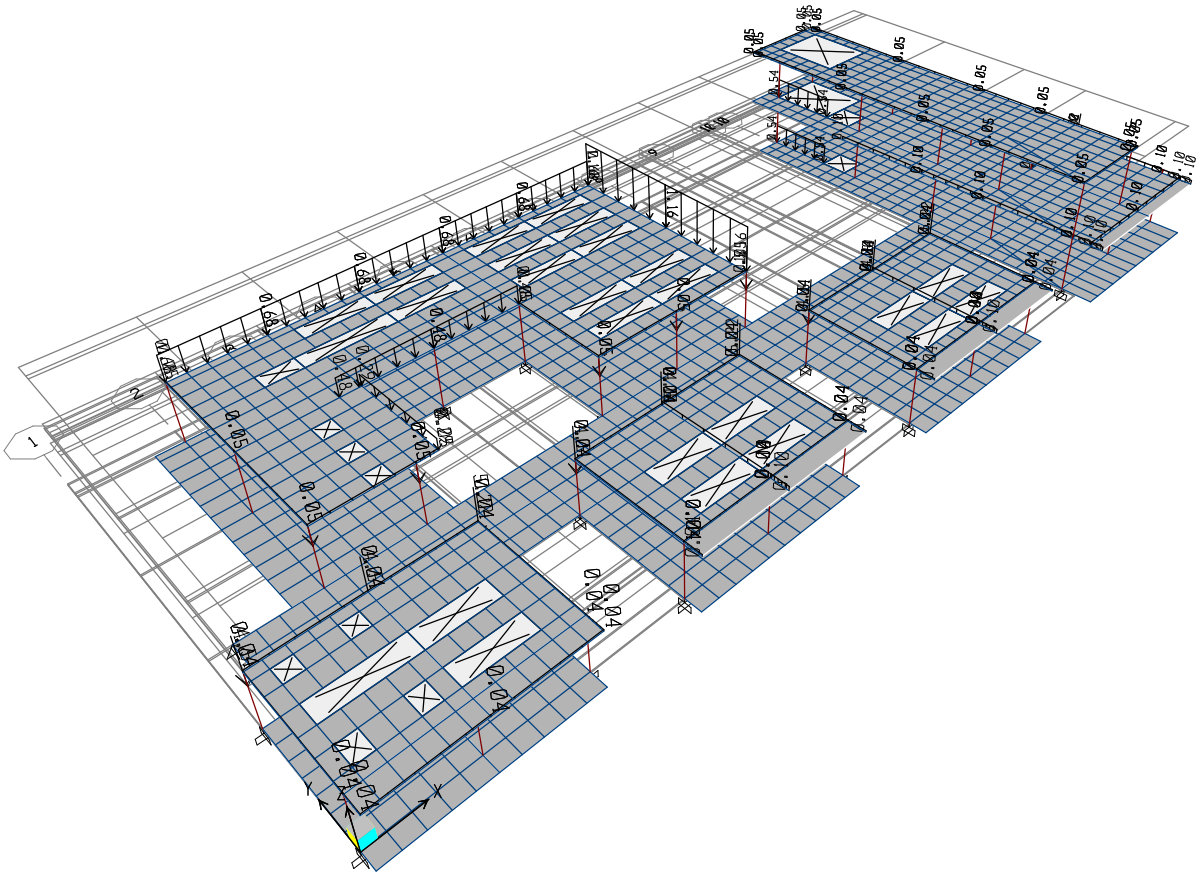


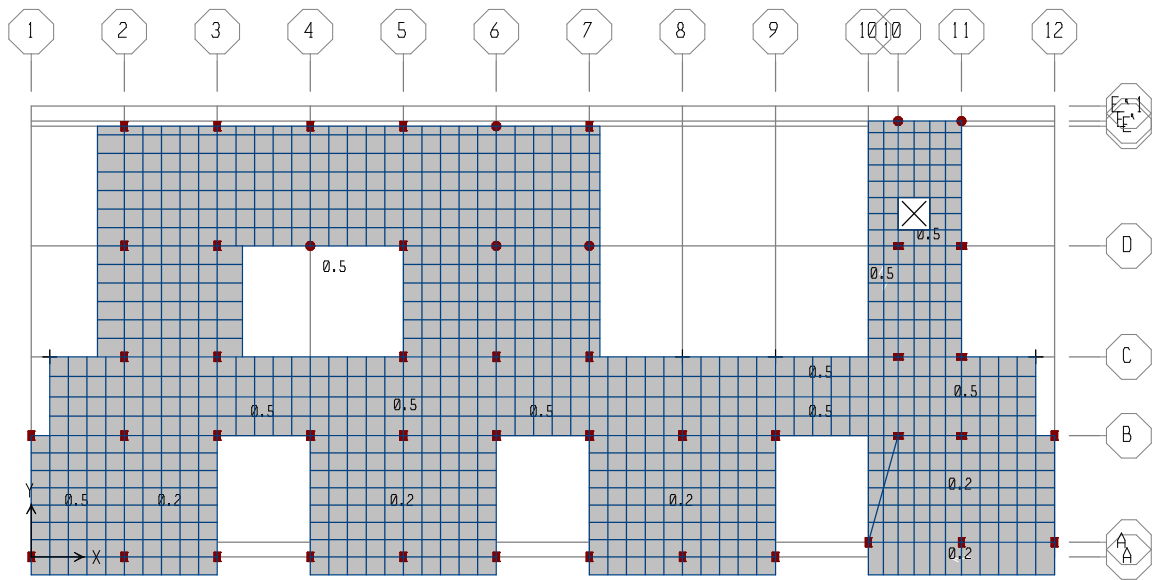


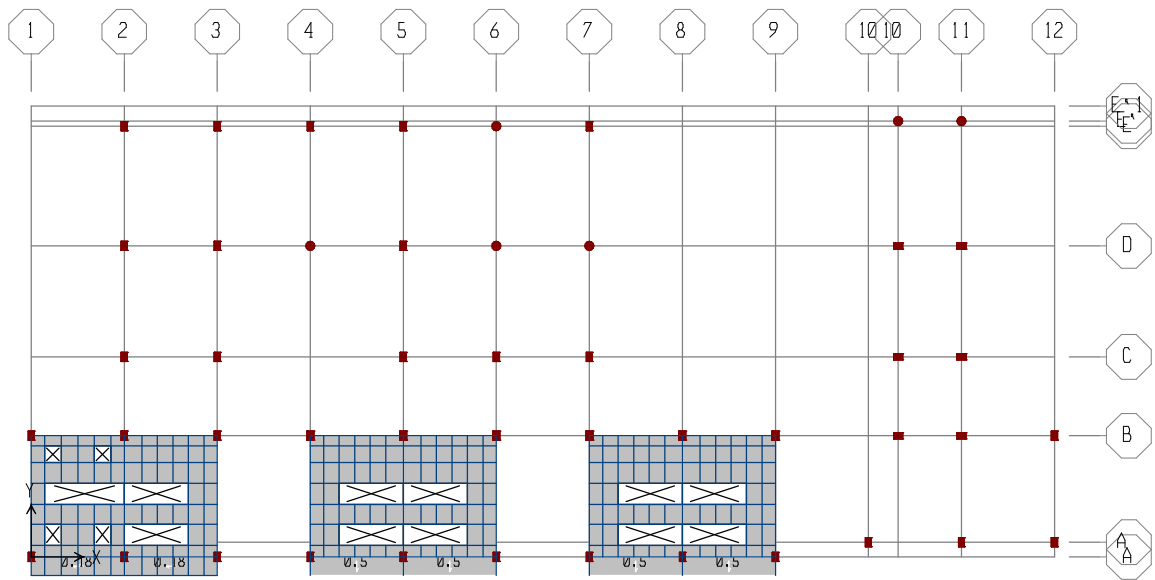


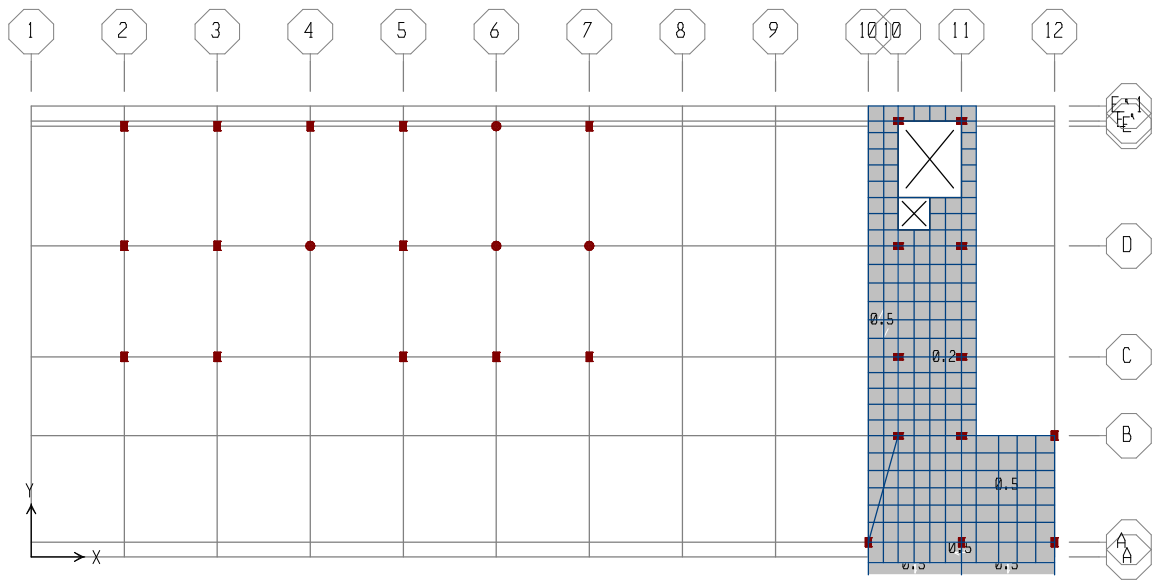


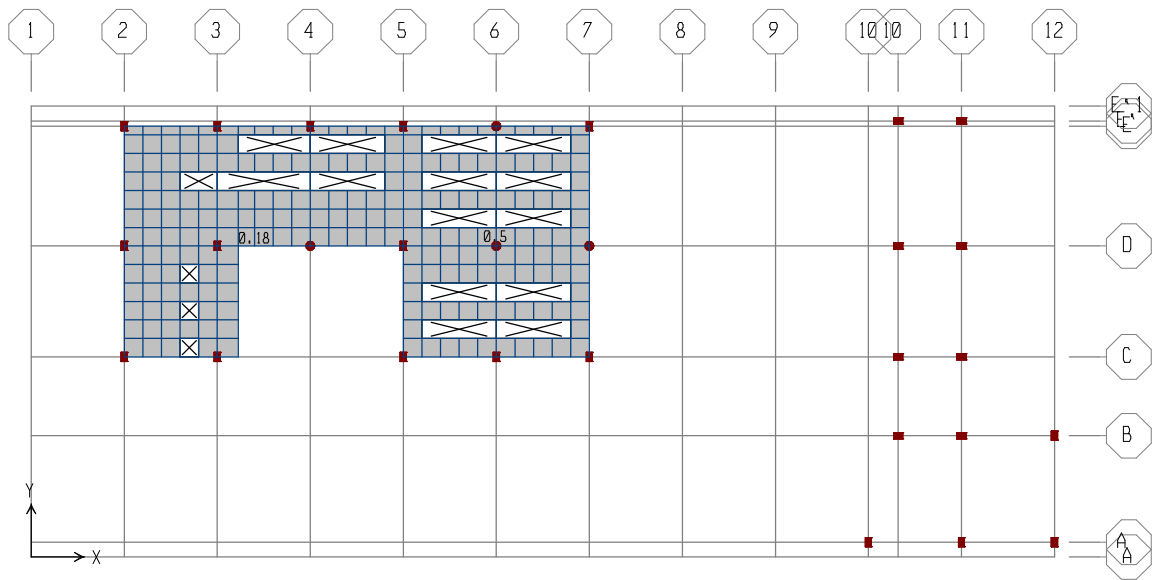


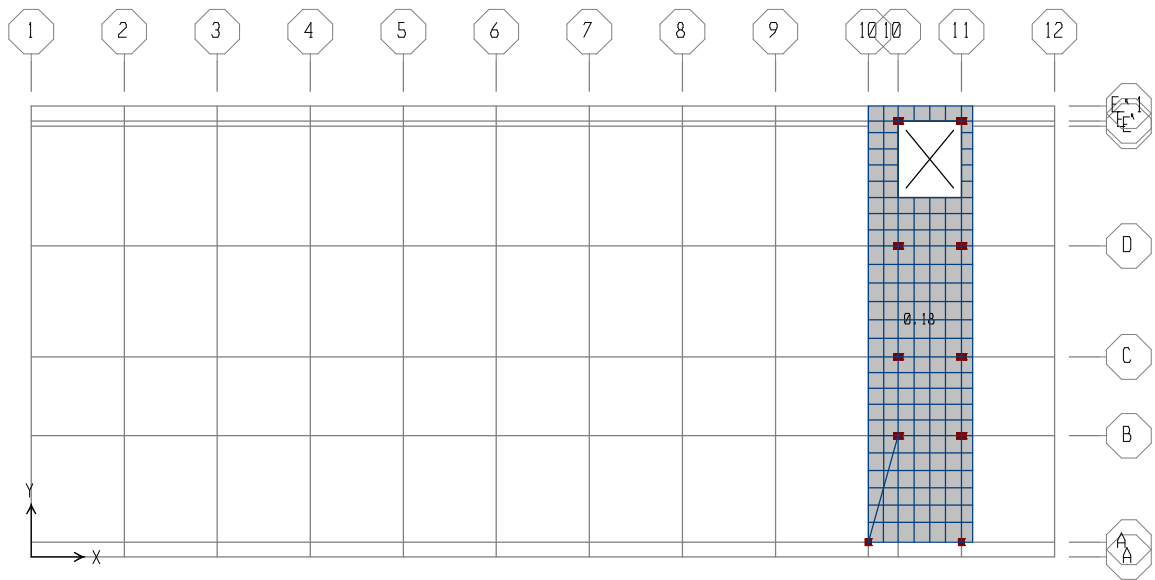












CAPITULO 6
ANÁLISIS DE FUERZAS SÍSMICAS



PROYECTO:

CENTRO CRECER

FECHA:

1/08/2018

INGENIERO:

IVAN MAURICIO GUEVARA

N.P.:

P-18-490

6. ANÁLISIS DE FUERZA SISMICA

6.1 RESUMEN DE DENSIDADES POR PISO

PISO	AREA (m ²)	VIGAS (T/m ²)	PLACA (T/m ²)	VIGUETA (T/m ²)	M. NE (T/m ²)	COLUMNAS (T/m ²)	MURO CONT. (T/m ²)	CUBIERTA (T/m ²)	ESCALERAS (T/m ²)	TOTAL (T/m ²)	TOTAL (T)
N +8.55	200.20	0.393	0.40	0.200	0.03	0.052	0.00	0.00	0.00	1.08	215.95
NE+4.55	305.57	0.350	0.40	0.274	0.07	0.074	0.00	0.00	0.00	1.17	357.60
N +4.35	258.58	0.408	0.40	0.221	0.31	0.081	0.00	0.00	0.01	1.43	393.92
NE+4.15	352.50	0.271	0.40	0.213	0.01	0.061	0.00	0.00	0.00	0.96	337.79
N -0.10	1360.35	0.270	0.42	0.214	0.38	0.017	0.00	0.00	0.00	1.30	1,771.77
A. Total	2477.20	Peso a cimentación								1.24	3077.02

6.2 DISTRIBUCION DE CARGAS SISMICAS

CALIF.ESTRUC.

IRREGULAR


%AJUSTE V=


0.9


PISO	h (m)	h ACUM.	h^k	w (t)	wh^k	Cv (%)	Fx (t)	M (t.m)	Vd _{x-x}	920.97	Vd _{y-y}	958.78
N +8.55	4.00	4.20	4.3	215.95	918.27	0.21	232.80	336.98				
NE+4.55	0.20	0.40	0.4	357.60	141.91	0.03	35.98	56.22				
N +4.35	0.20	4.45	4.5	393.92	1775.63	0.41	450.15	674.11				
NE+4.15	4.25	4.35	4.4	337.79	1488.09	0.34	377.26	235.79				
N +0.10	0.10	0.00	0.0	1,771.77	0.00	0.00	0.00	0.00				
				3077.02	4323.91	1.00	1096.19	1303.08				
T= 0.52 W= 3077 t k= 1.01 V= 1096.2 t Sa= 0.36									AJUSTE	%	g	
									SENTIDO X	1.07	10.51	
									SENTIDO Y	1.03	10.09	


CAPITULO 7


DERIVAS


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 1 MAX								
NE+4.55 BASE	3302 3302							
NE+4.55 BASE	3303 3303							
NE+4.55 BASE	3381 3381							
NE+4.55 BASE	3383 3383							
NE+4.55 BASE	3288 3288							
NE+4.55 BASE	3304 3304							
NE+4.55 BASE	3379 3379							
NE+4.55 BASE	3374 3374							


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 2 MAX								
NE+4.55 BASE	3302 3302							
NE+4.55 BASE	3303 3303							
NE+4.55 BASE	3381 3381							
NE+4.55 BASE	3383 3383							
NE+4.55 BASE	3288 3288							
NE+4.55 BASE	3304 3304							
NE+4.55 BASE	3379 3379							
NE+4.55 BASE	3374 3374							


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δadmissible (cm)	%
COMB 3 MAX								
NE+4.55 BASE	3302 3302							
NE+4.55 BASE	3303 3303							
NE+4.55 BASE	3381 3381							
NE+4.55 BASE	3383 3383							
NE+4.55 BASE	3288 3288							
NE+4.55 BASE	3304 3304							
NE+4.55 BASE	3379 3379							
NE+4.55 BASE	3374 3374							


		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 4 MAX								
NE+4.55 BASE	3302 3302							
NE+4.55 BASE	3303 3303							
NE+4.55 BASE	3381 3381							
NE+4.55 BASE	3383 3383							
NE+4.55 BASE	3288 3288							
NE+4.55 BASE	3304 3304							
NE+4.55 BASE	3379 3379							
NE+4.55 BASE	3374 3374							

		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δadmissible (cm)	%
COMB 5 MAX								
NE+4.55 BASE	3302 3302	-0.0802 0.0000	-0.5677 0.0000	0.08	0.57	0.57	4.45	0.13
NE+4.55 BASE	3303 3303	-0.0802 0.0000	-0.5936 0.0000	0.08	0.59	0.60	4.45	0.13
NE+4.55 BASE	3381 3381	-0.0090 0.0000	-0.5967 0.0000	0.01	0.60	0.60	4.45	0.13
NE+4.55 BASE	3383 3383	-0.0082 0.0000	-0.6390 0.0000	0.01	0.64	0.64	4.45	0.14
NE+4.55 BASE	3288 3288	-0.0791 0.0000	-0.6338 0.0000	0.08	0.63	0.64	4.45	0.14
NE+4.55 BASE	3304 3304	-0.0797 0.0000	-0.6708 0.0000	0.08	0.67	0.68	4.45	0.15
NE+4.55 BASE	3379 3379	-0.0669 0.0000	-0.6789 0.0000	0.07	0.68	0.68	4.45	0.15
NE+4.55 BASE	3374 3374	-0.0689 0.0000	-0.5748 0.0000	0.07	0.57	0.58	4.45	0.13

		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 6 MAX								
NE+4.55 BASE	3302 3302							
NE+4.55 BASE	3303 3303							
NE+4.55 BASE	3381 3381							
NE+4.55 BASE	3383 3383							
NE+4.55 BASE	3288 3288							
NE+4.55 BASE	3304 3304							
NE+4.55 BASE	3379 3379							
NE+4.55 BASE	3374 3374							

		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 7 MAX								
NE+4.55 BASE	3302 3302	-0.9285 0.0000	-0.0240 0.0000	0.93	0.02	0.93	4.45	0.21
NE+4.55 BASE	3303 3303	-0.9293 0.0000	-0.0163 0.0000	0.93	0.02	0.93	4.45	0.21
NE+4.55 BASE	3381 3381	-0.9287 0.0000	-0.0177 0.0000	0.93	0.02	0.93	4.45	0.21
NE+4.55 BASE	3383 3383	-0.9250 0.0000	-0.0147 0.0000	0.93	0.01	0.93	4.45	0.21
NE+4.55 BASE	3288 3288	-0.9075 0.0000	-0.0148 0.0000	0.91	0.01	0.91	4.45	0.20
NE+4.55 BASE	3304 3304	-0.9097 0.0000	-0.0173 0.0000	0.91	0.02	0.91	4.45	0.20
NE+4.55 BASE	3379 3379	-0.9133 0.0000	-0.0202 0.0000	0.91	0.02	0.91	4.45	0.21
NE+4.55 BASE	3374 3374	-0.9167 0.0000	-0.0298 0.0000	0.92	0.03	0.92	4.45	0.21

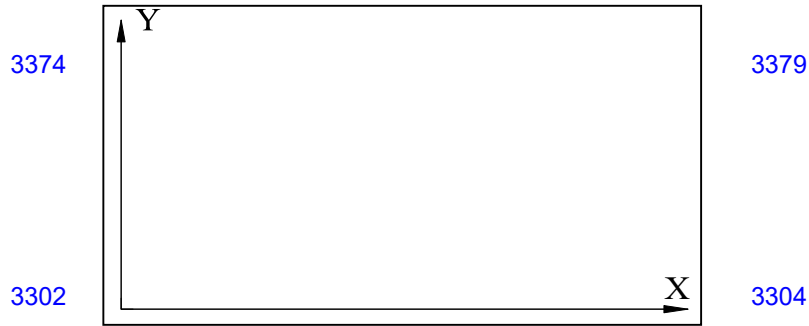
		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δadmisible (cm)	%
COMB 8 MAX								
NE+4.55 BASE	3302 3302							
NE+4.55 BASE	3303 3303							
NE+4.55 BASE	3381 3381							
NE+4.55 BASE	3383 3383							
NE+4.55 BASE	3288 3288							
NE+4.55 BASE	3304 3304							
NE+4.55 BASE	3379 3379							
NE+4.55 BASE	3374 3374							

		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
7. DERIVAS ADMISIBLES BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δadmisible (cm)	%							
COMB 9 MAX															
NE+4.55 BASE	3302 3302								-0.0833 0.0000	-0.5578 0.0000	0.08	0.56	0.56	4.45	0.13
NE+4.55 BASE	3303 3303								-0.0833 0.0000	-0.5857 0.0000	0.08	0.59	0.59	4.45	0.13
NE+4.55 BASE	3381 3381								-0.0089 0.0000	-0.5879 0.0000	0.01	0.59	0.59	4.45	0.13
NE+4.55 BASE	3383 3383								-0.0071 0.0000	-0.6318 0.0000	0.01	0.63	0.63	4.45	0.14
NE+4.55 BASE	3288 3288								-0.0762 0.0000	-0.6279 0.0000	0.08	0.63	0.63	4.45	0.14
NE+4.55 BASE	3304 3304								-0.0764 0.0000	-0.6633 0.0000	0.08	0.66	0.67	4.45	0.15
NE+4.55 BASE	3379 3379								-0.0652 0.0000	-0.6685 0.0000	0.07	0.67	0.67	4.45	0.15
NE+4.55 BASE	3374 3374								-0.0678 0.0000	-0.5633 0.0000	0.07	0.56	0.57	4.45	0.13

	PROYECTO:	CENTRO CRECER	FECHA 1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P : P-18-490

7.1. VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL BLOQUE 1

Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal



REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X

Caso de Carga: **7**

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 3379 3304

Nudo: 3374 3302

Nivel	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax
	(cm)	(cm)	2				(cm)	(cm)	2			
NE+4.55	0.91	0.91	1.09		NO	0.70	0.92	0.93	1.11		NO	0.70

SISMO EN Y

Caso de Carga: **4**


Δ =Deriva del análisis.


Columna Eje Vertical:


Nudo: 3374 3379


Nudo: 3302 3304

Nivel	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax
	(cm)	(cm)	2				(cm)	(cm)	2			
NE+4.55	0.52	0.63	0.69		NO	0.85	0.53	0.64	0.70		NO	0.84


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 1 MAX															
NE+4.15 BASE	3045 3045								0.0011 0.0000	-0.0314 0.0000	0.00	0.03	0.03	4.05	0.01
NE+4.15 BASE	3046 3046								0.0001 0.0000	-0.0332 0.0000	0.00	0.03	0.03	4.05	0.01
NE+4.15 BASE	3047 3047								-0.0007 0.0000	-0.0305 0.0000	0.00	0.03	0.03	4.05	0.01
NE+4.15 BASE	3050 3050								0.0013 0.0000	-0.0274 0.0000	0.00	0.03	0.03	4.05	0.01
NE+4.15 BASE	3049 3049								0.0005 0.0000	-0.0271 0.0000	0.00	0.03	0.03	4.05	0.01
NE+4.15 BASE	3048 3048								-0.0002 0.0000	-0.0268 0.0000	0.00	0.03	0.03	4.05	0.01


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 2 MAX															
NE+4.15 BASE	3045 3045								0.6427 0.0000	-0.0137 0.0000	0.64	0.01	0.64	4.05	0.16
NE+4.15 BASE	3046 3046								0.6424 0.0000	-0.0287 0.0000	0.64	0.03	0.64	4.05	0.16
NE+4.15 BASE	3047 3047								0.6414 0.0000	-0.0156 0.0000	0.64	0.02	0.64	4.05	0.16
NE+4.15 BASE	3050 3050								0.6535 0.0000	-0.0107 0.0000	0.65	0.01	0.65	4.05	0.16
NE+4.15 BASE	3049 3049								0.6532 0.0000	-0.0230 0.0000	0.65	0.02	0.65	4.05	0.16
NE+4.15 BASE	3048 3048								0.6522 0.0000	-0.0129 0.0000	0.65	0.01	0.65	4.05	0.16


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 3 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 4 MAX															
NE+4.15 BASE	3045 3045								0.0590 0.0000	0.3001 0.0000	0.06	0.30	0.31	4.05	0.08
NE+4.15 BASE	3046 3046								0.0577 0.0000	0.3465 0.0000	0.06	0.35	0.35	4.05	0.09
NE+4.15 BASE	3047 3047								0.0562 0.0000	0.4000 0.0000	0.06	0.40	0.40	4.05	0.10
NE+4.15 BASE	3050 3050								0.0527 0.0000	0.3040 0.0000	0.05	0.30	0.31	4.05	0.08
NE+4.15 BASE	3049 3049								0.0519 0.0000	0.3524 0.0000	0.05	0.35	0.36	4.05	0.09
NE+4.15 BASE	3048 3048								0.0510 0.0000	0.4039 0.0000	0.05	0.40	0.41	4.05	0.10

		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%
COMB 5 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							

		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%
COMB 6 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							

		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%
COMB 7 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							

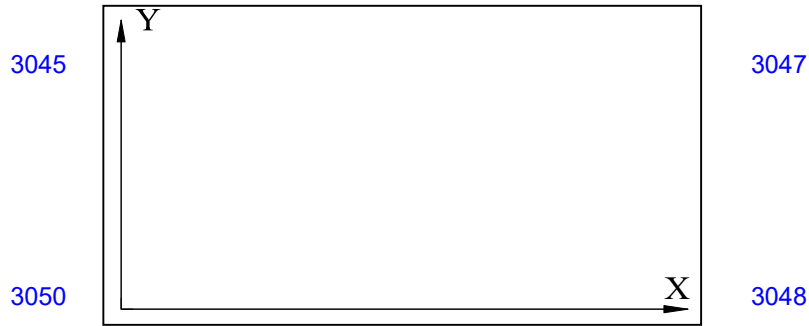
		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 8 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							

		PROYECTO:	CENTRO CRECER					FECHA 0/01/1900
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 9 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							

	PROYECTO:	CENTRO CRECER	FECHA 0/01/1900
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P : P-18-490

7.1. VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL BLOQUE 2 EJES 1-3

Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal



REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X

Caso de Carga: 2

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 3047 3048

Nudo: 3045 3050

Nivel	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax
	(cm)	(cm)	2				(cm)	(cm)	2			
NE+4.15	0.64	0.65	0.78		NO	0.70	0.64	0.65	0.78		NO	0.70

SISMO EN Y

Caso de Carga: 4


Δ =Deriva del análisis.


Columna Eje Vertical:

Nudo: 3045 3047


Nudo: 3050 3048

Nivel	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax
	(cm)	(cm)	2				(cm)	(cm)	2			
NE+4.15	0.31	0.40	0.43		NO	0.88	0.31	0.41	0.43		NO	0.90

		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 1 MAX															
NE+4.15	2881								0.0056	-0.0305	0.01	0.03	0.03	4.05	0.01
BASE	2881								0.0000	0.0000					
NE+4.15	2882								0.0042	-0.0414	0.00	0.04	0.04	4.05	0.01
BASE	2882								0.0000	0.0000					
NE+4.15	2883								0.0029	-0.0449	0.00	0.04	0.04	4.05	0.01
BASE	2883								0.0000	0.0000					
NE+4.15	2886	-0.0041	-0.0258	0.00	0.03	0.03	4.05	0.01							
BASE	2886	0.0000	0.0000												
NE+4.15	2885	-0.0045	-0.0326	0.00	0.03	0.03	4.05	0.01							
BASE	2885	0.0000	0.0000												
NE+4.15	2884	-0.0048	-0.0398	0.00	0.04	0.04	4.05	0.01							
BASE	2884	0.0000	0.0000												

		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 2 MAX								
NE+4.15 BASE	2881 2881	0.5463 0.0000	0.0664 0.0000	0.55	0.07	0.55	4.05	0.14
NE+4.15 BASE	2882 2882	0.5457 0.0000	-0.0335 0.0000	0.55	0.03	0.55	4.05	0.13
NE+4.15 BASE	2883 2883	0.5441 0.0000	0.0546 0.0000	0.54	0.05	0.55	4.05	0.14
NE+4.15 BASE	2886 2886	0.6389 0.0000	0.0693 0.0000	0.64	0.07	0.64	4.05	0.16
NE+4.15 BASE	2885 2885	0.6389 0.0000	-0.0260 0.0000	0.64	0.03	0.64	4.05	0.16
NE+4.15 BASE	2884 2884	0.6383 0.0000	0.0578 0.0000	0.64	0.06	0.64	4.05	0.16


		PROYECTO:	CENTRO CRECER					FECHA 0/01/1900							
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490							
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 3 MAX															
NE+4.15 BASE	2881 2881								-0.5368 0.0000	-0.1178 0.0000	0.54	0.12	0.55	4.05	0.14
NE+4.15 BASE	2882 2882								-0.5385 0.0000	-0.0361 0.0000	0.54	0.04	0.54	4.05	0.13
NE+4.15 BASE	2883 2883								-0.5392 0.0000	-0.1302 0.0000	0.54	0.13	0.55	4.05	0.14
NE+4.15 BASE	2886 2886								-0.6458 0.0000	-0.1127 0.0000	0.65	0.11	0.66	4.05	0.16
NE+4.15 BASE	2885 2885								-0.6464 0.0000	-0.0286 0.0000	0.65	0.03	0.65	4.05	0.16
NE+4.15 BASE	2884 2884								-0.6464 0.0000	-0.1247 0.0000	0.65	0.12	0.66	4.05	0.16


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 4 MAX															
NE+4.15 BASE	2881 2881								0.0104 0.0000	0.3611 0.0000	0.01	0.36	0.36	4.05	0.09
NE+4.15 BASE	2882 2882								0.0083 0.0000	0.3607 0.0000	0.01	0.36	0.36	4.05	0.09
NE+4.15 BASE	2883 2883								0.0064 0.0000	0.3572 0.0000	0.01	0.36	0.36	4.05	0.09
NE+4.15 BASE	2886 2886								-0.0005 0.0000	0.3659 0.0000	0.00	0.37	0.37	4.05	0.09
NE+4.15 BASE	2885 2885								-0.0009 0.0000	0.3686 0.0000	0.00	0.37	0.37	4.05	0.09
NE+4.15 BASE	2884 2884								-0.0012 0.0000	0.3623 0.0000	0.00	0.36	0.36	4.05	0.09

		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%
COMB 5 MAX								
NE+4.15 BASE	2881 2881	-0.0010 0.0000	-0.4125 0.0000	0.00	0.41	0.41	4.05	0.10
NE+4.15 BASE	2882 2882	-0.0012 0.0000	-0.4304 0.0000	0.00	0.43	0.43	4.05	0.11
NE+4.15 BASE	2883 2883	-0.0015 0.0000	-0.4328 0.0000	0.00	0.43	0.43	4.05	0.11
NE+4.15 BASE	2886 2886	-0.0064 0.0000	-0.4092 0.0000	0.01	0.41	0.41	4.05	0.10
NE+4.15 BASE	2885 2885	-0.0066 0.0000	-0.4232 0.0000	0.01	0.42	0.42	4.05	0.10
NE+4.15 BASE	2884 2884	-0.0068 0.0000	-0.4291 0.0000	0.01	0.43	0.43	4.05	0.11

		PROYECTO:	CENTRO CRECER				FECHA	
		INGENIERO:	IVAN MAURICIO GUEVARA				0/01/1900 N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%
COMB 6 MAX								
NE+4.15 BASE	2881 2881	0.5440 0.0000	0.0788 0.0000	0.54	0.08	0.55	4.05	0.14
NE+4.15 BASE	2882 2882	0.5439 0.0000	-0.0167 0.0000	0.54	0.02	0.54	4.05	0.13
NE+4.15 BASE	2883 2883	0.5429 0.0000	0.0729 0.0000	0.54	0.07	0.55	4.05	0.14
NE+4.15 BASE	2886 2886	0.6406 0.0000	0.0799 0.0000	0.64	0.08	0.65	4.05	0.16
NE+4.15 BASE	2885 2885	0.6407 0.0000	-0.0127 0.0000	0.64	0.01	0.64	4.05	0.16
NE+4.15 BASE	2884 2884	0.6402 0.0000	0.0741 0.0000	0.64	0.07	0.64	4.05	0.16

		PROYECTO:	CENTRO CRECER				FECHA	
		INGENIERO:	IVAN MAURICIO GUEVARA				0/01/1900	
						N.P :	P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%
COMB 7 MAX								
NE+4.15 BASE	2881 2881	-0.5391 0.0000	-0.1054 0.0000	0.54	0.11	0.55	4.05	0.14
NE+4.15 BASE	2882 2882	-0.5402 0.0000	-0.0193 0.0000	0.54	0.02	0.54	4.05	0.13
NE+4.15 BASE	2883 2883	-0.5404 0.0000	-0.1119 0.0000	0.54	0.11	0.55	4.05	0.14
NE+4.15 BASE	2886 2886	-0.6441 0.0000	-0.1021 0.0000	0.64	0.10	0.65	4.05	0.16
NE+4.15 BASE	2885 2885	-0.6446 0.0000	-0.0153 0.0000	0.64	0.02	0.64	4.05	0.16
NE+4.15 BASE	2884 2884	-0.6444 0.0000	-0.1084 0.0000	0.64	0.11	0.65	4.05	0.16

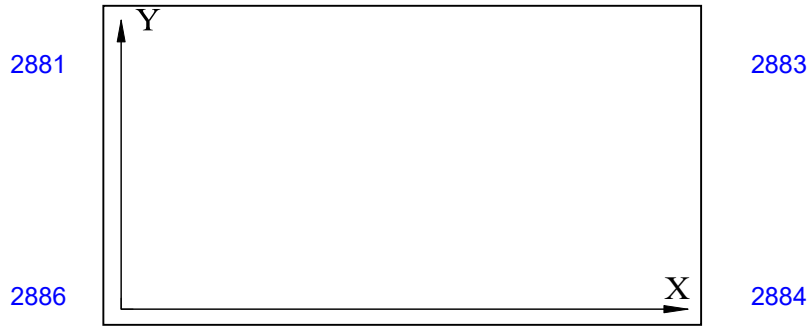
		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 8 MAX															
NE+4.15 BASE	2881 2881								0.0082 0.0000	0.3735 0.0000	0.01	0.37	0.37	4.05	0.09
NE+4.15 BASE	2882 2882								0.0066 0.0000	0.3776 0.0000	0.01	0.38	0.38	4.05	0.09
NE+4.15 BASE	2883 2883								0.0052 0.0000	0.3755 0.0000	0.01	0.38	0.38	4.05	0.09
NE+4.15 BASE	2886 2886								0.0012 0.0000	0.3765 0.0000	0.00	0.38	0.38	4.05	0.09
NE+4.15 BASE	2885 2885								0.0010 0.0000	0.3819 0.0000	0.00	0.38	0.38	4.05	0.09
NE+4.15 BASE	2884 2884								0.0007 0.0000	0.3786 0.0000	0.00	0.38	0.38	4.05	0.09

		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 2 EJES 4-9								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admissible} (cm)	%
COMB 9 MAX								
NE+4.15 BASE	2881 2881							
NE+4.15 BASE	2882 2882							
NE+4.15 BASE	2883 2883							
NE+4.15 BASE	2886 2886							
NE+4.15 BASE	2885 2885							
NE+4.15 BASE	2884 2884							

	PROYECTO:	CENTRO CRECER	FECHA 0/01/1900
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P : P-18-490

7.1. VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL BLOQUE 2 EJE 4-9

Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal



REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X

Caso de Carga: 2

Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 2883 2884

Nudo: 2881 2886

Nivel	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax
	(cm)	(cm)	2				(cm)	(cm)	2			
NE+4.15	0.55	0.64	0.71		NO	0.81	0.55	0.64	0.72		NO	0.80

SISMO EN Y

Caso de Carga: 4


Δ =Deriva del análisis.


Columna Eje Vertical:


Nudo: 2881 2883


Nudo: 2886 2884


Nivel	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax	$\Delta 1$	$\Delta 2$	$(\Delta 1 + \Delta 2)$	x 1.2	¿Irregularidad?	Ax
	(cm)	(cm)	2				(cm)	(cm)	2			
NE+4.15	0.36	0.36	0.43		NO	0.71	0.37	0.36	0.44		NO	0.69


		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018	
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 1 MAX								
NE+8.45	2708	-0.2435	-0.0869	0.17	0.03	0.17	4.20	0.04
NE+4.25	2708	-0.0778	-0.0557	0.08	0.06	0.10	4.45	0.02
BASE	2708	0.0000	0.0000					
NE+8.45	2709	-0.2435	-0.0648	0.17	0.01	0.17	4.20	0.04
NE+4.25	2709	-0.0778	-0.0533	0.08	0.05	0.09	4.45	0.02
BASE	2709	0.0000	0.0000					
NE+8.45	1717	-0.0964	-0.0973	0.04	0.04	0.05	4.20	0.01
NE+4.25	1717	-0.0614	-0.0569	0.06	0.06	0.08	4.45	0.02
BASE	1717	0.0000	0.0000					
NE+8.45	1716	-0.0964	-0.0648	0.04	0.01	0.04	4.20	0.01
NE+4.25	1716	-0.0614	-0.0533	0.06	0.05	0.08	4.45	0.02
BASE	1716	0.0000	0.0000					
NE+8.45	1714	-0.1335	-0.0869	0.07	0.03	0.07	4.20	0.02
NE+4.25	1714	-0.0655	-0.0557	0.07	0.06	0.09	4.45	0.02
BASE	1714	0.0000	0.0000					
NE+8.45	1715	-0.1335	-0.0648	0.07	0.01	0.07	4.20	0.02
NE+4.25	1715	-0.0655	-0.0533	0.07	0.05	0.08	4.45	0.02
BASE	1715	0.0000	0.0000					


		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018		
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490		
7. DERIVAS ADMISIBLES BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 2 MAX		1.5068 0.8542 0.0000	0.4888 0.2372 0.0000	0.65 0.85	0.25 0.24	0.70 0.89	4.20 4.45	0.17 0.20	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708							
NE+8.45		2709	1.5068	0.5767	0.65	0.32	0.73	4.20	0.17
NE+4.25		2709	0.8542	0.2519	0.85	0.25	0.89	4.45	0.20
BASE		2709	0.0000	0.0000					
NE+8.45		1717	2.9436	0.5253	1.48	0.26	1.51	4.20	0.36
NE+4.25		1717	1.4595	0.2639	1.46	0.26	1.48	4.45	0.33
BASE		1717	0.0000	0.0000					
NE+8.45		1716	2.9436	0.5767	1.48	0.32	1.52	4.20	0.36
NE+4.25		1716	1.4595	0.2519	1.46	0.25	1.48	4.45	0.33
BASE		1716	0.0000	0.0000					
NE+8.45		1714	2.3640	0.4888	1.17	0.25	1.20	4.20	0.28
NE+4.25		1714	1.1955	0.2372	1.20	0.24	1.22	4.45	0.27
BASE		1714	0.0000	0.0000					
NE+8.45		1715	2.3640	0.5767	1.17	0.32	1.21	4.20	0.29
NE+4.25		1715	1.1955	0.2519	1.20	0.25	1.22	4.45	0.27
BASE		1715	0.0000	0.0000					


		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018	
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 3 MIN								
NE+8.45	2708	-1.9174	-0.6305	0.94	0.30	0.98	4.20	0.23
NE+4.25	2708	-0.9815	-0.3299	0.98	0.33	1.04	4.45	0.23
BASE	2708	0.0000	0.0000					
NE+8.45	2709	-1.9174	-0.6831	0.94	0.34	1.00	4.20	0.24
NE+4.25	2709	-0.9815	-0.3413	0.98	0.34	1.04	4.45	0.23
BASE	2709	0.0000	0.0000					
NE+8.45	1717	-3.1191	-0.6836	1.55	0.33	1.59	4.20	0.38
NE+4.25	1717	-1.5646	-0.3581	1.56	0.36	1.61	4.45	0.36
BASE	1717	0.0000	0.0000					
NE+8.45	1716	-3.1191	-0.6831	1.55	0.34	1.59	4.20	0.38
NE+4.25	1716	-1.5646	-0.3413	1.56	0.34	1.60	4.45	0.36
BASE	1716	0.0000	0.0000					
NE+8.45	1714	-2.5989	-0.6305	1.29	0.30	1.33	4.20	0.32
NE+4.25	1714	-1.3062	-0.3299	1.31	0.33	1.35	4.45	0.30
BASE	1714	0.0000	0.0000					
NE+8.45	1715	-2.5989	-0.6831	1.29	0.34	1.34	4.20	0.32
NE+4.25	1715	-1.3062	-0.3413	1.31	0.34	1.35	4.45	0.30
BASE	1715	0.0000	0.0000					


		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 4 MAX		0.7741 0.4816 0.0000	2.4405 1.2184 0.0000	0.29 0.48	1.22 1.22	1.26 1.31	4.20 4.45	0.30 0.29	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708							
NE+8.45		2709	0.7741	2.2122	0.29	1.13	1.17	4.20	0.28
NE+4.25		2709	0.4816	1.0792	0.48	1.08	1.18	4.45	0.27
BASE		2709	0.0000	0.0000					
NE+8.45		1717	1.2553	2.5585	0.60	1.27	1.41	4.20	0.33
NE+4.25		1717	0.6542	1.2882	0.65	1.29	1.44	4.45	0.32
BASE		1717	0.0000	0.0000					
NE+8.45		1716	1.2553	2.2122	0.60	1.13	1.28	4.20	0.31
NE+4.25		1716	0.6542	1.0792	0.65	1.08	1.26	4.45	0.28
BASE		1716	0.0000	0.0000					
NE+8.45		1714	0.7229	2.4405	0.34	1.22	1.27	4.20	0.30
NE+4.25		1714	0.3786	1.2184	0.38	1.22	1.28	4.45	0.29
BASE		1714	0.0000	0.0000					
NE+8.45		1715	0.7229	2.2122	0.34	1.13	1.18	4.20	0.28
NE+4.25		1715	0.3786	1.0792	0.38	1.08	1.14	4.45	0.26
BASE		1715	0.0000	0.0000					


		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018		
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490		
7. DERIVAS ADMISIBLES BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 5 MIN		-1.1847 -0.6089 0.0000	-2.5821 -1.3111 0.0000	0.58 0.61	1.27 1.31	1.40 1.45	4.20 4.45	0.33 0.32	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708	0.0000						
NE+8.45		2709	-1.1847	-2.3185	0.58	1.15	1.29	4.20	0.31
NE+4.25		2709	-0.6089	-1.1685	0.61	1.17	1.32	4.45	0.30
BASE		2709	0.0000						
NE+8.45		1717	-1.4307	-2.7168	0.67	1.33	1.49	4.20	0.36
NE+4.25		1717	-0.7593	-1.3825	0.76	1.38	1.58	4.45	0.35
BASE		1717	0.0000						
NE+8.45		1716	-1.4307	-2.3185	0.67	1.15	1.33	4.20	0.32
NE+4.25		1716	-0.7593	-1.1685	0.76	1.17	1.39	4.45	0.31
BASE		1716	0.0000						
NE+8.45		1714	-0.9578	-2.5821	0.47	1.27	1.35	4.20	0.32
NE+4.25		1714	-0.4893	-1.3111	0.49	1.31	1.40	4.45	0.31
BASE		1714	0.0000						
NE+8.45		1715	-0.9578	-2.3185	0.47	1.15	1.24	4.20	0.30
NE+4.25		1715	-0.4893	-1.1685	0.49	1.17	1.27	4.45	0.28
BASE		1715	0.0000						

		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018	
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 6 MAX		1.6058 0.8879 0.0000	0.5266 0.2605 0.0000	0.72 0.89	0.27 0.26	0.77 0.93	4.20 4.45	0.18 0.21
NE+8.45	2708							
NE+4.25	2708							
BASE	2708							
NE+8.45	2709	1.6058	0.6046	0.72	0.33	0.79	4.20	0.19
NE+4.25	2709	0.8879	0.2738	0.89	0.27	0.93	4.45	0.21
BASE	2709	0.0000	0.0000					
NE+8.45	1717	2.9764	0.5678	1.49	0.28	1.52	4.20	0.36
NE+4.25	1717	1.4837	0.2878	1.48	0.29	1.51	4.45	0.34
BASE	1717	0.0000	0.0000					
NE+8.45	1716	2.9764	0.6046	1.49	0.33	1.53	4.20	0.36
NE+4.25	1716	1.4837	0.2738	1.48	0.27	1.51	4.45	0.34
BASE	1716	0.0000	0.0000					
NE+8.45	1714	2.4135	0.5266	1.19	0.27	1.22	4.20	0.29
NE+4.25	1714	1.2221	0.2605	1.22	0.26	1.25	4.45	0.28
BASE	1714	0.0000	0.0000					
NE+8.45	1715	2.4135	0.6046	1.19	0.33	1.24	4.20	0.29
NE+4.25	1715	1.2221	0.2738	1.22	0.27	1.25	4.45	0.28
BASE	1715	0.0000	0.0000					

		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018		
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490		
7. DERIVAS ADMISIBLES BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 7 MIN		-1.8184 -0.9479 0.0000	-0.5927 -0.3066 0.0000	0.87 0.95	0.29 0.31	0.92 1.00	4.20 4.45	0.22 0.22	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708	0.0000						
NE+8.45		2709	-1.8184	-0.6552	0.87	0.34	0.93	4.20	0.22
NE+4.25		2709	-0.9479	-0.3194	0.95	0.32	1.00	4.45	0.22
BASE		2709	0.0000						
NE+8.45		1717	-3.0864	-0.6411	1.55	0.31	1.58	4.20	0.38
NE+4.25		1717	-1.5404	-0.3342	1.54	0.33	1.58	4.45	0.35
BASE		1717	0.0000						
NE+8.45		1716	-3.0864	-0.6552	1.55	0.34	1.58	4.20	0.38
NE+4.25		1716	-1.5404	-0.3194	1.54	0.32	1.57	4.45	0.35
BASE		1716	0.0000						
NE+8.45		1714	-2.5494	-0.5927	1.27	0.29	1.30	4.20	0.31
NE+4.25		1714	-1.2796	-0.3066	1.28	0.31	1.32	4.45	0.30
BASE		1714	0.0000						
NE+8.45		1715	-2.5494	-0.6552	1.27	0.34	1.31	4.20	0.31
NE+4.25		1715	-1.2796	-0.3194	1.28	0.32	1.32	4.45	0.30
BASE		1715	0.0000						

		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018	
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 8 MAX								
NE+8.45	2708	0.8732	2.4783	0.36	1.24	1.29	4.20	0.31
NE+4.25	2708	0.5152	1.2417	0.52	1.24	1.34	4.45	0.30
BASE	2708	0.0000	0.0000					
NE+8.45	2709	0.8732	2.2400	0.36	1.14	1.19	4.20	0.28
NE+4.25	2709	0.5152	1.1010	0.52	1.10	1.22	4.45	0.27
BASE	2709	0.0000	0.0000					
NE+8.45	1717	1.2880	2.6010	0.61	1.29	1.43	4.20	0.34
NE+4.25	1717	0.6785	1.3122	0.68	1.31	1.48	4.45	0.33
BASE	1717	0.0000	0.0000					
NE+8.45	1716	1.2880	2.2400	0.61	1.14	1.29	4.20	0.31
NE+4.25	1716	0.6785	1.1010	0.68	1.10	1.29	4.45	0.29
BASE	1716	0.0000	0.0000					
NE+8.45	1714	0.7724	2.4783	0.37	1.24	1.29	4.20	0.31
NE+4.25	1714	0.4052	1.2417	0.41	1.24	1.31	4.45	0.29
BASE	1714	0.0000	0.0000					
NE+8.45	1715	0.7724	2.2400	0.37	1.14	1.20	4.20	0.28
NE+4.25	1715	0.4052	1.1010	0.41	1.10	1.17	4.45	0.26
BASE	1715	0.0000	0.0000					

		PROYECTO:		CENTRO CRECER			FECHA 1/08/2018	
		INGENIERO:		IVAN MAURICIO GUEVARA			N.P : P-18-490	
7. DERIVAS ADMISIBLES BLOQUE 3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 9 MIN								
NE+8.45	2708	-1.0857	-2.5443	0.51	1.26	1.36	4.20	0.32
NE+4.25	2708	-0.5752	-1.2878	0.58	1.29	1.41	4.45	0.32
BASE	2708	0.0000	0.0000					
NE+8.45	2709	-1.0857	-2.2907	0.51	1.14	1.25	4.20	0.30
NE+4.25	2709	-0.5752	-1.1466	0.58	1.15	1.28	4.45	0.29
BASE	2709	0.0000	0.0000					
NE+8.45	1717	-1.3980	-2.6743	0.66	1.32	1.47	4.20	0.35
NE+4.25	1717	-0.7351	-1.3585	0.74	1.36	1.54	4.45	0.35
BASE	1717	0.0000	0.0000					
NE+8.45	1716	-1.3980	-2.2907	0.66	1.14	1.32	4.20	0.31
NE+4.25	1716	-0.7351	-1.1466	0.74	1.15	1.36	4.45	0.31
BASE	1716	0.0000	0.0000					
NE+8.45	1714	-0.9083	-2.5443	0.45	1.26	1.33	4.20	0.32
NE+4.25	1714	-0.4627	-1.2878	0.46	1.29	1.37	4.45	0.31
BASE	1714	0.0000	0.0000					
NE+8.45	1715	-0.9083	-2.2907	0.45	1.14	1.23	4.20	0.29
NE+4.25	1715	-0.4627	-1.1466	0.46	1.15	1.24	4.45	0.28
BASE	1715	0.0000	0.0000					

	PROYECTO:	CENTRO CRECER	FECHA
	INGENIERO:	IVAN MAURICIO GUEVARA	1/08/2018 N.P : P-18-490

7.1. VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL BLOQUE 3

Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal

2708

Y

X

2709

1717

Y

X

1716

REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X Caso de Carga: 2 Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 2709 1716 Nudo: 2708 1717


Nivel	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.2	¿Irregularidad?	Ax	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.2	¿Irregularidad?	Ax
NE+8.45	0.73	1.52	1.35		SI	1.27	0.70	1.51	1.32		SI	1.30
NE+4.25	0.89	1.48	1.42		SI	1.09	0.89	1.48	1.42		SI	1.09

SISMO EN Y Caso de Carga: 5 Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 2708 2709 Nudo: 1717 1716

Nivel	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.2	¿Irregularidad?	Ax	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.2	¿Irregularidad?	Ax
NE+8.45	1.40	1.29	1.61		NO	0.75	1.49	1.33	1.70		NO	0.77
NE+4.25	1.45	1.32	1.66		NO	0.76	1.58	1.39	1.78		NO	0.79

	PROYECTO:	CENTRO CRECER	FECHA
	INGENIERO:	IVAN MAURICIO GUEVARA	1/08/2018 N.P : P-18-490

7.2. VERIFICACIÓN DE LA IRREGULARIDAD TORSIONAL EXTREMA BLOQUE 3

Esquema Estructural - Identificación de Nudos Para Revisión de la Irregularidad Torsional Estructura Principal

2708

Y

X

2709

1717

Y

X

1716

REVISIÓN DE LA IRREGULARIDAD TORSIONAL

SISMO EN X Caso de Carga: 2 Δ =Deriva del análisis.

Columna Eje Vertical:

Nudo: 2709 1716 Nudo: 2708 1717

Nivel	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.4	¿Irregularidad?	Ax	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.4	¿Irregularidad?	Ax
NE+8.45	0.73	1.52	1.57		NO	0.94	0.70	1.51	1.54		NO	0.96
NE+4.25	0.89	1.48	1.66		NO	0.80	0.89	1.48	1.66		NO	0.80


SISMO EN Y Caso de Carga: 5 Δ =Deriva del análisis.


Columna Eje Vertical:


Nudo: 2708 2709 Nudo: 1717 1716


Nivel	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.4	¿Irregularidad?	Ax	Δ1 (cm)	Δ2 (cm)	(Δ1+Δ2) 2	x 1.4	¿Irregularidad?	Ax
NE+8.45	1.40	1.29	1.88		NO	0.55	1.49	1.33	1.98		NO	0.57
NE+4.25	1.45	1.32	1.93		NO	0.56	1.58	1.39	2.08		NO	0.58

CAPITULO 8
REQUISITOS ESPECIALES EDIFICACIONES GRUPO DE USO III
PARÁMETROS SÍSMICOS UMBRAL DE DAÑO

	PROYECTO:	CENTRO CRECER	FECHA:	2/08/2018																					
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-18-490																					
8.1 - DEFINICION DE MOVIMIENTO SISMICO DE UMBRAL DE DAÑO																									
a.-	Ubicación del proyecto:	Carrera 88 No. 6A-36, Bogota D.C																							
b.-	Zona de amenaza sísmica:	Intermedia																							
c.-	Valor de Ad	Ad = 0.06																							
d.-	Valor de Aod	Aod= 0.07																							
e.-	Zona de Respuesta Sísmica (Microzonificación):	Aluvial 300																							
f.-	Tipo de perfil de suelo:	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Fa</th> <th>Fv</th> </tr> </thead> <tbody> <tr><td>A</td><td></td><td></td></tr> <tr><td>B</td><td></td><td></td></tr> <tr><td>C</td><td></td><td></td></tr> <tr><td>D</td><td></td><td></td></tr> <tr><td>E</td><td></td><td></td></tr> <tr><td>F</td><td>1.1</td><td>2.9</td></tr> </tbody> </table>				Fa	Fv	A			B			C			D			E			F	1.1	2.9
	Fa	Fv																							
A																									
B																									
C																									
D																									
E																									
F	1.1	2.9																							
g.-	Grupo de uso	III																							
h.-	Coeficiente de importancia:	I	1.25																						
i.-	Coeficiente de amortig. crítico	C.C.A: 2%																							
j.-	Espectro de diseño:	Elástico																							
Observaciones:		Revisó: _____ Ejecutó: _____																							
Según numeral A.6.2.1.2, el coeficiente de importancia a utilizar para el cálculo del desplazamiento horizontal I= 1 y para el diseño III= 1.25																									

	PROYECTO:	CENTRO CRECER	FECHA:	2/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-18-490
<p align="center">8.2 CARACTERISTICAS DE LOS MATERIALES Y DE LA ESTRUCTURA</p>				
a.-	Sistema estructural:	PORTICOS RESISTENTES A MOMENTOS		
b.-	Material	CONCRETO		
c.-	Capacidad de disipación de energía	Moderada (DMO)		
d.-	Coefficiente de capacidad básica de modificación de respuesta	Ro = 5.0		
	Coefficiente de Sobre resistencia	$\Omega_0 = 3.0$		
e.-	Número de edificaciones	1		
f.-	Número de pisos	2 PISOS		
Observaciones:			Revisó: _____ Ejecutó: _____	

	PROYECTO:	CENTRO CRECER	FECHA:	2/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490
8.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 1				
a.-	EDIFICACION: 3 PISOS			
b.-	CONFIGURACION EN PLANTA			
	TIPO	DESCRIPCION	ϕ_p	
	1aP	Irregularidad torsional	1.0	
	1bP	Irregularidad torsional extrema	1.0	
	2P	Retrocesos en esquinas	X 0.9	
	3P	Discontinuidades en el diafragma	1.0	
	4P	Desplaz. de elementos verticales	1.0	
	5P	Sistemas no paralelos	1.0	
	$\phi_p =$	0.9		
c.-	CONFIGURACION EN ALTURA			
	TIPO	DESCRIPCION	ϕ_a	
	1aA	Piso flexible (irregularidad en rigidez)	1.0	
	1bA	Piso flexible (irregularidad extrema en rigidez)	1.0	
	2A	Distribución masa	1.0	
	3A	Irregularidad geométrica	1.0	
	4A	Desplaz. dentro del plano de acción	1.0	
	5aA	Piso débil- discontinuidad en la resistencia	1.0	
	5bA	Piso débil- discontinuidad extrema resistencia	1.0	
	ϕ_a	1.0		
d.-	AUSENCIA DE REDUNDANCIA	ϕ_r	1.00	
e.-	COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA			
	$R_o =$	5.0		
f.-	COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA			
	$R =$	$(\phi_a) \times (\phi_p) \times (\phi_r) \times R_o$		
	$R =$	4.50		
g.-	EFECTOS ORTOGONALES EN CARGAS SISMICAS			
	Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y			
h.-	MEZCLA DE SISTEMAS ESTRUCTURALES			
	No existe, ni en planta ni en altura.			
Observaciones:			Revisó: _____ Ejecutó: _____	

	PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490

8.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 2 EJES 1-3

a.- EDIFICACION: 3 PISOS

b.- CONFIGURACION EN PLANTA

TIPO	DESCRIPCION	ϕ_p
1aP	Irregularidad torsional	1.0
1bP	Irregularidad torsional extrema	1.0
2P	Retrocesos en esquinas	1.0
3P	Discontinuidades en el diafragma	1.0
4P	Desplaz. de elementos verticales	1.0
5P	Sistemas no paralelos	1.0
$\phi_p =$	1.0	

c.- CONFIGURACION EN ALTURA

TIPO	DESCRIPCION	ϕ_a
1aA	Piso flexible (irregularidad en rigidez)	1.0
1bA	Piso flexible (irregularidad extrema en rigidez)	1.0
2A	Distribución masa	1.0
3A	Irregularidad geométrica	1.0
4A	Desplaz. dentro del plano de acción	1.0
5aA	Piso débil- discontinuidad en la resistencia	1.0
5bA	Piso débil- discontinuidad extrema resistencia	1.0
ϕ_a	1.0	

d.- AUSENCIA DE REDUNDANCIA ϕ_r **X 0.75**

e.- COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA
 $R_o = 5.0$

f.- COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA

$R = (\phi_a) \times (\phi_p) \times (\phi_r) \times R_o$
 $R = 3.75$


g.- EFECTOS ORTOGONALES EN CARGAS SISMICAS


Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y

h.- MEZCLA DE SISTEMAS ESTRUCTURALES

No existe, ni en planta ni en altura.

Observaciones:	Revisó: _____ Ejecutó: _____
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	PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490
8.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 2 EJES 4-9				
a.-	EDIFICACION: 3 PISOS			
b.-	CONFIGURACION EN PLANTA			
	TIPO	DESCRIPCION	ϕ_p	
	1aP	Irregularidad torsional	1.0	
	1bP	Irregularidad torsional extrema	1.0	
	2P	Retrocesos en esquinas	1.0	
	3P	Discontinuidades en el diafragma	1.0	
	4P	Desplaz. de elementos verticales	1.0	
	5P	Sistemas no paralelos	1.0	
	$\phi_p =$	1.0		
c.-	CONFIGURACION EN ALTURA			
	TIPO	DESCRIPCION	ϕ_a	
	1aA	Piso flexible (irregularidad en rigidez)	1.0	
	1bA	Piso flexible (irregularidad extrema en rigidez)	1.0	
	2A	Distribución masa	1.0	
	3A	Irregularidad geométrica	1.0	
	4A	Desplaz. dentro del plano de acción	1.0	
	5aA	Piso débil- discontinuidad en la resistencia	1.0	
	5bA	Piso débil- discontinuidad extrema resistencia	1.0	
	ϕ_a	1.0		
d.-	AUSENCIA DE REDUNDANCIA	ϕ_r	X 0.75	
e.-	COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA			
	$R_o =$	5.0		
f.-	COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA			
	$R =$	$(\phi_a) \times (\phi_p) \times (\phi_r) \times R_o$		
	$R =$	3.75		
g.-	EFECTOS ORTOGONALES EN CARGAS SISMICAS			
	Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y			
h.-	MEZCLA DE SISTEMAS ESTRUCTURALES			
	No existe, ni en planta ni en altura.			
Observaciones:			Revisó: _____ Ejecutó: _____	

	PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490

8.3 IRREGULARIDAD DE LA EDIFICACION BLOQUE 3

a.- EDIFICACION: 3 PISOS

b.- CONFIGURACION EN PLANTA

TIPO	DESCRIPCION	ϕ_p
1aP	Irregularidad torsional	X 0.9
1bP	Irregularidad torsional extrema	1.0
2P	Retrocesos en esquinas	X 0.9
3P	Discontinuidades en el diafragma	1.0
4P	Desplaz. de elementos verticales	1.0
5P	Sistemas no paralelos	1.0
$\phi_p =$	0.9	

c.- CONFIGURACION EN ALTURA

TIPO	DESCRIPCION	ϕ_a
1aA	Piso flexible (irregularidad en rigidez)	1.0
1bA	Piso flexible (irregularidad extrema en rigidez)	1.0
2A	Distribución masa	1.0
3A	Irregularidad geométrica	1.0
4A	Desplaz. dentro del plano de acción	1.0
5aA	Piso débil- discontinuidad en la resistencia	1.0
5bA	Piso débil- discontinuidad extrema resistencia	1.0
ϕ_a	1.0	

d.- AUSENCIA DE REDUNDANCIA ϕ_r **X** 0.75

e.- COEFICIENTE BASICO DE CAPACIDAD DE DISIPACION DE ENERGIA
 $R_o = 5.0$

f.- COEFICIENTE DE CAPACIDAD DE MODIFICACION DE RESPUESTA

$R = (\phi_a) \times (\phi_p) \times (\phi_r) \times R_o$
 $R = 3.38$


g.- EFECTOS ORTOGONALES EN CARGAS SISMICAS


Se deben tener en cuenta: (100 % - 30%) x, (30% - 100 %) y

h.- MEZCLA DE SISTEMAS ESTRUCTURALES

No existe, ni en planta ni en altura.

Observaciones:	Revisó: _____ Ejecutó: _____
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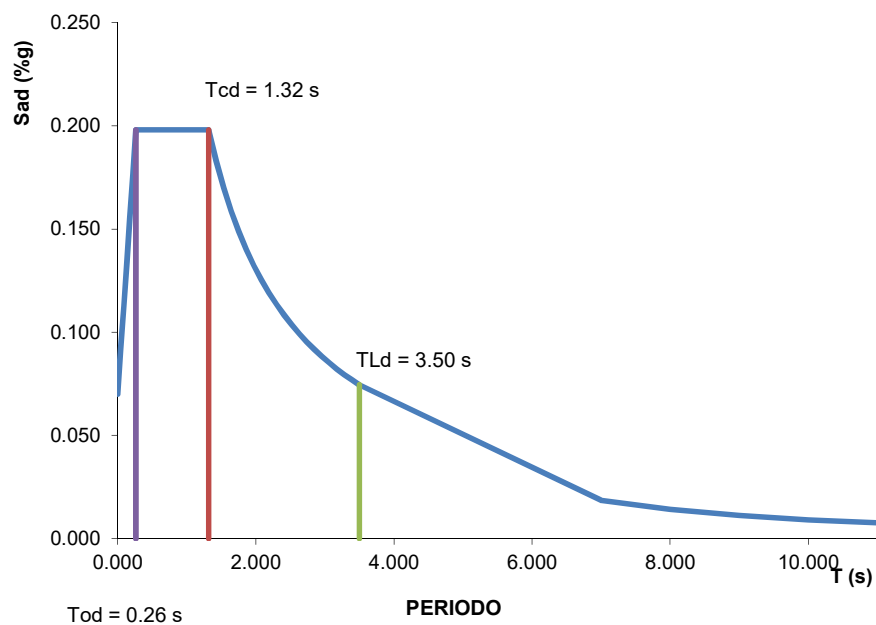
	PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P. :	P-18-490
8.4 - CARACTERISTICAS DEL DISEÑO				
<p>a.- METODO DE ANALISIS SISMICO UTILIZADO</p> <p>A.D.E. ANALISIS DINAMICO ELASTICO</p> <p>b.- METODO DE ANALISIS ESTRUCTURAL</p> <p>Análisis matricial: Estructura principal</p> <p>c.- METODO DE DISEÑO</p> <p>Esfuerzos ultimos</p>				
Observaciones:			Revisó: _____ Ejecutó: _____	

	PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490
8.5 - ESPECTRO SISMICO DE UMBRAL DE DAÑO				
MODELO NSR-10				
a. - PERIODO DE LA ESTRUCTURA				
$T_a = C_t \times h^\alpha$ $C_t = 0.047$ (Pórticos resistentes a momento) $\alpha = 0.90$ $h_n = 8.50$ m. $T = 0.52$				
b. - PARÁMETROS				
$A_d = 0.06$ $F_a = 1.10$ $I = 1.00$ $I_{dis} = 1.25$		$A_{od} = 0.07$ $F_v = 2.90$		
c. - LIMITES DEL PERIODO				
$T_{od} = (0.1 \cdot F_v) / (F_a) = 0.26$ $T_{cd} = (0.5 \cdot F_v) / (F_a) = 1.32$ $T_{Ld} = T_{Ld} = 3.50$				
d. - ESPECTRO PARA PERIODOS MENORES A T_{od}.				
$S_a \text{ do} =$		$S_{ado} = 0.32$		
e. - ESPECTRO PARA PERIODOS ENTRE T_{od} y T_c.				
$S_a \text{ d1} = 3.0 \cdot A_d \cdot F_a =$		$S_{ad1} = 0.20$		
f. - ESPECTRO DE ACELERACIONES EN FUNCION DE T				
$S_a \text{ d2} = \frac{1.5 \cdot A_d \cdot F_v}{T}$		$S_a \text{ 2} = 0.50$		
g. - ESPECTRO PARA PERIODOS MAYORES A T_L.				
$S_a \text{ d3} = \frac{1.5 \cdot A_d \cdot F_v \cdot T_{Ld}}{T^2}$		$S_a \text{ 3} = 0.91 / T^2 = 3.4$		
h. - ESPECTRO SISMICO DE DISEÑO				
$S_a = 0.20$ 20% (g)				
Para el diseño el espectro sísmico según NSR-10, entonces $S_a = 0.2 = 19.8\%$ (g)				
Observaciones:		Revisó: _____ Ejecutó: _____		

8.5 - ESPECTRO SISMICO DE UMBRAL DE DAÑO

CURVAS DE ESPECTROS DE ACUERDO A LA NSR-10

ESPECTRO DE DISEÑO



Observaciones:

Revisó: _____

Ejecutó: _____

CAPITULO 9
ANÁLISIS DE FUERZAS SÍSMICAS
UMBRAL DE DAÑO



PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-18-490

9. ANALISIS DE FUERZA SISMICA UMBRAL DE DAÑO

9.1 RESUMEN DE DENSIDADES POR PISO


PISO	AREA (m ²)	VIGAS (T/m ²)	PLACA (T/m ²)	VIGUETA (T/m ²)	M. NE (T/m ²)	COLUMNAS (T/m ²)	MURO CIMEN. (T/m ²)	CUBIERTA (T/m ²)	ESCALERAS (T/m ²)	TOTAL (T/m ²)	TOTAL (T)
N +8.55	200.20	0.39	0.40	0.20	0.03	0.05	0.00	0.00	0.00	1.08	215.95
NE+4.55	305.57	0.35	0.40	0.27	0.07	0.07	0.00	0.00	0.00	1.17	357.60
N +4.35	258.58	0.41	0.40	0.22	0.31	0.08	0.00	0.00	0.01	1.43	393.92
NE+4.15	352.50	0.27	0.40	0.21	0.01	0.06	0.00	0.00	0.00	0.96	337.79
N +0.10	1360.35	0.27	0.42	0.21	0.38	0.02	0.00	0.00	0.00	1.30	1771.77
A. Total	2477.20	Peso a cimentación								1.24	3077.02


9.2 DISTRIBUCION DE CARGAS SISMICAS


CALIF.ESTRUC. **IRREGULAR**
%AJUSTE V= 0.9


PISO	h (m)	h ACUM.	h^k	w (t)	wh^k	Cv (%)	Fx (t)	M (t.m)		
N +8.55	4.00	4.20	4.3	215.95	918.27	0.23	137.75	86.09	Vd _{x-x}	358.93
NE+4.55	0.20	4.45	4.5	357.60	1611.90	0.40	241.80	0.00		
N +4.35	0.20	0.20	0.2	393.92	77.70	0.02	11.66	0.00	Vd _{y-y}	356.10
NE+4.15	4.25	4.25	4.3	337.79	1453.59	0.36	218.05	0.00		
N +0.10	0.10	0.0	0.0	1,771.77	0.00	0.00	0.00	0.00		
				3077.02	4061.47	1.00	609.25	86.09		
T= 0.52 W= 3077 t k= 1.01									V= 609.3 t Sa= 0.20	
									AJUSTE	%
									SENTIDO X	1.53
									SENTIDO Y	1.54
										g
										14.99
										15.11


CAPITULO 10
DERIVAS UMBRAL DE DAÑO


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 1 MAX															
NE+4.55 BASE	3302 3302								0.0116 0.0000	-0.0281 0.0000	0.01	0.03	0.03	1.78	0.02
NE+4.55 BASE	3303 3303								0.0114 0.0000	-0.0223 0.0000	0.01	0.02	0.03	1.78	0.01
NE+4.55 BASE	3381 3381								0.0024 0.0000	-0.0248 0.0000	0.00	0.02	0.02	1.78	0.01
NE+4.55 BASE	3383 3383								-0.0005 0.0000	-0.0200 0.0000	0.00	0.02	0.02	1.78	0.01
NE+4.55 BASE	3288 3288								-0.0046 0.0000	-0.0166 0.0000	0.00	0.02	0.02	1.78	0.01
NE+4.55 BASE	3304 3304								-0.0057 0.0000	-0.0194 0.0000	0.01	0.02	0.02	1.78	0.01
NE+4.55 BASE	3379 3379								-0.0027 0.0000	-0.0274 0.0000	0.00	0.03	0.03	1.78	0.02
NE+4.55 BASE	3374 3374								-0.0011 0.0000	-0.0331 0.0000	0.00	0.03	0.03	1.78	0.02


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%							
COMB 2 MAX															
NE+4.55 BASE	3302 3302								0.7534 0.0000	-0.0186 0.0000	0.75	0.02	0.75	1.78	0.42
NE+4.55 BASE	3303 3303								0.7537 0.0000	-0.0164 0.0000	0.75	0.02	0.75	1.78	0.42
NE+4.55 BASE	3381 3381								0.7416 0.0000	-0.0187 0.0000	0.74	0.02	0.74	1.78	0.42
NE+4.55 BASE	3383 3383								0.7349 0.0000	-0.0150 0.0000	0.73	0.02	0.74	1.78	0.41
NE+4.55 BASE	3288 3288								0.7161 0.0000	-0.0107 0.0000	0.72	0.01	0.72	1.78	0.40
NE+4.55 BASE	3304 3304								0.7164 0.0000	-0.0106 0.0000	0.72	0.01	0.72	1.78	0.40
NE+4.55 BASE	3379 3379								0.7224 0.0000	-0.0190 0.0000	0.72	0.02	0.72	1.78	0.41
NE+4.55 BASE	3374 3374								0.7274 0.0000	-0.0212 0.0000	0.73	0.02	0.73	1.78	0.41


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 3 MIN															
NE+4.55 BASE	3302 3302								-0.7307 0.0000	-0.0317 0.0000	0.73	0.03	0.73	1.78	0.41
NE+4.55 BASE	3303 3303								-0.7314 0.0000	-0.0235 0.0000	0.73	0.02	0.73	1.78	0.41
NE+4.55 BASE	3381 3381								-0.7355 0.0000	-0.0258 0.0000	0.74	0.03	0.74	1.78	0.41
NE+4.55 BASE	3383 3383								-0.7339 0.0000	-0.0207 0.0000	0.73	0.02	0.73	1.78	0.41
NE+4.55 BASE	3288 3288								-0.7217 0.0000	-0.0190 0.0000	0.72	0.02	0.72	1.78	0.41
NE+4.55 BASE	3304 3304								-0.7240 0.0000	-0.0230 0.0000	0.72	0.02	0.72	1.78	0.41
NE+4.55 BASE	3379 3379								-0.7259 0.0000	-0.0286 0.0000	0.73	0.03	0.73	1.78	0.41
NE+4.55 BASE	3374 3374								-0.7279 0.0000	-0.0384 0.0000	0.73	0.04	0.73	1.78	0.41


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 4 MAX															
NE+4.55 BASE	3302 3302								0.1322 0.0000	0.3604 0.0000	0.13	0.36	0.38	1.78	0.22
NE+4.55 BASE	3303 3303								0.1319 0.0000	0.3976 0.0000	0.13	0.40	0.42	1.78	0.24
NE+4.55 BASE	3381 3381								0.0179 0.0000	0.3959 0.0000	0.02	0.40	0.40	1.78	0.22
NE+4.55 BASE	3383 3383								0.0130 0.0000	0.4829 0.0000	0.01	0.48	0.48	1.78	0.27
NE+4.55 BASE	3288 3288								0.1058 0.0000	0.4840 0.0000	0.11	0.48	0.50	1.78	0.28
NE+4.55 BASE	3304 3304								0.1043 0.0000	0.5793 0.0000	0.10	0.58	0.59	1.78	0.33
NE+4.55 BASE	3379 3379								0.0910 0.0000	0.5731 0.0000	0.09	0.57	0.58	1.78	0.33
NE+4.55 BASE	3374 3374								0.0958 0.0000	0.3575 0.0000	0.10	0.36	0.37	1.78	0.21


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 5 MIN															
NE+4.55 BASE	3302 3302								-0.1094 0.0000	-0.4108 0.0000	0.11	0.41	0.43	1.78	0.24
NE+4.55 BASE	3303 3303								-0.1097 0.0000	-0.4375 0.0000	0.11	0.44	0.45	1.78	0.25
NE+4.55 BASE	3381 3381								-0.0118 0.0000	-0.4404 0.0000	0.01	0.44	0.44	1.78	0.25
NE+4.55 BASE	3383 3383								-0.0120 0.0000	-0.5185 0.0000	0.01	0.52	0.52	1.78	0.29
NE+4.55 BASE	3288 3288								-0.1115 0.0000	-0.5138 0.0000	0.11	0.51	0.53	1.78	0.30
NE+4.55 BASE	3304 3304								-0.1118 0.0000	-0.6129 0.0000	0.11	0.61	0.62	1.78	0.35
NE+4.55 BASE	3379 3379								-0.0945 0.0000	-0.6207 0.0000	0.09	0.62	0.63	1.78	0.35
NE+4.55 BASE	3374 3374								-0.0963 0.0000	-0.4172 0.0000	0.10	0.42	0.43	1.78	0.24


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 6 MAX															
NE+4.55 BASE	3302 3302								0.7502 0.0000	-0.0087 0.0000	0.75	0.01	0.75	1.78	0.42
NE+4.55 BASE	3303 3303								0.7506 0.0000	-0.0085 0.0000	0.75	0.01	0.75	1.78	0.42
NE+4.55 BASE	3381 3381								0.7416 0.0000	-0.0099 0.0000	0.74	0.01	0.74	1.78	0.42
NE+4.55 BASE	3383 3383								0.7359 0.0000	-0.0078 0.0000	0.74	0.01	0.74	1.78	0.41
NE+4.55 BASE	3288 3288								0.7190 0.0000	-0.0049 0.0000	0.72	0.00	0.72	1.78	0.40
NE+4.55 BASE	3304 3304								0.7198 0.0000	-0.0032 0.0000	0.72	0.00	0.72	1.78	0.40
NE+4.55 BASE	3379 3379								0.7240 0.0000	-0.0085 0.0000	0.72	0.01	0.72	1.78	0.41
NE+4.55 BASE	3374 3374								0.7285 0.0000	-0.0097 0.0000	0.73	0.01	0.73	1.78	0.41


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 7 MIN															
NE+4.55 BASE	3302 3302								-0.7338 0.0000	-0.0218 0.0000	0.73	0.02	0.73	1.78	0.41
NE+4.55 BASE	3303 3303								-0.7345 0.0000	-0.0156 0.0000	0.73	0.02	0.73	1.78	0.41
NE+4.55 BASE	3381 3381								-0.7354 0.0000	-0.0170 0.0000	0.74	0.02	0.74	1.78	0.41
NE+4.55 BASE	3383 3383								-0.7328 0.0000	-0.0135 0.0000	0.73	0.01	0.73	1.78	0.41
NE+4.55 BASE	3288 3288								-0.7188 0.0000	-0.0132 0.0000	0.72	0.01	0.72	1.78	0.40
NE+4.55 BASE	3304 3304								-0.7207 0.0000	-0.0155 0.0000	0.72	0.02	0.72	1.78	0.40
NE+4.55 BASE	3379 3379								-0.7243 0.0000	-0.0182 0.0000	0.72	0.02	0.72	1.78	0.41
NE+4.55 BASE	3374 3374								-0.7267 0.0000	-0.0269 0.0000	0.73	0.03	0.73	1.78	0.41


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 8 MAX															
NE+4.55 BASE	3302 3302								0.1290 0.0000	0.3703 0.0000	0.13	0.37	0.39	1.78	0.22
NE+4.55 BASE	3303 3303								0.1288 0.0000	0.4055 0.0000	0.13	0.41	0.43	1.78	0.24
NE+4.55 BASE	3381 3381								0.0179 0.0000	0.4046 0.0000	0.02	0.40	0.40	1.78	0.23
NE+4.55 BASE	3383 3383								0.0141 0.0000	0.4901 0.0000	0.01	0.49	0.49	1.78	0.28
NE+4.55 BASE	3288 3288								0.1087 0.0000	0.4899 0.0000	0.11	0.49	0.50	1.78	0.28
NE+4.55 BASE	3304 3304								0.1076 0.0000	0.5867 0.0000	0.11	0.59	0.60	1.78	0.34
NE+4.55 BASE	3379 3379								0.0927 0.0000	0.5836 0.0000	0.09	0.58	0.59	1.78	0.33
NE+4.55 BASE	3374 3374								0.0970 0.0000	0.3690 0.0000	0.10	0.37	0.38	1.78	0.21


		PROYECTO:	CENTRO CRECER				FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 1								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%
COMB 9 MIN								
NE+4.55 BASE	3302 3302							
NE+4.55 BASE	3303 3303							
NE+4.55 BASE	3381 3381							
NE+4.55 BASE	3383 3383							
NE+4.55 BASE	3288 3288							
NE+4.55 BASE	3304 3304							
NE+4.55 BASE	3379 3379							
NE+4.55 BASE	3374 3374							


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 1 MAX															
NE+4.15 BASE	3045 3045								0.0011 0.0000	-0.0314 0.0000	0.00	0.03	0.03	1.62	0.02
NE+4.15 BASE	3046 3046								0.0001 0.0000	-0.0332 0.0000	0.00	0.03	0.03	1.62	0.02
NE+4.15 BASE	3047 3047								-0.0007 0.0000	-0.0305 0.0000	0.00	0.03	0.03	1.62	0.02
NE+4.15 BASE	3050 3050								0.0013 0.0000	-0.0274 0.0000	0.00	0.03	0.03	1.62	0.02
NE+4.15 BASE	3049 3049								0.0005 0.0000	-0.0271 0.0000	0.00	0.03	0.03	1.62	0.02
NE+4.15 BASE	3048 3048								-0.0002 0.0000	-0.0268 0.0000	0.00	0.03	0.03	1.62	0.02


		PROYECTO:	CENTRO CRECER				FECHA	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 2 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 3 MIN															
NE+4.15 BASE	3045 3045								-0.4996 0.0000	-0.0414 0.0000	0.50	0.04	0.50	1.62	0.31
NE+4.15 BASE	3046 3046								-0.5009 0.0000	-0.0340 0.0000	0.50	0.03	0.50	1.62	0.31
NE+4.15 BASE	3047 3047								-0.5015 0.0000	-0.0397 0.0000	0.50	0.04	0.50	1.62	0.31
NE+4.15 BASE	3050 3050								-0.5091 0.0000	-0.0372 0.0000	0.51	0.04	0.51	1.62	0.32
NE+4.15 BASE	3049 3049								-0.5101 0.0000	-0.0284 0.0000	0.51	0.03	0.51	1.62	0.32
NE+4.15 BASE	3048 3048								-0.5106 0.0000	-0.0354 0.0000	0.51	0.04	0.51	1.62	0.32


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 4 MAX															
NE+4.15 BASE	3045 3045								0.0539 0.0000	0.1808 0.0000	0.05	0.18	0.19	1.62	0.12
NE+4.15 BASE	3046 3046								0.0527 0.0000	0.2308 0.0000	0.05	0.23	0.24	1.62	0.15
NE+4.15 BASE	3047 3047								0.0513 0.0000	0.2898 0.0000	0.05	0.29	0.29	1.62	0.18
NE+4.15 BASE	3050 3050								0.0482 0.0000	0.1846 0.0000	0.05	0.18	0.19	1.62	0.12
NE+4.15 BASE	3049 3049								0.0474 0.0000	0.2366 0.0000	0.05	0.24	0.24	1.62	0.15
NE+4.15 BASE	3048 3048								0.0465 0.0000	0.2935 0.0000	0.05	0.29	0.30	1.62	0.18


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 5 MIN															
NE+4.15 BASE	3045 3045								-0.0528 0.0000	-0.2400 0.0000	0.05	0.24	0.25	1.62	0.15
NE+4.15 BASE	3046 3046								-0.0533 0.0000	-0.2940 0.0000	0.05	0.29	0.30	1.62	0.18
NE+4.15 BASE	3047 3047								-0.0535 0.0000	-0.3487 0.0000	0.05	0.35	0.35	1.62	0.22
NE+4.15 BASE	3050 3050								-0.0474 0.0000	-0.2365 0.0000	0.05	0.24	0.24	1.62	0.15
NE+4.15 BASE	3049 3049								-0.0480 0.0000	-0.2885 0.0000	0.05	0.29	0.29	1.62	0.18
NE+4.15 BASE	3048 3048								-0.0485 0.0000	-0.3455 0.0000	0.05	0.35	0.35	1.62	0.22


		PROYECTO:	CENTRO CRECER				FECHA	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 6 MAX								
NE+4.15 BASE	3045 3045							
NE+4.15 BASE	3046 3046							
NE+4.15 BASE	3047 3047							
NE+4.15 BASE	3050 3050							
NE+4.15 BASE	3049 3049							
NE+4.15 BASE	3048 3048							


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 7 MIN															
NE+4.15 BASE	3045 3045								-0.5004 0.0000	-0.0318 0.0000	0.50	0.03	0.50	1.62	0.31
NE+4.15 BASE	3046 3046								-0.5014 0.0000	-0.0241 0.0000	0.50	0.02	0.50	1.62	0.31
NE+4.15 BASE	3047 3047								-0.5017 0.0000	-0.0310 0.0000	0.50	0.03	0.50	1.62	0.31
NE+4.15 BASE	3050 3050								-0.5103 0.0000	-0.0289 0.0000	0.51	0.03	0.51	1.62	0.32
NE+4.15 BASE	3049 3049								-0.5110 0.0000	-0.0206 0.0000	0.51	0.02	0.51	1.62	0.32
NE+4.15 BASE	3048 3048								-0.5113 0.0000	-0.0279 0.0000	0.51	0.03	0.51	1.62	0.32


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 8 MAX															
NE+4.15 BASE	3045 3045								0.0531 0.0000	0.1904 0.0000	0.05	0.19	0.20	1.62	0.12
NE+4.15 BASE	3046 3046								0.0522 0.0000	0.2407 0.0000	0.05	0.24	0.25	1.62	0.15
NE+4.15 BASE	3047 3047								0.0511 0.0000	0.2985 0.0000	0.05	0.30	0.30	1.62	0.19
NE+4.15 BASE	3050 3050								0.0470 0.0000	0.1928 0.0000	0.05	0.19	0.20	1.62	0.12
NE+4.15 BASE	3049 3049								0.0464 0.0000	0.2444 0.0000	0.05	0.24	0.25	1.62	0.15
NE+4.15 BASE	3048 3048								0.0458 0.0000	0.3010 0.0000	0.05	0.30	0.30	1.62	0.19


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 1-3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 9 MIN								
NE+4.15 BASE	3045 3045	-0.0536 0.0000	-0.2304 0.0000	0.05	0.23	0.24	1.62	0.15
NE+4.15 BASE	3046 3046	-0.0538 0.0000	-0.2841 0.0000	0.05	0.28	0.29	1.62	0.18
NE+4.15 BASE	3047 3047	-0.0536 0.0000	-0.3401 0.0000	0.05	0.34	0.34	1.62	0.21
NE+4.15 BASE	3050 3050	-0.0486 0.0000	-0.2282 0.0000	0.05	0.23	0.23	1.62	0.14
NE+4.15 BASE	3049 3049	-0.0490 0.0000	-0.2807 0.0000	0.05	0.28	0.28	1.62	0.18
NE+4.15 BASE	3048 3048	-0.0492 0.0000	-0.3380 0.0000	0.05	0.34	0.34	1.62	0.21


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 1 MAX															
NE+4.15 BASE	2881 2881								0.0056 0.0000	-0.0305 0.0000	0.01	0.03	0.03	1.62	0.02
NE+4.15 BASE	2882 2882								0.0042 0.0000	-0.0414 0.0000	0.00	0.04	0.04	1.62	0.03
NE+4.15 BASE	2883 2883								0.0029 0.0000	-0.0449 0.0000	0.00	0.04	0.04	1.62	0.03
NE+4.15 BASE	2886 2886								-0.0041 0.0000	-0.0258 0.0000	0.00	0.03	0.03	1.62	0.02
NE+4.15 BASE	2885 2885								-0.0045 0.0000	-0.0326 0.0000	0.00	0.03	0.03	1.62	0.02
NE+4.15 BASE	2884 2884								-0.0048 0.0000	-0.0398 0.0000	0.00	0.04	0.04	1.62	0.02


		PROYECTO:	CENTRO CRECER				FECHA 0/01/1900								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 2 MAX															
NE+4.15 BASE	2881 2881								0.4152 0.0000	0.0441 0.0000	0.42	0.04	0.42	1.62	0.26
NE+4.15 BASE	2882 2882								0.4144 0.0000	-0.0337 0.0000	0.41	0.03	0.42	1.62	0.26
NE+4.15 BASE	2883 2883								0.4129 0.0000	0.0323 0.0000	0.41	0.03	0.41	1.62	0.26
NE+4.15 BASE	2886 2886								0.4881 0.0000	0.0472 0.0000	0.49	0.05	0.49	1.62	0.30
NE+4.15 BASE	2885 2885								0.4880 0.0000	-0.0262 0.0000	0.49	0.03	0.49	1.62	0.30
NE+4.15 BASE	2884 2884								0.4875 0.0000	0.0357 0.0000	0.49	0.04	0.49	1.62	0.30


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 3 MIN															
NE+4.15 BASE	2881 2881								-0.4057 0.0000	-0.0955 0.0000	0.41	0.10	0.42	1.62	0.26
NE+4.15 BASE	2882 2882								-0.4073 0.0000	-0.0359 0.0000	0.41	0.04	0.41	1.62	0.25
NE+4.15 BASE	2883 2883								-0.4081 0.0000	-0.1078 0.0000	0.41	0.11	0.42	1.62	0.26
NE+4.15 BASE	2886 2886								-0.4950 0.0000	-0.0906 0.0000	0.50	0.09	0.50	1.62	0.31
NE+4.15 BASE	2885 2885								-0.4955 0.0000	-0.0284 0.0000	0.50	0.03	0.50	1.62	0.31
NE+4.15 BASE	2884 2884								-0.4956 0.0000	-0.1026 0.0000	0.50	0.10	0.51	1.62	0.31


		PROYECTO:	CENTRO CRECER				FECHA	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 4 MAX								
NE+4.15 BASE	2881 2881							
NE+4.15 BASE	2882 2882							
NE+4.15 BASE	2883 2883							
NE+4.15 BASE	2886 2886							
NE+4.15 BASE	2885 2885							
NE+4.15 BASE	2884 2884							


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 5 MIN															
NE+4.15 BASE	2881 2881								-0.0002 0.0000	-0.2994 0.0000	0.00	0.30	0.30	1.62	0.18
NE+4.15 BASE	2882 2882								-0.0006 0.0000	-0.3158 0.0000	0.00	0.32	0.32	1.62	0.19
NE+4.15 BASE	2883 2883								-0.0011 0.0000	-0.3194 0.0000	0.00	0.32	0.32	1.62	0.20
NE+4.15 BASE	2886 2886								-0.0060 0.0000	-0.2959 0.0000	0.01	0.30	0.30	1.62	0.18
NE+4.15 BASE	2885 2885								-0.0062 0.0000	-0.3085 0.0000	0.01	0.31	0.31	1.62	0.19
NE+4.15 BASE	2884 2884								-0.0064 0.0000	-0.3155 0.0000	0.01	0.32	0.32	1.62	0.19


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 6 MAX															
NE+4.15 BASE	2881 2881								0.4129 0.0000	0.0565 0.0000	0.41	0.06	0.42	1.62	0.26
NE+4.15 BASE	2882 2882								0.4127 0.0000	-0.0169 0.0000	0.41	0.02	0.41	1.62	0.25
NE+4.15 BASE	2883 2883								0.4117 0.0000	0.0505 0.0000	0.41	0.05	0.41	1.62	0.26
NE+4.15 BASE	2886 2886								0.4898 0.0000	0.0578 0.0000	0.49	0.06	0.49	1.62	0.30
NE+4.15 BASE	2885 2885								0.4899 0.0000	-0.0129 0.0000	0.49	0.01	0.49	1.62	0.30
NE+4.15 BASE	2884 2884								0.4894 0.0000	0.0520 0.0000	0.49	0.05	0.49	1.62	0.30


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admissible}$ (cm)	%							
COMB 7 MIN															
NE+4.15 BASE	2881 2881								-0.4080 0.0000	-0.0830 0.0000	0.41	0.08	0.42	1.62	0.26
NE+4.15 BASE	2882 2882								-0.4090 0.0000	-0.0191 0.0000	0.41	0.02	0.41	1.62	0.25
NE+4.15 BASE	2883 2883								-0.4093 0.0000	-0.0896 0.0000	0.41	0.09	0.42	1.62	0.26
NE+4.15 BASE	2886 2886								-0.4933 0.0000	-0.0800 0.0000	0.49	0.08	0.50	1.62	0.31
NE+4.15 BASE	2885 2885								-0.4937 0.0000	-0.0151 0.0000	0.49	0.02	0.49	1.62	0.30
NE+4.15 BASE	2884 2884								-0.4936 0.0000	-0.0863 0.0000	0.49	0.09	0.50	1.62	0.31


		PROYECTO:	CENTRO CRECER				FECHA								
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490								
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9															
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%							
COMB 8 MAX															
NE+4.15 BASE	2881 2881								0.0074 0.0000	0.2604 0.0000	0.01	0.26	0.26	1.62	0.16
NE+4.15 BASE	2882 2882								0.0060 0.0000	0.2629 0.0000	0.01	0.26	0.26	1.62	0.16
NE+4.15 BASE	2883 2883								0.0047 0.0000	0.2621 0.0000	0.00	0.26	0.26	1.62	0.16
NE+4.15 BASE	2886 2886								0.0008 0.0000	0.2631 0.0000	0.00	0.26	0.26	1.62	0.16
NE+4.15 BASE	2885 2885								0.0005 0.0000	0.2672 0.0000	0.00	0.27	0.27	1.62	0.16
NE+4.15 BASE	2884 2884								0.0002 0.0000	0.2649 0.0000	0.00	0.26	0.26	1.62	0.16


		PROYECTO:	CENTRO CRECER				FECHA	
		INGENIERO:	IVAN MAURICIO GUEVARA				N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 2 EJES 4-9								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	$\Delta_{admisible}$ (cm)	%
COMB 9 MIN								
NE+4.15 BASE	2881 2881	-0.0024 0.0000	-0.2869 0.0000	0.00	0.29	0.29	1.62	0.18
NE+4.15 BASE	2882 2882	-0.0023 0.0000	-0.2989 0.0000	0.00	0.30	0.30	1.62	0.18
NE+4.15 BASE	2883 2883	-0.0023 0.0000	-0.3011 0.0000	0.00	0.30	0.30	1.62	0.19
NE+4.15 BASE	2886 2886	-0.0042 0.0000	-0.2853 0.0000	0.00	0.29	0.29	1.62	0.18
NE+4.15 BASE	2885 2885	-0.0043 0.0000	-0.2951 0.0000	0.00	0.30	0.30	1.62	0.18
NE+4.15 BASE	2884 2884	-0.0044 0.0000	-0.2992 0.0000	0.00	0.30	0.30	1.62	0.18


		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 1 MAX		-0.2435 -0.0778 0.0000	-0.0869 -0.0557 0.0000	0.17 0.08	0.03 0.06	0.17 0.10	1.68 1.78	0.10 0.05	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708	0.0000						
NE+8.45		2709	-0.2435	-0.0648	0.17	0.01	0.17	1.68	0.10
NE+4.25		2709	-0.0778	-0.0533	0.08	0.05	0.09	1.78	0.05
BASE		2709	0.0000	0.0000					
NE+8.45		1717	-0.0964	-0.0973	0.04	0.04	0.05	1.68	0.03
NE+4.25		1717	-0.0614	-0.0569	0.06	0.06	0.08	1.78	0.05
BASE		1717	0.0000	0.0000					
NE+8.45		1716	-0.0964	-0.0648	0.04	0.01	0.04	1.68	0.02
NE+4.25		1716	-0.0614	-0.0533	0.06	0.05	0.08	1.78	0.05
BASE		1716	0.0000	0.0000					
NE+8.45		1714	-0.1335	-0.0869	0.07	0.03	0.07	1.68	0.04
NE+4.25		1714	-0.0655	-0.0557	0.07	0.06	0.09	1.78	0.05
BASE		1714	0.0000	0.0000					
NE+8.45		1715	-0.1335	-0.0648	0.07	0.01	0.07	1.68	0.04
NE+4.25		1715	-0.0655	-0.0533	0.07	0.05	0.08	1.78	0.05
BASE		1715	0.0000	0.0000					


		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 2 MAX		1.0628	0.4873	0.45	0.25	0.51	1.68	0.31
NE+8.45	2708							
NE+4.25	2708							
BASE	2708	0.0000	0.0000					
		1.0628	0.6016	0.45	0.34	0.56	1.68	0.33
NE+8.45	2709							
NE+4.25	2709							
BASE	2709	0.0000	0.0000					
		2.3061	0.4859	1.17	0.25	1.19	1.68	0.71
NE+8.45	1717							
NE+4.25	1717							
BASE	1717	0.0000	0.0000					
		2.3061	0.6016	1.17	0.34	1.22	1.68	0.72
NE+8.45	1716							
NE+4.25	1716							
BASE	1716	0.0000	0.0000					
		1.8151	0.4873	0.90	0.25	0.93	1.68	0.56
NE+8.45	1714							
NE+4.25	1714							
BASE	1714	0.0000	0.0000					
		1.8151	0.6016	0.90	0.34	0.96	1.68	0.57
NE+8.45	1715							
NE+4.25	1715							
BASE	1715	0.0000	0.0000					


		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 3 MIN		-1.4734 -0.7445 0.0000	-0.6289 -0.3257 0.0000	0.73 0.74	0.30 0.33	0.79 0.81	1.68 1.78	0.47 0.46	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708	0.0000						
NE+8.45		2709	-1.4734	-0.7079	0.73	0.35	0.81	1.68	0.48
NE+4.25		2709	-0.7445	-0.3551	0.74	0.36	0.82	1.78	0.46
BASE		2709	0.0000						
NE+8.45		1717	-2.4816	-0.6442	1.24	0.31	1.28	1.68	0.76
NE+4.25		1717	-1.2431	-0.3346	1.24	0.33	1.29	1.78	0.72
BASE		1717	0.0000						
NE+8.45		1716	-2.4816	-0.7079	1.24	0.35	1.29	1.68	0.77
NE+4.25		1716	-1.2431	-0.3551	1.24	0.36	1.29	1.78	0.73
BASE		1716	0.0000						
NE+8.45		1714	-2.0500	-0.6289	1.02	0.30	1.07	1.68	0.64
NE+4.25		1714	-1.0269	-0.3257	1.03	0.33	1.08	1.78	0.61
BASE		1714	0.0000						
NE+8.45		1715	-2.0500	-0.7079	1.02	0.35	1.08	1.68	0.64
NE+4.25		1715	-1.0269	-0.3551	1.03	0.36	1.09	1.78	0.61
BASE		1715	0.0000						


		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 4 MAX		0.6373 0.4007 0.0000	1.9851 0.9880 0.0000	0.24 0.40	1.00 0.99	1.02 1.07	1.68 1.78	0.61 0.60	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708	0.0000						
NE+8.45		2709	0.6373	1.7641	0.24	0.91	0.94	1.68	0.56
NE+4.25		2709	0.4007	0.8555	0.40	0.86	0.94	1.78	0.53
BASE		2709	0.0000	0.0000					
NE+8.45		1717	1.2431	2.0984	0.60	1.04	1.20	1.68	0.72
NE+4.25		1717	0.6425	1.0539	0.64	1.05	1.23	1.78	0.69
BASE		1717	0.0000	0.0000					
NE+8.45		1716	1.2431	1.7641	0.60	0.91	1.09	1.68	0.65
NE+4.25		1716	0.6425	0.8555	0.64	0.86	1.07	1.78	0.60
BASE		1716	0.0000	0.0000					
NE+8.45		1714	0.7547	1.9851	0.36	1.00	1.06	1.68	0.63
NE+4.25		1714	0.3932	0.9880	0.39	0.99	1.06	1.78	0.60
BASE		1714	0.0000	0.0000					
NE+8.45		1715	0.7547	1.7641	0.36	0.91	0.98	1.68	0.58
NE+4.25		1715	0.3932	0.8555	0.39	0.86	0.94	1.78	0.53
BASE		1715	0.0000	0.0000					

		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 5 MIN		-1.0479 -0.5280 0.0000	-2.1267 -1.0807 0.0000	0.52 0.53	1.05 1.08	1.17 1.20	1.68 1.78	0.70 0.68	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708	0.0000						
NE+8.45		2709	-1.0479	-1.8705	0.52	0.93	1.06	1.68	0.63
NE+4.25		2709	-0.5280	-0.9449	0.53	0.94	1.08	1.78	0.61
BASE		2709	0.0000						
NE+8.45		1717	-1.4186	-2.2567	0.67	1.11	1.30	1.68	0.77
NE+4.25		1717	-0.7476	-1.1482	0.75	1.15	1.37	1.78	0.77
BASE		1717	0.0000						
NE+8.45		1716	-1.4186	-1.8705	0.67	0.93	1.14	1.68	0.68
NE+4.25		1716	-0.7476	-0.9449	0.75	0.94	1.20	1.78	0.68
BASE		1716	0.0000						
NE+8.45		1714	-0.9896	-2.1267	0.49	1.05	1.15	1.68	0.69
NE+4.25		1714	-0.5039	-1.0807	0.50	1.08	1.19	1.78	0.67
BASE		1714	0.0000						
NE+8.45		1715	-0.9896	-1.8705	0.49	0.93	1.05	1.68	0.62
NE+4.25		1715	-0.5039	-0.9449	0.50	0.94	1.07	1.78	0.60
BASE		1715	0.0000						


		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 6 MAX		1.1618 0.6509 0.0000	0.5251 0.2563 0.0000	0.51 0.65	0.27 0.26	0.58 0.70	1.68 1.78	0.34 0.39	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708							
NE+8.45		2709	1.1618	0.6294	0.51	0.34	0.61	1.68	0.37
NE+4.25		2709	0.6509	0.2876	0.65	0.29	0.71	1.78	0.40
BASE		2709	0.0000	0.0000					
NE+8.45		1717	2.3388	0.5284	1.18	0.26	1.21	1.68	0.72
NE+4.25		1717	1.1622	0.2643	1.16	0.26	1.19	1.78	0.67
BASE		1717	0.0000	0.0000					
NE+8.45		1716	2.3388	0.6294	1.18	0.34	1.23	1.68	0.73
NE+4.25		1716	1.1622	0.2876	1.16	0.29	1.20	1.78	0.67
BASE		1716	0.0000	0.0000					
NE+8.45		1714	1.8646	0.5251	0.92	0.27	0.96	1.68	0.57
NE+4.25		1714	0.9428	0.2563	0.94	0.26	0.98	1.78	0.55
BASE		1714	0.0000	0.0000					
NE+8.45		1715	1.8646	0.6294	0.92	0.34	0.98	1.68	0.59
NE+4.25		1715	0.9428	0.2876	0.94	0.29	0.99	1.78	0.55
BASE		1715	0.0000	0.0000					

		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 7 MIN		-1.3744 -0.7109 0.0000	-0.5911 -0.3024 0.0000	0.66 0.71	0.29 0.30	0.72 0.77	1.68 1.78	0.43 0.43	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708	0.0000						
NE+8.45		2709	-1.3744	-0.6801	0.66	0.35	0.75	1.68	0.45
NE+4.25		2709	-0.7109	-0.3332	0.71	0.33	0.79	1.78	0.44
BASE		2709	0.0000						
NE+8.45		1717	-2.4488	-0.6017	1.23	0.29	1.26	1.68	0.75
NE+4.25		1717	-1.2189	-0.3106	1.22	0.31	1.26	1.78	0.71
BASE		1717	0.0000						
NE+8.45		1716	-2.4488	-0.6801	1.23	0.35	1.28	1.68	0.76
NE+4.25		1716	-1.2189	-0.3332	1.22	0.33	1.26	1.78	0.71
BASE		1716	0.0000						
NE+8.45		1714	-2.0005	-0.5911	1.00	0.29	1.04	1.68	0.62
NE+4.25		1714	-1.0003	-0.3024	1.00	0.30	1.05	1.78	0.59
BASE		1714	0.0000						
NE+8.45		1715	-2.0005	-0.6801	1.00	0.35	1.06	1.68	0.63
NE+4.25		1715	-1.0003	-0.3332	1.00	0.33	1.05	1.78	0.59
BASE		1715	0.0000						

		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018	
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490	
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3									
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%	
COMB 8 MAX		0.7363 0.4344 0.0000	2.0229 1.0113 0.0000	0.30 0.43	1.01 1.01	1.06 1.10	1.68 1.78	0.63 0.62	
NE+8.45	2708								
NE+4.25	2708								
BASE		2708							
NE+8.45		2709	0.7363	1.7920	0.30	0.91	0.96	1.68	0.57
NE+4.25		2709	0.4344	0.8774	0.43	0.88	0.98	1.78	0.55
BASE		2709	0.0000	0.0000					
NE+8.45		1717	1.2759	2.1409	0.61	1.06	1.23	1.68	0.73
NE+4.25		1717	0.6667	1.0779	0.67	1.08	1.27	1.78	0.71
BASE		1717	0.0000	0.0000					
NE+8.45		1716	1.2759	1.7920	0.61	0.91	1.10	1.68	0.65
NE+4.25		1716	0.6667	0.8774	0.67	0.88	1.10	1.78	0.62
BASE		1716	0.0000	0.0000					
NE+8.45		1714	0.8042	2.0229	0.38	1.01	1.08	1.68	0.64
NE+4.25		1714	0.4198	1.0113	0.42	1.01	1.09	1.78	0.62
BASE		1714	0.0000	0.0000					
NE+8.45		1715	0.8042	1.7920	0.38	0.91	0.99	1.68	0.59
NE+4.25		1715	0.4198	0.8774	0.42	0.88	0.97	1.78	0.55
BASE		1715	0.0000	0.0000					

		PROYECTO:	CENTRO CRECER					FECHA 1/08/2018
		INGENIERO:	IVAN MAURICIO GUEVARA					N.P : P-18-490
10. DERIVAS UMBRAL DE DAÑO BLOQUE 3								
NUDO		δx (cm)	δy (cm)	Δx (cm)	Δy (cm)	Δ (cm)	Δ _{admisible} (cm)	%
COMB 9 MIN		-0.9489 -0.4943 0.0000	-2.0889 -1.0574 0.0000	0.45 0.49	1.03 1.06	1.13 1.17	1.68 1.78	0.67 0.66
NE+8.45	2708							
NE+4.25	2708							
BASE	2708							
NE+8.45	2709	-0.9489	-1.8426	0.45	0.92	1.03	1.68	0.61
NE+4.25	2709	-0.4943	-0.9230	0.49	0.92	1.05	1.78	0.59
BASE	2709	0.0000	0.0000					
NE+8.45	1717	-1.3859	-2.2142	0.66	1.09	1.28	1.68	0.76
NE+4.25	1717	-0.7234	-1.1242	0.72	1.12	1.34	1.78	0.75
BASE	1717	0.0000	0.0000					
NE+8.45	1716	-1.3859	-1.8426	0.66	0.92	1.13	1.68	0.67
NE+4.25	1716	-0.7234	-0.9230	0.72	0.92	1.17	1.78	0.66
BASE	1716	0.0000	0.0000					
NE+8.45	1714	-0.9401	-2.0889	0.46	1.03	1.13	1.68	0.67
NE+4.25	1714	-0.4773	-1.0574	0.48	1.06	1.16	1.78	0.65
BASE	1714	0.0000	0.0000					
NE+8.45	1715	-0.9401	-1.8426	0.46	0.92	1.03	1.68	0.61
NE+4.25	1715	-0.4773	-0.9230	0.48	0.92	1.04	1.78	0.58
BASE	1715	0.0000	0.0000					

CAPITULO 11
ANÁLISIS ESTRUCTURAL

	PROYECTO: CENTRO CRECER		FECHA: 2/08/2018	
	INGENIERO: IVAN MAURICIO GUEVARA		N.P.: P-18-490	

11.0 ANALISIS ESTRUCTURA EDIFICIO BLOQUE 1

11.1 DATOS DE ENTRADA

A. COMBINACIONES DE CARGA PARA DERIVA

Combinaciones de Carga:

CHEQUEO DE LA DERIVA

					$F_y \circ F_y$		
1.	1.20	C.M.	+	1.60	C.V.		
2.	1.20	C.M.	+	1.00	C.V.	+	1.00 S.X.
3.	1.20	C.M.	+	1.00	C.V.	-	1.00 S.X.
4.	1.20	C.M.	+	1.00	C.V.	+	1.00 S.Y.
5.	1.20	C.M.	+	1.00	C.V.	-	1.00 S.Y.
6.	0.90	C.M.				+	1.00 S.X.
7.	0.90	C.M.				-	1.00 S.X.
8.	0.90	C.M.				+	1.00 S.Y.
9.	0.90	C.M.				-	1.00 S.Y.

C.M.	=	Carga Muerta
C.V.	=	Carga Viva
S.X.	=	Fuerzas Sismicas Elásticas en X
S.Y.	=	Fuerzas Sismicas Elásticas en Y
R_o	=	5.0
ϕ_p	=	0.90
ϕ_a	=	1.00
ϕ_r	=	1.00
R	=	$R_o \phi_a \phi_p \phi_r = 4.50$

PORTICOS RESISTENTES A MOMENTOS


B. COMBINACIONES DE DISEÑO DE VIGAS Y COLUMNAS

		$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_x I$	$\frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_y I$	
		S.X.	S.Y.	
1.	1.20 C.M. + 1.60 C.V.			
2.	1.20 C.M. + 1.00 C.V.	+	0.28	+
3.	1.20 C.M. + 1.00 C.V.	+	0.28	-
4.	1.20 C.M. + 1.00 C.V.	-	0.28	+
5.	1.20 C.M. + 1.00 C.V.	-	0.28	-
6.	1.20 C.M. + 1.00 C.V.	+	0.08	+
7.	1.20 C.M. + 1.00 C.V.	+	0.08	-
8.	1.20 C.M. + 1.00 C.V.	-	0.08	+
9.	1.20 C.M. + 1.00 C.V.	-	0.08	-
10.	0.90 C.M.	+	0.28	+
11.	0.90 C.M.	+	0.28	-
12.	0.90 C.M.	-	0.28	+
13.	0.90 C.M.	-	0.28	-
14.	0.90 C.M.	+	0.08	+
15.	0.90 C.M.	+	0.08	-
16.	0.90 C.M.	-	0.08	+
17.	0.90 C.M.	-	0.08	-

Sismo X= 1.00
Sismo Y= 1.00
I= 1.25

Nota: Se tiene en cuenta la irregularidad para el efecto de la torsión.

Observaciones:
Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25

	PROYECTO:				FECHA:		
	CENTRO CRECER				2/08/2018		
	INGENIERO:				N.P.:		
	IVAN MAURICIO GUEVARA				P-18-490		
C. COMBINACIONES DE CHEQUEO CORTANTE EN COLUMNAS							
$\frac{\Omega}{R} F_x I \text{ ó } \frac{0.3\Omega}{R} F_y I \quad \frac{0.3\Omega}{R} F_x I \text{ ó } \frac{\Omega}{R} F_y I$							
1. 1.2C.M.	+ 1.60 C.V.						
2. 1.27C.M.	+ 1.00 C.V.	+ 0.83	+ 0.25	C.M.	=	Carga Muerta	
3. 1.13C.M.	+ 1.00 C.V.	+ 0.83	+ 0.25	C.V.	=	Carga Viva	
4. 1.27C.M.	+ 1.00 C.V.	+ 0.83	- 0.25	S.X.	=	Fuerzas Sismicas Elásticas en X	
5. 1.13C.M.	+ 1.00 C.V.	+ 0.83	- 0.25	S.Y.	=	Fuerzas Sismicas Elásticas en Y	
6. 1.27C.M.	+ 1.00 C.V.	- 0.83	+ 0.25			COMBINADO	
7. 1.13C.M.	+ 1.00 C.V.	- 0.83	+ 0.25	R_o	=	5.0	
8. 1.27C.M.	+ 1.00 C.V.	- 0.83	- 0.25	ϕ_p	=	0.90	PORTICOS RESISTENTES A MOMENTOS
9. 1.13C.M.	+ 1.00 C.V.	- 0.83	- 0.25	ϕ_a	=	1.00	
10. 1.27C.M.	+ 1.00 C.V.	+ 0.25	+ 0.83	ϕ_r	=	1.00	
11. 1.13C.M.	+ 1.00 C.V.	+ 0.25	+ 0.83	R	=	$R_o \phi_a \phi_p \phi_r$	= 4.50
12. 1.27C.M.	+ 1.00 C.V.	+ 0.25	- 0.83	Ω	=	3.0	
13. 1.13C.M.	+ 1.00 C.V.	+ 0.25	- 0.83				
14. 1.27C.M.	+ 1.00 C.V.	- 0.25	+ 0.83				
15. 1.13C.M.	+ 1.00 C.V.	- 0.25	+ 0.83			Sismo X=	1.00
16. 1.27C.M.	+ 1.00 C.V.	- 0.25	- 0.83			Sismo Y=	1.00
17. 1.13C.M.	+ 1.00 C.V.	- 0.25	- 0.83			I=	1.25
18. 0.97C.M.		+ 0.83	+ 0.25				
19. 0.83C.M.		+ 0.83	+ 0.25				
20. 0.97C.M.		+ 0.83	- 0.25				
21. 0.83C.M.		+ 0.83	- 0.25				
22. 0.97C.M.		- 0.83	+ 0.25				
23. 0.83C.M.		- 0.83	+ 0.25				
24. 0.97C.M.		- 0.83	- 0.25				
25. 0.83C.M.		- 0.83	- 0.25				
26. 0.97C.M.		+ 0.25	+ 0.83				
27. 0.83C.M.		+ 0.25	+ 0.83				
28. 0.97C.M.		+ 0.25	- 0.83				
29. 0.83C.M.		+ 0.25	- 0.83				
30. 0.97C.M.		- 0.25	+ 0.83				
31. 0.83C.M.		- 0.25	+ 0.83				
32. 0.97C.M.		- 0.25	- 0.83				
33. 0.83C.M.		- 0.25	- 0.83				
D. COMBINACIONES PARA CHEQUEO A CORTANTE EN VIGAS							
$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_y I \quad \frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_x I$							
		S.X.	S.Y.				
1. 1.20 C.M.	+ 1.60 C.V.					Sismo X=	2.00
2. 1.20 C.M.	+ 1.00 C.V.	+ 0.56	+ 0.17			Sismo Y=	2.00
3. 1.20 C.M.	+ 1.00 C.V.	+ 0.56	- 0.17			III=	1.25
4. 1.20 C.M.	+ 1.00 C.V.	- 0.56	+ 0.17				
5. 1.20 C.M.	+ 1.00 C.V.	- 0.56	- 0.17				
6. 1.20 C.M.	+ 1.00 C.V.	+ 0.17	+ 0.56				
7. 1.20 C.M.	+ 1.00 C.V.	+ 0.17	- 0.56				
8. 1.20 C.M.	+ 1.00 C.V.	- 0.17	+ 0.56				
9. 1.20 C.M.	+ 1.00 C.V.	- 0.17	- 0.56				
10. 0.90 C.M.		+ 0.56	+ 0.17				
11. 0.90 C.M.		+ 0.56	- 0.17				
12. 0.90 C.M.		- 0.56	+ 0.17				
13. 0.90 C.M.		- 0.56	- 0.17				
14. 0.90 C.M.		+ 0.17	+ 0.56				
15. 0.90 C.M.		+ 0.17	- 0.56				
16. 0.90 C.M.		- 0.17	+ 0.56				
17. 0.90 C.M.		- 0.17	- 0.56				
				Nota:	Se tiene en cuenta la irregularidad para el efecto de la torsión.		
Observaciones:							
Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25							

E. COMBINACIONES DE DISEÑO DE CIMENTACION


1.	1.00 C.M.	+	1.00 C.V.		
2.	1.00 C.M.			+	0.19 S.X.
3.	1.00 C.M.			+	0.19 S.Y.
4.	1.00 C.M.	+	0.75 C.V.	+	0.15 S.X.
5.	1.00 C.M.	+	0.75 C.V.	+	0.15 S.Y.
6.	0.60 C.M.			+	0.19 S.X.
7.	0.60 C.M.			+	0.19 S.Y.
8.	1.00 C.M.	+	1.00 C.V.	+	0.19 S.X.
9.	1.00 C.M.	+	1.00 C.V.	+	0.19 S.Y.
10.	1.20 C.M.	+	1.00 C.V.	+	0.28 S.X.
11.	1.20 C.M.	+	1.00 C.V.	+	0.28 S.Y.

C.M.	=	Carga Muerta
C.V.	=	Carga Viva
S.X.	=	Fuerzas Sismicas Elásticas en X
S.Y.	=	Fuerzas Sismicas Elásticas en Y

R_o	=	5.0	PORTICOS RESISTENTES A MOMENTOS
ϕ_p	=	0.90	
ϕ_a	=	1.00	
ϕ_r	=	1.00	
R	=	$R_o \phi_a \phi_p \phi_r$	= 4.50

Sismo X=	1.00
Sismo Y=	1.00
III=	1.25

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.60CM+0.7SX/R
CIM7	0.60CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R

	PROYECTO:	FECHA:
	CENTRO CRECER	1/08/2018
	INGENIERO:	N.P.:
	IVAN MAURICIO GUEVARA	P-18-490

11.0 ANALISIS ESTRUCTURA EDIFICIO BLOQUE 2 EJES 1-3

11.1 DATOS DE ENTRADA

A. COMBINACIONES DE CARGA PARA DERIVA
Combinaciones de Carga:

CHEQUEO DE LA DERIVA

				$F_y \circ F_y$		
1.	1.20 C.M.	+	1.60 C.V.		C.M.	= Carga Muerta
2.	1.20 C.M.	+	1.00 C.V.	+ 1.00 S.X.	C.V.	= Carga Viva
3.	1.20 C.M.	+	1.00 C.V.	- 1.00 S.X.	S.X.	= Fuerzas Sísmicas Elásticas en X
4.	1.20 C.M.	+	1.00 C.V.	+ 1.00 S.Y.	S.Y.	= Fuerzas Sísmicas Elásticas en Y
5.	1.20 C.M.	+	1.00 C.V.	- 1.00 S.Y.		
6.	0.90 C.M.			+ 1.00 S.X.	R_o	= 5.0
7.	0.90 C.M.			- 1.00 S.X.	ϕ_p	= 1.00
8.	0.90 C.M.			+ 1.00 S.Y.	ϕ_a	= 1.00
9.	0.90 C.M.			- 1.00 S.Y.	ϕ_r	= 0.75
					R	= $R_o \phi_a \phi_p \phi_r$ = 3.75

PORTICOS RESISTENTES A MOMENTOS


B. COMBINACIONES DE DISEÑO DE VIGAS Y COLUMNAS

		$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_x I$	$\frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_y I$	
		S.X.	S.Y.	
1.	1.20 C.M.	+	1.60 C.V.	
2.	1.20 C.M.	+	1.00 C.V.	+ 0.33 + 0.10
3.	1.20 C.M.	+	1.00 C.V.	+ 0.33 - 0.10
4.	1.20 C.M.	+	1.00 C.V.	- 0.33 + 0.10
5.	1.20 C.M.	+	1.00 C.V.	- 0.33 - 0.10
6.	1.20 C.M.	+	1.00 C.V.	+ 0.10 + 0.33
7.	1.20 C.M.	+	1.00 C.V.	+ 0.10 - 0.33
8.	1.20 C.M.	+	1.00 C.V.	- 0.10 + 0.33
9.	1.20 C.M.	+	1.00 C.V.	- 0.10 - 0.33
10.	0.90 C.M.			+ 0.33 + 0.10
11.	0.90 C.M.			+ 0.33 - 0.10
12.	0.90 C.M.			- 0.33 + 0.10
13.	0.90 C.M.			- 0.33 - 0.10
14.	0.90 C.M.			+ 0.10 + 0.33
15.	0.90 C.M.			+ 0.10 - 0.33
16.	0.90 C.M.			- 0.10 + 0.33
17.	0.90 C.M.			- 0.10 - 0.33

Sismo X= 1.00
 Sismo Y= 1.00
 I= 1.25

Nota: Se tiene en cuenta la irregularidad para el efecto de la torsión.

Observaciones:
Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25

	PROYECTO:		CENTRO CRECER		FECHA:		1/08/2018	
	INGENIERO:		IVAN MAURICIO GUEVARA		N.P.:		P-18-490	

C. COMBINACIONES DE CHEQUEO CORTANTE EN COLUMNAS

$$\frac{\Omega}{R} F_x I \text{ ó } \frac{0.3\Omega}{R} F_y I$$

1. 1.2C.M.

+ 1.60 C.V.

2. 1.27C.M.

+ 1.00 C.V.

3. 1.13C.M.

+ 1.00 C.V.

4. 1.27C.M.

+ 1.00 C.V.

5. 1.13C.M.

+ 1.00 C.V.

6. 1.27C.M.

+ 1.00 C.V.

7. 1.13C.M.

+ 1.00 C.V.

8. 1.27C.M.

+ 1.00 C.V.

9. 1.13C.M.

+ 1.00 C.V.

10. 1.27C.M.

+ 1.00 C.V.

11. 1.13C.M.

+ 1.00 C.V.

12. 1.27C.M.

+ 1.00 C.V.

13. 1.13C.M.

+ 1.00 C.V.

14. 1.27C.M.

+ 1.00 C.V.

15. 1.13C.M.

+ 1.00 C.V.

16. 1.27C.M.

+ 1.00 C.V.

17. 1.13C.M.

+ 1.00 C.V.

18. 0.97C.M.

+ 1.00

19. 0.83C.M.

+ 1.00

20. 0.97C.M.

+ 1.00

21. 0.83C.M.

+ 1.00

22. 0.97C.M.

- 1.00

23. 0.83C.M.

- 1.00

24. 0.97C.M.

- 1.00

25. 0.83C.M.

- 1.00

26. 0.97C.M.

+ 0.30

27. 0.83C.M.

+ 0.30

28. 0.97C.M.

+ 0.30

29. 0.83C.M.

+ 0.30

30. 0.97C.M.

- 0.30

31. 0.83C.M.

- 0.30

32. 0.97C.M.

- 0.30

33. 0.83C.M.

- 0.30

+ 1.00

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E. COMBINACIONES DE DISEÑO DE CIMENTACION


1.	1.00 C.M.	+	1.00 C.V.		
2.	1.00 C.M.			+	0.23 S.X.
3.	1.00 C.M.			+	0.23 S.Y.
4.	1.00 C.M.	+	0.75 C.V.	+	0.18 S.X.
5.	1.00 C.M.	+	0.75 C.V.	+	0.18 S.Y.
6.	0.60 C.M.			+	0.23 S.X.
7.	0.60 C.M.			+	0.23 S.Y.
8.	1.00 C.M.	+	1.00 C.V.	+	0.23 S.X.
9.	1.00 C.M.	+	1.00 C.V.	+	0.23 S.Y.
10.	1.20 C.M.	+	1.00 C.V.	+	0.33 S.X.
11.	1.20 C.M.	+	1.00 C.V.	+	0.33 S.Y.

C.M.	=	Carga Muerta
C.V.	=	Carga Viva
S.X.	=	Fuerzas Sismicas Elásticas en X
S.Y.	=	Fuerzas Sismicas Elásticas en Y

R_o	=	5.0	PORTICOS RESISTENTES A MOMENTOS	
ϕ_p	=	1.00		
ϕ_a	=	1.00		
ϕ_r	=	0.75		
R	=	$R_o \phi_a \phi_p \phi_r$	=	3.75

Sismo X=	1.00
Sismo Y=	1.00
III=	1.25

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.60CM+0.7SX/R
CIM7	0.60CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R

	PROYECTO:	FECHA:
	CENTRO CRECER	0/01/1900
	INGENIERO:	N.P.:
	IVAN MAURICIO GUEVARA	P-18-490

11.0 ANALISIS ESTRUCTURA EDIFICIO BLOQUE 2 EJES 4-9

11.1 DATOS DE ENTRADA

A. COMBINACIONES DE CARGA PARA DERIVA
Combinaciones de Carga:

CHEQUEO DE LA DERIVA

				$F_y \circ F_y$		
1.	1.20 C.M.	+	1.60 C.V.		C.M.	= Carga Muerta
2.	1.20 C.M.	+	1.00 C.V.	+ 1.00 S.X.	C.V.	= Carga Viva
3.	1.20 C.M.	+	1.00 C.V.	- 1.00 S.X.	S.X.	= Fuerzas Sismicas Elásticas en X
4.	1.20 C.M.	+	1.00 C.V.	+ 1.00 S.Y.	S.Y.	= Fuerzas Sismicas Elásticas en Y
5.	1.20 C.M.	+	1.00 C.V.	- 1.00 S.Y.		
6.	0.90 C.M.			+ 1.00 S.X.	R_o	= 5.0
7.	0.90 C.M.			- 1.00 S.X.	ϕ_p	= 1.00
8.	0.90 C.M.			+ 1.00 S.Y.	ϕ_a	= 1.00
9.	0.90 C.M.			- 1.00 S.Y.	ϕ_r	= 0.75
					R	= $R_o \phi_a \phi_p \phi_r$ = 3.75

PORTICOS RESISTENTES A MOMENTOS

B. COMBINACIONES DE DISEÑO DE VIGAS Y COLUMNAS

		$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_x I$		$\frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_y I$		
		S.X.		S.Y.		
1.	1.20 C.M.	+	1.60 C.V.			
2.	1.20 C.M.	+	1.00 C.V.	+ 0.33	+ 0.10	
3.	1.20 C.M.	+	1.00 C.V.	+ 0.33	- 0.10	
4.	1.20 C.M.	+	1.00 C.V.	- 0.33	+ 0.10	
5.	1.20 C.M.	+	1.00 C.V.	- 0.33	- 0.10	
6.	1.20 C.M.	+	1.00 C.V.	+ 0.10	+ 0.33	
7.	1.20 C.M.	+	1.00 C.V.	+ 0.10	- 0.33	
8.	1.20 C.M.	+	1.00 C.V.	- 0.10	+ 0.33	
9.	1.20 C.M.	+	1.00 C.V.	- 0.10	- 0.33	
10.	0.90 C.M.			+ 0.33	+ 0.10	
11.	0.90 C.M.			+ 0.33	- 0.10	
12.	0.90 C.M.			- 0.33	+ 0.10	
13.	0.90 C.M.			- 0.33	- 0.10	
14.	0.90 C.M.			+ 0.10	+ 0.33	
15.	0.90 C.M.			+ 0.10	- 0.33	
16.	0.90 C.M.			- 0.10	+ 0.33	
17.	0.90 C.M.			- 0.10	- 0.33	

Sismo X= 1.00


Sismo Y= 1.00

I= 1.25

Nota: Se tiene en cuenta la irregularidad para el efecto de la torsión.

Observaciones:

Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25

	PROYECTO:				FECHA:	
	CENTRO CRECER				0/01/1900	
	INGENIERO:				N.P.:	
IVAN MAURICIO GUEVARA				P-18-490		
C. COMBINACIONES DE CHEQUEO CORTANTE EN COLUMNAS						
$\frac{\Omega}{R} F_x I \text{ ó } \frac{0.3\Omega}{R} F_y I \quad \frac{0.3\Omega}{R} F_x I \text{ ó } \frac{\Omega}{R} F_y I$						
1. 1.2C.M.	+ 1.60 C.V.					
2. 1.27C.M.	+ 1.00 C.V.	+ 1.00	+ 0.30	C.M.	=	Carga Muerta
3. 1.13C.M.	+ 1.00 C.V.	+ 1.00	+ 0.30	C.V.	=	Carga Viva
4. 1.27C.M.	+ 1.00 C.V.	+ 1.00	- 0.30	S.X.	=	Fuerzas Sismicas Elásticas en X
5. 1.13C.M.	+ 1.00 C.V.	+ 1.00	- 0.30	S.Y.	=	Fuerzas Sismicas Elásticas en Y
6. 1.27C.M.	+ 1.00 C.V.	- 1.00	+ 0.30			
7. 1.13C.M.	+ 1.00 C.V.	- 1.00	+ 0.30	R _o	=	5.0
8. 1.27C.M.	+ 1.00 C.V.	- 1.00	- 0.30	φ _p	=	1.00
9. 1.13C.M.	+ 1.00 C.V.	- 1.00	- 0.30	φ _a	=	1.00
10. 1.27C.M.	+ 1.00 C.V.	+ 0.30	+ 1.00	φ _r	=	0.75
11. 1.13C.M.	+ 1.00 C.V.	+ 0.30	+ 1.00	R	=	R _o φ _a φ _p φ _r = 3.75
12. 1.27C.M.	+ 1.00 C.V.	+ 0.30	- 1.00	Ω	=	3.0
13. 1.13C.M.	+ 1.00 C.V.	+ 0.30	- 1.00			
14. 1.27C.M.	+ 1.00 C.V.	- 0.30	+ 1.00			
15. 1.13C.M.	+ 1.00 C.V.	- 0.30	+ 1.00			Sismo X= 1.00
16. 1.27C.M.	+ 1.00 C.V.	- 0.30	- 1.00			Sismo Y= 1.00
17. 1.13C.M.	+ 1.00 C.V.	- 0.30	- 1.00			I= 1.25
18. 0.97C.M.		+ 1.00	+ 0.30			
19. 0.83C.M.		+ 1.00	+ 0.30			
20. 0.97C.M.		+ 1.00	- 0.30			
21. 0.83C.M.		+ 1.00	- 0.30			
22. 0.97C.M.		- 1.00	+ 0.30			
23. 0.83C.M.		- 1.00	+ 0.30			
24. 0.97C.M.		- 1.00	- 0.30			
25. 0.83C.M.		- 1.00	- 0.30			
26. 0.97C.M.		+ 0.30	+ 1.00			
27. 0.83C.M.		+ 0.30	+ 1.00			
28. 0.97C.M.		+ 0.30	- 1.00			
29. 0.83C.M.		+ 0.30	- 1.00			
30. 0.97C.M.		- 0.30	+ 1.00			
31. 0.83C.M.		- 0.30	+ 1.00			
32. 0.97C.M.		- 0.30	- 1.00			
33. 0.83C.M.		- 0.30	- 1.00			
D. COMBINACIONES PARA CHEQUEO A CORTANTE EN VIGAS						
$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_x I \quad \frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_y I$						
		S.X.	S.Y.			
1. 1.20 C.M.	+ 1.60 C.V.					
2. 1.20 C.M.	+ 1.00 C.V.	+ 0.67	+ 0.20			
3. 1.20 C.M.	+ 1.00 C.V.	+ 0.67	- 0.20			
4. 1.20 C.M.	+ 1.00 C.V.	- 0.67	+ 0.20			
5. 1.20 C.M.	+ 1.00 C.V.	- 0.67	- 0.20			
6. 1.20 C.M.	+ 1.00 C.V.	+ 0.20	+ 0.67			
7. 1.20 C.M.	+ 1.00 C.V.	+ 0.20	- 0.67			
8. 1.20 C.M.	+ 1.00 C.V.	- 0.20	+ 0.67			
9. 1.20 C.M.	+ 1.00 C.V.	- 0.20	- 0.67			
10. 0.90 C.M.		+ 0.67	+ 0.20			
11. 0.90 C.M.		+ 0.67	- 0.20			
12. 0.90 C.M.		- 0.67	+ 0.20			
13. 0.90 C.M.		- 0.67	- 0.20			
14. 0.90 C.M.		+ 0.20	+ 0.67			
15. 0.90 C.M.		+ 0.20	- 0.67			
16. 0.90 C.M.		- 0.20	+ 0.67			
17. 0.90 C.M.		- 0.20	- 0.67			
				Nota:	Se tiene en cuenta la irregularidad para el efecto de la torsión.	
Observaciones:						
Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25						

PROYECTO:	CENTRO CRECER	FECHA:	0/01/1900
INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-18-490

E. COMBINACIONES DE DISEÑO DE CIMENTACION

1.	1.00	C.M.	+	1.00	C.V.			C.M.	=	Carga Muerta
2.	1.00	C.M.				+	0.23	S.X.		C.V.
3.	1.00	C.M.				+	0.23	S.Y.		S.X.
4.	1.00	C.M.	+	0.75	C.V.	+	0.18	S.X.		S.Y.
5.	1.00	C.M.	+	0.75	C.V.	+	0.18	S.Y.		
6.	0.60	C.M.				+	0.23	S.X.	R_o	= 5.0
7.	0.60	C.M.				+	0.23	S.Y.	ϕ_p	= 1.00
8.	1.00	C.M.	+	1.00	C.V.	+	0.23	S.X.	ϕ_a	= 1.00
9.	1.00	C.M.	+	1.00	C.V.	+	0.23	S.y.	ϕ_r	= 0.75
10.	1.20	C.M.	+	1.00	C.V.	+	0.33	S.X.	R	= $R_o \Phi_a \Phi_p \Phi_r$
11.	1.20	C.M.	+	1.00	C.V.	+	0.33	S.Y.		= 3.75

Sismo X=	1.00
Sismo Y=	1.00
III=	1.25

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.60CM+0.7SX/R
CIM7	0.60CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R



PROYECTO:	CENTRO CRECER	FECHA:	1/08/2018
INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490

11.0 ANALISIS ESTRUCTURA EDIFICIO BLOQUE 3

11.1 DATOS DE ENTRADA

A. COMBINACIONES DE CARGA PARA DERIVA

Combinaciones de Carga:

CHEQUEO DE LA DERIVA

$F_y \circ F_y$									
1.	1.20	C.M.	+	1.60	C.V.			C.M.	= Carga Muerta
2.	1.20	C.M.	+	1.00	C.V.	+	1.00	S.X.	= Carga Viva
3.	1.20	C.M.	+	1.00	C.V.	-	1.00	S.X.	= Fuerzas Sismicas Elásticas en X
4.	1.20	C.M.	+	1.00	C.V.	+	1.00	S.Y.	= Fuerzas Sismicas Elásticas en Y
5.	1.20	C.M.	+	1.00	C.V.	-	1.00	S.Y.	
6.	0.90	C.M.				+	1.00	S.X.	$R_o = 5.0$
7.	0.90	C.M.				-	1.00	S.X.	$\phi_p = 0.90$
8.	0.90	C.M.				+	1.00	S.Y.	$\phi_a = 1.00$
9.	0.90	C.M.				-	1.00	S.Y.	$\phi_r = 0.75$
									$R = R_o \phi_a \phi_p \phi_r = 3.38$

PORTICOS RESISTENTES A MOMENTOS


B. COMBINACIONES DE DISEÑO DE VIGAS Y COLUMNAS

		$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_x I$		$\frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_y I$			
		S.X.		S.Y.			
1.	1.20 C.M. + 1.60 C.V.					Sismo X=	1.00
2.	1.20 C.M. + 1.00 C.V.	+	0.37	+	0.11	Sismo Y=	1.00
3.	1.20 C.M. + 1.00 C.V.	+	0.37	-	0.11	I=	1.25
4.	1.20 C.M. + 1.00 C.V.	-	0.37	+	0.11		
5.	1.20 C.M. + 1.00 C.V.	-	0.37	-	0.11		
6.	1.20 C.M. + 1.00 C.V.	+	0.11	+	0.37		
7.	1.20 C.M. + 1.00 C.V.	+	0.11	-	0.37		
8.	1.20 C.M. + 1.00 C.V.	-	0.11	+	0.37		
9.	1.20 C.M. + 1.00 C.V.	-	0.11	-	0.37		
10.	0.90 C.M.	+	0.37	+	0.11		
11.	0.90 C.M.	+	0.37	-	0.11		
12.	0.90 C.M.	-	0.37	+	0.11		
13.	0.90 C.M.	-	0.37	-	0.11		
14.	0.90 C.M.	+	0.11	+	0.37		
15.	0.90 C.M.	+	0.11	-	0.37		
16.	0.90 C.M.	-	0.11	+	0.37		
17.	0.90 C.M.	-	0.11	-	0.37		
18.	1.40 C.M.						

Nota: Se tiene en cuenta la irregularidad para el efecto de la torsión.

Observaciones:

Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25

	PROYECTO:	CENTRO CRECER		FECHA:	1/08/2018	
	INGENIERO:	IVAN MAURICIO GUEVARA		N.P.:	P-18-490	

C. COMBINACIONES DE CHEQUEO CORTANTE EN COLUMNAS

$$\frac{\Omega}{R} F_x I \text{ ó } \frac{0.3\Omega}{R} F_y I$$

1. 1.2C.M.

+ 1.60 C.V.

+ 1.11

+ 0.33

C.M.

=

Carga Muerta

2. 1.27C.M.

+ 1.00 C.V.

+ 1.11

+ 0.33

C.V.

=

Carga Viva

3. 1.13C.M.

+ 1.00 C.V.

+ 1.11

- 0.33

S.X.

=

Fuerzas Sismicas Elásticas en X

4. 1.27C.M.

+ 1.00 C.V.

+ 1.11

- 0.33

S.Y.

=

Fuerzas Sismicas Elásticas en Y

5. 1.13C.M.

+ 1.00 C.V.

- 1.11

+ 0.33

COMBINADO

6. 1.27C.M.

+ 1.00 C.V.

- 1.11

+ 0.33

R_o

=

5.0

7. 1.13C.M.

+ 1.00 C.V.

- 1.11

- 0.33

ϕ_p

=

0.90

8. 1.27C.M.

+ 1.00 C.V.

- 1.11

- 0.33

ϕ_a

=

1.00

9. 1.13C.M.

+ 1.00 C.V.

+ 0.33

+ 1.11

ϕ_r

=

0.75

10. 1.27C.M.

+ 1.00 C.V.

+ 0.33

+ 1.11

R

=

$R_o \phi_a \phi_p \phi_r$

=

3.38

11. 1.13C.M.

+ 1.00 C.V.

+ 0.33

- 1.11

Ω

=

3.0

12. 1.27C.M.

+ 1.00 C.V.

+ 0.33

- 1.11

13. 1.13C.M.

+ 1.00 C.V.

+ 0.33

- 1.11

14. 1.27C.M.

+ 1.00 C.V.

- 0.33

+ 1.11

15. 1.13C.M.

+ 1.00 C.V.

- 0.33

+ 1.11

Sismo X= 1.00

16. 1.27C.M.

+ 1.00 C.V.

- 0.33

- 1.11

Sismo Y= 1.00

17. 1.13C.M.

+ 1.00 C.V.

- 0.33

- 1.11

I= 1.25

18. 0.97C.M.

+ 1.11

+ 0.33

19. 0.83C.M.

+ 1.11

+ 0.33

20. 0.97C.M.

+ 1.11

- 0.33

21. 0.83C.M.

+ 1.11

- 0.33

22. 0.97C.M.

- 1.11

+ 0.33

23. 0.83C.M.

- 1.11

+ 0.33

24. 0.97C.M.

- 1.11

- 0.33

25. 0.83C.M.

- 1.11

- 0.33

26. 0.97C.M.

+ 0.33

+ 1.11

27. 0.83C.M.

+ 0.33

+ 1.11

28. 0.97C.M.

+ 0.33

- 1.11

29. 0.83C.M.

+ 0.33

- 1.11

30. 0.97C.M.

- 0.33

+ 1.11

31. 0.83C.M.

- 0.33

+ 1.11

32. 0.97C.M.

- 0.33

- 1.11

33. 0.83C.M.

- 0.33

- 1.11

PORTICOS RESISTENTES A MOMENTOS

D. COMBINACIONES PARA CHEQUEO A CORTANTE EN VIGAS

$$\frac{1}{R} F_x I \text{ ó } \frac{0.3}{R} F_y I$$

1. 1.20 C.M.

+ 1.60 C.V.

+ 0.74

+ 0.22

2. 1.20 C.M.

+ 1.00 C.V.

+ 0.74

- 0.22

3. 1.20 C.M.

+ 1.00 C.V.

- 0.74

+ 0.22

4. 1.20 C.M.

+ 1.00 C.V.

- 0.74

- 0.22

5. 1.20 C.M.

+ 1.00 C.V.

+ 0.22

+ 0.74

6. 1.20 C.M.

+ 1.00 C.V.

+ 0.22

- 0.74

7. 1.20 C.M.

+ 1.00 C.V.

- 0.22

+ 0.74

8. 1.20 C.M.

+ 1.00 C.V.

- 0.22

- 0.74

9. 1.20 C.M.

+ 1.00 C.V.

+ 0.74

+ 0.22

10. 0.90 C.M.

+ 0.74

- 0.22

11. 0.90 C.M.

- 0.74

+ 0.22

12. 0.90 C.M.

- 0.74

- 0.22

13. 0.90 C.M.

+ 0.22

+ 0.74

14. 0.90 C.M.

+ 0.22

- 0.74

15. 0.90 C.M.

- 0.22

+ 0.74

16. 0.90 C.M.

- 0.22

- 0.74

$$\frac{1}{R} F_y I \text{ ó } \frac{0.3}{R} F_x I$$

1. 1.20 C.M.

+ 1.60 C.V.

+ 0.74

+ 0.22

2. 1.20 C.M.

+ 1.00 C.V.

+ 0.74

- 0.22

3. 1.20 C.M.

+ 1.00 C.V.

- 0.74

+ 0.22

4. 1.20 C.M.

+ 1.00 C.V.

- 0.74

- 0.22

5. 1.20 C.M.

+ 1.00 C.V.

+ 0.22

+ 0.74

6. 1.20 C.M.

+ 1.00 C.V.

+ 0.22

- 0.74

7. 1.20 C.M.

+ 1.00 C.V.

- 0.22

+ 0.74

8. 1.20 C.M.

+ 1.00 C.V.

- 0.22

- 0.74

9. 1.20 C.M.

+ 1.00 C.V.

+ 0.74

+ 0.22

10. 0.90 C.M.

+ 0.74

- 0.22

11. 0.90 C.M.

- 0.74

+ 0.22

12. 0.90 C.M.

- 0.74

- 0.22

13. 0.90 C.M.

+ 0.22

+ 0.74

14. 0.90 C.M.

+ 0.22

- 0.74

15. 0.90 C.M.

- 0.22

+ 0.74

16. 0.90 C.M.

- 0.22

- 0.74

Sismo X= 2.00

Sismo Y= 2.00

III= 1.25

Nota:

Se tiene en cuenta la irregularidad para el efecto de la torsión.

Observaciones:

Para las combinaciones se tiene en cuenta el coeficiente de importancia correspondiente al tipo III con un valor de 1.25

PROYECTO:	FECHA:
CENTRO CRECER	1/08/2018
INGENIERO:	N.P :
IVAN MAURICIO GUEVARA	P-18-490

E. COMBINACIONES DE DISEÑO DE CIMENTACION

1.	1.00	C.M.	+	1.00	C.V.				C.M.	=	Carga Muerta
2.	1.00	C.M.				+	0.26	S.X.	C.V.	=	Carga Viva
3.	1.00	C.M.				+	0.26	S.Y.	S.X.	=	Fuerzas Sismicas Elásticas en X
4.	1.00	C.M.	+	0.75	C.V.	+	0.19	S.X.	S.Y.	=	Fuerzas Sismicas Elásticas en Y
5.	1.00	C.M.	+	0.75	C.V.	+	0.19	S.Y.			
6.	0.60	C.M.				+	0.26	S.X.	R_o	=	5.0
7.	0.60	C.M.				+	0.26	S.Y.	ϕ_p	=	0.90
8.	1.00	C.M.	+	1.00	C.V.	+	0.26	S.X.	ϕ_a	=	1.00
9.	1.00	C.M.	+	1.00	C.V.	+	0.26	S.y.	ϕ_r	=	0.75
10.	1.20	C.M.	+	1.00	C.V.	+	0.37	S.X.	R	=	$R_o \Phi_a \Phi_p \Phi_r = 3.38$
11.	1.20	C.M.	+	1.00	C.V.	+	0.37	S.Y.			

Sismo X=	1.00
Sismo Y=	1.00
III=	1.25

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.60CM+0.7SX/R
CIM7	0.60CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R

CENTRO CRECER - DATOS DE ENTRADA I

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STORY DATA

STORY	SIMILAR TO	HEIGHT	ELEVATION
NE+8.45	None	3.900	8.450
NE+4.55	NE+4.25	0.300	4.550
NE+4.25	None	0.100	4.250
NE+4.15	NE+3.15	1.000	4.150
NE+3.15	None	3.050	3.150
NE+0.10	NE+3.15	0.100	0.100
BASE	None	0.000	

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COORDINATE SYSTEM LOCATION DATA

NAME	TYPE	X	Y	ROTATION	BUBBLESIZE	VISIBLE
GLOBAL	Cartesian	0.000	0.000	0.00000	3.000	Yes

COORDINATE SYSTEM GRID DATA

SYSTEM NAME	GRID DIR	GRID ID	GRID TYPE	GRID HIDE	BUBBLE LOC	GRID COORDINATE
GLOBAL	X	1	Primary	No	Top	0.000
GLOBAL	X	2	Primary	No	Top	6.250
GLOBAL	X	3	Primary	No	Top	12.500
GLOBAL	X	4	Primary	No	Top	18.750
GLOBAL	X	5	Primary	No	Top	25.000
GLOBAL	X	6	Primary	No	Top	31.250
GLOBAL	X	7	Primary	No	Top	37.500
GLOBAL	X	8	Primary	No	Top	43.750
GLOBAL	X	9	Primary	No	Top	50.000
GLOBAL	X	10	Primary	No	Top	56.250
GLOBAL	X	10'	Primary	No	Top	58.250
GLOBAL	X	11	Primary	No	Top	62.500
GLOBAL	X	12	Primary	No	Top	68.750
GLOBAL	Y	A	Primary	No	Right	0.000
GLOBAL	Y	A'	Primary	No	Right	1.000
GLOBAL	Y	B	Primary	No	Right	8.150
GLOBAL	Y	C	Primary	No	Right	13.450
GLOBAL	Y	D	Primary	No	Right	20.900
GLOBAL	Y	E	Primary	No	Right	28.950
GLOBAL	Y	E`	Primary	No	Right	29.300
GLOBAL	Y	E`1	Primary	No	Right	30.300

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MATERIAL LIST BY ELEMENT TYPE

ELEMENT TYPE	MATERIAL	TOTAL MASS tons	NUMBER PIECES	NUMBER STUDS
Column	FC28	145.04	209	
Beam	CONC	8.65	17	0
Beam	FC28	1210.17	1021	0
Floor	FC28	393.39		

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MATERIAL LIST BY SECTION

CENTRO CRECER - DATOS DE ENTRADA I

ELEMENT SECTION	TYPE	NUMBER PIECES meters	TOTAL LENGTH tons	TOTAL MASS	NUMBER STUDS
C40X60	Column	163	186.450	107.51	
V40X60	Beam	211	1061.623	563.52	0
VT12X60	Beam	722	3008.127	520.26	0
V20X60	Beam	46	268.150	77.07	0
V15X60	Beam	12	20.500	4.43	0
C45X40	Column	2	7.800	3.37	
C60	Column	26	26.500	18.00	
V40X50	Beam	6	24.250	10.74	0
V20X50	Beam	2	12.500	3.00	0
VT12X50	Beam	17	60.030	8.65	0
V40X55	Beam	3	18.750	9.33	0
VT12X55	Beam	17	66.050	10.47	0
C4065	Column	18	24.900	16.15	
V55X60	Beam	2	15.500	11.34	0
PL25UD	Floor		25.00		
PL6	Floor		345.16		
PL6C	Floor		23.23		

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MATERIAL LIST BY STORY

ELEMENT STORY	TYPE	MATERIAL	TOTAL WEIGHT tons	FLOOR AREA m2	UNIT WEIGHT kg/m2	NUMBER PIECES	NUMBER STUDS
NE+8.45	Column	FC28	21.36	205.100	104.1634	10	
NE+8.45	Beam	FC28	109.34	205.100	533.1259	118	0
NE+8.45	Floor	FC28	29.57	205.100	144.1560		
NE+4.55	Column	FC28	5.14	401.680	12.7959	29	
NE+4.55	Beam	FC28	178.63	401.680	444.7003	152	0
NE+4.55	Floor	FC28	57.90	401.680	144.1560		
NE+4.25	Column	FC28	1.71	277.463	6.1748	29	
NE+4.25	Beam	CONC	8.65	277.463	31.1889	17	0
NE+4.25	Beam	FC28	123.95	277.463	446.7271	129	0
NE+4.25	Floor	FC28	44.73	277.463	161.2254		
NE+4.15	Column	FC28	28.15	352.500	79.8581	47	
NE+4.15	Beam	FC28	163.11	352.500	462.7158	142	0
NE+4.15	Floor	FC28	65.08	352.500	184.6253		
NE+3.15	Column	FC28	85.86	0.000	47		
NE+0.10	Column	FC28	2.81	1360.353	2.0693	47	
NE+0.10	Beam	FC28	635.14	1360.353	466.8942	480	0
NE+0.10	Floor	FC28	196.10	1360.353	144.1560		
SUM	Column	FC28	145.04	2597.095	55.8468	209	
SUM	Beam	CONC	8.65	2597.095	3.3321	17	0
SUM	Beam	FC28	1210.17	2597.095	465.9704	1021	0
SUM	Floor	FC28	393.39	2597.095	151.4725		
TOTAL	All	All	1757.25	2597.095	676.6217	1247	0

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MATERIAL PROPERTY DATA

MATERIAL NAME	MATERIAL TYPE	DESIGN TYPE	MATERIAL DIR/PLANE	MODULUS OF ELASTICITY	POISSON'S RATIO	THERMAL COEFF	SHEAR MODULUS
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CENTRO CRECER - DATOS DE ENTRADA I

STEEL	Iso	Steel	All	20389019.158	0.3000	1.1700E-05	7841930.445
CONC	Iso	Concrete	All	2531050.654	0.2000	9.9000E-06	1054604.439
OTHER	Iso	None	All	20389019.158	0.3000	1.1700E-05	7841930.445
FC28	Iso	Concrete	All	2487006.232	0.2000	9.9000E-06	1036252.597
SIN	Iso	Concrete	All	1000.000	0.2000	9.9000E-06	416.667
FC21	Iso	Concrete	All	2153810.577	0.2000	9.9000E-06	897421.074

MATERIAL PROPERTY MASS AND WEIGHT

MATERIAL NAME	MASS PER UNIT VOL	WEIGHT PER UNIT VOL
---------------	-------------------	---------------------

STEEL	7.9814E-01	7.8334E+00
CONC	2.4480E-01	2.4026E+00
OTHER	7.9814E-01	7.8334E+00
FC28	2.4480E-01	2.4026E+00
SIN	2.4480E-01	2.4026E+00
FC21	2.4480E-01	2.4026E+00

MATERIAL DESIGN DATA FOR STEEL MATERIALS

MATERIAL NAME	STEEL FY	STEEL FU	STEEL COST (\$)
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STEEL	35153.481	45699.526	27679.91
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MATERIAL DESIGN DATA FOR CONCRETE MATERIALS

MATERIAL NAME	LIGHTWEIGHT CONCRETE	CONCRETE FC	REBAR FY	REBAR REDUC FYS	LIGHTWT
---------------	----------------------	-------------	----------	-----------------	---------

CONC	No	2812.279	42184.178	42184.178	N/A
FC28	No	2800.000	42184.178	42184.178	N/A
SIN	No	2800.000	42184.178	42184.178	N/A
FC21	No	2100.000	42184.178	42184.178	N/A

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FRAME SECTION PROPERTY DATA

FRAME SECTION NAME	MATERIAL NAME	SECTION SHAPE	NAME OR NAME IN SECTION DATABASE	CONC COL	CONC BEAM
--------------------	---------------	---------------	----------------------------------	----------	-----------

C40X60	FC28	Rectangular	Yes		
V40X60	FC28	Rectangular		Yes	
VT12X60	FC28	Rectangular		Yes	
V20X60	FC28	Rectangular		Yes	
CORREA	STEEL	Channel			
V15X60	FC28	Rectangular		Yes	
C45X40	FC28	Rectangular	Yes		
C60	FC28	Circle	Yes		
V40X50	FC28	Rectangular		Yes	
V20X50	FC28	Rectangular		Yes	
VT12X50	CONC	Rectangular		Yes	
V40X55	FC28	Rectangular		Yes	
VT12X55	FC28	Rectangular		Yes	
C4065	FC28	Rectangular	Yes		
V55X60	FC28	Rectangular		Yes	

FRAME SECTION PROPERTY DATA

SECTION	FLANGE	FLANGE	WEB	FLANGE	FLANGE
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CENTRO CRECER - DATOS DE ENTRADA I

FRAME SECTION NAME	DEPTH	WIDTH TOP	THICK TOP	THICK	WIDTH BOT	THICK BOT
C40X60	0.4000	0.6000	0.0000	0.0000	0.0000	0.0000
V40X60	0.6000	0.4000	0.0000	0.0000	0.0000	0.0000
VT12X60	0.6000	0.1200	0.0000	0.0000	0.0000	0.0000
V20X60	0.6000	0.2000	0.0000	0.0000	0.0000	0.0000
CORREA	0.2032	0.0508	0.0020	0.0020	0.0000	0.0000
V15X60	0.6000	0.1500	0.0000	0.0000	0.0000	0.0000
C45X40	0.4000	0.4500	0.0000	0.0000	0.0000	0.0000
C60	0.6000	0.6000	0.0000	0.0000	0.6000	0.0000
V40X50	0.5000	0.4000	0.0000	0.0000	0.0000	0.0000
V20X50	0.5000	0.2000	0.0000	0.0000	0.0000	0.0000
VT12X50	0.5000	0.1200	0.0000	0.0000	0.0000	0.0000
V40X55	0.5500	0.4000	0.0000	0.0000	0.0000	0.0000
VT12X55	0.5500	0.1200	0.0000	0.0000	0.0000	0.0000
C4065	0.4500	0.6000	0.0000	0.0000	0.0000	0.0000
V55X60	0.6000	0.5500	0.0000	0.0000	0.0000	0.0000

FRAME SECTION PROPERTY DATA

FRAME SECTION NAME	SECTION AREA	TORSIONAL CONSTANT	MOMENTS OF INERTIA			SHEAR AREAS	
			I33	I22		A2	A3
C40X60	0.2400	0.0075	0.0032	0.0072	0.2000	0.2000	
V40X60	0.2400	0.0075	0.0072	0.0032	0.2000	0.2000	
VT12X60	0.0720	0.0003	0.0022	0.0001	0.0600	0.0600	
V20X60	0.1200	0.0013	0.0036	0.0004	0.1000	0.1000	
CORREA	0.0006	0.0000	0.0000	0.0000	0.0004	0.0002	
V15X60	0.0900	0.0006	0.0027	0.0002	0.0750	0.0750	
C45X40	0.1800	0.0045	0.0024	0.0030	0.1500	0.1500	
C60	0.2827	0.0127	0.0064	0.0064	0.2545	0.2545	
V40X50	0.2000	0.0055	0.0042	0.0027	0.1667	0.1667	
V20X50	0.1000	0.0010	0.0021	0.0003	0.0833	0.0833	
VT12X50	0.0600	0.0002	0.0013	0.0001	0.0500	0.0500	
V40X55	0.2200	0.0065	0.0055	0.0029	0.1833	0.1833	
VT12X55	0.0660	0.0003	0.0017	0.0001	0.0550	0.0550	
C4065	0.2700	0.0098	0.0046	0.0081	0.2250	0.2250	
V55X60	0.3300	0.0152	0.0099	0.0083	0.2750	0.2750	

FRAME SECTION PROPERTY DATA

FRAME SECTION NAME	SECTION MODULI		PLASTIC MODULI		RADIUS OF GYRATION	
	S33	S22	Z33	Z22	R33	R22
C40X60	0.0160	0.0240	0.0240	0.0360	0.1155	0.1732
V40X60	0.0240	0.0160	0.0360	0.0240	0.1732	0.1155
VT12X60	0.0072	0.0014	0.0108	0.0022	0.1732	0.0346
V20X60	0.0120	0.0040	0.0180	0.0060	0.1732	0.0577
CORREA	0.0000	0.0000	0.0000	0.0000	0.0750	0.0144
V15X60	0.0090	0.0023	0.0135	0.0034	0.1732	0.0433
C45X40	0.0120	0.0135	0.0180	0.0203	0.1155	0.1299
C60	0.0212	0.0212	0.0360	0.0360	0.1500	0.1500
V40X50	0.0167	0.0133	0.0250	0.0200	0.1443	0.1155
V20X50	0.0083	0.0033	0.0125	0.0050	0.1443	0.0577
VT12X50	0.0050	0.0012	0.0075	0.0018	0.1443	0.0346
V40X55	0.0202	0.0147	0.0303	0.0220	0.1588	0.1155
VT12X55	0.0061	0.0013	0.0091	0.0020	0.1588	0.0346
C4065	0.0203	0.0270	0.0304	0.0405	0.1299	0.1732
V55X60	0.0330	0.0303	0.0495	0.0454	0.1732	0.1588

FRAME SECTION WEIGHTS AND MASSES

FRAME SECTION NAME	TOTAL WEIGHT	TOTAL MASS
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CENTRO CRECER - DATOS DE ENTRADA I

C40X60	107.5115	10.9543
V40X60	563.5161	57.4164
VT12X60	520.2637	53.0095
V20X60	77.0730	7.8529
CORREA	0.0000	0.0000
V15X60	4.4328	0.4517
C45X40	3.3733	0.3437
C60	18.0020	1.8342
V40X50	10.7396	1.0943
V20X50	3.0033	0.3060
VT12X50	8.6537	0.8817
V40X55	9.3293	0.9506
VT12X55	10.4737	1.0672
C4065	16.1527	1.6458
V55X60	11.3379	1.1552

CONCRETE COLUMN DATA

FRAME SECTION NAME	REINF CONFIGURATION LONGIT	REINF LATERAL	NUM BARS SIZE/TYPE	NUM BARS 3DIR/2DIR	BAR CIRCULAR	COVER
C40X60	Rectangular Ties	#9/Design	3/3	N/A	0.0300	
C45X40	Rectangular Ties	#9/Design	3/3	N/A	0.0450	
C60	Circular Ties	#9/Design	N/A	8	0.0600	
C4065	Rectangular Ties	#9/Design	3/3	N/A	0.0450	

CONCRETE BEAM DATA

FRAME SECTION NAME	TOP COVER	BOT COVER	TOP LEFT COVER	TOP RIGHT AREA	BOT LEFT AREA	BOT RIGHT AREA	AREA
V40X60	0.0600	0.0600	0.000	0.000	0.000	0.000	
VT12X60	0.0600	0.0600	0.000	0.000	0.000	0.000	
V20X60	0.0600	0.0600	0.000	0.000	0.000	0.000	
V15X60	0.0600	0.0600	0.000	0.000	0.000	0.000	
V40X50	0.0500	0.0500	0.000	0.000	0.000	0.000	
V20X50	0.0500	0.0500	0.000	0.000	0.000	0.000	
VT12X50	0.0500	0.0500	0.000	0.000	0.000	0.000	
V40X55	0.0550	0.0550	0.000	0.000	0.000	0.000	
VT12X55	0.0550	0.0550	0.000	0.000	0.000	0.000	
V55X60	0.0600	0.0600	0.000	0.000	0.000	0.000	

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SHELL SECTION PROPERTY DATA

SHELL SECTION	MATERIAL NAME	SHELL TYPE	LOAD DIST ONE WAY	MEMBRANE THICK	BENDING THICK	TOTAL WEIGHT	TOTAL MASS
WALL1	CONC	Shell-Thin	No	0.2500	0.2500	0.0000	0.0000
SLAB1	CONC	Shell-Thin	No	0.2500	0.2500	0.0000	0.0000
DECK1	CONC	Membrane	No	0.0889	0.0889	0.0000	0.0000
PLANK1	CONC	Membrane	Yes	0.2500	0.2500	0.0000	0.0000
M30	FC28	Shell-Thin	No	0.3000	0.3000	0.0000	0.0000
PL25UD	FC28	Shell-Thin	Yes	0.2500	0.2500	25.0021	2.5475
PL15UD	FC28	Shell-Thin	Yes	0.1500	0.1500	0.0000	0.0000
MC30	FC21	Shell-Thin	No	0.3000	0.3000	0.0000	0.0000
PL6	FC28	Membrane	No	0.0600	0.0600	345.1556	35.1678
PL30	FC28	Shell-Thin	No	0.3000	0.3000	0.0000	0.0000
PL6C	FC28	Membrane	Yes	0.0600	0.0600	23.2307	2.3670
PL6BI	FC28	Membrane	Yes	0.0600	0.0600	0.0000	0.0000
CTA	STEEL	Membrane	Yes	0.0050	0.0050	0.0000	0.0000

CENTRO CRECER - DATOS DE ENTRADA I

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S T A T I C L O A D C A S E S

STATIC CASE	CASE TYPE	AUTO LAT LOAD	SELF WT MULTIPLIER	NOTIONAL FACTOR	NOTIONAL DIRECTION
-------------	-----------	---------------	--------------------	-----------------	--------------------

PP	DEAD	N/A	1.0000		
CV	LIVE	N/A	0.0000		
CA	DEAD	N/A	0.0000		

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R E S P O N S E S P E C T R U M C A S E S

RESP SPEC CASE: SX

BASIC RESPONSE SPECTRUM DATA

MODAL COMBO	DIRECTION COMBO	MODAL DAMPING	SPECTRUM ANGLE	TYPICAL ECCEN
-------------	-----------------	---------------	----------------	---------------

CQC	SRSS	0.0500	0.0000	0.0500
-----	------	--------	--------	--------

RESPONSE SPECTRUM FUNCTION ASSIGNMENT DATA

DIRECTION	FUNCTION	SCALE FACT
-----------	----------	------------

U1	ESPDIS	10.5100
U2	----	N/A
UZ	----	N/A

RESP SPEC CASE: SY

BASIC RESPONSE SPECTRUM DATA

MODAL COMBO	DIRECTION COMBO	MODAL DAMPING	SPECTRUM ANGLE	TYPICAL ECCEN
-------------	-----------------	---------------	----------------	---------------

CQC	SRSS	0.0500	0.0000	0.0500
-----	------	--------	--------	--------

RESPONSE SPECTRUM FUNCTION ASSIGNMENT DATA

DIRECTION	FUNCTION	SCALE FACT
-----------	----------	------------

U1	----	N/A
U2	ESPDIS	10.0900
UZ	----	N/A

RESP SPEC CASE: SXUD

BASIC RESPONSE SPECTRUM DATA

MODAL COMBO	DIRECTION COMBO	MODAL DAMPING	SPECTRUM ANGLE	TYPICAL ECCEN
-------------	-----------------	---------------	----------------	---------------

CQC	SRSS	0.0200	0.0000	0.0500
-----	------	--------	--------	--------

RESPONSE SPECTRUM FUNCTION ASSIGNMENT DATA

DIRECTION	FUNCTION	SCALE FACT
-----------	----------	------------

CENTRO CRECER - DATOS DE ENTRADA I

U1	ESPDANO	14.9900
U2	----	N/A
UZ	----	N/A

RESP SPEC CASE: SYDU

BASIC RESPONSE SPECTRUM DATA

MODAL COMBO	DIRECTION COMBO	MODAL DAMPING	SPECTRUM ANGLE	TYPICAL ECCEN
CQC	SRSS	0.0200	0.0000	0.0500

RESPONSE SPECTRUM FUNCTION ASSIGNMENT DATA

DIRECTION	FUNCTION	SCALE FACT
U1	----	N/A
U2	ESPDANO	15.1100
UZ	----	N/A

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LOADING COMBINATIONS

COMBO	COMBO	CASE	CASE	SCALE	SCALE
COMBO	TYPE	CASE	TYPE	FACTOR	FACTOR
CM	ADD	PP	Static	1.0000	
	CA		Static	1.0000	
DER1	ADD	CM	Combo	1.2000	
	CV		Static	1.6000	
DER2	ADD	CM	Combo	1.2000	
	CV		Static	1.0000	
	SX		Spectra	1.0000	
DER3	ADD	CM	Combo	1.2000	
	CV		Static	1.0000	
	SX		Spectra	-1.0000	
DER4	ADD	CM	Combo	1.2000	
	CV		Static	1.0000	
	SY		Spectra	1.0000	
DER5	ADD	CM	Combo	1.2000	
	CV		Static	1.0000	
	SY		Spectra	-1.0000	
DER6	ADD	CM	Combo	0.9000	
	SX		Spectra	1.0000	
DER7	ADD	CM	Combo	0.9000	
	SX		Spectra	-1.0000	
DER8	ADD	CM	Combo	0.9000	
	SY		Spectra	1.0000	
DER9	ADD	CM	Combo	0.9000	
	SY		Spectra	-1.0000	
DERUD1	ADD	CM	Combo	1.2000	
	CV		Static	1.6000	
DERUD2	ADD	CM	Combo	1.2000	
	CV		Static	1.0000	
	SXUD		Spectra	1.0000	
DERUD3	ADD	CM	Combo	1.2000	
	CV		Static	1.0000	
	SXUD		Spectra	-1.0000	
DERUD4	ADD	CM	Combo	1.2000	
	CV		Static	1.0000	
	SYDU		Spectra	1.0000	
DERUD5	ADD	CM	Combo	1.2000	

CENTRO CRECER - DATOS DE ENTRADA I

	CV	Static	1.0000	
	SYDU	Spectra	-1.0000	
DERUD6	ADD	CM	Combo	0.9000
	SXUD	Spectra	1.0000	
DERUD7	ADD	CM	Combo	0.9000
	SXUD	Spectra	-1.0000	
DERUD8	ADD	CM	Combo	0.9000
	SYDU	Spectra	1.0000	
DERUD9	ADD	CM	Combo	0.9000
	SYDU	Spectra	-1.0000	
COMB1	ADD	CM	Combo	1.2000
	CV	Static	1.6000	
COMB2	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.3700	
	SY	Spectra	0.1100	
COMB3	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.3700	
	SY	Spectra	-0.1100	
COMB4	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.3700	
	SY	Spectra	0.1100	
COMB5	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.3700	
	SY	Spectra	-0.1100	
COMB6	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.1100	
	SY	Spectra	0.3700	
COMB7	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.1100	
	SY	Spectra	-0.3700	
COMB8	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.1100	
	SY	Spectra	0.3700	
COMB9	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.1100	
	SY	Spectra	-0.3700	
COMB10	ADD	CM	Combo	0.9000
	SX	Spectra	0.3700	
	SY	Spectra	0.1100	
COMB11	ADD	CM	Combo	0.9000
	SX	Spectra	0.3700	
	SY	Spectra	-0.1100	
COMB12	ADD	CM	Combo	0.9000
	SX	Spectra	-0.3700	
	SY	Spectra	0.1100	
COMB13	ADD	CM	Combo	0.9000
	SX	Spectra	-0.3700	
	SY	Spectra	-0.1100	
COMB14	ADD	CM	Combo	0.9000
	SX	Spectra	0.1100	
	SY	Spectra	0.3700	
COMB15	ADD	CM	Combo	0.9000
	SX	Spectra	0.1100	
	SY	Spectra	-0.3700	
COMB16	ADD	CM	Combo	0.9000
	SX	Spectra	-0.1100	
	SY	Spectra	0.3700	
COMB17	ADD	CM	Combo	0.9000
	SX	Spectra	-0.1100	

CENTRO CRECER - DATOS DE ENTRADA I

	SY	Spectra	-0.3700	
COMV1	ADD	CM	Combo	1.2000
	CV	Static	1.6000	
COMV2	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.7400	
	SY	Spectra	0.2200	
COMV3	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.7400	
	SY	Spectra	-0.2200	
COMV4	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.7400	
	SY	Spectra	0.2200	
COMV5	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.7400	
	SY	Spectra	-0.2200	
COMV6	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.2200	
	SY	Spectra	0.7400	
COMV7	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	0.2200	
	SY	Spectra	-0.7400	
COMV8	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.2200	
	SY	Spectra	0.7400	
COMV9	ADD	CM	Combo	1.2000
	CV	Static	1.0000	
	SX	Spectra	-0.2200	
	SY	Spectra	-0.7400	
COMV10	ADD	CM	Combo	0.9000
	SX	Spectra	0.7400	
	SY	Spectra	0.2200	
COMV11	ADD	CM	Combo	0.9000
	SX	Spectra	0.7400	
	SY	Spectra	-0.2200	
COMV12	ADD	CM	Combo	0.9000
	SX	Spectra	-0.7400	
	SY	Spectra	0.2200	
COMV13	ADD	CM	Combo	0.9000
	SX	Spectra	-0.7400	
	SY	Spectra	-0.2200	
COMV14	ADD	CM	Combo	0.9000
	SX	Spectra	0.2200	
	SY	Spectra	0.7400	
COMV15	ADD	CM	Combo	0.9000
	SX	Spectra	0.2200	
	SY	Spectra	-0.7400	
COMV16	ADD	CM	Combo	0.9000
	SX	Spectra	-0.2200	
	SY	Spectra	0.7400	
COMV17	ADD	CM	Combo	0.9000
	SX	Spectra	-0.2200	
	SY	Spectra	-0.7400	
COMC1	ADD	CM	Combo	1.2000
	CV	Static	1.6000	
COMC2	ADD	CM	Combo	1.2700
	CV	Static	1.0000	
	SX	Spectra	1.1100	
	SY	Spectra	0.3300	
COMC4	ADD	CM	Combo	1.2700
	CV	Static	1.0000	

CENTRO CRECER - DATOS DE ENTRADA I

	SX	Spectra	1.1100	
	SY	Spectra	-0.3300	
COMC6	ADD	CM	Combo	1.2700
	CV	Static	1.0000	
	SX	Spectra	-1.1100	
	SY	Spectra	0.3300	
COMC8	ADD	CM	Combo	1.2700
	CV	Static	1.0000	
	SX	Spectra	-1.1100	
	SY	Spectra	-0.3300	
COMC10	ADD	CM	Combo	1.2700
	CV	Static	1.0000	
	SX	Spectra	0.3300	
	SY	Spectra	1.1100	
COMC12	ADD	CM	Combo	1.2700
	CV	Static	1.0000	
	SX	Spectra	0.3300	
	SY	Spectra	-1.1100	
COMC14	ADD	CM	Combo	1.2700
	CV	Static	1.0000	
	SX	Spectra	-0.3300	
	SY	Spectra	1.1100	
COMC16	ADD	CM	Combo	1.2700
	CV	Static	1.0000	
	SX	Spectra	-0.3300	
	SY	Spectra	-1.1100	
COMC18	ADD	CM	Combo	0.9700
	SX	Spectra	1.1100	
	SY	Spectra	0.3300	
COMC20	ADD	CM	Combo	0.9700
	SX	Spectra	1.1100	
	SY	Spectra	-0.3300	
COMC22	ADD	CM	Combo	0.9700
	SX	Spectra	-1.1100	
	SY	Spectra	0.3300	
COMC24	ADD	CM	Combo	0.9700
	SX	Spectra	-1.1100	
	SY	Spectra	-0.3300	
COMC26	ADD	CM	Combo	0.9700
	SX	Spectra	0.3300	
	SY	Spectra	1.1100	
COMC28	ADD	CM	Combo	0.9700
	SX	Spectra	0.3300	
	SY	Spectra	-1.1100	
COMC30	ADD	CM	Combo	0.9700
	SX	Spectra	-0.3300	
	SY	Spectra	1.1100	
COMC32	ADD	CM	Combo	0.9700
	SX	Spectra	-0.3300	
	SY	Spectra	-1.1100	
COMC3	ADD	CM	Combo	1.1300
	CV	Static	1.0000	
	SX	Spectra	1.1100	
	SY	Spectra	0.3300	
COMC5	ADD	CM	Combo	1.1300
	CV	Static	1.0000	
	SX	Spectra	1.1100	
	SY	Spectra	-0.3300	
COMC7	ADD	CM	Combo	1.1300
	CV	Static	1.0000	
	SX	Spectra	-1.1100	
	SY	Spectra	0.3300	
COMC9	ADD	CM	Combo	1.1300
	CV	Static	1.0000	
	SX	Spectra	-1.1100	
	SY	Spectra	-0.3300	
COMC11	ADD	CM	Combo	1.1300

CENTRO CRECER - DATOS DE ENTRADA I

	CV	Static	1.0000	
	SX	Spectra	0.3300	
	SY	Spectra	1.1100	
COMC13	ADD	CM	Combo	1.1300
	CV	Static	1.0000	
	SX	Spectra	0.3300	
	SY	Spectra	-1.1100	
COMC15	ADD	CM	Combo	1.1300
	CV	Static	1.0000	
	SX	Spectra	-0.3300	
	SY	Spectra	1.1100	
COMC17	ADD	CM	Combo	1.1300
	CV	Static	1.0000	
	SX	Spectra	-0.3300	
	SY	Spectra	-1.1100	
COMC19	ADD	CM	Combo	0.8300
	SX	Spectra	1.1100	
	SY	Spectra	0.3300	
COMC21	ADD	CM	Combo	0.8300
	SX	Spectra	1.1100	
	SY	Spectra	-0.3300	
COMC23	ADD	CM	Combo	0.8300
	SX	Spectra	-1.1100	
	SY	Spectra	0.3300	
COMC25	ADD	CM	Combo	0.8300
	SX	Spectra	-1.1100	
	SY	Spectra	-0.3300	
COMC27	ADD	CM	Combo	0.8300
	SX	Spectra	0.3300	
	SY	Spectra	1.1100	
COMC29	ADD	CM	Combo	0.8300
	SX	Spectra	0.3300	
	SY	Spectra	-1.1100	
COMC31	ADD	CM	Combo	0.8300
	SX	Spectra	-0.3300	
	SY	Spectra	1.1100	
COMC33	ADD	CM	Combo	0.8300
	SX	Spectra	-0.3300	
	SY	Spectra	-1.1100	
ENVV	ENVE	COMV1	Combo	1.0000
	COMV2	Combo	1.0000	
	COMV3	Combo	1.0000	
	COMV4	Combo	1.0000	
	COMV5	Combo	1.0000	
	COMV6	Combo	1.0000	
	COMV7	Combo	1.0000	
	COMV8	Combo	1.0000	
	COMV9	Combo	1.0000	
	COMV10	Combo	1.0000	
	COMV11	Combo	1.0000	
	COMV12	Combo	1.0000	
	COMV13	Combo	1.0000	
	COMV14	Combo	1.0000	
	COMV15	Combo	1.0000	
	COMV16	Combo	1.0000	
	COMV17	Combo	1.0000	
ENVC	ENVE	COMC1	Combo	1.0000
	COMC2	Combo	1.0000	
	COMC4	Combo	1.0000	
	COMC6	Combo	1.0000	
	COMC8	Combo	1.0000	
	COMC10	Combo	1.0000	
	COMC12	Combo	1.0000	
	COMC14	Combo	1.0000	
	COMC16	Combo	1.0000	
	COMC18	Combo	1.0000	
	COMC20	Combo	1.0000	

CENTRO CRECER - DATOS DE ENTRADA I

	COMC22	Combo	1.0000
	COMC24	Combo	1.0000
	COMC26	Combo	1.0000
	COMC28	Combo	1.0000
	COMC30	Combo	1.0000
	COMC32	Combo	1.0000
	COMC3	Combo	1.0000
	COMC5	Combo	1.0000
	COMC7	Combo	1.0000
	COMC9	Combo	1.0000
	COMC11	Combo	1.0000
	COMC13	Combo	1.0000
	COMC15	Combo	1.0000
	COMC17	Combo	1.0000
	COMC19	Combo	1.0000
	COMC21	Combo	1.0000
	COMC23	Combo	1.0000
	COMC25	Combo	1.0000
	COMC27	Combo	1.0000
	COMC29	Combo	1.0000
	COMC31	Combo	1.0000
	COMC33	Combo	1.0000
CIM1	ADD	CM	Combo 1.0000
	CV	Static	1.0000
CIM2	ADD	CM	Combo 1.0000
	SX	Spectra	0.2600
CIM3	ADD	CM	Combo 1.0000
	SY	Spectra	0.2600
CIM4	ADD	CM	Combo 1.0000
	CV	Static	0.7500
	SX	Spectra	0.1900
CIM5	ADD	CM	Combo 1.0000
	CV	Static	0.7500
	SY	Spectra	0.1900
COMB18	ADD	CM	Combo 1.4000
CIM6	ADD	CM	Combo 0.6000
	SX	Spectra	0.2600
CIM7	ADD	CM	Combo 0.6000
	SY	Spectra	0.2600
CIM8	ADD	CM	Combo 1.0000
	CV	Static	1.0000
	SX	Spectra	0.2600
CIM9	ADD	CM	Combo 1.0000
	CV	Static	1.0000
	SY	Spectra	0.2600
CIM10	ADD	CM	Combo 1.2000
	CV	Static	1.0000
	SX	Spectra	0.3700
CIM11	ADD	CM	Combo 1.2000
	CV	Static	1.0000
	SY	Spectra	0.3700

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RESPONSE SPECTRUM FUNCTION - USER

FUNCTION NAME: ESPDIS

PERIOD ACCEL

0.0000	0.3563
0.0786	0.3563
0.1572	0.3563
0.2358	0.3563
0.3144	0.3563
0.3930	0.3563
0.4716	0.3563

CENTRO CRECER - DATOS DE ENTRADA I

0.5502	0.3563
0.6288	0.3563
0.7074	0.3563
0.7860	0.3563
0.8646	0.3563
0.9432	0.3563
1.0218	0.3563
1.1004	0.3563
1.1789	0.3563
1.2575	0.3563
1.3361	0.3563
1.4147	0.3563
1.4820	0.3401
1.5493	0.3253
1.6165	0.3118
1.6838	0.2993
1.7511	0.2878
1.8183	0.2772
1.8856	0.2673
1.9529	0.2581
2.0201	0.2495
2.0874	0.2414
2.1547	0.2339
2.2219	0.2268
2.2892	0.2202
2.3565	0.2139
2.4237	0.2079
2.4910	0.2023
2.5583	0.1970
2.6255	0.1920
2.6928	0.1872
2.7601	0.1826
2.8273	0.1783
2.8946	0.1741
2.9619	0.1702
3.0291	0.1664
3.0964	0.1628
3.1637	0.1593
3.2309	0.1560
3.2982	0.1528
3.3655	0.1498
3.4327	0.1468
3.5000	0.1440
7.3750	0.0324
11.2500	0.0139
15.1250	0.0077
19.0000	0.0049
22.8750	0.0034
26.7500	0.0025
30.6250	0.0019
34.5000	0.0015
38.3750	0.0012
42.2500	0.0010
46.1250	0.0008
50.0000	0.0007

FUNCTION NAME: ESPDANO

PERIOD	ACCEL
0.0000	0.0700
0.0439	0.0913
0.0879	0.1127
0.1318	0.1340
0.1758	0.1553
0.2197	0.1767

CENTRO CRECER - DATOS DE ENTRADA I

0.2636	0.1980
0.3095	0.1980
0.3553	0.1980
0.4012	0.1980
0.4470	0.1980
0.4929	0.1980
0.5387	0.1980
0.5846	0.1980
0.6304	0.1980
0.6763	0.1980
0.7221	0.1980
0.7680	0.1980
0.8138	0.1980
0.8597	0.1980
0.9055	0.1980
0.9514	0.1980
0.9972	0.1980
1.0431	0.1980
1.0889	0.1980
1.1348	0.1980
1.1806	0.1980
1.2265	0.1980
1.2723	0.1980
1.3182	0.1980
1.4273	0.1829
1.5364	0.1699
1.6455	0.1586
1.7545	0.1488
1.8636	0.1400
1.9727	0.1323
2.0818	0.1254
2.1909	0.1191
2.3000	0.1135
2.4091	0.1083
2.5182	0.1036
2.6273	0.0993
2.7364	0.0954
2.8455	0.0917
2.9545	0.0883
3.0636	0.0852
3.1727	0.0823
3.2818	0.0795
3.3909	0.0770
3.5000	0.0746
7.0000	0.0186
8.0000	0.0143
9.0000	0.0113
10.0000	0.0091
12.0000	0.0063
15.0000	0.0041
30.0000	0.0010
35.0000	0.0007
40.0000	0.0006
50.0000	0.0004

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POINT FORCE ASSIGNMENTS TO POINT OBJECTS

CASE	STORY	POINT	FX	FY	FZ	MX	MY	MZ
CV	NE+3.15	1696	0.00	0.00	-2.69	0.000	0.000	0.000
CV	NE+3.15	1697	0.00	0.00	-3.63	0.000	0.000	0.000
CV	NE+3.15	1711	0.00	0.00	-1.81	0.000	0.000	0.000
CV	NE+3.15	1714	0.00	0.00	-2.69	0.000	0.000	0.000
CV	NE+3.15	1715	0.00	0.00	-3.63	0.000	0.000	0.000
CV	NE+3.15	2856	0.00	0.00	-3.13	0.000	0.000	0.000

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CENTRO CRECER - DATOS DE ENTRADA I

CV	NE+3.15	2881	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	2882	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	2883	0.00	0.00	-3.13	0.000	0.000	0.000
CV	NE+3.15	2959	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	2960	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	3045	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	3046	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	3047	0.00	0.00	-3.13	0.000	0.000	0.000
CV	NE+3.15	3288	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	3289	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	3302	0.00	0.00	-3.46	0.000	0.000	0.000
CV	NE+3.15	3303	0.00	0.00	-2.70	0.000	0.000	0.000
CV	NE+3.15	3304	0.00	0.00	-2.70	0.000	0.000	0.000
CA	NE+3.15	1696	0.00	0.00	-4.48	0.000	0.000	0.000
CA	NE+3.15	1697	0.00	0.00	-6.05	0.000	0.000	0.000
CA	NE+3.15	1711	0.00	0.00	-3.02	0.000	0.000	0.000
CA	NE+3.15	1714	0.00	0.00	-4.48	0.000	0.000	0.000
CA	NE+3.15	1715	0.00	0.00	-6.05	0.000	0.000	0.000
CA	NE+3.15	2856	0.00	0.00	-5.22	0.000	0.000	0.000
CA	NE+3.15	2881	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	2882	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	2883	0.00	0.00	-5.22	0.000	0.000	0.000
CA	NE+3.15	2959	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	2960	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	3045	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	3046	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	3047	0.00	0.00	-5.22	0.000	0.000	0.000
CA	NE+3.15	3288	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	3289	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	3302	0.00	0.00	-5.76	0.000	0.000	0.000
CA	NE+3.15	3303	0.00	0.00	-4.50	0.000	0.000	0.000
CA	NE+3.15	3304	0.00	0.00	-4.50	0.000	0.000	0.000

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DISTRIBUTED LOAD ASSIGNMENTS TO LINE OBJECTS

LOAD CASE	STORY LEVEL	LINE ID	LOAD TYPE	LOAD DIRECTION	ABSOLUTE DISTANCE A	ABSOLUTE DISTANCE B	LOAD A PER LENGTH	LOAD B PER LENGTH
CV	NE+4.55	B3053	Force	Gravity	0.000	6.250	0.189	0.189
CV	NE+4.55	B3054	Force	Gravity	0.000	6.250	0.189	0.189
CV	NE+4.55	B3055	Force	Gravity	0.000	6.250	0.189	0.189
CV	NE+4.55	B3056	Force	Gravity	0.000	6.250	0.189	0.189
CV	NE+4.55	B3057	Force	Gravity	0.000	6.250	0.189	0.189
CV	NE+4.55	B3064	Force	Gravity	0.000	8.050	0.333	0.333
CV	NE+4.55	B3070	Force	Gravity	0.000	7.450	0.333	0.333
CV	NE+4.25	B2486	Force	Gravity	0.000	5.138	0.570	0.570
CV	NE+0.10	B2486	Force	Gravity	0.000	5.138	0.570	0.570
CA	NE+8.45	B1638	Force	Gravity	0.000	6.250	0.048	0.048
CA	NE+8.45	B1664	Force	Gravity	0.000	7.150	0.048	0.048
CA	NE+8.45	B1700	Force	Gravity	0.000	5.300	0.048	0.048
CA	NE+8.45	B1701	Force	Gravity	0.000	7.450	0.048	0.048
CA	NE+8.45	B1706	Force	Gravity	0.000	5.300	0.048	0.048
CA	NE+8.45	B1707	Force	Gravity	0.000	7.450	0.048	0.048
CA	NE+8.45	B1989	Force	Gravity	0.000	0.750	0.048	0.048
CA	NE+8.45	B1994	Force	Gravity	0.000	7.150	0.048	0.048
CA	NE+8.45	B2444	Force	Gravity	0.000	8.400	0.048	0.048
CA	NE+8.45	B2446	Force	Gravity	0.000	8.400	0.048	0.048
CA	NE+8.45	B2479	Force	Gravity	0.000	6.250	0.048	0.048
CA	NE+8.45	B2482	Force	Gravity	0.000	1.000	0.048	0.048
CA	NE+8.45	B2483	Force	Gravity	0.000	1.000	0.048	0.048
CA	NE+4.55	B2966	Force	Gravity	0.000	6.250	0.048	0.048
CA	NE+4.55	B2967	Force	Gravity	0.000	6.250	0.048	0.048
CA	NE+4.55	B2968	Force	Gravity	0.000	6.250	0.048	0.048
CA	NE+4.55	B3053	Force	Gravity	0.000	6.250	0.678	0.678
CA	NE+4.55	B3054	Force	Gravity	0.000	6.250	0.678	0.678

CENTRO CRECER - DATOS DE ENTRADA I

CA	NE+4.55	B3055	Force	Gravity	0.000	6.250	0.678	0.678
CA	NE+4.55	B3056	Force	Gravity	0.000	6.250	0.678	0.678
CA	NE+4.55	B3057	Force	Gravity	0.000	6.250	0.678	0.678
CA	NE+4.55	B3058	Force	Gravity	0.000	8.050	0.048	0.048
CA	NE+4.55	B3060	Force	Gravity	0.000	6.250	0.480	0.480
CA	NE+4.55	B3061	Force	Gravity	0.000	6.250	0.480	0.480
CA	NE+4.55	B3064	Force	Gravity	0.000	8.050	1.158	1.158
CA	NE+4.55	B3069	Force	Gravity	0.000	7.450	0.048	0.048
CA	NE+4.55	B3070	Force	Gravity	0.000	7.450	1.158	1.158
CA	NE+4.55	B3072	Force	Gravity	0.000	7.450	0.048	0.048
CA	NE+4.55	B3193	Force	Gravity	0.000	7.450	0.288	0.288
CA	NE+4.55	B3194	Force	Gravity	0.000	1.400	0.048	0.048
CA	NE+4.25	B1659	Force	Gravity	0.000	2.200	0.100	0.100
CA	NE+4.25	B1660	Force	Gravity	0.000	7.150	0.100	0.100
CA	NE+4.25	B1663	Force	Gravity	0.000	2.200	0.100	0.100
CA	NE+4.25	B1664	Force	Gravity	0.000	7.150	0.100	0.100
CA	NE+4.25	B1700	Force	Gravity	0.000	5.300	0.100	0.100
CA	NE+4.25	B1701	Force	Gravity	0.000	7.450	0.100	0.100
CA	NE+4.25	B2486	Force	Gravity	0.000	5.138	0.540	0.540
CA	NE+4.25	B2495	Force	Gravity	0.000	1.000	0.100	0.100
CA	NE+4.25	B2496	Force	Gravity	0.000	5.250	0.100	0.100
CA	NE+4.25	B2588	Force	Gravity	0.000	6.250	0.100	0.100
CA	NE+4.25	B2604	Force	Gravity	0.000	6.250	0.100	0.100
CA	NE+4.15	B2723	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2724	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2725	Force	Gravity	0.000	8.150	0.036	0.036
CA	NE+4.15	B2726	Force	Gravity	0.000	8.150	0.100	0.100
CA	NE+4.15	B2727	Force	Gravity	0.000	8.150	0.036	0.036
CA	NE+4.15	B2728	Force	Gravity	0.000	1.250	0.036	0.036
CA	NE+4.15	B2729	Force	Gravity	0.000	1.250	0.100	0.100
CA	NE+4.15	B2730	Force	Gravity	0.000	1.250	0.036	0.036
CA	NE+4.15	B2743	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2744	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2767	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2768	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2769	Force	Gravity	0.000	8.150	0.036	0.036
CA	NE+4.15	B2770	Force	Gravity	0.000	8.150	0.100	0.100
CA	NE+4.15	B2771	Force	Gravity	0.000	8.150	0.036	0.036
CA	NE+4.15	B2772	Force	Gravity	0.000	1.250	0.036	0.036
CA	NE+4.15	B2773	Force	Gravity	0.000	1.250	0.100	0.100
CA	NE+4.15	B2774	Force	Gravity	0.000	1.250	0.036	0.036
CA	NE+4.15	B2787	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2788	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2811	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2812	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2813	Force	Gravity	0.000	8.150	0.036	0.036
CA	NE+4.15	B2815	Force	Gravity	0.000	8.150	0.036	0.036
CA	NE+4.15	B2816	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2817	Force	Gravity	0.000	6.250	0.036	0.036
CA	NE+4.15	B2818	Force	Gravity	0.000	1.250	0.036	0.036
CA	NE+4.15	B2820	Force	Gravity	0.000	1.250	0.036	0.036
CA	NE+0.10	B2486	Force	Gravity	0.000	5.138	0.540	0.540

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UNIFORM LOAD ASSIGNMENTS TO AREA OBJECTS

CASE	STORY	AREA	AREATYPE	DIRECTION	LOAD
CV	NE+8.45	F347	Floor	Gravity	0.1800
CV	NE+4.55	F422	Floor	Gravity	0.5000
CV	NE+4.55	F423	Floor	Gravity	0.1800
CV	NE+4.25	F334	Floor	Gravity	0.5000
CV	NE+4.25	F348	Floor	Gravity	0.5000
CV	NE+4.25	F350	Floor	Gravity	0.2000
CV	NE+4.25	F352	Floor	Gravity	0.5000
CV	NE+4.25	F354	Floor	Gravity	0.5000

CENTRO CRECER - DATOS DE ENTRADA I

CV	NE+4.25	F355	Floor	Gravity	0.5000
CV	NE+4.15	F372	Floor	Gravity	0.5000
CV	NE+4.15	F373	Floor	Gravity	0.5000
CV	NE+4.15	F376	Floor	Gravity	0.5000
CV	NE+4.15	F377	Floor	Gravity	0.5000
CV	NE+4.15	F380	Floor	Gravity	0.5000
CV	NE+4.15	F381	Floor	Gravity	0.5000
CV	NE+4.15	F384	Floor	Gravity	0.5000
CV	NE+4.15	F385	Floor	Gravity	0.5000
CV	NE+4.15	F386	Floor	Gravity	0.1800
CV	NE+4.15	F387	Floor	Gravity	0.1800
CV	NE+4.15	F388	Floor	Gravity	0.1800
CV	NE+4.15	F389	Floor	Gravity	0.1800
CV	NE+0.10	F358	Floor	Gravity	0.2000
CV	NE+0.10	F360	Floor	Gravity	0.2000
CV	NE+0.10	F361	Floor	Gravity	0.5000
CV	NE+0.10	F366	Floor	Gravity	0.5000
CV	NE+0.10	F367	Floor	Gravity	0.5000
CV	NE+0.10	F368	Floor	Gravity	0.5000
CV	NE+0.10	F369	Floor	Gravity	0.5000
CV	NE+0.10	F397	Floor	Gravity	0.5000
CV	NE+0.10	F398	Floor	Gravity	0.5000
CV	NE+0.10	F399	Floor	Gravity	0.5000
CV	NE+0.10	F400	Floor	Gravity	0.2000
CV	NE+0.10	F401	Floor	Gravity	0.2000
CV	NE+0.10	F402	Floor	Gravity	0.5000
CV	NE+0.10	F403	Floor	Gravity	0.2000
CV	NE+0.10	F424	Floor	Gravity	0.5000
CA	NE+8.45	F347	Floor	Gravity	0.2560
CA	NE+4.55	F422	Floor	Gravity	0.2950
CA	NE+4.55	F423	Floor	Gravity	0.2950
CA	NE+4.25	F334	Floor	Gravity	0.2560
CA	NE+4.25	F348	Floor	Gravity	0.2560
CA	NE+4.25	F350	Floor	Gravity	0.7649
CA	NE+4.25	F352	Floor	Gravity	0.2560
CA	NE+4.25	F354	Floor	Gravity	0.1100
CA	NE+4.25	F355	Floor	Gravity	0.1100
CA	NE+4.15	F372	Floor	Gravity	0.2560
CA	NE+4.15	F373	Floor	Gravity	0.2560
CA	NE+4.15	F376	Floor	Gravity	0.1100
CA	NE+4.15	F377	Floor	Gravity	0.1100
CA	NE+4.15	F380	Floor	Gravity	0.2560
CA	NE+4.15	F381	Floor	Gravity	0.2560
CA	NE+4.15	F384	Floor	Gravity	0.1100
CA	NE+4.15	F385	Floor	Gravity	0.1100
CA	NE+4.15	F386	Floor	Gravity	0.1100
CA	NE+4.15	F387	Floor	Gravity	0.2560
CA	NE+4.15	F388	Floor	Gravity	0.1100
CA	NE+4.15	F389	Floor	Gravity	0.2560
CA	NE+0.10	F358	Floor	Gravity	0.5890
CA	NE+0.10	F360	Floor	Gravity	0.5890
CA	NE+0.10	F361	Floor	Gravity	0.2300
CA	NE+0.10	F366	Floor	Gravity	0.1100
CA	NE+0.10	F367	Floor	Gravity	0.5890
CA	NE+0.10	F368	Floor	Gravity	0.5890
CA	NE+0.10	F369	Floor	Gravity	0.2300
CA	NE+0.10	F397	Floor	Gravity	0.2300
CA	NE+0.10	F398	Floor	Gravity	0.1100
CA	NE+0.10	F399	Floor	Gravity	0.1100
CA	NE+0.10	F400	Floor	Gravity	0.5710
CA	NE+0.10	F401	Floor	Gravity	0.5710
CA	NE+0.10	F402	Floor	Gravity	0.8630
CA	NE+0.10	F403	Floor	Gravity	0.8630
CA	NE+0.10	F424	Floor	Gravity	1.0400

CENTRO CRECER - DATOS DE ENTRADA II

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MODAL PERIODS AND FREQUENCIES

MODE NUMBER	PERIOD (TIME)	FREQUENCY (CYCLES/TIME)	CIRCULAR FREQ (RADIAN/TIME)
Mode 1	0.46532	2.14907	13.50303
Mode 2	0.41979	2.38212	14.96730
Mode 3	0.36078	2.77180	17.41574
Mode 4	0.30695	3.25782	20.46946
Mode 5	0.25647	3.89905	24.49848
Mode 6	0.25575	3.91006	24.56765
Mode 7	0.24709	4.04703	25.42825
Mode 8	0.24704	4.04791	25.43376
Mode 9	0.24358	4.10542	25.79509
Mode 10	0.20306	4.92477	30.94326
Mode 11	0.20305	4.92501	30.94472
Mode 12	0.20179	4.95574	31.13782
Mode 13	0.18779	5.32510	33.45859
Mode 14	0.18296	5.46575	34.34230
Mode 15	0.18152	5.50915	34.61501
Mode 16	0.18149	5.50995	34.62006
Mode 17	0.17731	5.63995	35.43687
Mode 18	0.13149	7.60531	47.78554
Mode 19	0.04373	22.86726	143.67921
Mode 20	0.03995	25.03155	157.27786
Mode 21	0.03845	26.00868	163.41734
Mode 22	0.03775	26.49250	166.45726
Mode 23	0.03498	28.59143	179.64524
Mode 24	0.03237	30.89398	194.11260
Mode 25	0.03234	30.92167	194.28660
Mode 26	0.03125	32.00315	201.08172
Mode 27	0.03078	32.48576	204.11405
Mode 28	0.02971	33.65332	211.45002
Mode 29	0.02970	33.67017	211.55593
Mode 30	0.02931	34.12219	214.39606
Mode 31	0.02909	34.37346	215.97485
Mode 32	0.02894	34.55025	217.08562
Mode 33	0.02870	34.84438	218.93372
Mode 34	0.02868	34.87158	219.10462
Mode 35	0.02807	35.62538	223.84087
Mode 36	0.02807	35.62991	223.86934
Mode 37	0.02733	36.58578	229.87524
Mode 38	0.02666	37.51081	235.68735
Mode 39	0.02666	37.51594	235.71961
Mode 40	0.02511	39.82694	250.24004
Mode 41	0.02476	40.39411	253.80370
Mode 42	0.02409	41.50807	260.80290
Mode 43	0.02358	42.40256	266.42312
Mode 44	0.02329	42.93580	269.77358
Mode 45	0.02329	42.93925	269.79525
Mode 46	0.02267	44.10293	277.10690
Mode 47	0.02240	44.63944	280.47786
Mode 48	0.02240	44.64167	280.49191
Mode 49	0.02224	44.96425	282.51871
Mode 50	0.02213	45.19335	283.95819
Mode 51	0.02190	45.65737	286.87371
Mode 52	0.02190	45.66160	286.90029
Mode 53	0.02155	46.40701	291.58387
Mode 54	0.02140	46.73265	293.62990
Mode 55	0.02132	46.91445	294.77216
Mode 56	0.02131	46.92100	294.81335
Mode 57	0.01807	55.33635	347.68854
Mode 58	0.01772	56.43641	354.60045
Mode 59	0.01768	56.56876	355.43198

CENTRO CRECER - DATOS DE ENTRADA II

Mode 60	0.01706	58.61441	368.28519
Mode 61	0.01656	60.39033	379.44361
Mode 62	0.01639	61.01943	383.39641
Mode 63	0.01625	61.55041	386.73262
Mode 64	0.01596	62.65797	393.69164
Mode 65	0.01547	64.64827	406.19709
Mode 66	0.01537	65.08264	408.92631
Mode 67	0.01510	66.22007	416.07295
Mode 68	0.01488	67.20828	422.28208
Mode 69	0.01413	70.76886	444.65385
Mode 70	0.01404	71.20899	447.41927
Mode 71	0.01400	71.43575	448.84408
Mode 72	0.01393	71.78261	451.02343
Mode 73	0.01390	71.92475	451.91652
Mode 74	0.01388	72.05225	452.71762
Mode 75	0.01373	72.81863	457.53296
Mode 76	0.01370	73.00575	458.70866
Mode 77	0.01362	73.42911	461.36867
Mode 78	0.01358	73.64894	462.74994
Mode 79	0.01358	73.64894	462.74996
Mode 80	0.01347	74.22373	466.36148
Mode 81	0.01338	74.75624	469.70733
Mode 82	0.01324	75.51088	474.44883
Mode 83	0.01305	76.64172	481.55410
Mode 84	0.01302	76.78345	482.44461
Mode 85	0.01302	76.78344	482.44460
Mode 86	0.01299	76.97175	483.62777
Mode 87	0.01298	77.04926	484.11478
Mode 88	0.01289	77.59302	487.53131
Mode 89	0.01260	79.37767	498.74461
Mode 90	0.01254	79.76961	501.20723
Mode 91	0.01246	80.28690	504.45747
Mode 92	0.01211	82.56863	518.79402
Mode 93	0.01176	85.03425	534.28596
Mode 94	0.01173	85.24015	535.57968
Mode 95	0.01172	85.30728	536.00144
Mode 96	0.01172	85.30728	536.00147
Mode 97	0.01161	86.15738	541.34276
Mode 98	0.01142	87.58657	550.32265
Mode 99	0.01060	94.30479	592.53450
Mode 100	0.01059	94.43976	593.38249
Mode 101	0.01051	95.16709	597.95245
Mode 102	0.01051	95.16710	597.95252
Mode 103	0.01050	95.23998	598.41045
Mode 104	0.01039	96.22767	604.61630
Mode 105	0.01034	96.68124	607.46618
Mode 106	0.01032	96.94615	609.13065
Mode 107	0.01029	97.21834	610.84087
Mode 108	0.01029	97.21835	610.84088
Mode 109	0.01017	98.33542	617.85968
Mode 110	0.01010	99.04738	622.33303
Mode 111	0.01010	99.04738	622.33306
Mode 112	0.00977	102.34845	643.07430
Mode 113	0.00916	109.21198	686.19910
Mode 114	0.00908	110.08762	691.70090
Mode 115	0.00908	110.08762	691.70093
Mode 116	0.00908	110.08762	691.70094
Mode 117	0.00908	110.08762	691.70090
Mode 118	0.00861	116.19162	730.05348
Mode 119	0.00861	116.19162	730.05349
Mode 120	0.00861	116.19163	730.05352
Mode 121	0.00845	118.30200	743.31336
Mode 122	0.00845	118.30199	743.31332
Mode 123	0.00774	129.20088	811.79309
Mode 124	0.00774	129.22900	811.96975
Mode 125	0.00774	129.22901	811.96979
Mode 126	0.00774	129.22901	811.96981

CENTRO CRECER - DATOS DE ENTRADA II

Mode 127	0.00774	129.22903	811.96994
Mode 128	0.00768	130.13214	817.64433
Mode 129	0.00768	130.13214	817.64435
Mode 130	0.00768	130.13215	817.64443
Mode 131	0.00744	134.48680	845.00551
Mode 132	0.00741	134.95452	847.94427
Mode 133	0.00741	134.95453	847.94430
Mode 134	0.00741	134.95454	847.94440
Mode 135	0.00741	134.95453	847.94433
Mode 136	0.00724	138.15739	868.06848
Mode 137	0.00724	138.15739	868.06849
Mode 138	0.00724	138.15739	868.06849
Mode 139	0.00712	140.39124	882.10417
Mode 140	0.00712	140.39125	882.10423
Mode 141	0.00712	140.39123	882.10412
Mode 142	0.00712	140.39120	882.10395
Mode 143	0.00704	142.03350	892.42282
Mode 144	0.00704	142.03351	892.42285
Mode 145	0.00683	146.33734	919.46462
Mode 146	0.00683	146.33734	919.46460
Mode 147	0.00666	150.16787	943.53257
Mode 148	0.00665	150.39854	944.98190
Mode 149	0.00665	150.39855	944.98197
Mode 150	0.00665	150.39854	944.98189
Mode 151	0.00665	150.39855	944.98198
Mode 152	0.00654	152.84377	960.34576
Mode 153	0.00654	152.95430	961.04020
Mode 154	0.00650	153.76862	966.15672
Mode 155	0.00650	153.76863	966.15677
Mode 156	0.00650	153.76862	966.15676
Mode 157	0.00618	161.88174	1017.13294
Mode 158	0.00611	163.74290	1028.82697
Mode 159	0.00611	163.74286	1028.82675
Mode 160	0.00608	164.44979	1033.26849
Mode 161	0.00608	164.59980	1034.21106
Mode 162	0.00608	164.59982	1034.21118
Mode 163	0.00608	164.59983	1034.21125
Mode 164	0.00608	164.59985	1034.21137
Mode 165	0.00598	167.21423	1050.63797
Mode 166	0.00594	168.36423	1057.86365
Mode 167	0.00594	168.40247	1058.10390
Mode 168	0.00594	168.40256	1058.10447
Mode 169	0.00594	168.40254	1058.10434
Mode 170	0.00593	168.55387	1059.05520
Mode 171	0.00593	168.55389	1059.05533
Mode 172	0.00593	168.55389	1059.05534
Mode 173	0.00593	168.55390	1059.05537
Mode 174	0.00584	171.13097	1075.24759
Mode 175	0.00582	171.68687	1078.74042
Mode 176	0.00582	171.68692	1078.74076
Mode 177	0.00582	171.68699	1078.74115
Mode 178	0.00582	171.68691	1078.74064
Mode 179	0.00580	172.38149	1083.10483
Mode 180	0.00576	173.66130	1091.14613
Mode 181	0.00576	173.66131	1091.14619
Mode 182	0.00576	173.66132	1091.14628
Mode 183	0.00576	173.66125	1091.14579
Mode 184	0.00575	174.01600	1093.37480
Mode 185	0.00575	174.01606	1093.37513
Mode 186	0.00575	174.01612	1093.37554
Mode 187	0.00560	178.70722	1122.85061
Mode 188	0.00560	178.70715	1122.85015
Mode 189	0.00542	184.63459	1160.09337
Mode 190	0.00539	185.39290	1164.85793
Mode 191	0.00538	185.94797	1168.34558
Mode 192	0.00538	185.94801	1168.34580
Mode 193	0.00534	187.43938	1177.71639

CENTRO CRECER - DATOS DE ENTRADA II

Mode 194	0.00533	187.52033	1178.22496
Mode 195	0.00533	187.52036	1178.22517
Mode 196	0.00533	187.52038	1178.22531
Mode 197	0.00533	187.52040	1178.22541
Mode 198	0.00530	188.67458	1185.47736
Mode 199	0.00524	190.66703	1197.99626
Mode 200	0.00524	190.66712	1197.99687

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MODAL PARTICIPATION FACTORS

MODE	UX	UY	UZ	RX	RY	RZ
Mode 1	-1.4120	6.6186	0.0000	-42.8653	-8.5453	153.7244
Mode 2	-6.6857	-1.8601	0.0000	11.8103	-42.3771	-64.0284
Mode 3	-1.9341	1.5747	0.0000	-9.5298	-14.1045	102.8669
Mode 4	6.4865	-0.0110	0.0000	0.0487	28.7486	-52.8738
Mode 5	-3.3744	-0.0147	0.0000	0.0654	-13.4797	-32.4172
Mode 6	-0.0170	-6.1109	0.0000	27.1374	0.0141	48.0414
Mode 7	-0.4647	0.0025	0.0000	-0.0120	-1.8666	-4.8485
Mode 8	-4.8743	-0.0064	0.0000	0.0224	-19.5534	-49.6886
Mode 9	-0.0345	2.1259	0.0000	-9.4164	0.1134	-97.3038
Mode 10	0.0180	-4.9409	0.0000	19.8147	0.0661	0.5784
Mode 11	0.0014	-0.0830	0.0000	0.3323	0.0051	-46.5063
Mode 12	-0.0229	3.2828	0.0000	-13.1438	-0.0318	-87.4343
Mode 13	0.2163	-2.6146	0.0000	0.4418	0.0395	-68.3739
Mode 14	-0.0961	-0.7592	0.0000	3.0334	-0.1266	39.0390
Mode 15	0.0824	0.0084	0.0000	-0.0332	0.2808	-3.3085
Mode 16	0.6854	0.0724	0.0000	-0.3149	2.4002	-21.5096
Mode 17	1.9983	0.3103	0.0000	-0.3297	0.0391	23.3176
Mode 18	1.4814	-0.0659	0.0000	0.3783	-0.5921	-18.7252
Mode 19	-0.1155	-0.0210	0.0000	0.0441	0.0477	0.6355
Mode 20	0.1459	0.0055	0.0000	-0.0100	0.0559	-0.2829
Mode 21	-0.0153	0.0101	0.0000	-0.0197	-0.0234	0.0288
Mode 22	0.2318	-0.0086	0.0000	0.0224	-0.0796	-0.0674
Mode 23	0.3502	0.0153	0.0000	-0.0061	-0.2241	-0.9381
Mode 24	0.0005	-0.0089	0.0000	0.0176	-0.0004	-0.2386
Mode 25	-0.0418	0.2682	0.0000	-0.1064	0.0272	-7.3335
Mode 26	-0.1097	-0.0088	0.0000	0.0116	-0.0023	-0.5546
Mode 27	0.0033	0.1932	0.0000	0.1994	0.0051	5.4471
Mode 28	0.0488	-0.0084	0.0000	0.0159	0.0288	0.5935
Mode 29	-0.0035	-0.2953	0.0000	0.1437	-0.0020	1.9829
Mode 30	0.0116	0.1450	0.0000	-0.0657	-0.0089	0.5067
Mode 31	0.1259	0.0026	0.0000	-0.0083	-0.0346	0.8581
Mode 32	0.0043	-0.2730	0.0000	0.0875	0.0036	5.4472
Mode 33	0.0162	0.2223	0.0000	-0.0672	-0.0099	0.7386
Mode 34	-0.0072	-0.0040	0.0000	0.0165	-0.0262	-0.1281
Mode 35	0.0803	0.0078	0.0000	-0.0089	0.0229	0.7289
Mode 36	0.1529	0.0153	0.0000	-0.0172	0.0441	1.0454
Mode 37	0.0045	-0.2016	0.0000	-0.1945	0.0188	-4.8431
Mode 38	-0.0825	0.0162	0.0000	-0.0250	-0.0655	-0.6153
Mode 39	-0.0005	0.0003	0.0000	-0.0003	-0.0008	-0.1571
Mode 40	-0.1839	-0.0357	0.0000	0.0029	0.2166	-0.7815
Mode 41	-0.1459	0.0001	0.0000	0.0077	-0.0502	-0.0626
Mode 42	-0.1207	0.0026	0.0000	0.0105	0.0324	-0.7176
Mode 43	0.0717	-0.1888	0.0000	0.0301	-0.0859	5.0736
Mode 44	-0.0987	-0.1003	0.0000	0.0258	0.0795	-2.8062
Mode 45	0.1384	0.1407	0.0000	-0.0370	-0.1113	1.1479
Mode 46	-0.0187	0.1762	0.0000	-0.0272	0.0235	-4.7275
Mode 47	-0.1537	0.1705	0.0000	-0.0483	0.1248	-2.2632
Mode 48	-0.1209	0.1332	0.0000	-0.0380	0.0983	0.7961
Mode 49	0.0622	0.1563	0.0000	-0.0232	-0.0744	-5.1593
Mode 50	0.0080	-0.1902	0.0000	0.1004	-0.0029	-6.4178
Mode 51	0.0381	-0.2248	0.0000	0.0640	-0.0315	-2.0363
Mode 52	-0.0378	0.2249	0.0000	-0.0648	0.0313	-2.1770
Mode 53	0.2644	0.0012	0.0000	0.0075	0.1033	0.4499

CENTRO CRECER - DATOS DE ENTRADA II

Mode 54	-0.1474	-0.0045	0.0000	-0.0205	-0.0420	-1.2929
Mode 55	-0.1080	-0.0958	0.0000	0.0273	0.0911	1.5322
Mode 56	0.1456	0.1294	0.0000	-0.0376	-0.1213	0.4788
Mode 57	0.0773	-0.0065	0.0000	0.0132	0.0199	-0.8207
Mode 58	0.0986	0.0035	0.0000	-0.0066	-0.0241	-1.3467
Mode 59	0.0238	-0.0007	0.0000	-0.0022	0.0137	0.0883
Mode 60	-0.0251	0.0017	0.0000	-0.0026	0.0359	0.2869
Mode 61	0.0698	-0.0015	0.0000	0.0004	-0.0845	-0.4373
Mode 62	0.0544	0.0018	0.0000	-0.0024	-0.0247	-0.4903
Mode 63	-0.0673	-0.0021	0.0000	0.0028	0.0589	0.5018
Mode 64	0.1578	0.0005	0.0000	0.0007	-0.1272	-2.3567
Mode 65	0.0010	-0.0670	0.0000	0.0831	-0.0012	0.0625
Mode 66	0.0006	0.0835	0.0000	-0.0138	-0.0011	-1.1102
Mode 67	-0.0773	0.0047	0.0000	-0.0061	-0.0018	-0.7558
Mode 68	0.0424	-0.0020	0.0000	0.0016	0.0510	-0.2262
Mode 69	-0.0154	-0.0663	0.0000	-0.0723	0.0043	0.2211
Mode 70	0.0201	0.1338	0.0000	0.0034	-0.0042	-0.6445
Mode 71	-0.0899	0.0441	0.0000	0.0025	0.0204	1.2870
Mode 72	-0.1738	0.0080	0.0000	-0.0009	0.0525	1.6578
Mode 73	-0.0233	0.0000	0.0000	-0.0092	-0.0188	-0.3125
Mode 74	-0.0141	-0.1229	0.0000	0.0993	0.0050	3.0665
Mode 75	-0.1621	-0.0038	0.0000	0.0008	0.0309	1.1599
Mode 76	-0.0060	0.1388	0.0000	-0.0781	0.0022	-1.7743
Mode 77	0.0018	0.0147	0.0000	-0.0167	-0.0011	0.0306
Mode 78	-0.0849	-0.0001	0.0000	0.0000	0.0013	-1.0766
Mode 79	-0.0019	0.0002	0.0000	0.0000	0.0000	-0.0245
Mode 80	-0.0600	0.0002	0.0000	0.0007	0.0043	-0.7638
Mode 81	-0.0008	-0.0841	0.0000	0.0155	0.0007	1.3313
Mode 82	-0.0004	0.0483	0.0000	0.1044	-0.0015	1.2510
Mode 83	-0.0010	0.1615	0.0000	-0.0029	0.0024	0.3365
Mode 84	0.0000	-0.0121	0.0000	0.0153	0.0000	-0.0278
Mode 85	0.0000	-0.0033	0.0000	0.0042	0.0000	0.1122
Mode 86	0.0021	-0.0067	0.0000	0.0094	-0.0007	0.2156
Mode 87	0.0013	0.0022	0.0000	-0.0013	-0.0135	0.0354
Mode 88	0.1116	-0.0094	0.0000	0.0139	-0.0553	1.0387
Mode 89	-0.0020	-0.1174	0.0000	0.0049	0.0015	4.0273
Mode 90	0.0000	-0.1416	0.0000	0.0007	0.0009	1.4397
Mode 91	-0.0008	-0.1650	0.0000	-0.0072	0.0004	3.2549
Mode 92	0.0015	-0.1576	0.0000	0.0509	-0.0006	-4.0810
Mode 93	-0.0132	0.0001	0.0000	-0.0019	-0.0103	-0.0443
Mode 94	0.1002	-0.0015	0.0000	0.0019	-0.1111	1.3037
Mode 95	-0.0168	0.0000	0.0000	0.0000	0.0186	-0.2147
Mode 96	-0.1422	0.0000	0.0000	0.0000	0.1572	-1.8088
Mode 97	-0.0110	-0.1277	0.0000	0.0718	0.0072	-4.3036
Mode 98	0.0012	-0.0134	0.0000	-0.0010	0.0003	-0.3633
Mode 99	0.0696	-0.0963	0.0000	0.0441	0.0194	-3.4992
Mode 100	0.0855	0.0781	0.0000	-0.0352	0.0065	0.4870
Mode 101	0.0000	-0.1630	0.0000	0.0479	0.0000	-1.7137
Mode 102	-0.0003	0.1825	0.0000	-0.0537	0.0000	-1.4954
Mode 103	-0.0006	-0.1727	0.0000	0.0493	0.0016	4.8738
Mode 104	-0.0038	0.0062	0.0000	-0.0038	0.0070	0.5679
Mode 105	-0.0092	-0.0038	0.0000	0.0011	0.0151	-0.8794
Mode 106	0.0065	0.0027	0.0000	-0.0013	0.0014	-0.0109
Mode 107	0.0082	-0.0010	0.0000	0.0003	-0.0136	1.1795
Mode 108	-0.0046	0.0006	0.0000	-0.0002	0.0076	-0.6447
Mode 109	0.0011	-0.0025	0.0000	0.0011	-0.0025	0.0966
Mode 110	0.0000	0.0114	0.0000	-0.0011	0.0000	0.0682
Mode 111	0.0000	0.0076	0.0000	-0.0007	0.0000	-0.1043
Mode 112	-0.1148	0.0007	0.0000	-0.0006	-0.0413	0.8786
Mode 113	0.0000	1.8831	0.0000	-0.1883	0.0000	-46.9365
Mode 114	0.0000	-1.1227	0.0000	0.1123	0.0000	27.7123
Mode 115	0.0000	2.9620	0.0000	-0.2962	0.0000	-12.9018
Mode 116	0.0000	-1.7338	0.0000	0.1734	0.0000	23.0826
Mode 117	0.0000	-1.0775	0.0000	0.1078	0.0000	21.5205
Mode 118	0.0001	0.6913	0.0000	-0.0691	0.0000	22.8745
Mode 119	0.0000	2.5133	0.0000	-0.2513	0.0000	-38.6509
Mode 120	0.0002	1.7204	0.0000	-0.1720	0.0000	-11.5445

CENTRO CRECER - DATOS DE ENTRADA II

Mode 121	-0.0003	-1.9140	0.0000	0.1914	0.0000	58.6877
Mode 122	0.0004	-1.5735	0.0000	0.1574	0.0000	38.1960
Mode 123	-1.8548	0.0003	0.0000	0.0000	-0.1855	20.8662
Mode 124	0.5543	0.0000	0.0000	0.0000	0.0554	-6.2437
Mode 125	1.8798	0.0000	0.0000	0.0000	0.1880	-21.2184
Mode 126	-0.9079	-0.0004	0.0000	0.0000	-0.0908	10.2340
Mode 127	3.0079	-0.0003	0.0000	0.0000	0.3008	-33.9468
Mode 128	-1.1778	0.0000	0.0000	0.0000	-0.1178	4.2507
Mode 129	1.9213	-0.0003	0.0000	0.0000	0.1921	-6.9400
Mode 130	2.1311	0.0000	0.0000	0.0000	0.2131	-7.6845
Mode 131	-0.0393	-0.0395	0.0000	0.0039	-0.0039	5.5800
Mode 132	0.0336	-0.0003	0.0000	0.0000	0.0034	-4.1950
Mode 133	0.0166	-0.0003	0.0000	0.0000	0.0017	-2.0921
Mode 134	0.0629	0.0000	0.0000	0.0000	0.0063	-7.7918
Mode 135	-0.0130	0.0001	0.0000	0.0000	-0.0013	1.6096
Mode 136	0.0006	0.0002	0.0000	0.0000	0.0000	-1.1435
Mode 137	0.0000	0.0000	0.0000	0.0000	0.0000	5.9291
Mode 138	-0.0003	0.0005	0.0000	0.0000	0.0000	3.0455
Mode 139	-0.0001	0.3936	0.0000	-0.0394	0.0000	7.0504
Mode 140	0.0000	2.8778	0.0000	-0.2878	0.0000	-0.6179
Mode 141	0.0012	0.0739	0.0000	-0.0074	0.0001	27.8105
Mode 142	0.0002	-0.5252	0.0000	0.0525	0.0000	5.1937
Mode 143	-2.4387	0.0003	0.0000	0.0000	-0.2439	-23.1441
Mode 144	-0.2379	0.0000	0.0000	0.0000	-0.0238	-2.2467
Mode 145	0.0001	0.0002	0.0000	0.0000	0.0000	0.7181
Mode 146	-0.0007	0.0009	0.0000	0.0000	0.0000	5.4629
Mode 147	-0.0164	-0.0131	0.0000	0.0013	-0.0016	-0.7792
Mode 148	-0.0040	-0.0002	0.0000	0.0000	-0.0004	-0.2314
Mode 149	0.0082	-0.0004	0.0000	0.0000	0.0008	0.5213
Mode 150	0.0151	0.0004	0.0000	0.0000	0.0015	0.9301
Mode 151	-0.0278	-0.0013	0.0000	0.0001	-0.0028	-1.7063
Mode 152	-0.0003	0.0009	0.0000	-0.0024	0.0003	-0.0129
Mode 153	-0.0004	-1.5053	0.0000	0.1505	0.0000	-47.1036
Mode 154	0.0000	0.0002	0.0000	0.0000	0.0000	0.9653
Mode 155	0.0005	-0.0010	0.0000	0.0000	0.0000	0.9330
Mode 156	0.0003	0.0006	0.0000	0.0000	0.0000	-0.2955
Mode 157	-0.0002	0.0039	0.0000	0.0115	-0.0006	0.0745
Mode 158	-0.0008	0.0006	0.0000	0.0000	0.0000	1.4627
Mode 159	-0.0008	-0.0003	0.0000	0.0000	0.0000	1.3372
Mode 160	0.6325	-0.0020	0.0000	0.0002	0.0633	-7.2144
Mode 161	0.9025	0.0000	0.0000	0.0000	0.0902	-10.3054
Mode 162	0.2185	-0.0008	0.0000	0.0000	0.0219	-2.5157
Mode 163	-0.3559	-0.0016	0.0000	0.0002	-0.0356	4.0894
Mode 164	0.7618	0.0009	0.0000	0.0000	0.0762	-8.7023
Mode 165	-0.2069	-1.3440	0.0000	0.1344	-0.0207	-36.3153
Mode 166	-1.5133	0.0784	0.0000	-0.0078	-0.1513	-11.7170
Mode 167	0.7375	0.0002	0.0000	0.0000	0.0738	-2.6608
Mode 168	-0.0726	-0.0001	0.0000	0.0000	-0.0073	0.3529
Mode 169	-0.6346	0.0010	0.0000	0.0000	-0.0635	2.2634
Mode 170	-0.0651	-0.0004	0.0000	0.0000	-0.0065	-0.6201
Mode 171	-2.8871	0.0003	0.0000	0.0000	-0.2887	-27.4097
Mode 172	0.4279	0.0001	0.0000	0.0000	0.0428	4.0545
Mode 173	0.0629	-0.0012	0.0000	0.0001	0.0063	0.5647
Mode 174	0.0009	0.4899	0.0000	-0.0490	0.0000	-12.2524
Mode 175	0.0009	-0.7528	0.0000	0.0753	0.0000	3.9407
Mode 176	-0.0002	0.0403	0.0000	-0.0040	0.0000	3.7577
Mode 177	0.0007	0.3254	0.0000	-0.0325	0.0000	-6.9480
Mode 178	-0.0026	0.5379	0.0000	-0.0538	-0.0003	-7.1798
Mode 179	-0.0002	1.2505	0.0000	-0.1251	0.0000	32.5445
Mode 180	0.0001	0.0002	0.0000	0.0000	0.0000	0.4987
Mode 181	0.0011	0.0000	0.0000	0.0000	0.0001	-3.1633
Mode 182	0.0021	-0.0003	0.0000	0.0000	0.0002	3.5583
Mode 183	-0.0004	0.0004	0.0000	0.0000	0.0000	4.4555
Mode 184	-0.0049	-0.1457	0.0000	0.0146	-0.0005	6.3558
Mode 185	0.0019	0.6643	0.0000	-0.0664	0.0002	-10.3359
Mode 186	0.0004	-0.4590	0.0000	0.0459	0.0000	-1.7175
Mode 187	0.8328	-0.0004	0.0000	0.0000	0.0833	7.8946

CENTRO CRECER - DATOS DE ENTRADA II

Mode 188	-0.0112	0.0007	0.0000	0.0000	-0.0011	-0.0721
Mode 189	-0.0006	0.0005	0.0000	0.0012	0.0048	-0.0255
Mode 190	-0.0040	0.0002	0.0000	0.0000	-0.0004	3.4220
Mode 191	0.0004	0.6037	0.0000	-0.0604	0.0000	-17.6526
Mode 192	0.0000	0.2213	0.0000	-0.0221	0.0000	-4.3340
Mode 193	0.0304	-0.0025	0.0000	0.0002	0.0030	-1.7300
Mode 194	0.0074	0.0002	0.0000	0.0000	0.0007	-0.4533
Mode 195	-0.0072	0.0002	0.0000	0.0000	-0.0007	0.4543
Mode 196	0.0544	0.0002	0.0000	0.0000	0.0054	-3.2775
Mode 197	0.0215	-0.0010	0.0000	0.0000	0.0022	-1.3626
Mode 198	-0.0066	0.0068	0.0000	-0.0007	-0.0007	-0.0983
Mode 199	0.0003	-0.0043	0.0000	0.0004	0.0000	0.1197
Mode 200	-0.0002	-0.0114	0.0000	0.0011	0.0000	0.0858

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MODAL PARTICIPATING MASS RATIOS

MODE NUMBER	X-TRANS %MASS <SUM>	Y-TRANS %MASS <SUM>	Z-TRANS %MASS <SUM>	RX-ROTN %MASS <SUM>	RY-ROTN %MASS <SUM>	RZ-ROTN %MASS <SUM>	%MASS <SUM>
Mode 1	0.96 < 1>	21.06 < 21>	0.00 < 0>	52.97 < 53>	2.10 < 2>	21.70 < 22>	
Mode 2	21.48 < 22>	1.66 < 23>	0.00 < 0>	4.02 < 57>	51.77 < 54>	3.76 < 25>	
Mode 3	1.80 < 24>	1.19 < 24>	0.00 < 0>	2.62 < 60>	5.73 < 60>	9.72 < 35>	
Mode 4	20.22 < 44>	0.00 < 24>	0.00 < 0>	0.00 < 60>	23.82 < 83>	2.57 < 38>	
Mode 5	5.47 < 50>	0.00 < 24>	0.00 < 0>	0.00 < 60>	5.24 < 89>	0.96 < 39>	
Mode 6	0.00 < 50>	17.95 < 42>	0.00 < 0>	21.23 < 81>	0.00 < 89>	2.12 < 41>	
Mode 7	0.10 < 50>	0.00 < 42>	0.00 < 0>	0.00 < 81>	0.10 < 89>	0.02 < 41>	
Mode 8	11.42 < 61>	0.00 < 42>	0.00 < 0>	0.00 < 81>	11.02 < 100>	2.27 < 43>	
Mode 9	0.00 < 61>	2.17 < 44>	0.00 < 0>	2.56 < 83>	0.00 < 100>	8.69 < 52>	
Mode 10	0.00 < 61>	11.73 < 56>	0.00 < 0>	11.32 < 95>	0.00 < 100>	0.00 < 52>	
Mode 11	0.00 < 61>	0.00 < 56>	0.00 < 0>	0.00 < 95>	0.00 < 100>	1.99 < 54>	
Mode 12	0.00 < 61>	5.18 < 61>	0.00 < 0>	4.98 < 100>	0.00 < 100>	7.02 < 61>	
Mode 13	0.02 < 61>	3.29 < 64>	0.00 < 0>	0.01 < 100>	0.00 < 100>	4.29 < 65>	
Mode 14	0.00 < 61>	0.28 < 65>	0.00 < 0>	0.27 < 100>	0.00 < 100>	1.40 < 67>	
Mode 15	0.00 < 61>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.01 < 67>	
Mode 16	0.23 < 62>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.17 < 100>	0.42 < 67>	
Mode 17	1.92 < 64>	0.05 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.50 < 67>	
Mode 18	1.05 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.01 < 100>	0.32 < 68>	
Mode 19	0.01 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 20	0.01 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 21	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 22	0.03 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 23	0.06 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 24	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 25	0.00 < 65>	0.03 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.05 < 68>	
Mode 26	0.01 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 27	0.00 < 65>	0.02 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.03 < 68>	
Mode 28	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 29	0.00 < 65>	0.04 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 30	0.00 < 65>	0.01 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 31	0.01 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 32	0.00 < 65>	0.04 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.03 < 68>	
Mode 33	0.00 < 65>	0.02 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 34	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 35	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 36	0.01 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 37	0.00 < 65>	0.02 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.02 < 68>	
Mode 38	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 39	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 40	0.02 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 41	0.01 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 42	0.01 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 43	0.00 < 65>	0.02 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.02 < 68>	
Mode 44	0.00 < 65>	0.00 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.01 < 68>	
Mode 45	0.01 < 65>	0.01 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.00 < 68>	
Mode 46	0.00 < 65>	0.01 < 65>	0.00 < 0>	0.00 < 100>	0.00 < 100>	0.02 < 68>	

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CENTRO CRECER - DATOS DE ENTRADA II

[illegible]

CENTRO CRECER - DATOS DE ENTRADA II

Mode 181	0.00 < 87>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.01 < 88>
Mode 182	0.00 < 87>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.01 < 88>
Mode 183	0.00 < 87>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.02 < 88>
Mode 184	0.00 < 87>	0.01 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.04 < 88>
Mode 185	0.00 < 87>	0.21 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.10 < 88>
Mode 186	0.00 < 87>	0.10 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 187	0.33 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.06 < 88>
Mode 188	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 189	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 190	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.01 < 88>
Mode 191	0.00 < 88>	0.18 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.29 < 88>
Mode 192	0.00 < 88>	0.02 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.02 < 88>
Mode 193	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 194	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 195	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 196	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.01 < 88>
Mode 197	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 198	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 199	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>
Mode 200	0.00 < 88>	0.00 < 89>	0.00 < 0>	0.00 <100>	0.00 <100>	0.00 < 88>

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MODAL LOAD PARTICIPATION RATIOS
(STATIC AND DYNAMIC RATIOS ARE IN PERCENT)

TYPE	LOAD	ACCEL	STORY	LINK	DOF	STATIC	DYNAMIC
Load	PP				3.9951	0.0000	
Load	CV				2.7323	0.0000	
Load	CA				0.4826	0.0000	
Accel	UX				99.9976	87.7733	
Accel	UY				99.9984	89.2285	
Accel	UZ				0.0000	0.0000	
Accel	RX				100.0000	99.9930	
Accel	RY				100.0000	99.9921	
Accel	RZ				53.6930	88.1355	

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RESPONSE SPECTRUM ACCELERATIONS
(IN RESPONSE SPECTRUM LOCAL COORDINATES)

SPEC	MODE	PERIOD	DAMP-RATIO	SPEC-FACTOR	U1	U2	U3
SX	Mode 1	0.465317	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 2	0.419794	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 3	0.360776	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 4	0.306954	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 5	0.256472	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 6	0.255750	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 7	0.247095	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 8	0.247041	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 9	0.243581	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 10	0.203055	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 11	0.203045	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 12	0.201786	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 13	0.187790	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 14	0.182958	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 15	0.181516	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 16	0.181490	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 17	0.177306	0.050000	1.000000	3.744713	0.000000	0.000000

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CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 18	0.131487	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 19	0.043731	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 20	0.039950	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 21	0.038449	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 22	0.037747	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 23	0.034976	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 24	0.032369	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 25	0.032340	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 26	0.031247	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 27	0.030783	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 28	0.029715	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 29	0.029700	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 30	0.029306	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 31	0.029092	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 32	0.028943	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 33	0.028699	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 34	0.028677	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 35	0.028070	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 36	0.028066	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 37	0.027333	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 38	0.026659	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 39	0.026655	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 40	0.025109	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 41	0.024756	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 42	0.024092	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 43	0.023583	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 44	0.023291	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 45	0.023289	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 46	0.022674	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 47	0.022402	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 48	0.022401	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 49	0.022240	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 50	0.022127	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 51	0.021902	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 52	0.021900	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 53	0.021548	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 54	0.021398	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 55	0.021315	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 56	0.021312	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 57	0.018071	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 58	0.017719	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 59	0.017678	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 60	0.017061	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 61	0.016559	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 62	0.016388	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 63	0.016247	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 64	0.015960	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 65	0.015468	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 66	0.015365	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 67	0.015101	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 68	0.014879	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 69	0.014131	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 70	0.014043	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 71	0.013999	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 72	0.013931	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 73	0.013903	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 74	0.013879	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 75	0.013733	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 76	0.013698	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 77	0.013619	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 78	0.013578	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 79	0.013578	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 80	0.013473	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 81	0.013377	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 82	0.013243	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 83	0.013048	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 84	0.013024	0.050000	1.000000	3.744713	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 85	0.013024	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 86	0.012992	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 87	0.012979	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 88	0.012888	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 89	0.012598	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 90	0.012536	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 91	0.012455	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 92	0.012111	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 93	0.011760	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 94	0.011732	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 95	0.011722	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 96	0.011722	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 97	0.011607	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 98	0.011417	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 99	0.010604	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 100	0.010589	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 101	0.010508	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 102	0.010508	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 103	0.010500	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 104	0.010392	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 105	0.010343	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 106	0.010315	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 107	0.010286	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 108	0.010286	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 109	0.010169	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 110	0.010096	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 111	0.010096	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 112	0.009771	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 113	0.009157	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 114	0.009084	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 115	0.009084	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 116	0.009084	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 117	0.009084	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 118	0.008606	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 119	0.008606	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 120	0.008606	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 121	0.008453	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 122	0.008453	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 123	0.007740	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 124	0.007738	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 125	0.007738	0.050000	1.000000	3.744713	0.000000	0.000000
SX	Mode 126	0.007738	0.050000	1.000000	3.744713	0.000000	0.0000

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CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 18	0.131487	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 19	0.043731	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 20	0.039950	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 21	0.038449	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 22	0.037747	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 23	0.034976	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 24	0.032369	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 25	0.032340	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 26	0.031247	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 27	0.030783	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 28	0.029715	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 29	0.029700	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 30	0.029306	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 31	0.029092	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 32	0.028943	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 33	0.028699	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 34	0.028677	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 35	0.028070	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 36	0.028066	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 37	0.027333	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 38	0.026659	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 39	0.026655	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 40	0.025109	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 41	0.024756	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 42	0.024092	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 43	0.023583	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 44	0.023291	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 45	0.023289	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 46	0.022674	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 47	0.022402	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 48	0.022401	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 49	0.022240	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 50	0.022127	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 51	0.021902	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 52	0.021900	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 53	0.021548	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 54	0.021398	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 55	0.021315	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 56	0.021312	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 57	0.018071	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 58	0.017719	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 59	0.017678	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 60	0.017061	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 61	0.016559	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 62	0.016388	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 63	0.016247	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 64	0.015960	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 65	0.015468	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 66	0.015365	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 67	0.015101	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 68	0.014879	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 69	0.014131	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 70	0.014043	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 71	0.013999	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 72	0.013931	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 73	0.013903	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 74	0.013879	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 75	0.013733	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 76	0.013698	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 77	0.013619	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 78	0.013578	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 79	0.013578	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 80	0.013473	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 81	0.013377	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 82	0.013243	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 83	0.013048	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 84	0.013024	0.050000	1.000000	0.000000	3.595067	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 85	0.013024	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 86	0.012992	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 87	0.012979	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 88	0.012888	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 89	0.012598	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 90	0.012536	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 91	0.012455	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 92	0.012111	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 93	0.011760	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 94	0.011732	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 95	0.011722	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 96	0.011722	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 97	0.011607	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 98	0.011417	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 99	0.010604	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 100	0.010589	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 101	0.010508	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 102	0.010508	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 103	0.010500	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 104	0.010392	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 105	0.010343	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 106	0.010315	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 107	0.010286	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 108	0.010286	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 109	0.010169	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 110	0.010096	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 111	0.010096	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 112	0.009771	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 113	0.009157	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 114	0.009084	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 115	0.009084	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 116	0.009084	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 117	0.009084	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 118	0.008606	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 119	0.008606	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 120	0.008606	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 121	0.008453	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 122	0.008453	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 123	0.007740	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 124	0.007738	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 125	0.007738	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 126	0.007738	0.050000	1.000000	0.000000	3.595067	0.0000

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 152	0.006543	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 153	0.006538	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 154	0.006503	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 155	0.006503	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 156	0.006503	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 157	0.006177	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 158	0.006107	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 159	0.006107	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 160	0.006081	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 161	0.006075	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 162	0.006075	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 163	0.006075	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 164	0.006075	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 165	0.005980	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 166	0.005940	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 167	0.005938	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 168	0.005938	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 169	0.005938	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 170	0.005933	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 171	0.005933	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 172	0.005933	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 173	0.005933	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 174	0.005843	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 175	0.005825	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 176	0.005825	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 177	0.005825	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 178	0.005825	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 179	0.005801	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 180	0.005758	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 181	0.005758	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 182	0.005758	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 183	0.005758	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 184	0.005747	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 185	0.005747	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 186	0.005747	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 187	0.005596	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 188	0.005596	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 189	0.005416	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 190	0.005394	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 191	0.005378	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 192	0.005378	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 193	0.005335	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 194	0.005333	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 195	0.005333	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 196	0.005333	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 197	0.005333	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 198	0.005300	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 199	0.005245	0.050000	1.000000	0.000000	3.595067	0.000000
SY	Mode 200	0.005245	0.050000	1.000000	0.000000	3.595067	0.000000
SXUD	Mode 1	0.465317	0.020000	1.000000	2.968020	0.000000	0.000000
SXUD	Mode 2	0.419794	0.020000	1.000000	2.968020	0.000000	0.000000
SXUD	Mode 3	0.360776	0.020000	1.000000	2.968020	0.000000	0.000000
SXUD	Mode 4	0.306954	0.020000	1.000000	2.968020	0.000000	0.000000
SXUD	Mode 5	0.256472	0.020000	1.000000	2.916181	0.000000	0.000000
SXUD	Mode 6	0.255750	0.020000	1.000000	2.910929	0.000000	0.000000
SXUD	Mode 7	0.247095	0.020000	1.000000	2.847976	0.000000	0.000000
SXUD	Mode 8	0.247041	0.020000	1.000000	2.847587	0.000000	0.000000
SXUD	Mode 9	0.243581	0.020000	1.000000	2.822419	0.000000	0.000000
SXUD	Mode 10	0.203055	0.020000	1.000000	2.527105	0.000000	0.000000
SXUD	Mode 11	0.203045	0.020000	1.000000	2.527035	0.000000	0.000000
SXUD	Mode 12	0.201786	0.020000	1.000000	2.517834	0.000000	0.000000
SXUD	Mode 13	0.187790	0.020000	1.000000	2.415560	0.000000	0.000000
SXUD	Mode 14	0.182958	0.020000	1.000000	2.380249	0.000000	0.000000
SXUD	Mode 15	0.181516	0.020000	1.000000	2.369716	0.000000	0.000000
SXUD	Mode 16	0.181490	0.020000	1.000000	2.369523	0.000000	0.000000
SXUD	Mode 17	0.177306	0.020000	1.000000	2.338955	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SXUD	Mode 18	0.131487	0.020000	1.000000	2.006385	0.000000	0.000000
SXUD	Mode 19	0.043731	0.020000	1.000000	1.367355	0.000000	0.000000
SXUD	Mode 20	0.039950	0.020000	1.000000	1.339855	0.000000	0.000000
SXUD	Mode 21	0.038449	0.020000	1.000000	1.328939	0.000000	0.000000
SXUD	Mode 22	0.037747	0.020000	1.000000	1.323833	0.000000	0.000000
SXUD	Mode 23	0.034976	0.020000	1.000000	1.303679	0.000000	0.000000
SXUD	Mode 24	0.032369	0.020000	1.000000	1.284720	0.000000	0.000000
SXUD	Mode 25	0.032340	0.020000	1.000000	1.284509	0.000000	0.000000
SXUD	Mode 26	0.031247	0.020000	1.000000	1.276561	0.000000	0.000000
SXUD	Mode 27	0.030783	0.020000	1.000000	1.273184	0.000000	0.000000
SXUD	Mode 28	0.029715	0.020000	1.000000	1.265417	0.000000	0.000000
SXUD	Mode 29	0.029700	0.020000	1.000000	1.265309	0.000000	0.000000
SXUD	Mode 30	0.029306	0.020000	1.000000	1.262447	0.000000	0.000000
SXUD	Mode 31	0.029092	0.020000	1.000000	1.260889	0.000000	0.000000
SXUD	Mode 32	0.028943	0.020000	1.000000	1.259807	0.000000	0.000000
SXUD	Mode 33	0.028699	0.020000	1.000000	1.258030	0.000000	0.000000
SXUD	Mode 34	0.028677	0.020000	1.000000	1.257867	0.000000	0.000000
SXUD	Mode 35	0.028070	0.020000	1.000000	1.253454	0.000000	0.000000
SXUD	Mode 36	0.028066	0.020000	1.000000	1.253428	0.000000	0.000000
SXUD	Mode 37	0.027333	0.020000	1.000000	1.248095	0.000000	0.000000
SXUD	Mode 38	0.026659	0.020000	1.000000	1.243192	0.000000	0.000000
SXUD	Mode 39	0.026655	0.020000	1.000000	1.243166	0.000000	0.000000
SXUD	Mode 40	0.025109	0.020000	1.000000	1.231916	0.000000	0.000000
SXUD	Mode 41	0.024756	0.020000	1.000000	1.229352	0.000000	0.000000
SXUD	Mode 42	0.024092	0.020000	1.000000	1.224520	0.000000	0.000000
SXUD	Mode 43	0.023583	0.020000	1.000000	1.220824	0.000000	0.000000
SXUD	Mode 44	0.023291	0.020000	1.000000	1.218694	0.000000	0.000000
SXUD	Mode 45	0.023289	0.020000	1.000000	1.218680	0.000000	0.000000
SXUD	Mode 46	0.022674	0.020000	1.000000	1.214211	0.000000	0.000000
SXUD	Mode 47	0.022402	0.020000	1.000000	1.212229	0.000000	0.000000
SXUD	Mode 48	0.022401	0.020000	1.000000	1.212221	0.000000	0.000000
SXUD	Mode 49	0.022240	0.020000	1.000000	1.211052	0.000000	0.000000
SXUD	Mode 50	0.022127	0.020000	1.000000	1.210232	0.000000	0.000000
SXUD	Mode 51	0.021902	0.020000	1.000000	1.208596	0.000000	0.000000
SXUD	Mode 52	0.021900	0.020000	1.000000	1.208582	0.000000	0.000000
SXUD	Mode 53	0.021548	0.020000	1.000000	1.206023	0.000000	0.000000
SXUD	Mode 54	0.021398	0.020000	1.000000	1.204931	0.000000	0.000000
SXUD	Mode 55	0.021315	0.020000	1.000000	1.204328	0.000000	0.000000
SXUD	Mode 56	0.021312	0.020000	1.000000	1.204306	0.000000	0.000000
SXUD	Mode 57	0.018071	0.020000	1.000000	1.180734	0.000000	0.000000
SXUD	Mode 58	0.017719	0.020000	1.000000	1.178172	0.000000	0.000000
SXUD	Mode 59	0.017678	0.020000	1.000000	1.177870	0.000000	0.000000
SXUD	Mode 60	0.017061	0.020000	1.000000	1.173383	0.000000	0.000000
SXUD	Mode 61	0.016559	0.020000	1.000000	1.169734	0.000000	0.000000
SXUD	Mode 62	0.016388	0.020000	1.000000	1.168492	0.000000	0.000000
SXUD	Mode 63	0.016247	0.020000	1.000000	1.167464	0.000000	0.000000
SXUD	Mode 64	0.015960	0.020000	1.000000	1.165375	0.000000	0.000000
SXUD	Mode 65	0.015468	0.020000	1.000000	1.161802	0.000000	0.000000
SXUD	Mode 66	0.015365	0.020000	1.000000	1.161051	0.000000	0.000000
SXUD	Mode 67	0.015101	0.020000	1.000000	1.159132	0.000000	0.000000
SXUD	Mode 68	0.014879	0.020000	1.000000	1.157517	0.000000	0.000000
SXUD	Mode 69	0.014131	0.020000	1.000000	1.152072	0.000000	0.000000
SXUD	Mode 70	0.014043	0.020000	1.000000	1.151437	0.000000	0.000000
SXUD	Mode 71	0.013999	0.020000	1.000000	1.151112	0.000000	0.000000
SXUD	Mode 72	0.013931	0.020000	1.000000	1.150621	0.000000	0.000000
SXUD	Mode 73	0.013903	0.020000	1.000000	1.150420	0.000000	0.000000
SXUD	Mode 74	0.013879	0.020000	1.000000	1.150241	0.000000	0.000000
SXUD	Mode 75	0.013733	0.020000	1.000000	1.149179	0.000000	0.000000
SXUD	Mode 76	0.013698	0.020000	1.000000	1.148923	0.000000	0.000000
SXUD	Mode 77	0.013619	0.020000	1.000000	1.148349	0.000000	0.000000
SXUD	Mode 78	0.013578	0.020000	1.000000	1.148053	0.000000	0.000000
SXUD	Mode 79	0.013578	0.020000	1.000000	1.148053	0.000000	0.000000
SXUD	Mode 80	0.013473	0.020000	1.000000	1.147288	0.000000	0.000000
SXUD	Mode 81	0.013377	0.020000	1.000000	1.146590	0.000000	0.000000
SXUD	Mode 82	0.013243	0.020000	1.000000	1.145618	0.000000	0.000000
SXUD	Mode 83	0.013048	0.020000	1.000000	1.144197	0.000000	0.000000
SXUD	Mode 84	0.013024	0.020000	1.000000	1.144022	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SXUD	Mode 85	0.013024	0.020000	1.000000	1.144022	0.000000	0.000000
SXUD	Mode 86	0.012992	0.020000	1.000000	1.143790	0.000000	0.000000
SXUD	Mode 87	0.012979	0.020000	1.000000	1.143695	0.000000	0.000000
SXUD	Mode 88	0.012888	0.020000	1.000000	1.143033	0.000000	0.000000
SXUD	Mode 89	0.012598	0.020000	1.000000	1.140926	0.000000	0.000000
SXUD	Mode 90	0.012536	0.020000	1.000000	1.140476	0.000000	0.000000
SXUD	Mode 91	0.012455	0.020000	1.000000	1.139888	0.000000	0.000000
SXUD	Mode 92	0.012111	0.020000	1.000000	1.137385	0.000000	0.000000
SXUD	Mode 93	0.011760	0.020000	1.000000	1.134831	0.000000	0.000000
SXUD	Mode 94	0.011732	0.020000	1.000000	1.134624	0.000000	0.000000
SXUD	Mode 95	0.011722	0.020000	1.000000	1.134557	0.000000	0.000000
SXUD	Mode 96	0.011722	0.020000	1.000000	1.134557	0.000000	0.000000
SXUD	Mode 97	0.011607	0.020000	1.000000	1.133716	0.000000	0.000000
SXUD	Mode 98	0.011417	0.020000	1.000000	1.132338	0.000000	0.000000
SXUD	Mode 99	0.010604	0.020000	1.000000	1.126423	0.000000	0.000000
SXUD	Mode 100	0.010589	0.020000	1.000000	1.126313	0.000000	0.000000
SXUD	Mode 101	0.010508	0.020000	1.000000	1.125724	0.000000	0.000000
SXUD	Mode 102	0.010508	0.020000	1.000000	1.125724	0.000000	0.000000
SXUD	Mode 103	0.010500	0.020000	1.000000	1.125666	0.000000	0.000000
SXUD	Mode 104	0.010392	0.020000	1.000000	1.124882	0.000000	0.000000
SXUD	Mode 105	0.010343	0.020000	1.000000	1.124527	0.000000	0.000000
SXUD	Mode 106	0.010315	0.020000	1.000000	1.124322	0.000000	0.000000
SXUD	Mode 107	0.010286	0.020000	1.000000	1.124112	0.000000	0.000000
SXUD	Mode 108	0.010286	0.020000	1.000000	1.124112	0.000000	0.000000
SXUD	Mode 109	0.010169	0.020000	1.000000	1.123262	0.000000	0.000000
SXUD	Mode 110	0.010096	0.020000	1.000000	1.122730	0.000000	0.000000
SXUD	Mode 111	0.010096	0.020000	1.000000	1.122730	0.000000	0.000000
SXUD	Mode 112	0.009771	0.020000	1.000000	1.120362	0.000000	0.000000
SXUD	Mode 113	0.009157	0.020000	1.000000	1.115896	0.000000	0.000000
SXUD	Mode 114	0.009084	0.020000	1.000000	1.115366	0.000000	0.000000
SXUD	Mode 115	0.009084	0.020000	1.000000	1.115366	0.000000	0.000000
SXUD	Mode 116	0.009084	0.020000	1.000000	1.115366	0.000000	0.000000
SXUD	Mode 117	0.009084	0.020000	1.000000	1.115366	0.000000	0.000000
SXUD	Mode 118	0.008606	0.020000	1.000000	1.111895	0.000000	0.000000
SXUD	Mode 119	0.008606	0.020000	1.000000	1.111895	0.000000	0.000000
SXUD	Mode 120	0.008606	0.020000	1.000000	1.111895	0.000000	0.000000
SXUD	Mode 121	0.008453	0.020000	1.000000	1.110779	0.000000	0.000000
SXUD	Mode 122	0.008453	0.020000	1.000000	1.110779	0.000000	0.000000
SXUD	Mode 123	0.007740	0.020000	1.000000	1.105593	0.000000	0.000000
SXUD	Mode 124	0.007738	0.020000	1.000000	1.105580	0.000000	0.000000
SXUD	Mode 125	0.007738	0.020000	1.000000	1.105580	0.000000	0.000000
SXUD	Mode 126	0.007738	0.020000	1.000000	1.105580	0.000000	0.000000
SXUD	Mode 127	0.007738	0.020000	1.000000	1.105580	0.000000	0.000000
SXUD	Mode 128	0.007684	0.020000	1.000000	1.105190	0.000000	0.000000
SXUD	Mode 129	0.007684	0.020000	1.000000	1.105190	0.000000	0.000000
SXUD	Mode 130	0.007684	0.020000	1.000000	1.105190	0.000000	0.000000
SXUD	Mode 131	0.007436	0.020000	1.000000	1.103380	0.000000	0.000000
SXUD	Mode 132	0.007410	0.020000	1.000000	1.103193	0.000000	0.000000
SXUD	Mode 133	0.007410	0.020000	1.000000	1.103193	0.000000	0.000000
SXUD	Mode 134	0.007410	0.020000	1.000000	1.103193	0.000000	0.000000
SXUD	Mode 135	0.007410	0.020000	1.000000	1.103193	0.000000	0.000000
SXUD	Mode 136	0.007238	0.020000	1.000000	1.101943	0.000000	0.000000
SXUD	Mode 137	0.007238	0.020000	1.000000	1.101943	0.000000	0.000000
SXUD	Mode 138	0.007238	0.020000	1.000000	1.101943	0.000000	0.000000
SXUD	Mode 139	0.007123	0.020000	1.000000	1.101106	0.000000	0.000000
SXUD	Mode 140	0.007123	0.020000	1.000000	1.101106	0.000000	0.000000
SXUD	Mode 141	0.007123	0.020000	1.000000	1.101106	0.000000	0.000000
SXUD	Mode 142	0.007123	0.020000	1.000000	1.101106	0.000000	0.000000
SXUD	Mode 143	0.007041	0.020000	1.000000	1.100507	0.000000	0.000000
SXUD	Mode 144	0.007041	0.020000	1.000000	1.100507	0.000000	0.000000
SXUD	Mode 145	0.006834	0.020000	1.000000	1.099001	0.000000	0.000000
SXUD	Mode 146	0.006834	0.020000	1.000000	1.099001	0.000000	0.000000
SXUD	Mode 147	0.006659	0.020000	1.000000	1.097733	0.000000	0.000000
SXUD	Mode 148	0.006649	0.020000	1.000000	1.097659	0.000000	0.000000
SXUD	Mode 149	0.006649	0.020000	1.000000	1.097659	0.000000	0.000000
SXUD	Mode 150	0.006649	0.020000	1.000000	1.097659	0.000000	0.000000
SXUD	Mode 151	0.006649	0.020000	1.000000	1.097659	0.000000	0.000000

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SXUD	Mode 152	0.006543	0.020000	1.000000	1.096885	0.000000	0.000000
SXUD	Mode 153	0.006538	0.020000	1.000000	1.096850	0.000000	0.000000
SXUD	Mode 154	0.006503	0.020000	1.000000	1.096599	0.000000	0.000000
SXUD	Mode 155	0.006503	0.020000	1.000000	1.096599	0.000000	0.000000
SXUD	Mode 156	0.006503	0.020000	1.000000	1.096599	0.000000	0.000000
SXUD	Mode 157	0.006177	0.020000	1.000000	1.094228	0.000000	0.000000
SXUD	Mode 158	0.006107	0.020000	1.000000	1.093718	0.000000	0.000000
SXUD	Mode 159	0.006107	0.020000	1.000000	1.093718	0.000000	0.000000
SXUD	Mode 160	0.006081	0.020000	1.000000	1.093527	0.000000	0.000000
SXUD	Mode 161	0.006075	0.020000	1.000000	1.093486	0.000000	0.000000
SXUD	Mode 162	0.006075	0.020000	1.000000	1.093486	0.000000	0.000000
SXUD	Mode 163	0.006075	0.020000	1.000000	1.093486	0.000000	0.000000
SXUD	Mode 164	0.006075	0.020000	1.000000	1.093486	0.000000	0.000000
SXUD	Mode 165	0.005980	0.020000	1.000000	1.092795	0.000000	0.000000
SXUD	Mode 166	0.005940	0.020000	1.000000	1.092498	0.000000	0.000000
SXUD	Mode 167	0.005938	0.020000	1.000000	1.092489	0.000000	0.000000
SXUD	Mode 168	0.005938	0.020000	1.000000	1.092488	0.000000	0.000000
SXUD	Mode 169	0.005938	0.020000	1.000000	1.092488	0.000000	0.000000
SXUD	Mode 170	0.005933	0.020000	1.000000	1.092450	0.000000	0.000000
SXUD	Mode 171	0.005933	0.020000	1.000000	1.092450	0.000000	0.000000
SXUD	Mode 172	0.005933	0.020000	1.000000	1.092450	0.000000	0.000000
SXUD	Mode 173	0.005933	0.020000	1.000000	1.092450	0.000000	0.000000
SXUD	Mode 174	0.005843	0.020000	1.000000	1.091800	0.000000	0.000000
SXUD	Mode 175	0.005825	0.020000	1.000000	1.091662	0.000000	0.000000
SXUD	Mode 176	0.005825	0.020000	1.000000	1.091662	0.000000	0.000000
SXUD	Mode 177	0.005825	0.020000	1.000000	1.091662	0.000000	0.000000
SXUD	Mode 178	0.005825	0.020000	1.000000	1.091662	0.000000	0.000000
SXUD	Mode 179	0.005801	0.020000	1.000000	1.091492	0.000000	0.000000
SXUD	Mode 180	0.005758	0.020000	1.000000	1.091181	0.000000	0.000000
SXUD	Mode 181	0.005758	0.020000	1.000000	1.091181	0.000000	0.000000
SXUD	Mode 182	0.005758	0.020000	1.000000	1.091181	0.000000	0.000000
SXUD	Mode 183	0.005758	0.020000	1.000000	1.091181	0.000000	0.000000
SXUD	Mode 184	0.005747	0.020000	1.000000	1.091095	0.000000	0.000000
SXUD	Mode 185	0.005747	0.020000	1.000000	1.091095	0.000000	0.000000
SXUD	Mode 186	0.005747	0.020000	1.000000	1.091095	0.000000	0.000000
SXUD	Mode 187	0.005596	0.020000	1.000000	1.089998	0.000000	0.000000
SXUD	Mode 188	0.005596	0.020000	1.000000	1.089998	0.000000	0.000000
SXUD	Mode 189	0.005416	0.020000	1.000000	1.088692	0.000000	0.000000
SXUD	Mode 190	0.005394	0.020000	1.000000	1.088530	0.000000	0.000000
SXUD	Mode 191	0.005378	0.020000	1.000000	1.088413	0.000000	0.000000
SXUD	Mode 192	0.005378	0.020000	1.000000	1.088413	0.000000	0.000000
SXUD	Mode 193	0.005335	0.020000	1.000000	1.088102	0.000000	0.000000
SXUD	Mode 194	0.005333	0.020000	1.000000	1.088085	0.000000	0.000000
SXUD	Mode 195	0.005333	0.020000	1.000000	1.088085	0.000000	0.000000
SXUD	Mode 196	0.005333	0.020000	1.000000	1.088085	0.000000	0.000000
SXUD	Mode 197	0.005333	0.020000	1.000000	1.088085	0.000000	0.000000
SXUD	Mode 198	0.005300	0.020000	1.000000	1.087848	0.000000	0.000000
SXUD	Mode 199	0.005245	0.020000	1.000000	1.087445	0.000000	0.000000
SXUD	Mode 200	0.005245	0.020000	1.000000	1.087445	0.000000	0.000000
SYDU	Mode 1	0.465317	0.020000	1.000000	0.000000	2.991780	0.000000
SYDU	Mode 2	0.419794	0.020000	1.000000	0.000000	2.991780	0.000000
SYDU	Mode 3	0.360776	0.020000	1.000000	0.000000	2.991780	0.000000
SYDU	Mode 4	0.306954	0.020000	1.000000	0.000000	2.991780	0.000000
SYDU	Mode 5	0.256472	0.020000	1.000000	0.000000	2.939526	0.000000
SYDU	Mode 6	0.255750	0.020000	1.000000	0.000000	2.934232	0.000000
SYDU	Mode 7	0.247095	0.020000	1.000000	0.000000	2.870775	0.000000
SYDU	Mode 8	0.247041	0.020000	1.000000	0.000000	2.870383	0.000000
SYDU	Mode 9	0.243581	0.020000	1.000000	0.000000	2.845013	0.000000
SYDU	Mode 10	0.203055	0.020000	1.000000	0.000000	2.547335	0.000000
SYDU	Mode 11	0.203045	0.020000	1.000000	0.000000	2.547265	0.000000
SYDU	Mode 12	0.201786	0.020000	1.000000	0.000000	2.537990	0.000000
SYDU	Mode 13	0.187790	0.020000	1.000000	0.000000	2.434897	0.000000
SYDU	Mode 14	0.182958	0.020000	1.000000	0.000000	2.399304	0.000000
SYDU	Mode 15	0.181516	0.020000	1.000000	0.000000	2.388687	0.000000
SYDU	Mode 16	0.181490	0.020000	1.000000	0.000000	2.388492	0.000000
SYDU	Mode 17	0.177306	0.020000	1.000000	0.000000	2.357679	0.000000

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SYDU	Mode 18	0.131487	0.020000	1.000000	0.000000	2.022446	0.000000
SYDU	Mode 19	0.043731	0.020000	1.000000	0.000000	1.378301	0.000000
SYDU	Mode 20	0.039950	0.020000	1.000000	0.000000	1.350581	0.000000
SYDU	Mode 21	0.038449	0.020000	1.000000	0.000000	1.339578	0.000000
SYDU	Mode 22	0.037747	0.020000	1.000000	0.000000	1.334430	0.000000
SYDU	Mode 23	0.034976	0.020000	1.000000	0.000000	1.314115	0.000000
SYDU	Mode 24	0.032369	0.020000	1.000000	0.000000	1.295004	0.000000
SYDU	Mode 25	0.032340	0.020000	1.000000	0.000000	1.294792	0.000000
SYDU	Mode 26	0.031247	0.020000	1.000000	0.000000	1.286780	0.000000
SYDU	Mode 27	0.030783	0.020000	1.000000	0.000000	1.283377	0.000000
SYDU	Mode 28	0.029715	0.020000	1.000000	0.000000	1.275547	0.000000
SYDU	Mode 29	0.029700	0.020000	1.000000	0.000000	1.275438	0.000000
SYDU	Mode 30	0.029306	0.020000	1.000000	0.000000	1.272554	0.000000
SYDU	Mode 31	0.029092	0.020000	1.000000	0.000000	1.270983	0.000000
SYDU	Mode 32	0.028943	0.020000	1.000000	0.000000	1.269892	0.000000
SYDU	Mode 33	0.028699	0.020000	1.000000	0.000000	1.268100	0.000000
SYDU	Mode 34	0.028677	0.020000	1.000000	0.000000	1.267936	0.000000
SYDU	Mode 35	0.028070	0.020000	1.000000	0.000000	1.263488	0.000000
SYDU	Mode 36	0.028066	0.020000	1.000000	0.000000	1.263462	0.000000
SYDU	Mode 37	0.027333	0.020000	1.000000	0.000000	1.258086	0.000000
SYDU	Mode 38	0.026659	0.020000	1.000000	0.000000	1.253144	0.000000
SYDU	Mode 39	0.026655	0.020000	1.000000	0.000000	1.253118	0.000000
SYDU	Mode 40	0.025109	0.020000	1.000000	0.000000	1.241778	0.000000
SYDU	Mode 41	0.024756	0.020000	1.000000	0.000000	1.239194	0.000000
SYDU	Mode 42	0.024092	0.020000	1.000000	0.000000	1.234323	0.000000
SYDU	Mode 43	0.023583	0.020000	1.000000	0.000000	1.230597	0.000000
SYDU	Mode 44	0.023291	0.020000	1.000000	0.000000	1.228450	0.000000
SYDU	Mode 45	0.023289	0.020000	1.000000	0.000000	1.228436	0.000000
SYDU	Mode 46	0.022674	0.020000	1.000000	0.000000	1.223931	0.000000
SYDU	Mode 47	0.022402	0.020000	1.000000	0.000000	1.221933	0.000000
SYDU	Mode 48	0.022401	0.020000	1.000000	0.000000	1.221925	0.000000
SYDU	Mode 49	0.022240	0.020000	1.000000	0.000000	1.220747	0.000000
SYDU	Mode 50	0.022127	0.020000	1.000000	0.000000	1.219920	0.000000
SYDU	Mode 51	0.021902	0.020000	1.000000	0.000000	1.218272	0.000000
SYDU	Mode 52	0.021900	0.020000	1.000000	0.000000	1.218257	0.000000
SYDU	Mode 53	0.021548	0.020000	1.000000	0.000000	1.215678	0.000000
SYDU	Mode 54	0.021398	0.020000	1.000000	0.000000	1.214577	0.000000
SYDU	Mode 55	0.021315	0.020000	1.000000	0.000000	1.213969	0.000000
SYDU	Mode 56	0.021312	0.020000	1.000000	0.000000	1.213947	0.000000
SYDU	Mode 57	0.018071	0.020000	1.000000	0.000000	1.190186	0.000000
SYDU	Mode 58	0.017719	0.020000	1.000000	0.000000	1.187603	0.000000
SYDU	Mode 59	0.017678	0.020000	1.000000	0.000000	1.187299	0.000000
SYDU	Mode 60	0.017061	0.020000	1.000000	0.000000	1.182776	0.000000
SYDU	Mode 61	0.016559	0.020000	1.000000	0.000000	1.179098	0.000000
SYDU	Mode 62	0.016388	0.020000	1.000000	0.000000	1.177847	0.000000
SYDU	Mode 63	0.016247	0.020000	1.000000	0.000000	1.176810	0.000000
SYDU	Mode 64	0.015960	0.020000	1.000000	0.000000	1.174705	0.000000
SYDU	Mode 65	0.015468	0.020000	1.000000	0.000000	1.171102	0.000000
SYDU	Mode 66	0.015365	0.020000	1.000000	0.000000	1.170346	0.000000
SYDU	Mode 67	0.015101	0.020000	1.000000	0.000000	1.168411	0.000000
SYDU	Mode 68	0.014879	0.020000	1.000000	0.000000	1.166783	0.000000
SYDU	Mode 69	0.014131	0.020000	1.000000	0.000000	1.161295	0.000000
SYDU	Mode 70	0.014043	0.020000	1.000000	0.000000	1.160654	0.000000
SYDU	Mode 71	0.013999	0.020000	1.000000	0.000000	1.160328	0.000000
SYDU	Mode 72	0.013931	0.020000	1.000000	0.000000	1.159832	0.000000
SYDU	Mode 73	0.013903	0.020000	1.000000	0.000000	1.159630	0.000000
SYDU	Mode 74	0.013879	0.020000	1.000000	0.000000	1.159449	0.000000
SYDU	Mode 75	0.013733	0.020000	1.000000	0.000000	1.158379	0.000000
SYDU	Mode 76	0.013698	0.020000	1.000000	0.000000	1.158121	0.000000
SYDU	Mode 77	0.013619	0.020000	1.000000	0.000000	1.157542	0.000000
SYDU	Mode 78	0.013578	0.020000	1.000000	0.000000	1.157244	0.000000
SYDU	Mode 79	0.013578	0.020000	1.000000	0.000000	1.157244	0.000000
SYDU	Mode 80	0.013473	0.020000	1.000000	0.000000	1.156473	0.000000
SYDU	Mode 81	0.013377	0.020000	1.000000	0.000000	1.155769	0.000000
SYDU	Mode 82	0.013243	0.020000	1.000000	0.000000	1.154789	0.000000
SYDU	Mode 83	0.013048	0.020000	1.000000	0.000000	1.153356	0.000000
SYDU	Mode 84	0.013024	0.020000	1.000000	0.000000	1.153180	0.000000

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SYDU	Mode 85	0.013024	0.020000	1.000000	0.000000	1.153180	0.000000
SYDU	Mode 86	0.012992	0.020000	1.000000	0.000000	1.152946	0.000000
SYDU	Mode 87	0.012979	0.020000	1.000000	0.000000	1.152851	0.000000
SYDU	Mode 88	0.012888	0.020000	1.000000	0.000000	1.152184	0.000000
SYDU	Mode 89	0.012598	0.020000	1.000000	0.000000	1.150059	0.000000
SYDU	Mode 90	0.012536	0.020000	1.000000	0.000000	1.149606	0.000000
SYDU	Mode 91	0.012455	0.020000	1.000000	0.000000	1.149013	0.000000
SYDU	Mode 92	0.012111	0.020000	1.000000	0.000000	1.146490	0.000000
SYDU	Mode 93	0.011760	0.020000	1.000000	0.000000	1.143916	0.000000
SYDU	Mode 94	0.011732	0.020000	1.000000	0.000000	1.143707	0.000000
SYDU	Mode 95	0.011722	0.020000	1.000000	0.000000	1.143640	0.000000
SYDU	Mode 96	0.011722	0.020000	1.000000	0.000000	1.143640	0.000000
SYDU	Mode 97	0.011607	0.020000	1.000000	0.000000	1.142792	0.000000
SYDU	Mode 98	0.011417	0.020000	1.000000	0.000000	1.141403	0.000000
SYDU	Mode 99	0.010604	0.020000	1.000000	0.000000	1.135440	0.000000
SYDU	Mode 100	0.010589	0.020000	1.000000	0.000000	1.135329	0.000000
SYDU	Mode 101	0.010508	0.020000	1.000000	0.000000	1.134736	0.000000
SYDU	Mode 102	0.010508	0.020000	1.000000	0.000000	1.134736	0.000000
SYDU	Mode 103	0.010500	0.020000	1.000000	0.000000	1.134677	0.000000
SYDU	Mode 104	0.010392	0.020000	1.000000	0.000000	1.133887	0.000000
SYDU	Mode 105	0.010343	0.020000	1.000000	0.000000	1.133529	0.000000
SYDU	Mode 106	0.010315	0.020000	1.000000	0.000000	1.133322	0.000000
SYDU	Mode 107	0.010286	0.020000	1.000000	0.000000	1.133110	0.000000
SYDU	Mode 108	0.010286	0.020000	1.000000	0.000000	1.133110	0.000000
SYDU	Mode 109	0.010169	0.020000	1.000000	0.000000	1.132254	0.000000
SYDU	Mode 110	0.010096	0.020000	1.000000	0.000000	1.131718	0.000000
SYDU	Mode 111	0.010096	0.020000	1.000000	0.000000	1.131718	0.000000
SYDU	Mode 112	0.009771	0.020000	1.000000	0.000000	1.129331	0.000000
SYDU	Mode 113	0.009157	0.020000	1.000000	0.000000	1.124829	0.000000
SYDU	Mode 114	0.009084	0.020000	1.000000	0.000000	1.124295	0.000000
SYDU	Mode 115	0.009084	0.020000	1.000000	0.000000	1.124295	0.000000
SYDU	Mode 116	0.009084	0.020000	1.000000	0.000000	1.124295	0.000000
SYDU	Mode 117	0.009084	0.020000	1.000000	0.000000	1.124295	0.000000
SYDU	Mode 118	0.008606	0.020000	1.000000	0.000000	1.120796	0.000000
SYDU	Mode 119	0.008606	0.020000	1.000000	0.000000	1.120796	0.000000
SYDU	Mode 120	0.008606	0.020000	1.000000	0.000000	1.120796	0.000000
SYDU	Mode 121	0.008453	0.020000	1.000000	0.000000	1.119671	0.000000
SYDU	Mode 122	0.008453	0.020000	1.000000	0.000000	1.119671	0.000000
SYDU	Mode 123	0.007740	0.020000	1.000000	0.000000	1.114443	0.000000
SYDU	Mode 124	0.007738	0.020000	1.000000	0.000000	1.114431	0.000000
SYDU	Mode 125	0.007738	0.020000	1.000000	0.000000	1.114431	0.000000
SYDU	Mode 126	0.007738	0.020000	1.000000	0.000000	1.114431	0.000000
SYDU	Mode 127	0.007738	0.020000	1.000000	0.000000	1.114431	0.000000
SYDU	Mode 128	0.007684	0.020000	1.000000	0.000000	1.114037	0.000000
SYDU	Mode 129	0.007684	0.020000	1.000000	0.000000	1.114037	0.000000
SYDU	Mode 130	0.007684	0.020000	1.000000	0.000000	1.114037	0.000000
SYDU	Mode 131	0.007436	0.020000	1.000000	0.000000	1.112213	0.000000
SYDU	Mode 132	0.007410	0.020000	1.000000	0.000000	1.112024	0.000000
SYDU	Mode 133	0.007410	0.020000	1.000000	0.000000	1.112024	0.000000
SYDU	Mode 134	0.007410	0.020000	1.000000	0.000000	1.112024	0.000000
SYDU	Mode 135	0.007410	0.020000	1.000000	0.000000	1.112024	0.000000
SYDU	Mode 136	0.007238	0.020000	1.000000	0.000000	1.110765	0.000000
SYDU	Mode 137	0.007238	0.020000	1.000000	0.000000	1.110765	0.000000
SYDU	Mode 138	0.007238	0.020000	1.000000	0.000000	1.110765	0.000000
SYDU	Mode 139	0.007123	0.020000	1.000000	0.000000	1.109920	0.000000
SYDU	Mode 140	0.007123	0.020000	1.000000	0.000000	1.109920	0.000000
SYDU	Mode 141	0.007123	0.020000	1.000000	0.000000	1.109920	0.000000
SYDU	Mode 142	0.007123	0.020000	1.000000	0.000000	1.109920	0.000000
SYDU	Mode 143	0.007041	0.020000	1.000000	0.000000	1.109317	0.000000
SYDU	Mode 144	0.007041	0.020000	1.000000	0.000000	1.109317	0.000000
SYDU	Mode 145	0.006834	0.020000	1.000000	0.000000	1.107798	0.000000
SYDU	Mode 146	0.006834	0.020000	1.000000	0.000000	1.107798	0.000000
SYDU	Mode 147	0.006659	0.020000	1.000000	0.000000	1.106521	0.000000
SYDU	Mode 148	0.006649	0.020000	1.000000	0.000000	1.106446	0.000000
SYDU	Mode 149	0.006649	0.020000	1.000000	0.000000	1.106446	0.000000
SYDU	Mode 150	0.006649	0.020000	1.000000	0.000000	1.106446	0.000000
SYDU	Mode 151	0.006649	0.020000	1.000000	0.000000	1.106446	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SYDU	Mode 152	0.006543	0.020000	1.000000	0.000000	1.105666	0.000000
SYDU	Mode 153	0.006538	0.020000	1.000000	0.000000	1.105631	0.000000
SYDU	Mode 154	0.006503	0.020000	1.000000	0.000000	1.105377	0.000000
SYDU	Mode 155	0.006503	0.020000	1.000000	0.000000	1.105377	0.000000
SYDU	Mode 156	0.006503	0.020000	1.000000	0.000000	1.105377	0.000000
SYDU	Mode 157	0.006177	0.020000	1.000000	0.000000	1.102988	0.000000
SYDU	Mode 158	0.006107	0.020000	1.000000	0.000000	1.102473	0.000000
SYDU	Mode 159	0.006107	0.020000	1.000000	0.000000	1.102473	0.000000
SYDU	Mode 160	0.006081	0.020000	1.000000	0.000000	1.102281	0.000000
SYDU	Mode 161	0.006075	0.020000	1.000000	0.000000	1.102240	0.000000
SYDU	Mode 162	0.006075	0.020000	1.000000	0.000000	1.102240	0.000000
SYDU	Mode 163	0.006075	0.020000	1.000000	0.000000	1.102240	0.000000
SYDU	Mode 164	0.006075	0.020000	1.000000	0.000000	1.102240	0.000000
SYDU	Mode 165	0.005980	0.020000	1.000000	0.000000	1.101544	0.000000
SYDU	Mode 166	0.005940	0.020000	1.000000	0.000000	1.101244	0.000000
SYDU	Mode 167	0.005938	0.020000	1.000000	0.000000	1.101234	0.000000
SYDU	Mode 168	0.005938	0.020000	1.000000	0.000000	1.101234	0.000000
SYDU	Mode 169	0.005938	0.020000	1.000000	0.000000	1.101234	0.000000
SYDU	Mode 170	0.005933	0.020000	1.000000	0.000000	1.101195	0.000000
SYDU	Mode 171	0.005933	0.020000	1.000000	0.000000	1.101195	0.000000
SYDU	Mode 172	0.005933	0.020000	1.000000	0.000000	1.101195	0.000000
SYDU	Mode 173	0.005933	0.020000	1.000000	0.000000	1.101195	0.000000
SYDU	Mode 174	0.005843	0.020000	1.000000	0.000000	1.100540	0.000000
SYDU	Mode 175	0.005825	0.020000	1.000000	0.000000	1.100401	0.000000
SYDU	Mode 176	0.005825	0.020000	1.000000	0.000000	1.100401	0.000000
SYDU	Mode 177	0.005825	0.020000	1.000000	0.000000	1.100401	0.000000
SYDU	Mode 178	0.005825	0.020000	1.000000	0.000000	1.100401	0.000000
SYDU	Mode 179	0.005801	0.020000	1.000000	0.000000	1.100229	0.000000
SYDU	Mode 180	0.005758	0.020000	1.000000	0.000000	1.099916	0.000000
SYDU	Mode 181	0.005758	0.020000	1.000000	0.000000	1.099916	0.000000
SYDU	Mode 182	0.005758	0.020000	1.000000	0.000000	1.099916	0.000000
SYDU	Mode 183	0.005758	0.020000	1.000000	0.000000	1.099916	0.000000
SYDU	Mode 184	0.005747	0.020000	1.000000	0.000000	1.099830	0.000000
SYDU	Mode 185	0.005747	0.020000	1.000000	0.000000	1.099830	0.000000
SYDU	Mode 186	0.005747	0.020000	1.000000	0.000000	1.099830	0.000000
SYDU	Mode 187	0.005596	0.020000	1.000000	0.000000	1.098724	0.000000
SYDU	Mode 188	0.005596	0.020000	1.000000	0.000000	1.098724	0.000000
SYDU	Mode 189	0.005416	0.020000	1.000000	0.000000	1.097407	0.000000
SYDU	Mode 190	0.005394	0.020000	1.000000	0.000000	1.097245	0.000000
SYDU	Mode 191	0.005378	0.020000	1.000000	0.000000	1.097126	0.000000
SYDU	Mode 192	0.005378	0.020000	1.000000	0.000000	1.097126	0.000000
SYDU	Mode 193	0.005335	0.020000	1.000000	0.000000	1.096813	0.000000
SYDU	Mode 194	0.005333	0.020000	1.000000	0.000000	1.096796	0.000000
SYDU	Mode 195	0.005333	0.020000	1.000000	0.000000	1.096796	0.000000
SYDU	Mode 196	0.005333	0.020000	1.000000	0.000000	1.096796	0.000000
SYDU	Mode 197	0.005333	0.020000	1.000000	0.000000	1.096796	0.000000
SYDU	Mode 198	0.005300	0.020000	1.000000	0.000000	1.096557	0.000000
SYDU	Mode 199	0.005245	0.020000	1.000000	0.000000	1.096151	0.000000
SYDU	Mode 200	0.005245	0.020000	1.000000	0.000000	1.096151	0.000000

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RESPONSE SPECTRUM MODAL AMPLITUDES
(IN RESPONSE SPECTRUM LOCAL COORDINATES)

SPEC	MODE	PERIOD	U1	U2	U3
SX	Mode 1	0.465317	0.029000	0.000000	0.000000
SX	Mode 2	0.419794	0.111757	0.000000	0.000000
SX	Mode 3	0.360776	0.023879	0.000000	0.000000
SX	Mode 4	0.306954	-0.057972	0.000000	0.000000
SX	Mode 5	0.256472	0.021054	0.000000	0.000000
SX	Mode 6	0.255750	0.000106	0.000000	0.000000
SX	Mode 7	0.247095	0.002692	0.000000	0.000000
SX	Mode 8	0.247041	0.028217	0.000000	0.000000
SX	Mode 9	0.243581	0.000194	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 10	0.203055	-0.000070	0.000000	0.000000
SX	Mode 11	0.203045	-0.000005	0.000000	0.000000
SX	Mode 12	0.201786	0.000088	0.000000	0.000000
SX	Mode 13	0.187790	-0.000724	0.000000	0.000000
SX	Mode 14	0.182958	0.000305	0.000000	0.000000
SX	Mode 15	0.181516	-0.000257	0.000000	0.000000
SX	Mode 16	0.181490	-0.002141	0.000000	0.000000
SX	Mode 17	0.177306	-0.005959	0.000000	0.000000
SX	Mode 18	0.131487	-0.002429	0.000000	0.000000
SX	Mode 19	0.043731	0.000021	0.000000	0.000000
SX	Mode 20	0.039950	-0.000022	0.000000	0.000000
SX	Mode 21	0.038449	0.000002	0.000000	0.000000
SX	Mode 22	0.037747	-0.000031	0.000000	0.000000
SX	Mode 23	0.034976	-0.000041	0.000000	0.000000
SX	Mode 24	0.032369	0.000000	0.000000	0.000000
SX	Mode 25	0.032340	0.000004	0.000000	0.000000
SX	Mode 26	0.031247	0.000010	0.000000	0.000000
SX	Mode 27	0.030783	0.000000	0.000000	0.000000
SX	Mode 28	0.029715	-0.000004	0.000000	0.000000
SX	Mode 29	0.029700	0.000000	0.000000	0.000000
SX	Mode 30	0.029306	-0.000001	0.000000	0.000000
SX	Mode 31	0.029092	-0.000010	0.000000	0.000000
SX	Mode 32	0.028943	0.000000	0.000000	0.000000
SX	Mode 33	0.028699	-0.000001	0.000000	0.000000
SX	Mode 34	0.028677	0.000001	0.000000	0.000000
SX	Mode 35	0.028070	-0.000006	0.000000	0.000000
SX	Mode 36	0.028066	-0.000011	0.000000	0.000000
SX	Mode 37	0.027333	0.000000	0.000000	0.000000
SX	Mode 38	0.026659	0.000006	0.000000	0.000000
SX	Mode 39	0.026655	0.000000	0.000000	0.000000
SX	Mode 40	0.025109	0.000011	0.000000	0.000000
SX	Mode 41	0.024756	0.000008	0.000000	0.000000
SX	Mode 42	0.024092	0.000007	0.000000	0.000000
SX	Mode 43	0.023583	-0.000004	0.000000	0.000000
SX	Mode 44	0.023291	0.000005	0.000000	0.000000
SX	Mode 45	0.023289	-0.000007	0.000000	0.000000
SX	Mode 46	0.022674	0.000001	0.000000	0.000000
SX	Mode 47	0.022402	0.000007	0.000000	0.000000
SX	Mode 48	0.022401	0.000006	0.000000	0.000000
SX	Mode 49	0.022240	-0.000003	0.000000	0.000000
SX	Mode 50	0.022127	0.000000	0.000000	0.000000
SX	Mode 51	0.021902	-0.000002	0.000000	0.000000
SX	Mode 52	0.021900	0.000002	0.000000	0.000000
SX	Mode 53	0.021548	-0.000012	0.000000	0.000000
SX	Mode 54	0.021398	0.000006	0.000000	0.000000
SX	Mode 55	0.021315	0.000005	0.000000	0.000000
SX	Mode 56	0.021312	-0.000006	0.000000	0.000000
SX	Mode 57	0.018071	-0.000002	0.000000	0.000000
SX	Mode 58	0.017719	-0.000003	0.000000	0.000000
SX	Mode 59	0.017678	-0.000001	0.000000	0.000000
SX	Mode 60	0.017061	0.000001	0.000000	0.000000
SX	Mode 61	0.016559	-0.000002	0.000000	0.000000
SX	Mode 62	0.016388	-0.000001	0.000000	0.000000
SX	Mode 63	0.016247	0.000002	0.000000	0.000000
SX	Mode 64	0.015960	-0.000004	0.000000	0.000000
SX	Mode 65	0.015468	0.000000	0.000000	0.000000
SX	Mode 66	0.015365	0.000000	0.000000	0.000000
SX	Mode 67	0.015101	0.000002	0.000000	0.000000
SX	Mode 68	0.014879	-0.000001	0.000000	0.000000
SX	Mode 69	0.014131	0.000000	0.000000	0.000000
SX	Mode 70	0.014043	0.000000	0.000000	0.000000
SX	Mode 71	0.013999	0.000002	0.000000	0.000000
SX	Mode 72	0.013931	0.000003	0.000000	0.000000
SX	Mode 73	0.013903	0.000000	0.000000	0.000000
SX	Mode 74	0.013879	0.000000	0.000000	0.000000
SX	Mode 75	0.013733	0.000003	0.000000	0.000000
SX	Mode 76	0.013698	0.000000	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 77	0.013619	0.000000	0.000000	0.000000
SX	Mode 78	0.013578	0.000001	0.000000	0.000000
SX	Mode 79	0.013578	0.000000	0.000000	0.000000
SX	Mode 80	0.013473	0.000001	0.000000	0.000000
SX	Mode 81	0.013377	0.000000	0.000000	0.000000
SX	Mode 82	0.013243	0.000000	0.000000	0.000000
SX	Mode 83	0.013048	0.000000	0.000000	0.000000
SX	Mode 84	0.013024	0.000000	0.000000	0.000000
SX	Mode 85	0.013024	0.000000	0.000000	0.000000
SX	Mode 86	0.012992	0.000000	0.000000	0.000000
SX	Mode 87	0.012979	0.000000	0.000000	0.000000
SX	Mode 88	0.012888	-0.000002	0.000000	0.000000
SX	Mode 89	0.012598	0.000000	0.000000	0.000000
SX	Mode 90	0.012536	0.000000	0.000000	0.000000
SX	Mode 91	0.012455	0.000000	0.000000	0.000000
SX	Mode 92	0.012111	0.000000	0.000000	0.000000
SX	Mode 93	0.011760	0.000000	0.000000	0.000000
SX	Mode 94	0.011732	-0.000001	0.000000	0.000000
SX	Mode 95	0.011722	0.000000	0.000000	0.000000
SX	Mode 96	0.011722	0.000002	0.000000	0.000000
SX	Mode 97	0.011607	0.000000	0.000000	0.000000
SX	Mode 98	0.011417	0.000000	0.000000	0.000000
SX	Mode 99	0.010604	-0.000001	0.000000	0.000000
SX	Mode 100	0.010589	-0.000001	0.000000	0.000000
SX	Mode 101	0.010508	0.000000	0.000000	0.000000
SX	Mode 102	0.010508	0.000000	0.000000	0.000000
SX	Mode 103	0.010500	0.000000	0.000000	0.000000
SX	Mode 104	0.010392	0.000000	0.000000	0.000000
SX	Mode 105	0.010343	0.000000	0.000000	0.000000
SX	Mode 106	0.010315	0.000000	0.000000	0.000000
SX	Mode 107	0.010286	0.000000	0.000000	0.000000
SX	Mode 108	0.010286	0.000000	0.000000	0.000000
SX	Mode 109	0.010169	0.000000	0.000000	0.000000
SX	Mode 110	0.010096	0.000000	0.000000	0.000000
SX	Mode 111	0.010096	0.000000	0.000000	0.000000
SX	Mode 112	0.009771	0.000001	0.000000	0.000000
SX	Mode 113	0.009157	0.000000	0.000000	0.000000
SX	Mode 114	0.009084	0.000000	0.000000	0.000000
SX	Mode 115	0.009084	0.000000	0.000000	0.000000
SX	Mode 116	0.009084	0.000000	0.000000	0.000000
SX	Mode 117	0.009084	0.000000	0.000000	0.000000
SX	Mode 118	0.008606	0.000000	0.000000	0.000000
SX	Mode 119	0.008606	0.000000	0.000000	0.000000
SX	Mode 120	0.008606	0.000000	0.000000	0.000000
SX	Mode 121	0.008453	0.000000	0.000000	0.000000
SX	Mode 122	0.008453	0.000000	0.000000	0.000000
SX	Mode 123	0.007740	0.000011	0.000000	0.000000
SX	Mode 124	0.007738	-0.000003	0.000000	0.000000
SX	Mode 125	0.007738	-0.000011	0.000000	0.000000
SX	Mode 126	0.007738	0.000005	0.000000	0.000000
SX	Mode 127	0.007738	-0.000017	0.000000	0.000000
SX	Mode 128	0.007684	0.000007	0.000000	0.000000
SX	Mode 129	0.007684	-0.000011	0.000000	0.000000
SX	Mode 130	0.007684	-0.000012	0.000000	0.000000
SX	Mode 131	0.007436	0.000000	0.000000	0.000000
SX	Mode 132	0.007410	0.000000	0.000000	0.000000
SX	Mode 133	0.007410	0.000000	0.000000	0.000000
SX	Mode 134	0.007410	0.000000	0.000000	0.000000
SX	Mode 135	0.007410	0.000000	0.000000	0.000000
SX	Mode 136	0.007238	0.000000	0.000000	0.000000
SX	Mode 137	0.007238	0.000000	0.000000	0.000000
SX	Mode 138	0.007238	0.000000	0.000000	0.000000
SX	Mode 139	0.007123	0.000000	0.000000	0.000000
SX	Mode 140	0.007123	0.000000	0.000000	0.000000
SX	Mode 141	0.007123	0.000000	0.000000	0.000000
SX	Mode 142	0.007123	0.000000	0.000000	0.000000
SX	Mode 143	0.007041	0.000011	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 144	0.007041	0.000001	0.000000	0.000000
SX	Mode 145	0.006834	0.000000	0.000000	0.000000
SX	Mode 146	0.006834	0.000000	0.000000	0.000000
SX	Mode 147	0.006659	0.000000	0.000000	0.000000
SX	Mode 148	0.006649	0.000000	0.000000	0.000000
SX	Mode 149	0.006649	0.000000	0.000000	0.000000
SX	Mode 150	0.006649	0.000000	0.000000	0.000000
SX	Mode 151	0.006649	0.000000	0.000000	0.000000
SX	Mode 152	0.006543	0.000000	0.000000	0.000000
SX	Mode 153	0.006538	0.000000	0.000000	0.000000
SX	Mode 154	0.006503	0.000000	0.000000	0.000000
SX	Mode 155	0.006503	0.000000	0.000000	0.000000
SX	Mode 156	0.006503	0.000000	0.000000	0.000000
SX	Mode 157	0.006177	0.000000	0.000000	0.000000
SX	Mode 158	0.006107	0.000000	0.000000	0.000000
SX	Mode 159	0.006107	0.000000	0.000000	0.000000
SX	Mode 160	0.006081	-0.000002	0.000000	0.000000
SX	Mode 161	0.006075	-0.000003	0.000000	0.000000
SX	Mode 162	0.006075	-0.000001	0.000000	0.000000
SX	Mode 163	0.006075	0.000001	0.000000	0.000000
SX	Mode 164	0.006075	-0.000003	0.000000	0.000000
SX	Mode 165	0.005980	0.000001	0.000000	0.000000
SX	Mode 166	0.005940	0.000005	0.000000	0.000000
SX	Mode 167	0.005938	-0.000002	0.000000	0.000000
SX	Mode 168	0.005938	0.000000	0.000000	0.000000
SX	Mode 169	0.005938	0.000002	0.000000	0.000000
SX	Mode 170	0.005933	0.000000	0.000000	0.000000
SX	Mode 171	0.005933	0.000010	0.000000	0.000000
SX	Mode 172	0.005933	-0.000001	0.000000	0.000000
SX	Mode 173	0.005933	0.000000	0.000000	0.000000
SX	Mode 174	0.005843	0.000000	0.000000	0.000000
SX	Mode 175	0.005825	0.000000	0.000000	0.000000
SX	Mode 176	0.005825	0.000000	0.000000	0.000000
SX	Mode 177	0.005825	0.000000	0.000000	0.000000
SX	Mode 178	0.005825	0.000000	0.000000	0.000000
SX	Mode 179	0.005801	0.000000	0.000000	0.000000
SX	Mode 180	0.005758	0.000000	0.000000	0.000000
SX	Mode 181	0.005758	0.000000	0.000000	0.000000
SX	Mode 182	0.005758	0.000000	0.000000	0.000000
SX	Mode 183	0.005758	0.000000	0.000000	0.000000
SX	Mode 184	0.005747	0.000000	0.000000	0.000000
SX	Mode 185	0.005747	0.000000	0.000000	0.000000
SX	Mode 186	0.005747	0.000000	0.000000	0.000000
SX	Mode 187	0.005596	-0.000002	0.000000	0.000000
SX	Mode 188	0.005596	0.000000	0.000000	0.000000
SX	Mode 189	0.005416	0.000000	0.000000	0.000000
SX	Mode 190	0.005394	0.000000	0.000000	0.000000
SX	Mode 191	0.005378	0.000000	0.000000	0.000000
SX	Mode 192	0.005378	0.000000	0.000000	0.000000
SX	Mode 193	0.005335	0.000000	0.000000	0.000000
SX	Mode 194	0.005333	0.000000	0.000000	0.000000
SX	Mode 195	0.005333	0.000000	0.000000	0.000000
SX	Mode 196	0.005333	0.000000	0.000000	0.000000
SX	Mode 197	0.005333	0.000000	0.000000	0.000000
SX	Mode 198	0.005300	0.000000	0.000000	0.000000
SX	Mode 199	0.005245	0.000000	0.000000	0.000000
SX	Mode 200	0.005245	0.000000	0.000000	0.000000

SY	Mode 1	0.465317	0.000000	-0.130501	0.000000
SY	Mode 2	0.419794	0.000000	0.029850	0.000000
SY	Mode 3	0.360776	0.000000	-0.018665	0.000000
SY	Mode 4	0.306954	0.000000	0.000094	0.000000
SY	Mode 5	0.256472	0.000000	0.000088	0.000000
SY	Mode 6	0.255750	0.000000	0.036399	0.000000
SY	Mode 7	0.247095	0.000000	-0.000014	0.000000
SY	Mode 8	0.247041	0.000000	0.000036	0.000000
SY	Mode 9	0.243581	0.000000	-0.011486	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 10	0.203055	0.000000	0.018552	0.000000
SY	Mode 11	0.203045	0.000000	0.000312	0.000000
SY	Mode 12	0.201786	0.000000	-0.012172	0.000000
SY	Mode 13	0.187790	0.000000	0.008397	0.000000
SY	Mode 14	0.182958	0.000000	0.002314	0.000000
SY	Mode 15	0.181516	0.000000	-0.000025	0.000000
SY	Mode 16	0.181490	0.000000	-0.000217	0.000000
SY	Mode 17	0.177306	0.000000	-0.000888	0.000000
SY	Mode 18	0.131487	0.000000	0.000104	0.000000
SY	Mode 19	0.043731	0.000000	0.000004	0.000000
SY	Mode 20	0.039950	0.000000	-0.000001	0.000000
SY	Mode 21	0.038449	0.000000	-0.000001	0.000000
SY	Mode 22	0.037747	0.000000	0.000001	0.000000
SY	Mode 23	0.034976	0.000000	-0.000002	0.000000
SY	Mode 24	0.032369	0.000000	0.000001	0.000000
SY	Mode 25	0.032340	0.000000	-0.000026	0.000000
SY	Mode 26	0.031247	0.000000	0.000001	0.000000
SY	Mode 27	0.030783	0.000000	-0.000017	0.000000
SY	Mode 28	0.029715	0.000000	0.000001	0.000000
SY	Mode 29	0.029700	0.000000	0.000024	0.000000
SY	Mode 30	0.029306	0.000000	-0.000011	0.000000
SY	Mode 31	0.029092	0.000000	0.000000	0.000000
SY	Mode 32	0.028943	0.000000	0.000021	0.000000
SY	Mode 33	0.028699	0.000000	-0.000017	0.000000
SY	Mode 34	0.028677	0.000000	0.000000	0.000000
SY	Mode 35	0.028070	0.000000	-0.000001	0.000000
SY	Mode 36	0.028066	0.000000	-0.000001	0.000000
SY	Mode 37	0.027333	0.000000	0.000014	0.000000
SY	Mode 38	0.026659	0.000000	-0.000001	0.000000
SY	Mode 39	0.026655	0.000000	0.000000	0.000000
SY	Mode 40	0.025109	0.000000	0.000002	0.000000
SY	Mode 41	0.024756	0.000000	0.000000	0.000000
SY	Mode 42	0.024092	0.000000	0.000000	0.000000
SY	Mode 43	0.023583	0.000000	0.000010	0.000000
SY	Mode 44	0.023291	0.000000	0.000005	0.000000
SY	Mode 45	0.023289	0.000000	-0.000007	0.000000
SY	Mode 46	0.022674	0.000000	-0.000008	0.000000
SY	Mode 47	0.022402	0.000000	-0.000008	0.000000
SY	Mode 48	0.022401	0.000000	-0.000006	0.000000
SY	Mode 49	0.022240	0.000000	-0.000007	0.000000
SY	Mode 50	0.022127	0.000000	0.000008	0.000000
SY	Mode 51	0.021902	0.000000	0.000010	0.000000
SY	Mode 52	0.021900	0.000000	-0.000010	0.000000
SY	Mode 53	0.021548	0.000000	0.000000	0.000000
SY	Mode 54	0.021398	0.000000	0.000000	0.000000
SY	Mode 55	0.021315	0.000000	0.000004	0.000000
SY	Mode 56	0.021312	0.000000	-0.000005	0.000000
SY	Mode 57	0.018071	0.000000	0.000000	0.000000
SY	Mode 58	0.017719	0.000000	0.000000	0.000000
SY	Mode 59	0.017678	0.000000	0.000000	0.000000
SY	Mode 60	0.017061	0.000000	0.000000	0.000000
SY	Mode 61	0.016559	0.000000	0.000000	0.000000
SY	Mode 62	0.016388	0.000000	0.000000	0.000000
SY	Mode 63	0.016247	0.000000	0.000000	0.000000
SY	Mode 64	0.015960	0.000000	0.000000	0.000000
SY	Mode 65	0.015468	0.000000	0.000001	0.000000
SY	Mode 66	0.015365	0.000000	-0.000002	0.000000
SY	Mode 67	0.015101	0.000000	0.000000	0.000000
SY	Mode 68	0.014879	0.000000	0.000000	0.000000
SY	Mode 69	0.014131	0.000000	0.000001	0.000000
SY	Mode 70	0.014043	0.000000	-0.000002	0.000000
SY	Mode 71	0.013999	0.000000	-0.000001	0.000000
SY	Mode 72	0.013931	0.000000	0.000000	0.000000
SY	Mode 73	0.013903	0.000000	0.000000	0.000000
SY	Mode 74	0.013879	0.000000	0.000002	0.000000
SY	Mode 75	0.013733	0.000000	0.000000	0.000000
SY	Mode 76	0.013698	0.000000	-0.000002	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 77	0.013619	0.000000	0.000000	0.000000
SY	Mode 78	0.013578	0.000000	0.000000	0.000000
SY	Mode 79	0.013578	0.000000	0.000000	0.000000
SY	Mode 80	0.013473	0.000000	0.000000	0.000000
SY	Mode 81	0.013377	0.000000	0.000001	0.000000
SY	Mode 82	0.013243	0.000000	-0.000001	0.000000
SY	Mode 83	0.013048	0.000000	-0.000003	0.000000
SY	Mode 84	0.013024	0.000000	0.000000	0.000000
SY	Mode 85	0.013024	0.000000	0.000000	0.000000
SY	Mode 86	0.012992	0.000000	0.000000	0.000000
SY	Mode 87	0.012979	0.000000	0.000000	0.000000
SY	Mode 88	0.012888	0.000000	0.000000	0.000000
SY	Mode 89	0.012598	0.000000	0.000002	0.000000
SY	Mode 90	0.012536	0.000000	0.000002	0.000000
SY	Mode 91	0.012455	0.000000	0.000002	0.000000
SY	Mode 92	0.012111	0.000000	0.000002	0.000000
SY	Mode 93	0.011760	0.000000	0.000000	0.000000
SY	Mode 94	0.011732	0.000000	0.000000	0.000000
SY	Mode 95	0.011722	0.000000	0.000000	0.000000
SY	Mode 96	0.011722	0.000000	0.000000	0.000000
SY	Mode 97	0.011607	0.000000	0.000002	0.000000
SY	Mode 98	0.011417	0.000000	0.000000	0.000000
SY	Mode 99	0.010604	0.000000	0.000001	0.000000
SY	Mode 100	0.010589	0.000000	-0.000001	0.000000
SY	Mode 101	0.010508	0.000000	0.000002	0.000000
SY	Mode 102	0.010508	0.000000	-0.000002	0.000000
SY	Mode 103	0.010500	0.000000	0.000002	0.000000
SY	Mode 104	0.010392	0.000000	0.000000	0.000000
SY	Mode 105	0.010343	0.000000	0.000000	0.000000
SY	Mode 106	0.010315	0.000000	0.000000	0.000000
SY	Mode 107	0.010286	0.000000	0.000000	0.000000
SY	Mode 108	0.010286	0.000000	0.000000	0.000000
SY	Mode 109	0.010169	0.000000	0.000000	0.000000
SY	Mode 110	0.010096	0.000000	0.000000	0.000000
SY	Mode 111	0.010096	0.000000	0.000000	0.000000
SY	Mode 112	0.009771	0.000000	0.000000	0.000000
SY	Mode 113	0.009157	0.000000	-0.000014	0.000000
SY	Mode 114	0.009084	0.000000	0.000008	0.000000
SY	Mode 115	0.009084	0.000000	-0.000022	0.000000
SY	Mode 116	0.009084	0.000000	0.000013	0.000000
SY	Mode 117	0.009084	0.000000	0.000008	0.000000
SY	Mode 118	0.008606	0.000000	-0.000005	0.000000
SY	Mode 119	0.008606	0.000000	-0.000017	0.000000
SY	Mode 120	0.008606	0.000000	-0.000012	0.000000
SY	Mode 121	0.008453	0.000000	0.000012	0.000000
SY	Mode 122	0.008453	0.000000	0.000010	0.000000
SY	Mode 123	0.007740	0.000000	0.000000	0.000000
SY	Mode 124	0.007738	0.000000	0.000000	0.000000
SY	Mode 125	0.007738	0.000000	0.000000	0.000000
SY	Mode 126	0.007738	0.000000	0.000000	0.000000
SY	Mode 127	0.007738	0.000000	0.000000	0.000000
SY	Mode 128	0.007684	0.000000	0.000000	0.000000
SY	Mode 129	0.007684	0.000000	0.000000	0.000000
SY	Mode 130	0.007684	0.000000	0.000000	0.000000
SY	Mode 131	0.007436	0.000000	0.000000	0.000000
SY	Mode 132	0.007410	0.000000	0.000000	0.000000
SY	Mode 133	0.007410	0.000000	0.000000	0.000000
SY	Mode 134	0.007410	0.000000	0.000000	0.000000
SY	Mode 135	0.007410	0.000000	0.000000	0.000000
SY	Mode 136	0.007238	0.000000	0.000000	0.000000
SY	Mode 137	0.007238	0.000000	0.000000	0.000000
SY	Mode 138	0.007238	0.000000	0.000000	0.000000
SY	Mode 139	0.007123	0.000000	-0.000002	0.000000
SY	Mode 140	0.007123	0.000000	-0.000013	0.000000
SY	Mode 141	0.007123	0.000000	0.000000	0.000000
SY	Mode 142	0.007123	0.000000	0.000002	0.000000
SY	Mode 143	0.007041	0.000000	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 144	0.007041	0.000000	0.000000	0.000000
SY	Mode 145	0.006834	0.000000	0.000000	0.000000
SY	Mode 146	0.006834	0.000000	0.000000	0.000000
SY	Mode 147	0.006659	0.000000	0.000000	0.000000
SY	Mode 148	0.006649	0.000000	0.000000	0.000000
SY	Mode 149	0.006649	0.000000	0.000000	0.000000
SY	Mode 150	0.006649	0.000000	0.000000	0.000000
SY	Mode 151	0.006649	0.000000	0.000000	0.000000
SY	Mode 152	0.006543	0.000000	0.000000	0.000000
SY	Mode 153	0.006538	0.000000	0.000006	0.000000
SY	Mode 154	0.006503	0.000000	0.000000	0.000000
SY	Mode 155	0.006503	0.000000	0.000000	0.000000
SY	Mode 156	0.006503	0.000000	0.000000	0.000000
SY	Mode 157	0.006177	0.000000	0.000000	0.000000
SY	Mode 158	0.006107	0.000000	0.000000	0.000000
SY	Mode 159	0.006107	0.000000	0.000000	0.000000
SY	Mode 160	0.006081	0.000000	0.000000	0.000000
SY	Mode 161	0.006075	0.000000	0.000000	0.000000
SY	Mode 162	0.006075	0.000000	0.000000	0.000000
SY	Mode 163	0.006075	0.000000	0.000000	0.000000
SY	Mode 164	0.006075	0.000000	0.000000	0.000000
SY	Mode 165	0.005980	0.000000	0.000004	0.000000
SY	Mode 166	0.005940	0.000000	0.000000	0.000000
SY	Mode 167	0.005938	0.000000	0.000000	0.000000
SY	Mode 168	0.005938	0.000000	0.000000	0.000000
SY	Mode 169	0.005938	0.000000	0.000000	0.000000
SY	Mode 170	0.005933	0.000000	0.000000	0.000000
SY	Mode 171	0.005933	0.000000	0.000000	0.000000
SY	Mode 172	0.005933	0.000000	0.000000	0.000000
SY	Mode 173	0.005933	0.000000	0.000000	0.000000
SY	Mode 174	0.005843	0.000000	-0.000002	0.000000
SY	Mode 175	0.005825	0.000000	0.000002	0.000000
SY	Mode 176	0.005825	0.000000	0.000000	0.000000
SY	Mode 177	0.005825	0.000000	-0.000001	0.000000
SY	Mode 178	0.005825	0.000000	-0.000002	0.000000
SY	Mode 179	0.005801	0.000000	-0.000004	0.000000
SY	Mode 180	0.005758	0.000000	0.000000	0.000000
SY	Mode 181	0.005758	0.000000	0.000000	0.000000
SY	Mode 182	0.005758	0.000000	0.000000	0.000000
SY	Mode 183	0.005758	0.000000	0.000000	0.000000
SY	Mode 184	0.005747	0.000000	0.000000	0.000000
SY	Mode 185	0.005747	0.000000	-0.000002	0.000000
SY	Mode 186	0.005747	0.000000	0.000001	0.000000
SY	Mode 187	0.005596	0.000000	0.000000	0.000000
SY	Mode 188	0.005596	0.000000	0.000000	0.000000
SY	Mode 189	0.005416	0.000000	0.000000	0.000000
SY	Mode 190	0.005394	0.000000	0.000000	0.000000
SY	Mode 191	0.005378	0.000000	-0.000002	0.000000
SY	Mode 192	0.005378	0.000000	-0.000001	0.000000
SY	Mode 193	0.005335	0.000000	0.000000	0.000000
SY	Mode 194	0.005333	0.000000	0.000000	0.000000
SY	Mode 195	0.005333	0.000000	0.000000	0.000000
SY	Mode 196	0.005333	0.000000	0.000000	0.000000
SY	Mode 197	0.005333	0.000000	0.000000	0.000000
SY	Mode 198	0.005300	0.000000	0.000000	0.000000
SY	Mode 199	0.005245	0.000000	0.000000	0.000000
SY	Mode 200	0.005245	0.000000	0.000000	0.000000

SXUD	Mode 1	0.465317	0.022985	0.000000	0.000000
SXUD	Mode 2	0.419794	0.088578	0.000000	0.000000
SXUD	Mode 3	0.360776	0.018926	0.000000	0.000000
SXUD	Mode 4	0.306954	-0.045948	0.000000	0.000000
SXUD	Mode 5	0.256472	0.016396	0.000000	0.000000
SXUD	Mode 6	0.255750	0.000082	0.000000	0.000000
SXUD	Mode 7	0.247095	0.002047	0.000000	0.000000
SXUD	Mode 8	0.247041	0.021457	0.000000	0.000000
SXUD	Mode 9	0.243581	0.000146	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SXUD	Mode 10	0.203055	-0.000047	0.000000	0.000000
SXUD	Mode 11	0.203045	-0.000004	0.000000	0.000000
SXUD	Mode 12	0.201786	0.000059	0.000000	0.000000
SXUD	Mode 13	0.187790	-0.000467	0.000000	0.000000
SXUD	Mode 14	0.182958	0.000194	0.000000	0.000000
SXUD	Mode 15	0.181516	-0.000163	0.000000	0.000000
SXUD	Mode 16	0.181490	-0.001355	0.000000	0.000000
SXUD	Mode 17	0.177306	-0.003722	0.000000	0.000000
SXUD	Mode 18	0.131487	-0.001302	0.000000	0.000000
SXUD	Mode 19	0.043731	0.000008	0.000000	0.000000
SXUD	Mode 20	0.039950	-0.000008	0.000000	0.000000
SXUD	Mode 21	0.038449	0.000001	0.000000	0.000000
SXUD	Mode 22	0.037747	-0.000011	0.000000	0.000000
SXUD	Mode 23	0.034976	-0.000014	0.000000	0.000000
SXUD	Mode 24	0.032369	0.000000	0.000000	0.000000
SXUD	Mode 25	0.032340	0.000001	0.000000	0.000000
SXUD	Mode 26	0.031247	0.000003	0.000000	0.000000
SXUD	Mode 27	0.030783	0.000000	0.000000	0.000000
SXUD	Mode 28	0.029715	-0.000001	0.000000	0.000000
SXUD	Mode 29	0.029700	0.000000	0.000000	0.000000
SXUD	Mode 30	0.029306	0.000000	0.000000	0.000000
SXUD	Mode 31	0.029092	-0.000003	0.000000	0.000000
SXUD	Mode 32	0.028943	0.000000	0.000000	0.000000
SXUD	Mode 33	0.028699	0.000000	0.000000	0.000000
SXUD	Mode 34	0.028677	0.000000	0.000000	0.000000
SXUD	Mode 35	0.028070	-0.000002	0.000000	0.000000
SXUD	Mode 36	0.028066	-0.000004	0.000000	0.000000
SXUD	Mode 37	0.027333	0.000000	0.000000	0.000000
SXUD	Mode 38	0.026659	0.000002	0.000000	0.000000
SXUD	Mode 39	0.026655	0.000000	0.000000	0.000000
SXUD	Mode 40	0.025109	0.000004	0.000000	0.000000
SXUD	Mode 41	0.024756	0.000003	0.000000	0.000000
SXUD	Mode 42	0.024092	0.000002	0.000000	0.000000
SXUD	Mode 43	0.023583	-0.000001	0.000000	0.000000
SXUD	Mode 44	0.023291	0.000002	0.000000	0.000000
SXUD	Mode 45	0.023289	-0.000002	0.000000	0.000000
SXUD	Mode 46	0.022674	0.000000	0.000000	0.000000
SXUD	Mode 47	0.022402	0.000002	0.000000	0.000000
SXUD	Mode 48	0.022401	0.000002	0.000000	0.000000
SXUD	Mode 49	0.022240	-0.000001	0.000000	0.000000
SXUD	Mode 50	0.022127	0.000000	0.000000	0.000000
SXUD	Mode 51	0.021902	-0.000001	0.000000	0.000000
SXUD	Mode 52	0.021900	0.000001	0.000000	0.000000
SXUD	Mode 53	0.021548	-0.000004	0.000000	0.000000
SXUD	Mode 54	0.021398	0.000002	0.000000	0.000000
SXUD	Mode 55	0.021315	0.000001	0.000000	0.000000
SXUD	Mode 56	0.021312	-0.000002	0.000000	0.000000
SXUD	Mode 57	0.018071	-0.000001	0.000000	0.000000
SXUD	Mode 58	0.017719	-0.000001	0.000000	0.000000
SXUD	Mode 59	0.017678	0.000000	0.000000	0.000000
SXUD	Mode 60	0.017061	0.000000	0.000000	0.000000
SXUD	Mode 61	0.016559	-0.000001	0.000000	0.000000
SXUD	Mode 62	0.016388	0.000000	0.000000	0.000000
SXUD	Mode 63	0.016247	0.000001	0.000000	0.000000
SXUD	Mode 64	0.015960	-0.000001	0.000000	0.000000
SXUD	Mode 65	0.015468	0.000000	0.000000	0.000000
SXUD	Mode 66	0.015365	0.000000	0.000000	0.000000
SXUD	Mode 67	0.015101	0.000001	0.000000	0.000000
SXUD	Mode 68	0.014879	0.000000	0.000000	0.000000
SXUD	Mode 69	0.014131	0.000000	0.000000	0.000000
SXUD	Mode 70	0.014043	0.000000	0.000000	0.000000
SXUD	Mode 71	0.013999	0.000001	0.000000	0.000000
SXUD	Mode 72	0.013931	0.000001	0.000000	0.000000
SXUD	Mode 73	0.013903	0.000000	0.000000	0.000000
SXUD	Mode 74	0.013879	0.000000	0.000000	0.000000
SXUD	Mode 75	0.013733	0.000001	0.000000	0.000000
SXUD	Mode 76	0.013698	0.000000	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SXUD	Mode 77	0.013619	0.000000	0.000000	0.000000
SXUD	Mode 78	0.013578	0.000000	0.000000	0.000000
SXUD	Mode 79	0.013578	0.000000	0.000000	0.000000
SXUD	Mode 80	0.013473	0.000000	0.000000	0.000000
SXUD	Mode 81	0.013377	0.000000	0.000000	0.000000
SXUD	Mode 82	0.013243	0.000000	0.000000	0.000000
SXUD	Mode 83	0.013048	0.000000	0.000000	0.000000
SXUD	Mode 84	0.013024	0.000000	0.000000	0.000000
SXUD	Mode 85	0.013024	0.000000	0.000000	0.000000
SXUD	Mode 86	0.012992	0.000000	0.000000	0.000000
SXUD	Mode 87	0.012979	0.000000	0.000000	0.000000
SXUD	Mode 88	0.012888	-0.000001	0.000000	0.000000
SXUD	Mode 89	0.012598	0.000000	0.000000	0.000000
SXUD	Mode 90	0.012536	0.000000	0.000000	0.000000
SXUD	Mode 91	0.012455	0.000000	0.000000	0.000000
SXUD	Mode 92	0.012111	0.000000	0.000000	0.000000
SXUD	Mode 93	0.011760	0.000000	0.000000	0.000000
SXUD	Mode 94	0.011732	0.000000	0.000000	0.000000
SXUD	Mode 95	0.011722	0.000000	0.000000	0.000000
SXUD	Mode 96	0.011722	0.000001	0.000000	0.000000
SXUD	Mode 97	0.011607	0.000000	0.000000	0.000000
SXUD	Mode 98	0.011417	0.000000	0.000000	0.000000
SXUD	Mode 99	0.010604	0.000000	0.000000	0.000000
SXUD	Mode 100	0.010589	0.000000	0.000000	0.000000
SXUD	Mode 101	0.010508	0.000000	0.000000	0.000000
SXUD	Mode 102	0.010508	0.000000	0.000000	0.000000
SXUD	Mode 103	0.010500	0.000000	0.000000	0.000000
SXUD	Mode 104	0.010392	0.000000	0.000000	0.000000
SXUD	Mode 105	0.010343	0.000000	0.000000	0.000000
SXUD	Mode 106	0.010315	0.000000	0.000000	0.000000
SXUD	Mode 107	0.010286	0.000000	0.000000	0.000000
SXUD	Mode 108	0.010286	0.000000	0.000000	0.000000
SXUD	Mode 109	0.010169	0.000000	0.000000	0.000000
SXUD	Mode 110	0.010096	0.000000	0.000000	0.000000
SXUD	Mode 111	0.010096	0.000000	0.000000	0.000000
SXUD	Mode 112	0.009771	0.000000	0.000000	0.000000
SXUD	Mode 113	0.009157	0.000000	0.000000	0.000000
SXUD	Mode 114	0.009084	0.000000	0.000000	0.000000
SXUD	Mode 115	0.009084	0.000000	0.000000	0.000000
SXUD	Mode 116	0.009084	0.000000	0.000000	0.000000
SXUD	Mode 117	0.009084	0.000000	0.000000	0.000000
SXUD	Mode 118	0.008606	0.000000	0.000000	0.000000
SXUD	Mode 119	0.008606	0.000000	0.000000	0.000000
SXUD	Mode 120	0.008606	0.000000	0.000000	0.000000
SXUD	Mode 121	0.008453	0.000000	0.000000	0.000000
SXUD	Mode 122	0.008453	0.000000	0.000000	0.000000
SXUD	Mode 123	0.007740	0.000003	0.000000	0.000000
SXUD	Mode 124	0.007738	-0.000001	0.000000	0.000000
SXUD	Mode 125	0.007738	-0.000003	0.000000	0.000000
SXUD	Mode 126	0.007738	0.000002	0.000000	0.000000
SXUD	Mode 127	0.007738	-0.000005	0.000000	0.000000
SXUD	Mode 128	0.007684	0.000002	0.000000	0.000000
SXUD	Mode 129	0.007684	-0.000003	0.000000	0.000000
SXUD	Mode 130	0.007684	-0.000004	0.000000	0.000000
SXUD	Mode 131	0.007436	0.000000	0.000000	0.000000
SXUD	Mode 132	0.007410	0.000000	0.000000	0.000000
SXUD	Mode 133	0.007410	0.000000	0.000000	0.000000
SXUD	Mode 134	0.007410	0.000000	0.000000	0.000000
SXUD	Mode 135	0.007410	0.000000	0.000000	0.000000
SXUD	Mode 136	0.007238	0.000000	0.000000	0.000000
SXUD	Mode 137	0.007238	0.000000	0.000000	0.000000
SXUD	Mode 138	0.007238	0.000000	0.000000	0.000000
SXUD	Mode 139	0.007123	0.000000	0.000000	0.000000
SXUD	Mode 140	0.007123	0.000000	0.000000	0.000000
SXUD	Mode 141	0.007123	0.000000	0.000000	0.000000
SXUD	Mode 142	0.007123	0.000000	0.000000	0.000000
SXUD	Mode 143	0.007041	0.000003	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SXUD	Mode 144	0.007041	0.000000	0.000000	0.000000
SXUD	Mode 145	0.006834	0.000000	0.000000	0.000000
SXUD	Mode 146	0.006834	0.000000	0.000000	0.000000
SXUD	Mode 147	0.006659	0.000000	0.000000	0.000000
SXUD	Mode 148	0.006649	0.000000	0.000000	0.000000
SXUD	Mode 149	0.006649	0.000000	0.000000	0.000000
SXUD	Mode 150	0.006649	0.000000	0.000000	0.000000
SXUD	Mode 151	0.006649	0.000000	0.000000	0.000000
SXUD	Mode 152	0.006543	0.000000	0.000000	0.000000
SXUD	Mode 153	0.006538	0.000000	0.000000	0.000000
SXUD	Mode 154	0.006503	0.000000	0.000000	0.000000
SXUD	Mode 155	0.006503	0.000000	0.000000	0.000000
SXUD	Mode 156	0.006503	0.000000	0.000000	0.000000
SXUD	Mode 157	0.006177	0.000000	0.000000	0.000000
SXUD	Mode 158	0.006107	0.000000	0.000000	0.000000
SXUD	Mode 159	0.006107	0.000000	0.000000	0.000000
SXUD	Mode 160	0.006081	-0.000001	0.000000	0.000000
SXUD	Mode 161	0.006075	-0.000001	0.000000	0.000000
SXUD	Mode 162	0.006075	0.000000	0.000000	0.000000
SXUD	Mode 163	0.006075	0.000000	0.000000	0.000000
SXUD	Mode 164	0.006075	-0.000001	0.000000	0.000000
SXUD	Mode 165	0.005980	0.000000	0.000000	0.000000
SXUD	Mode 166	0.005940	0.000001	0.000000	0.000000
SXUD	Mode 167	0.005938	-0.000001	0.000000	0.000000
SXUD	Mode 168	0.005938	0.000000	0.000000	0.000000
SXUD	Mode 169	0.005938	0.000001	0.000000	0.000000
SXUD	Mode 170	0.005933	0.000000	0.000000	0.000000
SXUD	Mode 171	0.005933	0.000003	0.000000	0.000000
SXUD	Mode 172	0.005933	0.000000	0.000000	0.000000
SXUD	Mode 173	0.005933	0.000000	0.000000	0.000000
SXUD	Mode 174	0.005843	0.000000	0.000000	0.000000
SXUD	Mode 175	0.005825	0.000000	0.000000	0.000000
SXUD	Mode 176	0.005825	0.000000	0.000000	0.000000
SXUD	Mode 177	0.005825	0.000000	0.000000	0.000000
SXUD	Mode 178	0.005825	0.000000	0.000000	0.000000
SXUD	Mode 179	0.005801	0.000000	0.000000	0.000000
SXUD	Mode 180	0.005758	0.000000	0.000000	0.000000
SXUD	Mode 181	0.005758	0.000000	0.000000	0.000000
SXUD	Mode 182	0.005758	0.000000	0.000000	0.000000
SXUD	Mode 183	0.005758	0.000000	0.000000	0.000000
SXUD	Mode 184	0.005747	0.000000	0.000000	0.000000
SXUD	Mode 185	0.005747	0.000000	0.000000	0.000000
SXUD	Mode 186	0.005747	0.000000	0.000000	0.000000
SXUD	Mode 187	0.005596	-0.000001	0.000000	0.000000
SXUD	Mode 188	0.005596	0.000000	0.000000	0.000000
SXUD	Mode 189	0.005416	0.000000	0.000000	0.000000
SXUD	Mode 190	0.005394	0.000000	0.000000	0.000000
SXUD	Mode 191	0.005378	0.000000	0.000000	0.000000
SXUD	Mode 192	0.005378	0.000000	0.000000	0.000000
SXUD	Mode 193	0.005335	0.000000	0.000000	0.000000
SXUD	Mode 194	0.005333	0.000000	0.000000	0.000000
SXUD	Mode 195	0.005333	0.000000	0.000000	0.000000
SXUD	Mode 196	0.005333	0.000000	0.000000	0.000000
SXUD	Mode 197	0.005333	0.000000	0.000000	0.000000
SXUD	Mode 198	0.005300	0.000000	0.000000	0.000000
SXUD	Mode 199	0.005245	0.000000	0.000000	0.000000
SXUD	Mode 200	0.005245	0.000000	0.000000	0.000000

SYDU	Mode 1	0.465317	0.000000	-0.108602	0.000000
SYDU	Mode 2	0.419794	0.000000	0.024841	0.000000
SYDU	Mode 3	0.360776	0.000000	-0.015533	0.000000
SYDU	Mode 4	0.306954	0.000000	0.000078	0.000000
SYDU	Mode 5	0.256472	0.000000	0.000072	0.000000
SYDU	Mode 6	0.255750	0.000000	0.029708	0.000000
SYDU	Mode 7	0.247095	0.000000	-0.000011	0.000000
SYDU	Mode 8	0.247041	0.000000	0.000029	0.000000
SYDU	Mode 9	0.243581	0.000000	-0.009090	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SYDU	Mode 10	0.203055	0.000000	0.013145	0.000000
SYDU	Mode 11	0.203045	0.000000	0.000221	0.000000
SYDU	Mode 12	0.201786	0.000000	-0.008593	0.000000
SYDU	Mode 13	0.187790	0.000000	0.005687	0.000000
SYDU	Mode 14	0.182958	0.000000	0.001544	0.000000
SYDU	Mode 15	0.181516	0.000000	-0.000017	0.000000
SYDU	Mode 16	0.181490	0.000000	-0.000144	0.000000
SYDU	Mode 17	0.177306	0.000000	-0.000582	0.000000
SYDU	Mode 18	0.131487	0.000000	0.000058	0.000000
SYDU	Mode 19	0.043731	0.000000	0.000001	0.000000
SYDU	Mode 20	0.039950	0.000000	0.000000	0.000000
SYDU	Mode 21	0.038449	0.000000	-0.000001	0.000000
SYDU	Mode 22	0.037747	0.000000	0.000000	0.000000
SYDU	Mode 23	0.034976	0.000000	-0.000001	0.000000
SYDU	Mode 24	0.032369	0.000000	0.000000	0.000000
SYDU	Mode 25	0.032340	0.000000	-0.000009	0.000000
SYDU	Mode 26	0.031247	0.000000	0.000000	0.000000
SYDU	Mode 27	0.030783	0.000000	-0.000006	0.000000
SYDU	Mode 28	0.029715	0.000000	0.000000	0.000000
SYDU	Mode 29	0.029700	0.000000	0.000008	0.000000
SYDU	Mode 30	0.029306	0.000000	-0.000004	0.000000
SYDU	Mode 31	0.029092	0.000000	0.000000	0.000000
SYDU	Mode 32	0.028943	0.000000	0.000007	0.000000
SYDU	Mode 33	0.028699	0.000000	-0.000006	0.000000
SYDU	Mode 34	0.028677	0.000000	0.000000	0.000000
SYDU	Mode 35	0.028070	0.000000	0.000000	0.000000
SYDU	Mode 36	0.028066	0.000000	0.000000	0.000000
SYDU	Mode 37	0.027333	0.000000	0.000005	0.000000
SYDU	Mode 38	0.026659	0.000000	0.000000	0.000000
SYDU	Mode 39	0.026655	0.000000	0.000000	0.000000
SYDU	Mode 40	0.025109	0.000000	0.000001	0.000000
SYDU	Mode 41	0.024756	0.000000	0.000000	0.000000
SYDU	Mode 42	0.024092	0.000000	0.000000	0.000000
SYDU	Mode 43	0.023583	0.000000	0.000003	0.000000
SYDU	Mode 44	0.023291	0.000000	0.000002	0.000000
SYDU	Mode 45	0.023289	0.000000	-0.000002	0.000000
SYDU	Mode 46	0.022674	0.000000	-0.000003	0.000000
SYDU	Mode 47	0.022402	0.000000	-0.000003	0.000000
SYDU	Mode 48	0.022401	0.000000	-0.000002	0.000000
SYDU	Mode 49	0.022240	0.000000	-0.000002	0.000000
SYDU	Mode 50	0.022127	0.000000	0.000003	0.000000
SYDU	Mode 51	0.021902	0.000000	0.000003	0.000000
SYDU	Mode 52	0.021900	0.000000	-0.000003	0.000000
SYDU	Mode 53	0.021548	0.000000	0.000000	0.000000
SYDU	Mode 54	0.021398	0.000000	0.000000	0.000000
SYDU	Mode 55	0.021315	0.000000	0.000001	0.000000
SYDU	Mode 56	0.021312	0.000000	-0.000002	0.000000
SYDU	Mode 57	0.018071	0.000000	0.000000	0.000000
SYDU	Mode 58	0.017719	0.000000	0.000000	0.000000
SYDU	Mode 59	0.017678	0.000000	0.000000	0.000000
SYDU	Mode 60	0.017061	0.000000	0.000000	0.000000
SYDU	Mode 61	0.016559	0.000000	0.000000	0.000000
SYDU	Mode 62	0.016388	0.000000	0.000000	0.000000
SYDU	Mode 63	0.016247	0.000000	0.000000	0.000000
SYDU	Mode 64	0.015960	0.000000	0.000000	0.000000
SYDU	Mode 65	0.015468	0.000000	0.000000	0.000000
SYDU	Mode 66	0.015365	0.000000	-0.000001	0.000000
SYDU	Mode 67	0.015101	0.000000	0.000000	0.000000
SYDU	Mode 68	0.014879	0.000000	0.000000	0.000000
SYDU	Mode 69	0.014131	0.000000	0.000000	0.000000
SYDU	Mode 70	0.014043	0.000000	-0.000001	0.000000
SYDU	Mode 71	0.013999	0.000000	0.000000	0.000000
SYDU	Mode 72	0.013931	0.000000	0.000000	0.000000
SYDU	Mode 73	0.013903	0.000000	0.000000	0.000000
SYDU	Mode 74	0.013879	0.000000	0.000001	0.000000
SYDU	Mode 75	0.013733	0.000000	0.000000	0.000000
SYDU	Mode 76	0.013698	0.000000	-0.000001	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SYDU	Mode 77	0.013619	0.000000	0.000000	0.000000
SYDU	Mode 78	0.013578	0.000000	0.000000	0.000000
SYDU	Mode 79	0.013578	0.000000	0.000000	0.000000
SYDU	Mode 80	0.013473	0.000000	0.000000	0.000000
SYDU	Mode 81	0.013377	0.000000	0.000000	0.000000
SYDU	Mode 82	0.013243	0.000000	0.000000	0.000000
SYDU	Mode 83	0.013048	0.000000	-0.000001	0.000000
SYDU	Mode 84	0.013024	0.000000	0.000000	0.000000
SYDU	Mode 85	0.013024	0.000000	0.000000	0.000000
SYDU	Mode 86	0.012992	0.000000	0.000000	0.000000
SYDU	Mode 87	0.012979	0.000000	0.000000	0.000000
SYDU	Mode 88	0.012888	0.000000	0.000000	0.000000
SYDU	Mode 89	0.012598	0.000000	0.000001	0.000000
SYDU	Mode 90	0.012536	0.000000	0.000001	0.000000
SYDU	Mode 91	0.012455	0.000000	0.000001	0.000000
SYDU	Mode 92	0.012111	0.000000	0.000001	0.000000
SYDU	Mode 93	0.011760	0.000000	0.000000	0.000000
SYDU	Mode 94	0.011732	0.000000	0.000000	0.000000
SYDU	Mode 95	0.011722	0.000000	0.000000	0.000000
SYDU	Mode 96	0.011722	0.000000	0.000000	0.000000
SYDU	Mode 97	0.011607	0.000000	0.000000	0.000000
SYDU	Mode 98	0.011417	0.000000	0.000000	0.000000
SYDU	Mode 99	0.010604	0.000000	0.000000	0.000000
SYDU	Mode 100	0.010589	0.000000	0.000000	0.000000
SYDU	Mode 101	0.010508	0.000000	0.000001	0.000000
SYDU	Mode 102	0.010508	0.000000	-0.000001	0.000000
SYDU	Mode 103	0.010500	0.000000	0.000001	0.000000
SYDU	Mode 104	0.010392	0.000000	0.000000	0.000000
SYDU	Mode 105	0.010343	0.000000	0.000000	0.000000
SYDU	Mode 106	0.010315	0.000000	0.000000	0.000000
SYDU	Mode 107	0.010286	0.000000	0.000000	0.000000
SYDU	Mode 108	0.010286	0.000000	0.000000	0.000000
SYDU	Mode 109	0.010169	0.000000	0.000000	0.000000
SYDU	Mode 110	0.010096	0.000000	0.000000	0.000000
SYDU	Mode 111	0.010096	0.000000	0.000000	0.000000
SYDU	Mode 112	0.009771	0.000000	0.000000	0.000000
SYDU	Mode 113	0.009157	0.000000	-0.000004	0.000000
SYDU	Mode 114	0.009084	0.000000	0.000003	0.000000
SYDU	Mode 115	0.009084	0.000000	-0.000007	0.000000
SYDU	Mode 116	0.009084	0.000000	0.000004	0.000000
SYDU	Mode 117	0.009084	0.000000	0.000003	0.000000
SYDU	Mode 118	0.008606	0.000000	-0.000001	0.000000
SYDU	Mode 119	0.008606	0.000000	-0.000005	0.000000
SYDU	Mode 120	0.008606	0.000000	-0.000004	0.000000
SYDU	Mode 121	0.008453	0.000000	0.000004	0.000000
SYDU	Mode 122	0.008453	0.000000	0.000003	0.000000
SYDU	Mode 123	0.007740	0.000000	0.000000	0.000000
SYDU	Mode 124	0.007738	0.000000	0.000000	0.000000
SYDU	Mode 125	0.007738	0.000000	0.000000	0.000000
SYDU	Mode 126	0.007738	0.000000	0.000000	0.000000
SYDU	Mode 127	0.007738	0.000000	0.000000	0.000000
SYDU	Mode 128	0.007684	0.000000	0.000000	0.000000
SYDU	Mode 129	0.007684	0.000000	0.000000	0.000000
SYDU	Mode 130	0.007684	0.000000	0.000000	0.000000
SYDU	Mode 131	0.007436	0.000000	0.000000	0.000000
SYDU	Mode 132	0.007410	0.000000	0.000000	0.000000
SYDU	Mode 133	0.007410	0.000000	0.000000	0.000000
SYDU	Mode 134	0.007410	0.000000	0.000000	0.000000
SYDU	Mode 135	0.007410	0.000000	0.000000	0.000000
SYDU	Mode 136	0.007238	0.000000	0.000000	0.000000
SYDU	Mode 137	0.007238	0.000000	0.000000	0.000000
SYDU	Mode 138	0.007238	0.000000	0.000000	0.000000
SYDU	Mode 139	0.007123	0.000000	-0.000001	0.000000
SYDU	Mode 140	0.007123	0.000000	-0.000004	0.000000
SYDU	Mode 141	0.007123	0.000000	0.000000	0.000000
SYDU	Mode 142	0.007123	0.000000	0.000001	0.000000
SYDU	Mode 143	0.007041	0.000000	0.000000	0.000000

CENTRO CRECER - DATOS DE ENTRADA II

SYDU	Mode 144	0.007041	0.000000	0.000000	0.000000
SYDU	Mode 145	0.006834	0.000000	0.000000	0.000000
SYDU	Mode 146	0.006834	0.000000	0.000000	0.000000
SYDU	Mode 147	0.006659	0.000000	0.000000	0.000000
SYDU	Mode 148	0.006649	0.000000	0.000000	0.000000
SYDU	Mode 149	0.006649	0.000000	0.000000	0.000000
SYDU	Mode 150	0.006649	0.000000	0.000000	0.000000
SYDU	Mode 151	0.006649	0.000000	0.000000	0.000000
SYDU	Mode 152	0.006543	0.000000	0.000000	0.000000
SYDU	Mode 153	0.006538	0.000000	0.000002	0.000000
SYDU	Mode 154	0.006503	0.000000	0.000000	0.000000
SYDU	Mode 155	0.006503	0.000000	0.000000	0.000000
SYDU	Mode 156	0.006503	0.000000	0.000000	0.000000
SYDU	Mode 157	0.006177	0.000000	0.000000	0.000000
SYDU	Mode 158	0.006107	0.000000	0.000000	0.000000
SYDU	Mode 159	0.006107	0.000000	0.000000	0.000000
SYDU	Mode 160	0.006081	0.000000	0.000000	0.000000
SYDU	Mode 161	0.006075	0.000000	0.000000	0.000000
SYDU	Mode 162	0.006075	0.000000	0.000000	0.000000
SYDU	Mode 163	0.006075	0.000000	0.000000	0.000000
SYDU	Mode 164	0.006075	0.000000	0.000000	0.000000
SYDU	Mode 165	0.005980	0.000000	0.000001	0.000000
SYDU	Mode 166	0.005940	0.000000	0.000000	0.000000
SYDU	Mode 167	0.005938	0.000000	0.000000	0.000000
SYDU	Mode 168	0.005938	0.000000	0.000000	0.000000
SYDU	Mode 169	0.005938	0.000000	0.000000	0.000000
SYDU	Mode 170	0.005933	0.000000	0.000000	0.000000
SYDU	Mode 171	0.005933	0.000000	0.000000	0.000000
SYDU	Mode 172	0.005933	0.000000	0.000000	0.000000
SYDU	Mode 173	0.005933	0.000000	0.000000	0.000000
SYDU	Mode 174	0.005843	0.000000	0.000000	0.000000
SYDU	Mode 175	0.005825	0.000000	0.000001	0.000000
SYDU	Mode 176	0.005825	0.000000	0.000000	0.000000
SYDU	Mode 177	0.005825	0.000000	0.000000	0.000000
SYDU	Mode 178	0.005825	0.000000	-0.000001	0.000000
SYDU	Mode 179	0.005801	0.000000	-0.000001	0.000000
SYDU	Mode 180	0.005758	0.000000	0.000000	0.000000
SYDU	Mode 181	0.005758	0.000000	0.000000	0.000000
SYDU	Mode 182	0.005758	0.000000	0.000000	0.000000
SYDU	Mode 183	0.005758	0.000000	0.000000	0.000000
SYDU	Mode 184	0.005747	0.000000	0.000000	0.000000
SYDU	Mode 185	0.005747	0.000000	-0.000001	0.000000
SYDU	Mode 186	0.005747	0.000000	0.000000	0.000000
SYDU	Mode 187	0.005596	0.000000	0.000000	0.000000
SYDU	Mode 188	0.005596	0.000000	0.000000	0.000000
SYDU	Mode 189	0.005416	0.000000	0.000000	0.000000
SYDU	Mode 190	0.005394	0.000000	0.000000	0.000000
SYDU	Mode 191	0.005378	0.000000	0.000000	0.000000
SYDU	Mode 192	0.005378	0.000000	0.000000	0.000000
SYDU	Mode 193	0.005335	0.000000	0.000000	0.000000
SYDU	Mode 194	0.005333	0.000000	0.000000	0.000000
SYDU	Mode 195	0.005333	0.000000	0.000000	0.000000
SYDU	Mode 196	0.005333	0.000000	0.000000	0.000000
SYDU	Mode 197	0.005333	0.000000	0.000000	0.000000
SYDU	Mode 198	0.005300	0.000000	0.000000	0.000000
SYDU	Mode 199	0.005245	0.000000	0.000000	0.000000
SYDU	Mode 200	0.005245	0.000000	0.000000	0.000000

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RESPONSE SPECTRUM BASE REACTIONS
(IN RESPONSE SPECTRUM LOCAL COORDINATES)

SPEC	MODE	DIR	F1	F2	F3	M1	M2	M3
SX	Mode 1	U1	7.47	-35.00	0.00	226.652	45.184	-2177.208

CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 2	U1	167.38	46.57	0.00	-295.682	1060.950	667.748
SX	Mode 3	U1	14.01	-11.41	0.00	69.021	102.154	-1044.087
SX	Mode 4	U1	157.56	-0.27	0.00	1.184	698.307	-3434.372
SX	Mode 5	U1	42.64	0.19	0.00	-0.827	170.332	-165.871
SX	Mode 6	U1	0.00	0.39	0.00	-1.730	-0.001	9.043
SX	Mode 7	U1	0.81	0.00	0.00	0.021	3.248	-3.120
SX	Mode 8	U1	88.97	0.12	0.00	-0.408	356.907	-342.408
SX	Mode 9	U1	0.00	-0.27	0.00	1.217	-0.015	-4.259
SX	Mode 10	U1	0.00	-0.33	0.00	1.333	0.004	-11.363
SX	Mode 11	U1	0.00	0.00	0.00	0.002	0.000	-0.250
SX	Mode 12	U1	0.00	-0.28	0.00	1.127	0.003	-1.922
SX	Mode 13	U1	0.18	-2.12	0.00	0.358	0.032	-131.862
SX	Mode 14	U1	0.03	0.27	0.00	-1.091	0.046	-0.130
SX	Mode 15	U1	0.03	0.00	0.00	-0.010	0.087	-0.532
SX	Mode 16	U1	1.76	0.19	0.00	-0.808	6.160	-21.341
SX	Mode 17	U1	14.95	2.32	0.00	-2.467	0.293	46.271
SX	Mode 18	U1	8.22	-0.37	0.00	2.099	-3.284	-180.513
SX	Mode 19	U1	0.05	0.01	0.00	-0.019	-0.021	0.217
SX	Mode 20	U1	0.08	0.00	0.00	-0.005	0.031	-0.001
SX	Mode 21	U1	0.00	0.00	0.00	0.001	0.001	-0.030
SX	Mode 22	U1	0.20	-0.01	0.00	0.019	-0.069	0.612
SX	Mode 23	U1	0.46	0.02	0.00	-0.008	-0.294	1.425
SX	Mode 24	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SX	Mode 25	U1	0.01	-0.04	0.00	0.017	-0.004	0.908
SX	Mode 26	U1	0.05	0.00	0.00	-0.005	0.001	-0.736
SX	Mode 27	U1	0.00	0.00	0.00	0.002	0.000	0.161
SX	Mode 28	U1	0.01	0.00	0.00	0.003	0.005	-0.138
SX	Mode 29	U1	0.00	0.00	0.00	-0.002	0.000	0.141
SX	Mode 30	U1	0.00	0.01	0.00	-0.003	0.000	0.414
SX	Mode 31	U1	0.06	0.00	0.00	-0.004	-0.016	0.098
SX	Mode 32	U1	0.00	0.00	0.00	0.001	0.000	0.001
SX	Mode 33	U1	0.00	0.01	0.00	-0.004	-0.001	0.893
SX	Mode 34	U1	0.00	0.00	0.00	0.000	0.001	0.005
SX	Mode 35	U1	0.02	0.00	0.00	-0.003	0.007	-0.229
SX	Mode 36	U1	0.09	0.01	0.00	-0.010	0.025	-1.009
SX	Mode 37	U1	0.00	0.00	0.00	-0.003	0.000	-0.179
SX	Mode 38	U1	0.03	-0.01	0.00	0.008	0.020	-0.479
SX	Mode 39	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 40	U1	0.13	0.02	0.00	-0.002	-0.149	-1.356
SX	Mode 41	U1	0.08	0.00	0.00	-0.004	0.027	-1.187
SX	Mode 42	U1	0.05	0.00	0.00	-0.005	-0.015	0.138
SX	Mode 43	U1	0.02	-0.05	0.00	0.008	-0.023	-1.454
SX	Mode 44	U1	0.04	0.04	0.00	-0.010	-0.029	2.116
SX	Mode 45	U1	0.07	0.07	0.00	-0.019	-0.058	2.716
SX	Mode 46	U1	0.00	-0.01	0.00	0.002	-0.002	-0.190
SX	Mode 47	U1	0.09	-0.10	0.00	0.028	-0.072	-4.474
SX	Mode 48	U1	0.05	-0.06	0.00	0.017	-0.045	-3.925
SX	Mode 49	U1	0.01	0.04	0.00	-0.005	-0.017	-1.203
SX	Mode 50	U1	0.00	-0.01	0.00	0.003	0.000	-0.446
SX	Mode 51	U1	0.01	-0.03	0.00	0.009	-0.004	-1.605
SX	Mode 52	U1	0.01	-0.03	0.00	0.009	-0.004	-0.996
SX	Mode 53	U1	0.26	0.00	0.00	0.007	0.102	-2.968
SX	Mode 54	U1	0.08	0.00	0.00	0.011	0.023	0.651
SX	Mode 55	U1	0.04	0.04	0.00	-0.011	-0.037	-1.570
SX	Mode 56	U1	0.08	0.07	0.00	-0.021	-0.066	-1.432
SX	Mode 57	U1	0.02	0.00	0.00	0.004	0.006	-0.775
SX	Mode 58	U1	0.04	0.00	0.00	-0.002	-0.009	-1.422
SX	Mode 59	U1	0.00	0.00	0.00	0.000	0.001	0.036
SX	Mode 60	U1	0.00	0.00	0.00	0.000	-0.003	-0.090
SX	Mode 61	U1	0.02	0.00	0.00	0.000	-0.022	-0.271
SX	Mode 62	U1	0.01	0.00	0.00	0.000	-0.005	-0.222
SX	Mode 63	U1	0.02	0.00	0.00	-0.001	-0.015	-0.270
SX	Mode 64	U1	0.09	0.00	0.00	0.000	-0.075	-4.253
SX	Mode 65	U1	0.00	0.00	0.00	0.000	0.000	-0.012
SX	Mode 66	U1	0.00	0.00	0.00	0.000	0.000	0.003
SX	Mode 67	U1	0.02	0.00	0.00	0.002	0.001	0.248
SX	Mode 68	U1	0.01	0.00	0.00	0.000	0.008	-0.100

CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 69	U1	0.00	0.00	0.00	0.004	0.000	0.232
SX	Mode 70	U1	0.00	0.01	0.00	0.000	0.000	0.450
SX	Mode 71	U1	0.03	-0.01	0.00	-0.001	-0.007	-2.214
SX	Mode 72	U1	0.11	-0.01	0.00	0.001	-0.034	-3.201
SX	Mode 73	U1	0.00	0.00	0.00	0.001	0.002	0.028
SX	Mode 74	U1	0.00	0.01	0.00	-0.005	0.000	-0.079
SX	Mode 75	U1	0.10	0.00	0.00	0.000	-0.019	-1.578
SX	Mode 76	U1	0.00	0.00	0.00	0.002	0.000	-0.062
SX	Mode 77	U1	0.00	0.00	0.00	0.000	0.000	0.006
SX	Mode 78	U1	0.03	0.00	0.00	0.000	0.000	0.231
SX	Mode 79	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 80	U1	0.01	0.00	0.00	0.000	-0.001	0.116
SX	Mode 81	U1	0.00	0.00	0.00	0.000	0.000	0.003
SX	Mode 82	U1	0.00	0.00	0.00	0.000	0.000	-0.005
SX	Mode 83	U1	0.00	0.00	0.00	0.000	0.000	-0.039
SX	Mode 84	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 85	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 86	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 87	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 88	U1	0.05	0.00	0.00	0.006	-0.023	0.579
SX	Mode 89	U1	0.00	0.00	0.00	0.000	0.000	-0.042
SX	Mode 90	U1	0.00	0.00	0.00	0.000	0.000	0.001
SX	Mode 91	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SX	Mode 92	U1	0.00	0.00	0.00	0.000	0.000	-0.053
SX	Mode 93	U1	0.00	0.00	0.00	0.000	0.001	-0.002
SX	Mode 94	U1	0.04	0.00	0.00	0.001	-0.042	0.397
SX	Mode 95	U1	0.00	0.00	0.00	0.000	-0.001	0.012
SX	Mode 96	U1	0.08	0.00	0.00	0.000	-0.084	0.850
SX	Mode 97	U1	0.00	0.01	0.00	-0.003	0.000	0.399
SX	Mode 98	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SX	Mode 99	U1	0.02	-0.03	0.00	0.011	0.005	-2.494
SX	Mode 100	U1	0.03	0.02	0.00	-0.011	0.002	-0.202
SX	Mode 101	U1	0.00	0.00	0.00	0.000	0.000	0.001
SX	Mode 102	U1	0.00	0.00	0.00	0.000	0.000	-0.005
SX	Mode 103	U1	0.00	0.00	0.00	0.000	0.000	0.002
SX	Mode 104	U1	0.00	0.00	0.00	0.000	0.000	-0.019
SX	Mode 105	U1	0.00	0.00	0.00	0.000	-0.001	0.118
SX	Mode 106	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SX	Mode 107	U1	0.00	0.00	0.00	0.000	0.000	0.122
SX	Mode 108	U1	0.00	0.00	0.00	0.000	0.000	0.038
SX	Mode 109	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 110	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 111	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 112	U1	0.05	0.00	0.00	0.000	0.018	-1.682
SX	Mode 113	U1	0.00	0.00	0.00	0.000	0.000	-0.005
SX	Mode 114	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SX	Mode 115	U1	0.00	0.00	0.00	0.000	0.000	0.027
SX	Mode 116	U1	0.00	0.00	0.00	0.000	0.000	-0.003
SX	Mode 117	U1	0.00	0.00	0.00	0.000	0.000	-0.002
SX	Mode 118	U1	0.00	0.00	0.00	0.000	0.000	0.020
SX	Mode 119	U1	0.00	0.00	0.00	0.000	0.000	0.011
SX	Mode 120	U1	0.00	0.00	0.00	0.000	0.000	0.041
SX	Mode 121	U1	0.00	0.00	0.00	0.000	0.000	0.007
SX	Mode 122	U1	0.00	0.00	0.00	0.000	0.000	-0.022
SX	Mode 123	U1	12.88	0.00	0.00	0.000	1.288	-319.804
SX	Mode 124	U1	1.15	0.00	0.00	0.000	0.115	-28.578
SX	Mode 125	U1	13.23	0.00	0.00	0.000	1.323	-328.885
SX	Mode 126	U1	3.09	0.00	0.00	0.000	0.309	-76.626
SX	Mode 127	U1	33.88	0.00	0.00	0.000	3.388	-842.155
SX	Mode 128	U1	5.20	0.00	0.00	0.000	0.519	-89.219
SX	Mode 129	U1	13.82	0.00	0.00	0.000	1.382	-237.538
SX	Mode 130	U1	17.01	0.00	0.00	0.000	1.701	-292.094
SX	Mode 131	U1	0.01	0.01	0.00	-0.001	0.001	-0.701
SX	Mode 132	U1	0.00	0.00	0.00	0.000	0.000	-0.586
SX	Mode 133	U1	0.00	0.00	0.00	0.000	0.000	-0.144
SX	Mode 134	U1	0.01	0.00	0.00	0.000	0.001	-2.035
SX	Mode 135	U1	0.00	0.00	0.00	0.000	0.000	-0.087

CENTRO CRECER - DATOS DE ENTRADA II

SX	Mode 136	U1	0.00	0.00	0.00	0.000	0.000	-0.003
SX	Mode 137	U1	0.00	0.00	0.00	0.000	0.000	0.002
SX	Mode 138	U1	0.00	0.00	0.00	0.000	0.000	-0.003
SX	Mode 139	U1	0.00	0.00	0.00	0.000	0.000	-0.008
SX	Mode 140	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SX	Mode 141	U1	0.00	0.00	0.00	0.000	0.000	0.142
SX	Mode 142	U1	0.00	0.00	0.00	0.000	0.000	-0.010
SX	Mode 143	U1	22.27	0.00	0.00	0.000	2.227	-90.908
SX	Mode 144	U1	0.21	0.00	0.00	0.000	0.021	-0.876
SX	Mode 145	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 146	U1	0.00	0.00	0.00	0.000	0.000	-0.015
SX	Mode 147	U1	0.00	0.00	0.00	0.000	0.000	0.062
SX	Mode 148	U1	0.00	0.00	0.00	0.000	0.000	0.003
SX	Mode 149	U1	0.00	0.00	0.00	0.000	0.000	0.012
SX	Mode 150	U1	0.00	0.00	0.00	0.000	0.000	0.042
SX	Mode 151	U1	0.00	0.00	0.00	0.000	0.000	0.143
SX	Mode 152	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 153	U1	0.00	0.00	0.00	0.000	0.000	0.159
SX	Mode 154	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 155	U1	0.00	0.00	0.00	0.000	0.000	0.002
SX	Mode 156	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 157	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 158	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SX	Mode 159	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SX	Mode 160	U1	1.50	0.00	0.00	0.000	0.150	-37.581
SX	Mode 161	U1	3.05	0.00	0.00	0.000	0.305	-76.200
SX	Mode 162	U1	0.18	0.00	0.00	0.000	0.018	-4.507
SX	Mode 163	U1	0.47	0.00	0.00	0.000	0.047	-11.810
SX	Mode 164	U1	2.17	0.00	0.00	0.000	0.217	-54.222
SX	Mode 165	U1	0.16	1.04	0.00	-0.104	0.016	61.718
SX	Mode 166	U1	8.58	-0.44	0.00	0.044	0.858	-65.212
SX	Mode 167	U1	2.04	0.00	0.00	0.000	0.204	-34.970
SX	Mode 168	U1	0.02	0.00	0.00	0.000	0.002	-0.362
SX	Mode 169	U1	1.51	0.00	0.00	0.000	0.151	-25.911
SX	Mode 170	U1	0.02	0.00	0.00	0.000	0.002	-0.061
SX	Mode 171	U1	31.21	0.00	0.00	0.000	3.121	-127.289
SX	Mode 172	U1	0.69	0.00	0.00	0.000	0.069	-2.801
SX	Mode 173	U1	0.01	0.00	0.00	0.000	0.001	-0.078
SX	Mode 174	U1	0.00	0.00	0.00	0.000	0.000	0.015
SX	Mode 175	U1	0.00	0.00	0.00	0.000	0.000	-0.078
SX	Mode 176	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SX	Mode 177	U1	0.00	0.00	0.00	0.000	0.000	0.012
SX	Mode 178	U1	0.00	-0.01	0.00	0.001	0.000	-0.109
SX	Mode 179	U1	0.00	0.00	0.00	0.000	0.000	-0.051
SX	Mode 180	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 181	U1	0.00	0.00	0.00	0.000	0.000	-0.013
SX	Mode 182	U1	0.00	0.00	0.00	0.000	0.000	0.028
SX	Mode 183	U1	0.00	0.00	0.00	0.000	0.000	-0.007
SX	Mode 184	U1	0.00	0.00	0.00	0.000	0.000	-0.026
SX	Mode 185	U1	0.00	0.00	0.00	0.000	0.000	0.087
SX	Mode 186	U1	0.00	0.00	0.00	0.000	0.000	-0.026
SX	Mode 187	U1	2.60	0.00	0.00	0.000	0.260	-10.662
SX	Mode 188	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SX	Mode 189	U1	0.00	0.00	0.00	0.000	0.000	0.015
SX	Mode 190	U1	0.00	0.00	0.00	0.000	0.000	-0.052
SX	Mode 191	U1	0.00	0.00	0.00	0.000	0.000	0.005
SX	Mode 192	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SX	Mode 193	U1	0.00	0.00	0.00	0.000	0.000	-0.253
SX	Mode 194	U1	0.00	0.00	0.00	0.000	0.000	-0.015
SX	Mode 195	U1	0.00	0.00	0.00	0.000	0.000	-0.015
SX	Mode 196	U1	0.01	0.00	0.00	0.000	0.001	-0.817
SX	Mode 197	U1	0.00	0.00	0.00	0.000	0.000	-0.137
SX	Mode 198	U1	0.00	0.00	0.00	0.000	0.000	-0.005
SX	Mode 199	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	Mode 200	U1	0.00	0.00	0.00	0.000	0.000	0.000
SX	All	All	327.48	41.63	0.00	265.409	1540.627	5086.918

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 1	U2	-33.60	157.49	0.00	-1019.957	-203.331	9797.668
SY	Mode 2	U2	44.71	12.44	0.00	-78.977	283.380	178.355
SY	Mode 3	U2	-10.95	8.91	0.00	-53.950	-79.848	816.102
SY	Mode 4	U2	-0.26	0.00	0.00	-0.002	-1.134	5.580
SY	Mode 5	U2	0.18	0.00	0.00	-0.003	0.714	-0.695
SY	Mode 6	U2	0.37	134.25	0.00	-596.184	-0.310	3116.499
SY	Mode 7	U2	0.00	0.00	0.00	0.000	-0.017	0.016
SY	Mode 8	U2	0.11	0.00	0.00	-0.001	0.452	-0.433
SY	Mode 9	U2	-0.26	16.25	0.00	-71.967	0.867	251.802
SY	Mode 10	U2	-0.32	87.76	0.00	-351.965	-1.174	3001.231
SY	Mode 11	U2	0.00	0.02	0.00	-0.099	-0.002	14.723
SY	Mode 12	U2	-0.27	38.74	0.00	-155.120	-0.375	264.570
SY	Mode 13	U2	-2.03	24.58	0.00	-4.153	-0.372	1530.202
SY	Mode 14	U2	0.26	2.07	0.00	-8.279	0.346	-0.984
SY	Mode 15	U2	0.00	0.00	0.00	-0.001	0.008	-0.052
SY	Mode 16	U2	0.18	0.02	0.00	-0.082	0.625	-2.165
SY	Mode 17	U2	2.23	0.35	0.00	-0.368	0.044	6.897
SY	Mode 18	U2	-0.35	0.02	0.00	-0.090	0.140	7.704
SY	Mode 19	U2	0.01	0.00	0.00	-0.003	-0.004	0.038
SY	Mode 20	U2	0.00	0.00	0.00	0.000	0.001	0.000
SY	Mode 21	U2	0.00	0.00	0.00	-0.001	-0.001	0.019
SY	Mode 22	U2	-0.01	0.00	0.00	-0.001	0.002	-0.022
SY	Mode 23	U2	0.02	0.00	0.00	0.000	-0.012	0.060
SY	Mode 24	U2	0.00	0.00	0.00	-0.001	0.000	0.018
SY	Mode 25	U2	-0.04	0.26	0.00	-0.103	0.026	-5.596
SY	Mode 26	U2	0.00	0.00	0.00	0.000	0.000	-0.057
SY	Mode 27	U2	0.00	0.13	0.00	0.138	0.004	8.952
SY	Mode 28	U2	0.00	0.00	0.00	0.000	-0.001	0.023
SY	Mode 29	U2	0.00	0.31	0.00	-0.153	0.002	11.378
SY	Mode 30	U2	0.01	0.08	0.00	-0.034	-0.005	4.962
SY	Mode 31	U2	0.00	0.00	0.00	0.000	0.000	0.002
SY	Mode 32	U2	0.00	0.27	0.00	-0.086	-0.004	-0.069
SY	Mode 33	U2	0.01	0.18	0.00	-0.054	-0.008	11.795
SY	Mode 34	U2	0.00	0.00	0.00	0.000	0.000	0.003
SY	Mode 35	U2	0.00	0.00	0.00	0.000	0.001	-0.021
SY	Mode 36	U2	0.01	0.00	0.00	-0.001	0.002	-0.097
SY	Mode 37	U2	0.00	0.15	0.00	0.141	-0.014	7.693
SY	Mode 38	U2	0.00	0.00	0.00	-0.001	-0.004	0.091
SY	Mode 39	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 40	U2	0.02	0.00	0.00	0.000	-0.028	-0.252
SY	Mode 41	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 42	U2	0.00	0.00	0.00	0.000	0.000	-0.003
SY	Mode 43	U2	-0.05	0.13	0.00	-0.020	0.058	3.678
SY	Mode 44	U2	0.04	0.04	0.00	-0.009	-0.029	2.064
SY	Mode 45	U2	0.07	0.07	0.00	-0.019	-0.056	2.651
SY	Mode 46	U2	-0.01	0.11	0.00	-0.017	0.015	1.713
SY	Mode 47	U2	-0.09	0.10	0.00	-0.030	0.076	4.763
SY	Mode 48	U2	-0.06	0.06	0.00	-0.018	0.047	4.149
SY	Mode 49	U2	0.03	0.09	0.00	-0.013	-0.042	-2.899
SY	Mode 50	U2	-0.01	0.13	0.00	-0.069	0.002	10.165
SY	Mode 51	U2	-0.03	0.18	0.00	-0.052	0.025	9.089
SY	Mode 52	U2	-0.03	0.18	0.00	-0.052	0.025	5.682
SY	Mode 53	U2	0.00	0.00	0.00	0.000	0.000	-0.012
SY	Mode 54	U2	0.00	0.00	0.00	0.000	0.001	0.019
SY	Mode 55	U2	0.04	0.03	0.00	-0.009	-0.031	-1.338
SY	Mode 56	U2	0.07	0.06	0.00	-0.018	-0.056	-1.221
SY	Mode 57	U2	0.00	0.00	0.00	0.000	0.000	0.062
SY	Mode 58	U2	0.00	0.00	0.00	0.000	0.000	-0.048
SY	Mode 59	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 60	U2	0.00	0.00	0.00	0.000	0.000	0.006
SY	Mode 61	U2	0.00	0.00	0.00	0.000	0.000	0.006
SY	Mode 62	U2	0.00	0.00	0.00	0.000	0.000	-0.007
SY	Mode 63	U2	0.00	0.00	0.00	0.000	0.000	-0.008
SY	Mode 64	U2	0.00	0.00	0.00	0.000	0.000	-0.012
SY	Mode 65	U2	0.00	0.02	0.00	-0.020	0.000	0.816
SY	Mode 66	U2	0.00	0.03	0.00	-0.004	0.000	0.419

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 67	U2	0.00	0.00	0.00	0.000	0.000	-0.015
SY	Mode 68	U2	0.00	0.00	0.00	0.000	0.000	0.005
SY	Mode 69	U2	0.00	0.02	0.00	0.017	-0.001	0.961
SY	Mode 70	U2	0.01	0.06	0.00	0.002	-0.002	2.881
SY	Mode 71	U2	-0.01	0.01	0.00	0.000	0.003	1.043
SY	Mode 72	U2	0.00	0.00	0.00	0.000	0.002	0.141
SY	Mode 73	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 74	U2	0.01	0.05	0.00	-0.044	-0.002	-0.663
SY	Mode 75	U2	0.00	0.00	0.00	0.000	0.000	-0.035
SY	Mode 76	U2	0.00	0.07	0.00	-0.039	0.001	1.369
SY	Mode 77	U2	0.00	0.00	0.00	-0.001	0.000	0.047
SY	Mode 78	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 79	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 80	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 81	U2	0.00	0.03	0.00	-0.005	0.000	0.279
SY	Mode 82	U2	0.00	0.01	0.00	0.018	0.000	0.494
SY	Mode 83	U2	0.00	0.09	0.00	-0.002	0.001	6.278
SY	Mode 84	U2	0.00	0.00	0.00	-0.001	0.000	0.019
SY	Mode 85	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 86	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 87	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 88	U2	0.00	0.00	0.00	0.000	0.002	-0.047
SY	Mode 89	U2	0.00	0.05	0.00	-0.002	-0.001	-2.386
SY	Mode 90	U2	0.00	0.07	0.00	0.000	0.000	2.038
SY	Mode 91	U2	0.00	0.10	0.00	0.004	0.000	-0.234
SY	Mode 92	U2	0.00	0.09	0.00	-0.029	0.000	5.297
SY	Mode 93	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 94	U2	0.00	0.00	0.00	0.000	0.001	-0.006
SY	Mode 95	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 96	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 97	U2	0.01	0.06	0.00	-0.033	-0.003	4.471
SY	Mode 98	U2	0.00	0.00	0.00	0.000	0.000	0.042
SY	Mode 99	U2	-0.02	0.03	0.00	-0.015	-0.007	3.314
SY	Mode 100	U2	0.02	0.02	0.00	-0.010	0.002	-0.177
SY	Mode 101	U2	0.00	0.10	0.00	-0.028	0.000	4.288
SY	Mode 102	U2	0.00	0.12	0.00	-0.035	0.000	3.135
SY	Mode 103	U2	0.00	0.11	0.00	-0.031	-0.001	0.522
SY	Mode 104	U2	0.00	0.00	0.00	0.000	0.000	0.029
SY	Mode 105	U2	0.00	0.00	0.00	0.000	0.000	0.047
SY	Mode 106	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 107	U2	0.00	0.00	0.00	0.000	0.000	-0.014
SY	Mode 108	U2	0.00	0.00	0.00	0.000	0.000	-0.005
SY	Mode 109	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 110	U2	0.00	0.00	0.00	0.000	0.000	0.019
SY	Mode 111	U2	0.00	0.00	0.00	0.000	0.000	0.004
SY	Mode 112	U2	0.00	0.00	0.00	0.000	0.000	0.009
SY	Mode 113	U2	0.00	12.75	0.00	-1.275	0.000	119.954
SY	Mode 114	U2	0.00	4.53	0.00	-0.453	0.000	43.732
SY	Mode 115	U2	0.00	31.54	0.00	-3.154	0.000	945.572
SY	Mode 116	U2	0.00	10.81	0.00	-1.081	0.000	227.176
SY	Mode 117	U2	0.00	4.17	0.00	-0.417	0.000	59.951
SY	Mode 118	U2	0.00	1.72	0.00	-0.172	0.000	115.823
SY	Mode 119	U2	0.00	22.71	0.00	-2.271	0.000	430.494
SY	Mode 120	U2	0.00	10.64	0.00	-1.064	0.000	293.913
SY	Mode 121	U2	0.00	13.17	0.00	-1.317	0.000	48.356
SY	Mode 122	U2	0.00	8.90	0.00	-0.890	0.000	89.582
SY	Mode 123	U2	0.00	0.00	0.00	0.000	0.000	0.050
SY	Mode 124	U2	0.00	0.00	0.00	0.000	0.000	0.003
SY	Mode 125	U2	0.00	0.00	0.00	0.000	0.000	-0.014
SY	Mode 126	U2	0.00	0.00	0.00	0.000	0.000	-0.034
SY	Mode 127	U2	0.00	0.00	0.00	0.000	0.000	0.071
SY	Mode 128	U2	0.00	0.00	0.00	0.000	0.000	-0.007
SY	Mode 129	U2	0.00	0.00	0.00	0.000	0.000	0.030
SY	Mode 130	U2	0.00	0.00	0.00	0.000	0.000	0.003
SY	Mode 131	U2	0.01	0.01	0.00	-0.001	0.001	-0.675
SY	Mode 132	U2	0.00	0.00	0.00	0.000	0.000	0.006
SY	Mode 133	U2	0.00	0.00	0.00	0.000	0.000	0.002

CENTRO CRECER - DATOS DE ENTRADA II

SY	Mode 134	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 135	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 136	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 137	U2	0.00	0.00	0.00	0.000	0.000	0.002
SY	Mode 138	U2	0.00	0.00	0.00	0.000	0.000	0.006
SY	Mode 139	U2	0.00	0.56	0.00	-0.056	0.000	29.103
SY	Mode 140	U2	0.00	29.77	0.00	-2.977	0.000	1015.854
SY	Mode 141	U2	0.00	0.02	0.00	-0.002	0.000	8.057
SY	Mode 142	U2	0.00	0.99	0.00	-0.099	0.000	24.249
SY	Mode 143	U2	0.00	0.00	0.00	0.000	0.000	0.011
SY	Mode 144	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 145	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 146	U2	0.00	0.00	0.00	0.000	0.000	0.018
SY	Mode 147	U2	0.00	0.00	0.00	0.000	0.000	0.047
SY	Mode 148	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 149	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 150	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 151	U2	0.00	0.00	0.00	0.000	0.000	0.007
SY	Mode 152	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 153	U2	0.00	8.15	0.00	-0.815	0.000	534.558
SY	Mode 154	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 155	U2	0.00	0.00	0.00	0.000	0.000	-0.003
SY	Mode 156	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 157	U2	0.00	0.00	0.00	0.000	0.000	-0.003
SY	Mode 158	U2	0.00	0.00	0.00	0.000	0.000	0.003
SY	Mode 159	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 160	U2	0.00	0.00	0.00	0.000	0.000	0.115
SY	Mode 161	U2	0.00	0.00	0.00	0.000	0.000	-0.006
SY	Mode 162	U2	0.00	0.00	0.00	0.000	0.000	0.015
SY	Mode 163	U2	0.00	0.00	0.00	0.000	0.000	-0.052
SY	Mode 164	U2	0.00	0.00	0.00	0.000	0.000	-0.060
SY	Mode 165	U2	1.00	6.49	0.00	-0.649	0.100	384.901
SY	Mode 166	U2	-0.43	0.02	0.00	-0.002	-0.043	3.243
SY	Mode 167	U2	0.00	0.00	0.00	0.000	0.000	-0.010
SY	Mode 168	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 169	U2	0.00	0.00	0.00	0.000	0.000	0.037
SY	Mode 170	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 171	U2	0.00	0.00	0.00	0.000	0.000	0.015
SY	Mode 172	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 173	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 174	U2	0.00	0.86	0.00	-0.086	0.000	8.027
SY	Mode 175	U2	0.00	2.04	0.00	-0.204	0.000	59.316
SY	Mode 176	U2	0.00	0.01	0.00	-0.001	0.000	0.746
SY	Mode 177	U2	0.00	0.38	0.00	-0.038	0.000	4.932
SY	Mode 178	U2	0.00	1.04	0.00	-0.104	0.000	21.898
SY	Mode 179	U2	0.00	5.62	0.00	-0.562	0.000	339.351
SY	Mode 180	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 181	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SY	Mode 182	U2	0.00	0.00	0.00	0.000	0.000	-0.004
SY	Mode 183	U2	0.00	0.00	0.00	0.000	0.000	0.006
SY	Mode 184	U2	0.00	0.08	0.00	-0.008	0.000	-0.743
SY	Mode 185	U2	0.00	1.59	0.00	-0.159	0.000	29.722
SY	Mode 186	U2	0.00	0.76	0.00	-0.076	0.000	28.847
SY	Mode 187	U2	0.00	0.00	0.00	0.000	0.000	0.005
SY	Mode 188	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 189	U2	0.00	0.00	0.00	0.000	0.000	-0.010
SY	Mode 190	U2	0.00	0.00	0.00	0.000	0.000	0.003
SY	Mode 191	U2	0.00	1.31	0.00	-0.131	0.000	6.672
SY	Mode 192	U2	0.00	0.18	0.00	-0.018	0.000	2.596
SY	Mode 193	U2	0.00	0.00	0.00	0.000	0.000	0.020
SY	Mode 194	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 195	U2	0.00	0.00	0.00	0.000	0.000	0.000
SY	Mode 196	U2	0.00	0.00	0.00	0.000	0.000	-0.002
SY	Mode 197	U2	0.00	0.00	0.00	0.000	0.000	0.006
SY	Mode 198	U2	0.00	0.00	0.00	0.000	0.000	0.005
SY	Mode 199	U2	0.00	0.00	0.00	0.000	0.000	0.001
SY	Mode 200	U2	0.00	0.00	0.00	0.000	0.000	0.012

CENTRO CRECER - DATOS DE ENTRADA II

SY	All	All	39.97	309.61	0.00	1417.418	250.625	12210.604
SXUD	Mode 1	U1	5.92	-27.74	0.00	179.642	35.812	-1725.632
SXUD	Mode 2	U1	132.66	36.91	0.00	-234.355	840.898	529.250
SXUD	Mode 3	U1	11.10	-9.04	0.00	54.706	80.966	-827.533
SXUD	Mode 4	U1	124.88	-0.21	0.00	0.938	553.470	-2722.047
SXUD	Mode 5	U1	33.21	0.14	0.00	-0.644	132.645	-129.172
SXUD	Mode 6	U1	0.00	0.30	0.00	-1.345	-0.001	7.029
SXUD	Mode 7	U1	0.62	0.00	0.00	0.016	2.471	-2.373
SXUD	Mode 8	U1	67.66	0.09	0.00	-0.311	271.402	-260.377
SXUD	Mode 9	U1	0.00	-0.21	0.00	0.917	-0.011	-3.210
SXUD	Mode 10	U1	0.00	-0.22	0.00	0.899	0.003	-7.668
SXUD	Mode 11	U1	0.00	0.00	0.00	0.001	0.000	-0.168
SXUD	Mode 12	U1	0.00	-0.19	0.00	0.758	0.002	-1.292
SXUD	Mode 13	U1	0.11	-1.37	0.00	0.231	0.021	-85.059
SXUD	Mode 14	U1	0.02	0.17	0.00	-0.694	0.029	-0.082
SXUD	Mode 15	U1	0.02	0.00	0.00	-0.006	0.055	-0.336
SXUD	Mode 16	U1	1.11	0.12	0.00	-0.511	3.898	-13.504
SXUD	Mode 17	U1	9.34	1.45	0.00	-1.541	0.183	28.901
SXUD	Mode 18	U1	4.40	-0.20	0.00	1.124	-1.760	-96.717
SXUD	Mode 19	U1	0.02	0.00	0.00	-0.007	-0.008	0.079
SXUD	Mode 20	U1	0.03	0.00	0.00	-0.002	0.011	0.000
SXUD	Mode 21	U1	0.00	0.00	0.00	0.000	0.000	-0.010
SXUD	Mode 22	U1	0.07	0.00	0.00	0.007	-0.024	0.216
SXUD	Mode 23	U1	0.16	0.01	0.00	-0.003	-0.102	0.496
SXUD	Mode 24	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 25	U1	0.00	-0.01	0.00	0.006	-0.001	0.311
SXUD	Mode 26	U1	0.02	0.00	0.00	-0.002	0.000	-0.251
SXUD	Mode 27	U1	0.00	0.00	0.00	0.001	0.000	0.055
SXUD	Mode 28	U1	0.00	0.00	0.00	0.001	0.002	-0.047
SXUD	Mode 29	U1	0.00	0.00	0.00	-0.001	0.000	0.048
SXUD	Mode 30	U1	0.00	0.00	0.00	-0.001	0.000	0.139
SXUD	Mode 31	U1	0.02	0.00	0.00	-0.001	-0.005	0.033
SXUD	Mode 32	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 33	U1	0.00	0.00	0.00	-0.001	0.000	0.300
SXUD	Mode 34	U1	0.00	0.00	0.00	0.000	0.000	0.002
SXUD	Mode 35	U1	0.01	0.00	0.00	-0.001	0.002	-0.077
SXUD	Mode 36	U1	0.03	0.00	0.00	-0.003	0.008	-0.338
SXUD	Mode 37	U1	0.00	0.00	0.00	-0.001	0.000	-0.060
SXUD	Mode 38	U1	0.01	0.00	0.00	0.003	0.007	-0.159
SXUD	Mode 39	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 40	U1	0.04	0.01	0.00	-0.001	-0.049	-0.446
SXUD	Mode 41	U1	0.03	0.00	0.00	-0.001	0.009	-0.390
SXUD	Mode 42	U1	0.02	0.00	0.00	-0.002	-0.005	0.045
SXUD	Mode 43	U1	0.01	-0.02	0.00	0.003	-0.008	-0.474
SXUD	Mode 44	U1	0.01	0.01	0.00	-0.003	-0.010	0.689
SXUD	Mode 45	U1	0.02	0.02	0.00	-0.006	-0.019	0.884
SXUD	Mode 46	U1	0.00	0.00	0.00	0.001	-0.001	-0.061
SXUD	Mode 47	U1	0.03	-0.03	0.00	0.009	-0.023	-1.448
SXUD	Mode 48	U1	0.02	-0.02	0.00	0.006	-0.014	-1.271
SXUD	Mode 49	U1	0.00	0.01	0.00	-0.002	-0.006	-0.389
SXUD	Mode 50	U1	0.00	0.00	0.00	0.001	0.000	-0.144
SXUD	Mode 51	U1	0.00	-0.01	0.00	0.003	-0.001	-0.518
SXUD	Mode 52	U1	0.00	-0.01	0.00	0.003	-0.001	-0.321
SXUD	Mode 53	U1	0.08	0.00	0.00	0.002	0.033	-0.956
SXUD	Mode 54	U1	0.03	0.00	0.00	0.004	0.007	0.210
SXUD	Mode 55	U1	0.01	0.01	0.00	-0.004	-0.012	-0.505
SXUD	Mode 56	U1	0.03	0.02	0.00	-0.007	-0.021	-0.461
SXUD	Mode 57	U1	0.01	0.00	0.00	0.001	0.002	-0.244
SXUD	Mode 58	U1	0.01	0.00	0.00	-0.001	-0.003	-0.447
SXUD	Mode 59	U1	0.00	0.00	0.00	0.000	0.000	0.011
SXUD	Mode 60	U1	0.00	0.00	0.00	0.000	-0.001	-0.028
SXUD	Mode 61	U1	0.01	0.00	0.00	0.000	-0.007	-0.085
SXUD	Mode 62	U1	0.00	0.00	0.00	0.000	-0.002	-0.069
SXUD	Mode 63	U1	0.01	0.00	0.00	0.000	-0.005	-0.084
SXUD	Mode 64	U1	0.03	0.00	0.00	0.000	-0.023	-1.323

CENTRO CRECER - DATOS DE ENTRADA II

SXUD	Mode 65	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SXUD	Mode 66	U1	0.00	0.00	0.00	0.000	0.000	0.001
SXUD	Mode 67	U1	0.01	0.00	0.00	0.001	0.000	0.077
SXUD	Mode 68	U1	0.00	0.00	0.00	0.000	0.003	-0.031
SXUD	Mode 69	U1	0.00	0.00	0.00	0.001	0.000	0.071
SXUD	Mode 70	U1	0.00	0.00	0.00	0.000	0.000	0.138
SXUD	Mode 71	U1	0.01	0.00	0.00	0.000	-0.002	-0.680
SXUD	Mode 72	U1	0.03	0.00	0.00	0.000	-0.010	-0.984
SXUD	Mode 73	U1	0.00	0.00	0.00	0.000	0.001	0.009
SXUD	Mode 74	U1	0.00	0.00	0.00	-0.002	0.000	-0.024
SXUD	Mode 75	U1	0.03	0.00	0.00	0.000	-0.006	-0.484
SXUD	Mode 76	U1	0.00	0.00	0.00	0.001	0.000	-0.019
SXUD	Mode 77	U1	0.00	0.00	0.00	0.000	0.000	0.002
SXUD	Mode 78	U1	0.01	0.00	0.00	0.000	0.000	0.071
SXUD	Mode 79	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 80	U1	0.00	0.00	0.00	0.000	0.000	0.035
SXUD	Mode 81	U1	0.00	0.00	0.00	0.000	0.000	0.001
SXUD	Mode 82	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 83	U1	0.00	0.00	0.00	0.000	0.000	-0.012
SXUD	Mode 84	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 85	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 86	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 87	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 88	U1	0.01	0.00	0.00	0.002	-0.007	0.177
SXUD	Mode 89	U1	0.00	0.00	0.00	0.000	0.000	-0.013
SXUD	Mode 90	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 91	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 92	U1	0.00	0.00	0.00	0.000	0.000	-0.016
SXUD	Mode 93	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 94	U1	0.01	0.00	0.00	0.000	-0.013	0.120
SXUD	Mode 95	U1	0.00	0.00	0.00	0.000	0.000	0.004
SXUD	Mode 96	U1	0.02	0.00	0.00	0.000	-0.025	0.257
SXUD	Mode 97	U1	0.00	0.00	0.00	-0.001	0.000	0.121
SXUD	Mode 98	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 99	U1	0.01	-0.01	0.00	0.003	0.002	-0.750
SXUD	Mode 100	U1	0.01	0.01	0.00	-0.003	0.001	-0.061
SXUD	Mode 101	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 102	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 103	U1	0.00	0.00	0.00	0.000	0.000	0.001
SXUD	Mode 104	U1	0.00	0.00	0.00	0.000	0.000	-0.006
SXUD	Mode 105	U1	0.00	0.00	0.00	0.000	0.000	0.035
SXUD	Mode 106	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 107	U1	0.00	0.00	0.00	0.000	0.000	0.037
SXUD	Mode 108	U1	0.00	0.00	0.00	0.000	0.000	0.011
SXUD	Mode 109	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 110	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 111	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 112	U1	0.01	0.00	0.00	0.000	0.005	-0.503
SXUD	Mode 113	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 114	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 115	U1	0.00	0.00	0.00	0.000	0.000	0.008
SXUD	Mode 116	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 117	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 118	U1	0.00	0.00	0.00	0.000	0.000	0.006
SXUD	Mode 119	U1	0.00	0.00	0.00	0.000	0.000	0.003
SXUD	Mode 120	U1	0.00	0.00	0.00	0.000	0.000	0.012
SXUD	Mode 121	U1	0.00	0.00	0.00	0.000	0.000	0.002
SXUD	Mode 122	U1	0.00	0.00	0.00	0.000	0.000	-0.006
SXUD	Mode 123	U1	3.80	0.00	0.00	0.000	0.380	-94.419
SXUD	Mode 124	U1	0.34	0.00	0.00	0.000	0.034	-8.437
SXUD	Mode 125	U1	3.91	0.00	0.00	0.000	0.391	-97.099
SXUD	Mode 126	U1	0.91	0.00	0.00	0.000	0.091	-22.623
SXUD	Mode 127	U1	10.00	0.00	0.00	0.000	1.000	-248.636
SXUD	Mode 128	U1	1.53	0.00	0.00	0.000	0.153	-26.332
SXUD	Mode 129	U1	4.08	0.00	0.00	0.000	0.408	-70.106
SXUD	Mode 130	U1	5.02	0.00	0.00	0.000	0.502	-86.207
SXUD	Mode 131	U1	0.00	0.00	0.00	0.000	0.000	-0.206

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SXUD	Mode 132	U1	0.00	0.00	0.00	0.000	0.000	-0.173
SXUD	Mode 133	U1	0.00	0.00	0.00	0.000	0.000	-0.043
SXUD	Mode 134	U1	0.00	0.00	0.00	0.000	0.000	-0.600
SXUD	Mode 135	U1	0.00	0.00	0.00	0.000	0.000	-0.026
SXUD	Mode 136	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 137	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 138	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 139	U1	0.00	0.00	0.00	0.000	0.000	-0.002
SXUD	Mode 140	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 141	U1	0.00	0.00	0.00	0.000	0.000	0.042
SXUD	Mode 142	U1	0.00	0.00	0.00	0.000	0.000	-0.003
SXUD	Mode 143	U1	6.54	0.00	0.00	0.000	0.654	-26.716
SXUD	Mode 144	U1	0.06	0.00	0.00	0.000	0.006	-0.257
SXUD	Mode 145	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 146	U1	0.00	0.00	0.00	0.000	0.000	-0.005
SXUD	Mode 147	U1	0.00	0.00	0.00	0.000	0.000	0.018
SXUD	Mode 148	U1	0.00	0.00	0.00	0.000	0.000	0.001
SXUD	Mode 149	U1	0.00	0.00	0.00	0.000	0.000	0.004
SXUD	Mode 150	U1	0.00	0.00	0.00	0.000	0.000	0.012
SXUD	Mode 151	U1	0.00	0.00	0.00	0.000	0.000	0.042
SXUD	Mode 152	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 153	U1	0.00	0.00	0.00	0.000	0.000	0.047
SXUD	Mode 154	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 155	U1	0.00	0.00	0.00	0.000	0.000	0.001
SXUD	Mode 156	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 157	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 158	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 159	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 160	U1	0.44	0.00	0.00	0.000	0.044	-10.974
SXUD	Mode 161	U1	0.89	0.00	0.00	0.000	0.089	-22.251
SXUD	Mode 162	U1	0.05	0.00	0.00	0.000	0.005	-1.316
SXUD	Mode 163	U1	0.14	0.00	0.00	0.000	0.014	-3.449
SXUD	Mode 164	U1	0.63	0.00	0.00	0.000	0.063	-15.833
SXUD	Mode 165	U1	0.05	0.30	0.00	-0.030	0.005	18.011
SXUD	Mode 166	U1	2.50	-0.13	0.00	0.013	0.250	-19.025
SXUD	Mode 167	U1	0.59	0.00	0.00	0.000	0.059	-10.202
SXUD	Mode 168	U1	0.01	0.00	0.00	0.000	0.001	-0.106
SXUD	Mode 169	U1	0.44	0.00	0.00	0.000	0.044	-7.559
SXUD	Mode 170	U1	0.00	0.00	0.00	0.000	0.000	-0.018
SXUD	Mode 171	U1	9.11	0.00	0.00	0.000	0.911	-37.134
SXUD	Mode 172	U1	0.20	0.00	0.00	0.000	0.020	-0.817
SXUD	Mode 173	U1	0.00	0.00	0.00	0.000	0.000	-0.023
SXUD	Mode 174	U1	0.00	0.00	0.00	0.000	0.000	0.004
SXUD	Mode 175	U1	0.00	0.00	0.00	0.000	0.000	-0.023
SXUD	Mode 176	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 177	U1	0.00	0.00	0.00	0.000	0.000	0.003
SXUD	Mode 178	U1	0.00	0.00	0.00	0.000	0.000	-0.032
SXUD	Mode 179	U1	0.00	0.00	0.00	0.000	0.000	-0.015
SXUD	Mode 180	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 181	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SXUD	Mode 182	U1	0.00	0.00	0.00	0.000	0.000	0.008
SXUD	Mode 183	U1	0.00	0.00	0.00	0.000	0.000	-0.002
SXUD	Mode 184	U1	0.00	0.00	0.00	0.000	0.000	-0.008
SXUD	Mode 185	U1	0.00	0.00	0.00	0.000	0.000	0.025
SXUD	Mode 186	U1	0.00	0.00	0.00	0.000	0.000	-0.007
SXUD	Mode 187	U1	0.76	0.00	0.00	0.000	0.076	-3.104
SXUD	Mode 188	U1	0.00	0.00	0.00	0.000	0.000	-0.001
SXUD	Mode 189	U1	0.00	0.00	0.00	0.000	0.000	0.004
SXUD	Mode 190	U1	0.00	0.00	0.00	0.000	0.000	-0.015
SXUD	Mode 191	U1	0.00	0.00	0.00	0.000	0.000	0.001
SXUD	Mode 192	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 193	U1	0.00	0.00	0.00	0.000	0.000	-0.074
SXUD	Mode 194	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SXUD	Mode 195	U1	0.00	0.00	0.00	0.000	0.000	-0.004
SXUD	Mode 196	U1	0.00	0.00	0.00	0.000	0.000	-0.237
SXUD	Mode 197	U1	0.00	0.00	0.00	0.000	0.000	-0.040
SXUD	Mode 198	U1	0.00	0.00	0.00	0.000	0.000	-0.002

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SXUD	Mode 199	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	Mode 200	U1	0.00	0.00	0.00	0.000	0.000	0.000
SXUD	All	All	212.50	43.79	0.00	279.259	1100.520	3478.138
SYDU	Mode 1	U2	-27.96	131.06	0.00	-848.798	-169.210	8153.525
SYDU	Mode 2	U2	37.21	10.35	0.00	-65.724	235.826	148.426
SYDU	Mode 3	U2	-9.11	7.42	0.00	-44.897	-66.449	679.152
SYDU	Mode 4	U2	-0.21	0.00	0.00	-0.002	-0.944	4.643
SYDU	Mode 5	U2	0.15	0.00	0.00	-0.003	0.584	-0.568
SYDU	Mode 6	U2	0.31	109.57	0.00	-486.595	-0.253	2543.633
SYDU	Mode 7	U2	0.00	0.00	0.00	0.000	-0.013	0.013
SYDU	Mode 8	U2	0.09	0.00	0.00	0.000	0.361	-0.346
SYDU	Mode 9	U2	-0.21	12.86	0.00	-56.953	0.686	199.268
SYDU	Mode 10	U2	-0.23	62.19	0.00	-249.390	-0.832	2126.565
SYDU	Mode 11	U2	0.00	0.02	0.00	-0.070	-0.001	10.432
SYDU	Mode 12	U2	-0.19	27.35	0.00	-109.509	-0.265	186.777
SYDU	Mode 13	U2	-1.38	16.65	0.00	-2.812	-0.252	1036.388
SYDU	Mode 14	U2	0.17	1.38	0.00	-5.525	0.231	-0.657
SYDU	Mode 15	U2	0.00	0.00	0.00	-0.001	0.006	-0.035
SYDU	Mode 16	U2	0.12	0.01	0.00	-0.054	0.415	-1.439
SYDU	Mode 17	U2	1.46	0.23	0.00	-0.241	0.029	4.523
SYDU	Mode 18	U2	-0.20	0.01	0.00	-0.050	0.079	4.334
SYDU	Mode 19	U2	0.00	0.00	0.00	-0.001	-0.001	0.014
SYDU	Mode 20	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 21	U2	0.00	0.00	0.00	0.000	0.000	0.007
SYDU	Mode 22	U2	0.00	0.00	0.00	0.000	0.001	-0.008
SYDU	Mode 23	U2	0.01	0.00	0.00	0.000	-0.005	0.022
SYDU	Mode 24	U2	0.00	0.00	0.00	0.000	0.000	0.006
SYDU	Mode 25	U2	-0.01	0.09	0.00	-0.037	0.009	-2.015
SYDU	Mode 26	U2	0.00	0.00	0.00	0.000	0.000	-0.020
SYDU	Mode 27	U2	0.00	0.05	0.00	0.049	0.001	3.196
SYDU	Mode 28	U2	0.00	0.00	0.00	0.000	0.000	0.008
SYDU	Mode 29	U2	0.00	0.11	0.00	-0.054	0.001	4.037
SYDU	Mode 30	U2	0.00	0.03	0.00	-0.012	-0.002	1.756
SYDU	Mode 31	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 32	U2	0.00	0.09	0.00	-0.030	-0.001	-0.025
SYDU	Mode 33	U2	0.00	0.06	0.00	-0.019	-0.003	4.161
SYDU	Mode 34	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 35	U2	0.00	0.00	0.00	0.000	0.000	-0.008
SYDU	Mode 36	U2	0.00	0.00	0.00	0.000	0.001	-0.034
SYDU	Mode 37	U2	0.00	0.05	0.00	0.049	-0.005	2.692
SYDU	Mode 38	U2	0.00	0.00	0.00	-0.001	-0.001	0.032
SYDU	Mode 39	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 40	U2	0.01	0.00	0.00	0.000	-0.010	-0.087
SYDU	Mode 41	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 42	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SYDU	Mode 43	U2	-0.02	0.04	0.00	-0.007	0.020	1.259
SYDU	Mode 44	U2	0.01	0.01	0.00	-0.003	-0.010	0.705
SYDU	Mode 45	U2	0.02	0.02	0.00	-0.006	-0.019	0.906
SYDU	Mode 46	U2	0.00	0.04	0.00	-0.006	0.005	0.583
SYDU	Mode 47	U2	-0.03	0.04	0.00	-0.010	0.026	1.619
SYDU	Mode 48	U2	-0.02	0.02	0.00	-0.006	0.016	1.410
SYDU	Mode 49	U2	0.01	0.03	0.00	-0.004	-0.014	-0.985
SYDU	Mode 50	U2	0.00	0.04	0.00	-0.023	0.001	3.449
SYDU	Mode 51	U2	-0.01	0.06	0.00	-0.018	0.009	3.080
SYDU	Mode 52	U2	-0.01	0.06	0.00	-0.018	0.009	1.925
SYDU	Mode 53	U2	0.00	0.00	0.00	0.000	0.000	-0.004
SYDU	Mode 54	U2	0.00	0.00	0.00	0.000	0.000	0.006
SYDU	Mode 55	U2	0.01	0.01	0.00	-0.003	-0.011	-0.452
SYDU	Mode 56	U2	0.02	0.02	0.00	-0.006	-0.019	-0.412
SYDU	Mode 57	U2	0.00	0.00	0.00	0.000	0.000	0.021
SYDU	Mode 58	U2	0.00	0.00	0.00	0.000	0.000	-0.016
SYDU	Mode 59	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 60	U2	0.00	0.00	0.00	0.000	0.000	0.002
SYDU	Mode 61	U2	0.00	0.00	0.00	0.000	0.000	0.002
SYDU	Mode 62	U2	0.00	0.00	0.00	0.000	0.000	-0.002

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SYDU	Mode 63	U2	0.00	0.00	0.00	0.000	0.000	-0.003
SYDU	Mode 64	U2	0.00	0.00	0.00	0.000	0.000	-0.004
SYDU	Mode 65	U2	0.00	0.01	0.00	-0.007	0.000	0.266
SYDU	Mode 66	U2	0.00	0.01	0.00	-0.001	0.000	0.136
SYDU	Mode 67	U2	0.00	0.00	0.00	0.000	0.000	-0.005
SYDU	Mode 68	U2	0.00	0.00	0.00	0.000	0.000	0.002
SYDU	Mode 69	U2	0.00	0.01	0.00	0.006	0.000	0.310
SYDU	Mode 70	U2	0.00	0.02	0.00	0.001	-0.001	0.930
SYDU	Mode 71	U2	0.00	0.00	0.00	0.000	0.001	0.337
SYDU	Mode 72	U2	0.00	0.00	0.00	0.000	0.000	0.045
SYDU	Mode 73	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 74	U2	0.00	0.02	0.00	-0.014	-0.001	-0.214
SYDU	Mode 75	U2	0.00	0.00	0.00	0.000	0.000	-0.011
SYDU	Mode 76	U2	0.00	0.02	0.00	-0.013	0.000	0.441
SYDU	Mode 77	U2	0.00	0.00	0.00	0.000	0.000	0.015
SYDU	Mode 78	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 79	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 80	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 81	U2	0.00	0.01	0.00	-0.002	0.000	0.090
SYDU	Mode 82	U2	0.00	0.00	0.00	0.006	0.000	0.159
SYDU	Mode 83	U2	0.00	0.03	0.00	-0.001	0.000	2.014
SYDU	Mode 84	U2	0.00	0.00	0.00	0.000	0.000	0.006
SYDU	Mode 85	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 86	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 87	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 88	U2	0.00	0.00	0.00	0.000	0.001	-0.015
SYDU	Mode 89	U2	0.00	0.02	0.00	-0.001	0.000	-0.763
SYDU	Mode 90	U2	0.00	0.02	0.00	0.000	0.000	0.652
SYDU	Mode 91	U2	0.00	0.03	0.00	0.001	0.000	-0.075
SYDU	Mode 92	U2	0.00	0.03	0.00	-0.009	0.000	1.689
SYDU	Mode 93	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 94	U2	0.00	0.00	0.00	0.000	0.000	-0.002
SYDU	Mode 95	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 96	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 97	U2	0.00	0.02	0.00	-0.010	-0.001	1.421
SYDU	Mode 98	U2	0.00	0.00	0.00	0.000	0.000	0.013
SYDU	Mode 99	U2	-0.01	0.01	0.00	-0.005	-0.002	1.047
SYDU	Mode 100	U2	0.01	0.01	0.00	-0.003	0.001	-0.056
SYDU	Mode 101	U2	0.00	0.03	0.00	-0.009	0.000	1.354
SYDU	Mode 102	U2	0.00	0.04	0.00	-0.011	0.000	0.989
SYDU	Mode 103	U2	0.00	0.03	0.00	-0.010	0.000	0.165
SYDU	Mode 104	U2	0.00	0.00	0.00	0.000	0.000	0.009
SYDU	Mode 105	U2	0.00	0.00	0.00	0.000	0.000	0.015
SYDU	Mode 106	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 107	U2	0.00	0.00	0.00	0.000	0.000	-0.005
SYDU	Mode 108	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SYDU	Mode 109	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 110	U2	0.00	0.00	0.00	0.000	0.000	0.006
SYDU	Mode 111	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 112	U2	0.00	0.00	0.00	0.000	0.000	0.003
SYDU	Mode 113	U2	0.00	3.99	0.00	-0.399	0.000	37.531
SYDU	Mode 114	U2	0.00	1.42	0.00	-0.142	0.000	13.676
SYDU	Mode 115	U2	0.00	9.86	0.00	-0.986	0.000	295.711
SYDU	Mode 116	U2	0.00	3.38	0.00	-0.338	0.000	71.045
SYDU	Mode 117	U2	0.00	1.31	0.00	-0.131	0.000	18.749
SYDU	Mode 118	U2	0.00	0.54	0.00	-0.054	0.000	36.109
SYDU	Mode 119	U2	0.00	7.08	0.00	-0.708	0.000	134.211
SYDU	Mode 120	U2	0.00	3.32	0.00	-0.332	0.000	91.630
SYDU	Mode 121	U2	0.00	4.10	0.00	-0.410	0.000	15.060
SYDU	Mode 122	U2	0.00	2.77	0.00	-0.277	0.000	27.900
SYDU	Mode 123	U2	0.00	0.00	0.00	0.000	0.000	0.015
SYDU	Mode 124	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 125	U2	0.00	0.00	0.00	0.000	0.000	-0.004
SYDU	Mode 126	U2	0.00	0.00	0.00	0.000	0.000	-0.011
SYDU	Mode 127	U2	0.00	0.00	0.00	0.000	0.000	0.022
SYDU	Mode 128	U2	0.00	0.00	0.00	0.000	0.000	-0.002
SYDU	Mode 129	U2	0.00	0.00	0.00	0.000	0.000	0.009

CENTRO CRECER - DATOS DE ENTRADA II

SYDU	Mode 130	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 131	U2	0.00	0.00	0.00	0.000	0.000	-0.209
SYDU	Mode 132	U2	0.00	0.00	0.00	0.000	0.000	0.002
SYDU	Mode 133	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 134	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 135	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 136	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 137	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 138	U2	0.00	0.00	0.00	0.000	0.000	0.002
SYDU	Mode 139	U2	0.00	0.17	0.00	-0.017	0.000	8.985
SYDU	Mode 140	U2	0.00	9.19	0.00	-0.919	0.000	313.629
SYDU	Mode 141	U2	0.00	0.01	0.00	-0.001	0.000	2.488
SYDU	Mode 142	U2	0.00	0.31	0.00	-0.031	0.000	7.486
SYDU	Mode 143	U2	0.00	0.00	0.00	0.000	0.000	0.004
SYDU	Mode 144	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 145	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 146	U2	0.00	0.00	0.00	0.000	0.000	0.005
SYDU	Mode 147	U2	0.00	0.00	0.00	0.000	0.000	0.015
SYDU	Mode 148	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 149	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 150	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 151	U2	0.00	0.00	0.00	0.000	0.000	0.002
SYDU	Mode 152	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 153	U2	0.00	2.51	0.00	-0.251	0.000	164.399
SYDU	Mode 154	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 155	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SYDU	Mode 156	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 157	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SYDU	Mode 158	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 159	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 160	U2	0.00	0.00	0.00	0.000	0.000	0.035
SYDU	Mode 161	U2	0.00	0.00	0.00	0.000	0.000	-0.002
SYDU	Mode 162	U2	0.00	0.00	0.00	0.000	0.000	0.005
SYDU	Mode 163	U2	0.00	0.00	0.00	0.000	0.000	-0.016
SYDU	Mode 164	U2	0.00	0.00	0.00	0.000	0.000	-0.018
SYDU	Mode 165	U2	0.31	1.99	0.00	-0.199	0.031	117.935
SYDU	Mode 166	U2	-0.13	0.01	0.00	-0.001	-0.013	0.993
SYDU	Mode 167	U2	0.00	0.00	0.00	0.000	0.000	-0.003
SYDU	Mode 168	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 169	U2	0.00	0.00	0.00	0.000	0.000	0.011
SYDU	Mode 170	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 171	U2	0.00	0.00	0.00	0.000	0.000	0.004
SYDU	Mode 172	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 173	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 174	U2	0.00	0.26	0.00	-0.026	0.000	2.457
SYDU	Mode 175	U2	0.00	0.62	0.00	-0.062	0.000	18.156
SYDU	Mode 176	U2	0.00	0.00	0.00	0.000	0.000	0.228
SYDU	Mode 177	U2	0.00	0.12	0.00	-0.012	0.000	1.510
SYDU	Mode 178	U2	0.00	0.32	0.00	-0.032	0.000	6.703
SYDU	Mode 179	U2	0.00	1.72	0.00	-0.172	0.000	103.855
SYDU	Mode 180	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 181	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 182	U2	0.00	0.00	0.00	0.000	0.000	-0.001
SYDU	Mode 183	U2	0.00	0.00	0.00	0.000	0.000	0.002
SYDU	Mode 184	U2	0.00	0.02	0.00	-0.002	0.000	-0.227
SYDU	Mode 185	U2	0.00	0.49	0.00	-0.049	0.000	9.093
SYDU	Mode 186	U2	0.00	0.23	0.00	-0.023	0.000	8.825
SYDU	Mode 187	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 188	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 189	U2	0.00	0.00	0.00	0.000	0.000	-0.003
SYDU	Mode 190	U2	0.00	0.00	0.00	0.000	0.000	0.001
SYDU	Mode 191	U2	0.00	0.40	0.00	-0.040	0.000	2.036
SYDU	Mode 192	U2	0.00	0.05	0.00	-0.005	0.000	0.792
SYDU	Mode 193	U2	0.00	0.00	0.00	0.000	0.000	0.006
SYDU	Mode 194	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 195	U2	0.00	0.00	0.00	0.000	0.000	0.000
SYDU	Mode 196	U2	0.00	0.00	0.00	0.000	0.000	-0.001

CENTRO CRECER - DATOS DE ENTRADA II									
SYDU	Mode 197	U2	0.00	0.00	0.00	0.000	0.000	0.002	
SYDU	Mode 198	U2	0.00	0.00	0.00	0.000	0.000	0.002	
SYDU	Mode 199	U2	0.00	0.00	0.00	0.000	0.000	0.000	
SYDU	Mode 200	U2	0.00	0.00	0.00	0.000	0.000	0.004	
SYDU	All	All	44.14	205.03	0.00	1073.654	276.993	9132.619	

CENTRO CRECER - DATOS DE ENTRADA III

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LOADING COMBINATIONS

COMBO	COMBO TYPE	CASE TYPE	SCALE FACTOR
CIM1	ADD	CM Combo	1.0000
	CV	Static	1.0000
CIM2	ADD	CM Combo	1.0000
	SX	Spectra	0.2600
CIM3	ADD	CM Combo	1.0000
	SY	Spectra	0.2600
CIM4	ADD	CM Combo	1.0000
	CV	Static	0.7500
	SX	Spectra	0.1900
CIM5	ADD	CM Combo	1.0000
	CV	Static	0.7500
	SY	Spectra	0.1900
CIM6	ADD	CM Combo	0.6000
	SX	Spectra	0.2600
CIM7	ADD	CM Combo	0.6000
	SY	Spectra	0.2600
CIM8	ADD	CM Combo	1.0000
	CV	Static	1.0000
	SX	Spectra	0.2600
CIM9	ADD	CM Combo	1.0000
	CV	Static	1.0000
	SY	Spectra	0.2600
CIM10	ADD	CM Combo	1.2000
	CV	Static	1.0000
	SX	Spectra	0.3700
CIM11	ADD	CM Combo	1.2000
	CV	Static	1.0000
	SY	Spectra	0.3700

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SUPPORT REACTIONS

STORY	POINT	LOAD	FX	FY	FZ	MX	MY	MZ
NE+0.10	2819	CIM1	0.00	0.00	25.47	0.000	0.000	0.000
NE+0.10	2819	CIM2 Max	802.46	268.22	16.81	0.000	0.000	0.000
NE+0.10	2819	CIM2 Min	-802.46	-268.22	15.95	0.000	0.000	0.000
NE+0.10	2819	CIM3 Max	98.68	1706.11	16.63	0.000	0.000	0.000
NE+0.10	2819	CIM3 Min	-98.68	-1706.11	16.13	0.000	0.000	0.000
NE+0.10	2819	CIM4 Max	586.41	196.01	23.51	0.000	0.000	0.000
NE+0.10	2819	CIM4 Min	-586.41	-196.01	22.89	0.000	0.000	0.000
NE+0.10	2819	CIM5 Max	72.11	1246.77	23.39	0.000	0.000	0.000
NE+0.10	2819	CIM5 Min	-72.11	-1246.77	23.02	0.000	0.000	0.000
NE+0.10	2819	CIM6 Max	802.46	268.22	10.26	0.000	0.000	0.000
NE+0.10	2819	CIM6 Min	-802.46	-268.22	9.40	0.000	0.000	0.000
NE+0.10	2819	CIM7 Max	98.68	1706.11	10.08	0.000	0.000	0.000
NE+0.10	2819	CIM7 Min	-98.68	-1706.11	9.57	0.000	0.000	0.000
NE+0.10	2819	CIM8 Max	802.46	268.22	25.90	0.000	0.000	0.000
NE+0.10	2819	CIM8 Min	-802.46	-268.22	25.04	0.000	0.000	0.000
NE+0.10	2819	CIM9 Max	98.68	1706.11	25.73	0.000	0.000	0.000
NE+0.10	2819	CIM9 Min	-98.68	-1706.11	25.22	0.000	0.000	0.000
NE+0.10	2819	CIM10 Max	1141.96	381.70	29.36	0.000	0.000	0.000
NE+0.10	2819	CIM10 Min	-1141.96	-381.70	28.14	0.000	0.000	0.000
NE+0.10	2819	CIM11 Max	140.43	2427.93	29.11	0.000	0.000	0.000
NE+0.10	2819	CIM11 Min	-140.43	-2427.93	28.39	0.000	0.000	0.000
NE+0.10	2833	CIM1	0.00	0.00	10.13	0.000	0.000	0.000
NE+0.10	2833	CIM2 Max	0.00	287.59	7.98	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

NE+0.10	2833	CIM2 Min	0.00	-287.59	6.90	0.000	0.000	0.000
NE+0.10	2833	CIM3 Max	0.00	1019.02	7.65	0.000	0.000	0.000
NE+0.10	2833	CIM3 Min	0.00	-1019.02	7.23	0.000	0.000	0.000
NE+0.10	2833	CIM4 Max	0.00	210.16	9.85	0.000	0.000	0.000
NE+0.10	2833	CIM4 Min	0.00	-210.16	9.07	0.000	0.000	0.000
NE+0.10	2833	CIM5 Max	0.00	744.67	9.61	0.000	0.000	0.000
NE+0.10	2833	CIM5 Min	0.00	-744.67	9.31	0.000	0.000	0.000
NE+0.10	2833	CIM6 Max	0.00	287.59	5.00	0.000	0.000	0.000
NE+0.10	2833	CIM6 Min	0.00	-287.59	3.92	0.000	0.000	0.000
NE+0.10	2833	CIM7 Max	0.00	1019.02	4.67	0.000	0.000	0.000
NE+0.10	2833	CIM7 Min	0.00	-1019.02	4.25	0.000	0.000	0.000
NE+0.10	2833	CIM8 Max	0.00	287.59	10.67	0.000	0.000	0.000
NE+0.10	2833	CIM8 Min	0.00	-287.59	9.59	0.000	0.000	0.000
NE+0.10	2833	CIM9 Max	0.00	1019.02	10.34	0.000	0.000	0.000
NE+0.10	2833	CIM9 Min	0.00	-1019.02	9.92	0.000	0.000	0.000
NE+0.10	2833	CIM10 Max	0.00	409.27	12.39	0.000	0.000	0.000
NE+0.10	2833	CIM10 Min	0.00	-409.27	10.85	0.000	0.000	0.000
NE+0.10	2833	CIM11 Max	0.00	1450.15	11.92	0.000	0.000	0.000
NE+0.10	2833	CIM11 Min	0.00	-1450.15	11.32	0.000	0.000	0.000
NE+0.10	3306	CIM1	0.00	0.00	9.53	0.000	0.000	0.000
NE+0.10	3306	CIM2 Max	0.00	0.00	6.83	0.000	0.000	0.000
NE+0.10	3306	CIM2 Min	0.00	0.00	6.31	0.000	0.000	0.000
NE+0.10	3306	CIM3 Max	0.00	0.00	6.68	0.000	0.000	0.000
NE+0.10	3306	CIM3 Min	0.00	0.00	6.46	0.000	0.000	0.000
NE+0.10	3306	CIM4 Max	0.00	0.00	8.98	0.000	0.000	0.000
NE+0.10	3306	CIM4 Min	0.00	0.00	8.61	0.000	0.000	0.000
NE+0.10	3306	CIM5 Max	0.00	0.00	8.87	0.000	0.000	0.000
NE+0.10	3306	CIM5 Min	0.00	0.00	8.72	0.000	0.000	0.000
NE+0.10	3306	CIM6 Max	0.00	0.00	4.20	0.000	0.000	0.000
NE+0.10	3306	CIM6 Min	0.00	0.00	3.69	0.000	0.000	0.000
NE+0.10	3306	CIM7 Max	0.00	0.00	4.05	0.000	0.000	0.000
NE+0.10	3306	CIM7 Min	0.00	0.00	3.84	0.000	0.000	0.000
NE+0.10	3306	CIM8 Max	0.00	0.00	9.79	0.000	0.000	0.000
NE+0.10	3306	CIM8 Min	0.00	0.00	9.28	0.000	0.000	0.000
NE+0.10	3306	CIM9 Max	0.00	0.00	9.64	0.000	0.000	0.000
NE+0.10	3306	CIM9 Min	0.00	0.00	9.43	0.000	0.000	0.000
NE+0.10	3306	CIM10 Max	0.00	0.00	11.21	0.000	0.000	0.000
NE+0.10	3306	CIM10 Min	0.00	0.00	10.48	0.000	0.000	0.000
NE+0.10	3306	CIM11 Max	0.00	0.00	11.00	0.000	0.000	0.000
NE+0.10	3306	CIM11 Min	0.00	0.00	10.70	0.000	0.000	0.000
NE+0.10	3343	CIM1	0.00	0.00	18.81	0.000	0.000	0.000
NE+0.10	3343	CIM2 Max	0.00	0.00	12.08	0.000	0.000	0.000
NE+0.10	3343	CIM2 Min	0.00	0.00	11.50	0.000	0.000	0.000
NE+0.10	3343	CIM3 Max	0.00	0.00	12.05	0.000	0.000	0.000
NE+0.10	3343	CIM3 Min	0.00	0.00	11.53	0.000	0.000	0.000
NE+0.10	3343	CIM4 Max	0.00	0.00	17.27	0.000	0.000	0.000
NE+0.10	3343	CIM4 Min	0.00	0.00	16.85	0.000	0.000	0.000
NE+0.10	3343	CIM5 Max	0.00	0.00	17.25	0.000	0.000	0.000
NE+0.10	3343	CIM5 Min	0.00	0.00	16.87	0.000	0.000	0.000
NE+0.10	3343	CIM6 Max	0.00	0.00	7.37	0.000	0.000	0.000
NE+0.10	3343	CIM6 Min	0.00	0.00	6.78	0.000	0.000	0.000
NE+0.10	3343	CIM7 Max	0.00	0.00	7.33	0.000	0.000	0.000
NE+0.10	3343	CIM7 Min	0.00	0.00	6.82	0.000	0.000	0.000
NE+0.10	3343	CIM8 Max	0.00	0.00	19.10	0.000	0.000	0.000
NE+0.10	3343	CIM8 Min	0.00	0.00	18.52	0.000	0.000	0.000
NE+0.10	3343	CIM9 Max	0.00	0.00	19.07	0.000	0.000	0.000
NE+0.10	3343	CIM9 Min	0.00	0.00	18.55	0.000	0.000	0.000
NE+0.10	3343	CIM10 Max	0.00	0.00	21.59	0.000	0.000	0.000
NE+0.10	3343	CIM10 Min	0.00	0.00	20.76	0.000	0.000	0.000
NE+0.10	3343	CIM11 Max	0.00	0.00	21.54	0.000	0.000	0.000
NE+0.10	3343	CIM11 Min	0.00	0.00	20.80	0.000	0.000	0.000
BASE	1696	CIM1	-69.18	15.38	135.74	0.000	0.000	0.000
BASE	1696	CIM2 Max	-2.83	17.58	112.98	0.000	0.000	0.000
BASE	1696	CIM2 Min	-83.90	6.83	90.37	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	1696	CIM3 Max	-34.62	37.99	105.61	0.000	0.000	0.000
BASE	1696	CIM3 Min	-52.11	-13.58	97.74	0.000	0.000	0.000
BASE	1696	CIM4 Max	-33.11	18.51	135.48	0.000	0.000	0.000
BASE	1696	CIM4 Min	-92.35	10.66	118.96	0.000	0.000	0.000
BASE	1696	CIM5 Max	-56.33	33.43	130.10	0.000	0.000	0.000
BASE	1696	CIM5 Min	-69.12	-4.26	124.35	0.000	0.000	0.000
BASE	1696	CIM6 Max	14.52	12.70	72.31	0.000	0.000	0.000
BASE	1696	CIM6 Min	-66.55	1.95	49.70	0.000	0.000	0.000
BASE	1696	CIM7 Max	-17.27	33.11	64.94	0.000	0.000	0.000
BASE	1696	CIM7 Min	-34.77	-18.46	57.07	0.000	0.000	0.000
BASE	1696	CIM8 Max	-28.65	20.75	147.04	0.000	0.000	0.000
BASE	1696	CIM8 Min	-109.72	10.00	124.44	0.000	0.000	0.000
BASE	1696	CIM9 Max	-60.43	41.16	139.67	0.000	0.000	0.000
BASE	1696	CIM9 Min	-77.93	-10.41	131.81	0.000	0.000	0.000
BASE	1696	CIM10 Max	-20.17	25.47	172.16	0.000	0.000	0.000
BASE	1696	CIM10 Min	-135.54	10.17	139.99	0.000	0.000	0.000
BASE	1696	CIM11 Max	-65.41	54.51	161.67	0.000	0.000	0.000
BASE	1696	CIM11 Min	-90.30	-18.87	150.48	0.000	0.000	0.000
BASE	1697	CIM1	3.77	1.43	97.88	0.000	0.000	0.000
BASE	1697	CIM2 Max	43.02	8.22	89.97	0.000	0.000	0.000
BASE	1697	CIM2 Min	-35.84	-2.41	68.20	0.000	0.000	0.000
BASE	1697	CIM3 Max	12.43	27.02	81.35	0.000	0.000	0.000
BASE	1697	CIM3 Min	-5.25	-21.21	76.82	0.000	0.000	0.000
BASE	1697	CIM4 Max	32.54	5.68	101.14	0.000	0.000	0.000
BASE	1697	CIM4 Min	-25.09	-2.08	85.23	0.000	0.000	0.000
BASE	1697	CIM5 Max	10.18	19.42	94.84	0.000	0.000	0.000
BASE	1697	CIM5 Min	-2.73	-15.82	91.53	0.000	0.000	0.000
BASE	1697	CIM6 Max	41.59	7.05	58.34	0.000	0.000	0.000
BASE	1697	CIM6 Min	-37.28	-3.57	36.57	0.000	0.000	0.000
BASE	1697	CIM7 Max	10.99	25.86	49.72	0.000	0.000	0.000
BASE	1697	CIM7 Min	-6.68	-22.37	45.19	0.000	0.000	0.000
BASE	1697	CIM8 Max	43.20	6.74	108.76	0.000	0.000	0.000
BASE	1697	CIM8 Min	-35.66	-3.88	87.00	0.000	0.000	0.000
BASE	1697	CIM9 Max	12.61	25.55	100.14	0.000	0.000	0.000
BASE	1697	CIM9 Min	-5.07	-22.68	95.62	0.000	0.000	0.000
BASE	1697	CIM10 Max	60.61	9.57	129.19	0.000	0.000	0.000
BASE	1697	CIM10 Min	-51.63	-5.54	98.21	0.000	0.000	0.000
BASE	1697	CIM11 Max	17.07	36.33	116.92	0.000	0.000	0.000
BASE	1697	CIM11 Min	-8.09	-32.30	110.48	0.000	0.000	0.000
BASE	1698	CIM1	-56.04	38.90	146.80	0.000	0.000	0.000
BASE	1698	CIM2 Max	6.18	30.80	121.27	0.000	0.000	0.000
BASE	1698	CIM2 Min	-76.90	20.95	100.05	0.000	0.000	0.000
BASE	1698	CIM3 Max	-24.78	51.95	113.68	0.000	0.000	0.000
BASE	1698	CIM3 Min	-45.94	-0.20	107.64	0.000	0.000	0.000
BASE	1698	CIM4 Max	-20.52	39.24	145.52	0.000	0.000	0.000
BASE	1698	CIM4 Min	-81.23	32.04	130.01	0.000	0.000	0.000
BASE	1698	CIM5 Max	-43.14	54.70	139.97	0.000	0.000	0.000
BASE	1698	CIM5 Min	-58.60	16.59	135.56	0.000	0.000	0.000
BASE	1698	CIM6 Max	20.32	20.45	77.01	0.000	0.000	0.000
BASE	1698	CIM6 Min	-62.76	10.60	55.78	0.000	0.000	0.000
BASE	1698	CIM7 Max	-10.64	41.60	69.42	0.000	0.000	0.000
BASE	1698	CIM7 Min	-31.80	-10.55	63.38	0.000	0.000	0.000
BASE	1698	CIM8 Max	-14.50	43.82	157.41	0.000	0.000	0.000
BASE	1698	CIM8 Min	-97.58	33.97	136.19	0.000	0.000	0.000
BASE	1698	CIM9 Max	-45.46	64.97	149.82	0.000	0.000	0.000
BASE	1698	CIM9 Min	-66.62	12.83	143.78	0.000	0.000	0.000
BASE	1698	CIM10 Max	-4.00	51.08	184.03	0.000	0.000	0.000
BASE	1698	CIM10 Min	-122.23	37.07	153.83	0.000	0.000	0.000
BASE	1698	CIM11 Max	-48.06	81.18	173.23	0.000	0.000	0.000
BASE	1698	CIM11 Min	-78.17	6.97	164.63	0.000	0.000	0.000
BASE	1699	CIM1	-36.54	20.41	90.25	0.000	0.000	0.000
BASE	1699	CIM2 Max	17.56	21.83	87.04	0.000	0.000	0.000
BASE	1699	CIM2 Min	-67.12	8.55	65.94	0.000	0.000	0.000
BASE	1699	CIM3 Max	-13.48	41.53	78.97	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	1699	CIM3 Min	-36.08	-11.15	74.01	0.000	0.000	0.000
BASE	1699	CIM4 Max	-2.66	23.96	94.52	0.000	0.000	0.000
BASE	1699	CIM4 Min	-64.54	14.25	79.10	0.000	0.000	0.000
BASE	1699	CIM5 Max	-25.34	38.35	88.62	0.000	0.000	0.000
BASE	1699	CIM5 Min	-41.86	-0.14	85.00	0.000	0.000	0.000
BASE	1699	CIM6 Max	27.47	15.76	56.44	0.000	0.000	0.000
BASE	1699	CIM6 Min	-57.21	2.47	35.35	0.000	0.000	0.000
BASE	1699	CIM7 Max	-3.57	35.45	48.37	0.000	0.000	0.000
BASE	1699	CIM7 Min	-26.17	-17.22	43.42	0.000	0.000	0.000
BASE	1699	CIM8 Max	5.80	27.05	100.80	0.000	0.000	0.000
BASE	1699	CIM8 Min	-78.88	13.77	79.70	0.000	0.000	0.000
BASE	1699	CIM9 Max	-25.24	46.75	92.73	0.000	0.000	0.000
BASE	1699	CIM9 Min	-47.84	-5.93	87.77	0.000	0.000	0.000
BASE	1699	CIM10 Max	18.76	32.90	120.56	0.000	0.000	0.000
BASE	1699	CIM10 Min	-101.74	14.00	90.54	0.000	0.000	0.000
BASE	1699	CIM11 Max	-25.41	60.93	109.08	0.000	0.000	0.000
BASE	1699	CIM11 Min	-57.57	-14.03	102.02	0.000	0.000	0.000
BASE	2708	CIM1	-33.93	-168.41	87.78	0.000	0.000	0.000
BASE	2708	CIM2 Max	24.15	-97.06	75.66	0.000	0.000	0.000
BASE	2708	CIM2 Min	-65.83	-125.51	55.62	0.000	0.000	0.000
BASE	2708	CIM3 Max	2.91	-44.19	69.51	0.000	0.000	0.000
BASE	2708	CIM3 Min	-44.59	-178.38	61.77	0.000	0.000	0.000
BASE	2708	CIM4 Max	2.22	-143.73	89.56	0.000	0.000	0.000
BASE	2708	CIM4 Min	-63.54	-164.53	74.92	0.000	0.000	0.000
BASE	2708	CIM5 Max	-13.30	-105.10	85.07	0.000	0.000	0.000
BASE	2708	CIM5 Min	-48.02	-203.16	79.42	0.000	0.000	0.000
BASE	2708	CIM6 Max	32.48	-52.54	49.40	0.000	0.000	0.000
BASE	2708	CIM6 Min	-57.49	-81.00	29.36	0.000	0.000	0.000
BASE	2708	CIM7 Max	11.25	0.33	43.25	0.000	0.000	0.000
BASE	2708	CIM7 Min	-36.25	-133.87	35.52	0.000	0.000	0.000
BASE	2708	CIM8 Max	11.05	-154.18	97.80	0.000	0.000	0.000
BASE	2708	CIM8 Min	-78.92	-182.64	77.76	0.000	0.000	0.000
BASE	2708	CIM9 Max	-10.18	-101.31	91.64	0.000	0.000	0.000
BASE	2708	CIM9 Min	-57.68	-235.51	83.91	0.000	0.000	0.000
BASE	2708	CIM10 Max	25.92	-170.42	115.16	0.000	0.000	0.000
BASE	2708	CIM10 Min	-102.12	-210.92	86.65	0.000	0.000	0.000
BASE	2708	CIM11 Max	-4.30	-95.18	106.41	0.000	0.000	0.000
BASE	2708	CIM11 Min	-71.90	-286.15	95.40	0.000	0.000	0.000
BASE	2709	CIM1	-35.00	-106.82	41.59	0.000	0.000	0.000
BASE	2709	CIM2 Max	21.94	-61.22	48.02	0.000	0.000	0.000
BASE	2709	CIM2 Min	-68.85	-89.90	26.68	0.000	0.000	0.000
BASE	2709	CIM3 Max	2.77	-13.20	45.37	0.000	0.000	0.000
BASE	2709	CIM3 Min	-49.68	-137.92	29.33	0.000	0.000	0.000
BASE	2709	CIM4 Max	1.06	-88.53	48.32	0.000	0.000	0.000
BASE	2709	CIM4 Min	-65.29	-109.48	32.73	0.000	0.000	0.000
BASE	2709	CIM5 Max	-12.95	-53.44	46.39	0.000	0.000	0.000
BASE	2709	CIM5 Min	-51.28	-144.58	34.67	0.000	0.000	0.000
BASE	2709	CIM6 Max	31.32	-31.00	33.08	0.000	0.000	0.000
BASE	2709	CIM6 Min	-59.47	-59.67	11.74	0.000	0.000	0.000
BASE	2709	CIM7 Max	12.15	17.02	30.43	0.000	0.000	0.000
BASE	2709	CIM7 Min	-40.30	-107.69	14.39	0.000	0.000	0.000
BASE	2709	CIM8 Max	10.40	-92.48	52.26	0.000	0.000	0.000
BASE	2709	CIM8 Min	-80.39	-121.16	30.92	0.000	0.000	0.000
BASE	2709	CIM9 Max	-8.77	-44.46	49.61	0.000	0.000	0.000
BASE	2709	CIM9 Min	-61.22	-169.18	33.57	0.000	0.000	0.000
BASE	2709	CIM10 Max	24.91	-101.53	64.24	0.000	0.000	0.000
BASE	2709	CIM10 Min	-104.29	-142.34	33.87	0.000	0.000	0.000
BASE	2709	CIM11 Max	-2.37	-33.19	60.47	0.000	0.000	0.000
BASE	2709	CIM11 Min	-77.01	-210.68	37.64	0.000	0.000	0.000
BASE	1711	CIM1	-94.55	-37.30	46.61	0.000	0.000	0.000
BASE	1711	CIM2 Max	-39.95	-15.47	39.19	0.000	0.000	0.000
BASE	1711	CIM2 Min	-108.82	-57.60	31.41	0.000	0.000	0.000
BASE	1711	CIM3 Max	-63.89	8.06	37.23	0.000	0.000	0.000
BASE	1711	CIM3 Min	-84.88	-81.14	33.37	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	1711	CIM4 Max	-64.35	-21.72	46.62	0.000	0.000	0.000
BASE	1711	CIM4 Min	-114.67	-52.51	40.94	0.000	0.000	0.000
BASE	1711	CIM5 Max	-81.84	-4.52	45.20	0.000	0.000	0.000
BASE	1711	CIM5 Min	-97.18	-69.70	42.37	0.000	0.000	0.000
BASE	1711	CIM6 Max	-10.20	-0.86	25.07	0.000	0.000	0.000
BASE	1711	CIM6 Min	-79.06	-42.99	17.29	0.000	0.000	0.000
BASE	1711	CIM7 Max	-34.14	22.68	23.11	0.000	0.000	0.000
BASE	1711	CIM7 Min	-55.13	-66.52	19.25	0.000	0.000	0.000
BASE	1711	CIM8 Max	-60.12	-16.24	50.50	0.000	0.000	0.000
BASE	1711	CIM8 Min	-128.98	-58.37	42.73	0.000	0.000	0.000
BASE	1711	CIM9 Max	-84.05	7.30	48.55	0.000	0.000	0.000
BASE	1711	CIM9 Min	-105.05	-81.90	44.68	0.000	0.000	0.000
BASE	1711	CIM10 Max	-60.43	-14.63	59.20	0.000	0.000	0.000
BASE	1711	CIM10 Min	-158.43	-74.59	48.14	0.000	0.000	0.000
BASE	1711	CIM11 Max	-94.49	18.86	56.42	0.000	0.000	0.000
BASE	1711	CIM11 Min	-124.36	-108.08	50.92	0.000	0.000	0.000

BASE	1713	CIM1	-63.26	1.74	50.63	0.000	0.000	0.000
BASE	1713	CIM2 Max	-15.67	26.75	41.40	0.000	0.000	0.000
BASE	1713	CIM2 Min	-97.76	-16.86	36.81	0.000	0.000	0.000
BASE	1713	CIM3 Max	-38.09	53.64	42.62	0.000	0.000	0.000
BASE	1713	CIM3 Min	-75.34	-43.75	35.59	0.000	0.000	0.000
BASE	1713	CIM4 Max	-31.63	18.47	49.43	0.000	0.000	0.000
BASE	1713	CIM4 Min	-91.62	-13.39	46.07	0.000	0.000	0.000
BASE	1713	CIM5 Max	-48.01	38.13	50.32	0.000	0.000	0.000
BASE	1713	CIM5 Min	-75.23	-33.04	45.18	0.000	0.000	0.000
BASE	1713	CIM6 Max	7.01	24.77	25.76	0.000	0.000	0.000
BASE	1713	CIM6 Min	-75.08	-18.83	21.17	0.000	0.000	0.000
BASE	1713	CIM7 Max	-15.41	51.66	26.98	0.000	0.000	0.000
BASE	1713	CIM7 Min	-52.66	-45.72	19.95	0.000	0.000	0.000
BASE	1713	CIM8 Max	-22.21	23.54	52.93	0.000	0.000	0.000
BASE	1713	CIM8 Min	-104.30	-20.06	48.34	0.000	0.000	0.000
BASE	1713	CIM9 Max	-44.63	50.43	54.15	0.000	0.000	0.000
BASE	1713	CIM9 Min	-81.88	-46.95	47.12	0.000	0.000	0.000
BASE	1713	CIM10 Max	-16.19	33.75	61.72	0.000	0.000	0.000
BASE	1713	CIM10 Min	-133.01	-28.29	55.19	0.000	0.000	0.000
BASE	1713	CIM11 Max	-48.10	72.02	63.46	0.000	0.000	0.000
BASE	1713	CIM11 Min	-101.10	-66.56	53.45	0.000	0.000	0.000

BASE	1714	CIM1	-73.11	-19.50	132.10	0.000	0.000	0.000
BASE	1714	CIM2 Max	-4.06	-20.93	114.85	0.000	0.000	0.000
BASE	1714	CIM2 Min	-94.92	-30.63	93.38	0.000	0.000	0.000
BASE	1714	CIM3 Max	-32.88	-2.02	107.80	0.000	0.000	0.000
BASE	1714	CIM3 Min	-66.09	-49.54	100.42	0.000	0.000	0.000
BASE	1714	CIM4 Max	-34.01	-17.53	132.95	0.000	0.000	0.000
BASE	1714	CIM4 Min	-100.40	-24.61	117.26	0.000	0.000	0.000
BASE	1714	CIM5 Max	-55.07	-3.70	127.80	0.000	0.000	0.000
BASE	1714	CIM5 Min	-79.34	-38.43	122.41	0.000	0.000	0.000
BASE	1714	CIM6 Max	15.73	-10.62	73.20	0.000	0.000	0.000
BASE	1714	CIM6 Min	-75.12	-20.32	51.73	0.000	0.000	0.000
BASE	1714	CIM7 Max	-13.09	8.29	66.15	0.000	0.000	0.000
BASE	1714	CIM7 Min	-46.30	-39.23	58.78	0.000	0.000	0.000
BASE	1714	CIM8 Max	-27.68	-14.65	142.83	0.000	0.000	0.000
BASE	1714	CIM8 Min	-118.54	-24.35	121.36	0.000	0.000	0.000
BASE	1714	CIM9 Max	-56.50	4.26	135.79	0.000	0.000	0.000
BASE	1714	CIM9 Min	-89.71	-43.26	128.41	0.000	0.000	0.000
BASE	1714	CIM10 Max	-18.36	-17.76	168.20	0.000	0.000	0.000
BASE	1714	CIM10 Min	-147.65	-31.55	137.64	0.000	0.000	0.000
BASE	1714	CIM11 Max	-59.38	9.16	158.17	0.000	0.000	0.000
BASE	1714	CIM11 Min	-106.64	-58.47	147.67	0.000	0.000	0.000

BASE	1715	CIM1	30.01	-37.19	128.01	0.000	0.000	0.000
BASE	1715	CIM2 Max	69.65	-32.33	110.82	0.000	0.000	0.000
BASE	1715	CIM2 Min	-19.25	-42.94	91.69	0.000	0.000	0.000
BASE	1715	CIM3 Max	39.58	-15.69	104.74	0.000	0.000	0.000
BASE	1715	CIM3 Min	10.82	-59.59	97.77	0.000	0.000	0.000
BASE	1715	CIM4 Max	61.29	-33.42	128.31	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	1715	CIM4 Min	-3.67	-41.18	114.33	0.000	0.000	0.000
BASE	1715	CIM5 Max	39.32	-21.26	123.87	0.000	0.000	0.000
BASE	1715	CIM5 Min	18.30	-53.34	118.78	0.000	0.000	0.000
BASE	1715	CIM6 Max	59.57	-17.28	70.32	0.000	0.000	0.000
BASE	1715	CIM6 Min	-29.33	-27.89	51.19	0.000	0.000	0.000
BASE	1715	CIM7 Max	29.50	-0.63	64.24	0.000	0.000	0.000
BASE	1715	CIM7 Min	0.74	-44.53	57.27	0.000	0.000	0.000
BASE	1715	CIM8 Max	74.46	-31.88	137.58	0.000	0.000	0.000
BASE	1715	CIM8 Min	-14.44	-42.49	118.45	0.000	0.000	0.000
BASE	1715	CIM9 Max	44.40	-15.24	131.50	0.000	0.000	0.000
BASE	1715	CIM9 Min	15.63	-59.14	124.53	0.000	0.000	0.000
BASE	1715	CIM10 Max	98.31	-37.17	161.88	0.000	0.000	0.000
BASE	1715	CIM10 Min	-28.20	-52.26	134.65	0.000	0.000	0.000
BASE	1715	CIM11 Max	55.52	-13.48	153.22	0.000	0.000	0.000
BASE	1715	CIM11 Min	14.59	-75.95	143.31	0.000	0.000	0.000
BASE	1716	CIM1	-8.57	-12.92	127.48	0.000	0.000	0.000
BASE	1716	CIM2 Max	23.90	3.28	103.00	0.000	0.000	0.000
BASE	1716	CIM2 Min	-33.86	-24.52	98.73	0.000	0.000	0.000
BASE	1716	CIM3 Max	7.73	48.13	106.15	0.000	0.000	0.000
BASE	1716	CIM3 Min	-17.69	-69.37	95.59	0.000	0.000	0.000
BASE	1716	CIM4 Max	13.44	-2.19	122.39	0.000	0.000	0.000
BASE	1716	CIM4 Min	-28.78	-22.50	119.26	0.000	0.000	0.000
BASE	1716	CIM5 Max	1.62	30.59	124.68	0.000	0.000	0.000
BASE	1716	CIM5 Min	-16.96	-55.27	116.96	0.000	0.000	0.000
BASE	1716	CIM6 Max	25.90	7.53	62.66	0.000	0.000	0.000
BASE	1716	CIM6 Min	-31.87	-20.27	58.39	0.000	0.000	0.000
BASE	1716	CIM7 Max	9.72	52.38	65.80	0.000	0.000	0.000
BASE	1716	CIM7 Min	-15.70	-65.12	55.24	0.000	0.000	0.000
BASE	1716	CIM8 Max	20.32	0.98	129.61	0.000	0.000	0.000
BASE	1716	CIM8 Min	-37.45	-26.81	125.34	0.000	0.000	0.000
BASE	1716	CIM9 Max	4.14	45.83	132.76	0.000	0.000	0.000
BASE	1716	CIM9 Min	-21.27	-71.66	122.19	0.000	0.000	0.000
BASE	1716	CIM10 Max	31.54	4.74	150.69	0.000	0.000	0.000
BASE	1716	CIM10 Min	-50.67	-34.82	144.61	0.000	0.000	0.000
BASE	1716	CIM11 Max	8.52	68.56	155.17	0.000	0.000	0.000
BASE	1716	CIM11 Min	-27.65	-98.64	140.13	0.000	0.000	0.000
BASE	1717	CIM1	70.33	11.63	74.49	0.000	0.000	0.000
BASE	1717	CIM2 Max	102.47	27.41	68.59	0.000	0.000	0.000
BASE	1717	CIM2 Min	22.92	-0.69	54.93	0.000	0.000	0.000
BASE	1717	CIM3 Max	82.53	79.49	64.93	0.000	0.000	0.000
BASE	1717	CIM3 Min	42.86	-52.78	58.59	0.000	0.000	0.000
BASE	1717	CIM4 Max	97.49	22.33	76.30	0.000	0.000	0.000
BASE	1717	CIM4 Min	39.36	1.80	66.31	0.000	0.000	0.000
BASE	1717	CIM5 Max	82.92	60.40	73.62	0.000	0.000	0.000
BASE	1717	CIM5 Min	53.92	-36.26	68.99	0.000	0.000	0.000
BASE	1717	CIM6 Max	77.39	22.06	43.89	0.000	0.000	0.000
BASE	1717	CIM6 Min	-2.16	-6.03	30.23	0.000	0.000	0.000
BASE	1717	CIM7 Max	57.45	74.15	40.23	0.000	0.000	0.000
BASE	1717	CIM7 Min	17.78	-58.12	33.88	0.000	0.000	0.000
BASE	1717	CIM8 Max	110.11	25.68	81.32	0.000	0.000	0.000
BASE	1717	CIM8 Min	30.56	-2.41	67.66	0.000	0.000	0.000
BASE	1717	CIM9 Max	90.17	77.77	77.66	0.000	0.000	0.000
BASE	1717	CIM9 Min	50.49	-54.50	71.31	0.000	0.000	0.000
BASE	1717	CIM10 Max	139.47	34.30	96.56	0.000	0.000	0.000
BASE	1717	CIM10 Min	26.27	-5.68	77.12	0.000	0.000	0.000
BASE	1717	CIM11 Max	111.10	108.42	91.36	0.000	0.000	0.000
BASE	1717	CIM11 Min	54.64	-79.81	82.32	0.000	0.000	0.000
BASE	2881	CIM1	29.68	106.73	74.70	0.000	0.000	0.000
BASE	2881	CIM2 Max	41.93	57.43	54.05	0.000	0.000	0.000
BASE	2881	CIM2 Min	8.47	45.62	51.78	0.000	0.000	0.000
BASE	2881	CIM3 Max	26.02	75.85	53.91	0.000	0.000	0.000
BASE	2881	CIM3 Min	24.38	27.19	51.91	0.000	0.000	0.000
BASE	2881	CIM4 Max	40.79	97.24	70.08	0.000	0.000	0.000
BASE	2881	CIM4 Min	16.33	88.61	68.42	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	2881	CIM5 Max	29.16	110.71	69.98	0.000	0.000	0.000
BASE	2881	CIM5 Min	27.96	75.14	68.52	0.000	0.000	0.000
BASE	2881	CIM6 Max	31.85	36.82	32.88	0.000	0.000	0.000
BASE	2881	CIM6 Min	-1.61	25.01	30.61	0.000	0.000	0.000
BASE	2881	CIM7 Max	15.94	55.25	32.75	0.000	0.000	0.000
BASE	2881	CIM7 Min	14.30	6.58	30.75	0.000	0.000	0.000
BASE	2881	CIM8 Max	46.41	112.63	75.83	0.000	0.000	0.000
BASE	2881	CIM8 Min	12.95	100.82	73.57	0.000	0.000	0.000
BASE	2881	CIM9 Max	30.50	131.06	75.70	0.000	0.000	0.000
BASE	2881	CIM9 Min	28.86	82.39	73.70	0.000	0.000	0.000
BASE	2881	CIM10 Max	58.53	125.43	86.90	0.000	0.000	0.000
BASE	2881	CIM10 Min	10.91	108.63	83.67	0.000	0.000	0.000
BASE	2881	CIM11 Max	35.89	151.66	86.70	0.000	0.000	0.000
BASE	2881	CIM11 Min	33.55	82.40	83.86	0.000	0.000	0.000
BASE	2882	CIM1	-0.45	-50.95	97.90	0.000	0.000	0.000
BASE	2882	CIM2 Max	17.84	-57.98	71.33	0.000	0.000	0.000
BASE	2882	CIM2 Min	-18.50	-58.25	71.31	0.000	0.000	0.000
BASE	2882	CIM3 Max	0.30	-37.39	72.16	0.000	0.000	0.000
BASE	2882	CIM3 Min	-0.96	-78.84	70.48	0.000	0.000	0.000
BASE	2882	CIM4 Max	12.85	-52.64	91.27	0.000	0.000	0.000
BASE	2882	CIM4 Min	-13.70	-52.84	91.25	0.000	0.000	0.000
BASE	2882	CIM5 Max	0.04	-37.59	91.87	0.000	0.000	0.000
BASE	2882	CIM5 Min	-0.89	-67.88	90.64	0.000	0.000	0.000
BASE	2882	CIM6 Max	17.97	-34.73	42.81	0.000	0.000	0.000
BASE	2882	CIM6 Min	-18.37	-35.00	42.78	0.000	0.000	0.000
BASE	2882	CIM7 Max	0.43	-14.14	43.63	0.000	0.000	0.000
BASE	2882	CIM7 Min	-0.83	-55.59	41.95	0.000	0.000	0.000
BASE	2882	CIM8 Max	17.71	-50.81	97.92	0.000	0.000	0.000
BASE	2882	CIM8 Min	-18.62	-51.08	97.89	0.000	0.000	0.000
BASE	2882	CIM9 Max	0.18	-30.22	98.74	0.000	0.000	0.000
BASE	2882	CIM9 Min	-1.09	-71.67	97.06	0.000	0.000	0.000
BASE	2882	CIM10 Max	25.33	-62.38	112.19	0.000	0.000	0.000
BASE	2882	CIM10 Min	-26.38	-62.76	112.14	0.000	0.000	0.000
BASE	2882	CIM11 Max	0.38	-33.08	113.36	0.000	0.000	0.000
BASE	2882	CIM11 Min	-1.42	-92.06	110.97	0.000	0.000	0.000
BASE	2883	CIM1	-22.17	-12.32	66.70	0.000	0.000	0.000
BASE	2883	CIM2 Max	-3.35	-20.33	48.75	0.000	0.000	0.000
BASE	2883	CIM2 Min	-36.56	-30.95	46.64	0.000	0.000	0.000
BASE	2883	CIM3 Max	-19.17	-3.25	48.56	0.000	0.000	0.000
BASE	2883	CIM3 Min	-20.75	-48.03	46.82	0.000	0.000	0.000
BASE	2883	CIM4 Max	-9.48	-11.77	62.72	0.000	0.000	0.000
BASE	2883	CIM4 Min	-33.75	-19.53	61.18	0.000	0.000	0.000
BASE	2883	CIM5 Max	-21.04	0.71	62.59	0.000	0.000	0.000
BASE	2883	CIM5 Min	-22.19	-32.02	61.31	0.000	0.000	0.000
BASE	2883	CIM6 Max	4.63	-10.08	29.67	0.000	0.000	0.000
BASE	2883	CIM6 Min	-28.58	-20.70	27.56	0.000	0.000	0.000
BASE	2883	CIM7 Max	-11.18	7.00	29.49	0.000	0.000	0.000
BASE	2883	CIM7 Min	-12.77	-37.78	27.75	0.000	0.000	0.000
BASE	2883	CIM8 Max	-5.56	-7.01	67.75	0.000	0.000	0.000
BASE	2883	CIM8 Min	-38.77	-17.63	65.65	0.000	0.000	0.000
BASE	2883	CIM9 Max	-21.38	10.07	67.57	0.000	0.000	0.000
BASE	2883	CIM9 Min	-22.96	-34.71	65.83	0.000	0.000	0.000
BASE	2883	CIM10 Max	-2.53	-9.90	77.74	0.000	0.000	0.000
BASE	2883	CIM10 Min	-49.79	-25.01	74.74	0.000	0.000	0.000
BASE	2883	CIM11 Max	-25.03	14.41	77.48	0.000	0.000	0.000
BASE	2883	CIM11 Min	-27.28	-49.31	75.00	0.000	0.000	0.000
BASE	2884	CIM1	-53.38	43.70	46.69	0.000	0.000	0.000
BASE	2884	CIM2 Max	-27.90	49.33	38.03	0.000	0.000	0.000
BASE	2884	CIM2 Min	-64.84	36.66	35.60	0.000	0.000	0.000
BASE	2884	CIM3 Max	-45.49	68.60	37.98	0.000	0.000	0.000
BASE	2884	CIM3 Min	-47.25	17.39	35.65	0.000	0.000	0.000
BASE	2884	CIM4 Max	-38.13	48.16	45.11	0.000	0.000	0.000
BASE	2884	CIM4 Min	-65.13	38.90	43.33	0.000	0.000	0.000
BASE	2884	CIM5 Max	-50.99	62.23	45.07	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	2884	CIM5 Min	-52.27	24.82	43.37	0.000	0.000	0.000
BASE	2884	CIM6 Max	-9.35	32.13	23.31	0.000	0.000	0.000
BASE	2884	CIM6 Min	-46.29	19.46	20.87	0.000	0.000	0.000
BASE	2884	CIM7 Max	-26.95	51.40	23.25	0.000	0.000	0.000
BASE	2884	CIM7 Min	-28.70	0.20	20.92	0.000	0.000	0.000
BASE	2884	CIM8 Max	-34.91	50.04	47.91	0.000	0.000	0.000
BASE	2884	CIM8 Min	-71.86	37.37	45.47	0.000	0.000	0.000
BASE	2884	CIM9 Max	-52.51	69.30	47.86	0.000	0.000	0.000
BASE	2884	CIM9 Min	-54.26	18.10	45.53	0.000	0.000	0.000
BASE	2884	CIM10 Max	-36.37	61.32	55.78	0.000	0.000	0.000
BASE	2884	CIM10 Min	-88.94	43.29	52.32	0.000	0.000	0.000
BASE	2884	CIM11 Max	-61.41	88.74	55.71	0.000	0.000	0.000
BASE	2884	CIM11 Min	-63.91	15.87	52.40	0.000	0.000	0.000
BASE	2885	CIM1	-0.86	77.36	87.13	0.000	0.000	0.000
BASE	2885	CIM2 Max	12.66	70.34	68.56	0.000	0.000	0.000
BASE	2885	CIM2 Min	-13.77	70.28	68.55	0.000	0.000	0.000
BASE	2885	CIM3 Max	-0.06	93.69	69.69	0.000	0.000	0.000
BASE	2885	CIM3 Min	-1.05	46.92	67.42	0.000	0.000	0.000
BASE	2885	CIM4 Max	8.87	75.62	82.49	0.000	0.000	0.000
BASE	2885	CIM4 Min	-10.44	75.58	82.48	0.000	0.000	0.000
BASE	2885	CIM5 Max	-0.42	92.69	83.31	0.000	0.000	0.000
BASE	2885	CIM5 Min	-1.15	58.51	81.66	0.000	0.000	0.000
BASE	2885	CIM6 Max	12.88	42.21	41.14	0.000	0.000	0.000
BASE	2885	CIM6 Min	-13.55	42.16	41.13	0.000	0.000	0.000
BASE	2885	CIM7 Max	0.17	65.57	42.26	0.000	0.000	0.000
BASE	2885	CIM7 Min	-0.83	18.80	40.00	0.000	0.000	0.000
BASE	2885	CIM8 Max	12.35	77.39	87.13	0.000	0.000	0.000
BASE	2885	CIM8 Min	-14.08	77.33	87.12	0.000	0.000	0.000
BASE	2885	CIM9 Max	-0.36	100.75	88.26	0.000	0.000	0.000
BASE	2885	CIM9 Min	-1.36	53.97	86.00	0.000	0.000	0.000
BASE	2885	CIM10 Max	17.83	91.46	100.84	0.000	0.000	0.000
BASE	2885	CIM10 Min	-19.78	91.38	100.83	0.000	0.000	0.000
BASE	2885	CIM11 Max	-0.26	124.70	102.45	0.000	0.000	0.000
BASE	2885	CIM11 Min	-1.68	58.14	99.23	0.000	0.000	0.000
BASE	2886	CIM1	49.85	42.89	45.97	0.000	0.000	0.000
BASE	2886	CIM2 Max	62.57	48.82	37.56	0.000	0.000	0.000
BASE	2886	CIM2 Min	25.62	36.15	35.13	0.000	0.000	0.000
BASE	2886	CIM3 Max	44.99	67.83	37.52	0.000	0.000	0.000
BASE	2886	CIM3 Min	43.20	17.14	35.17	0.000	0.000	0.000
BASE	2886	CIM4 Max	61.91	47.42	44.45	0.000	0.000	0.000
BASE	2886	CIM4 Min	34.91	38.16	42.67	0.000	0.000	0.000
BASE	2886	CIM5 Max	49.06	61.31	44.42	0.000	0.000	0.000
BASE	2886	CIM5 Min	47.75	24.27	42.70	0.000	0.000	0.000
BASE	2886	CIM6 Max	44.93	31.83	23.02	0.000	0.000	0.000
BASE	2886	CIM6 Min	7.98	19.15	20.59	0.000	0.000	0.000
BASE	2886	CIM7 Max	27.35	50.84	22.98	0.000	0.000	0.000
BASE	2886	CIM7 Min	25.56	0.15	20.63	0.000	0.000	0.000
BASE	2886	CIM8 Max	68.32	49.23	47.18	0.000	0.000	0.000
BASE	2886	CIM8 Min	31.37	36.56	44.75	0.000	0.000	0.000
BASE	2886	CIM9 Max	50.74	68.24	47.14	0.000	0.000	0.000
BASE	2886	CIM9 Min	48.95	17.55	44.79	0.000	0.000	0.000
BASE	2886	CIM10 Max	84.96	60.41	54.97	0.000	0.000	0.000
BASE	2886	CIM10 Min	32.37	42.37	51.51	0.000	0.000	0.000
BASE	2886	CIM11 Max	59.94	87.46	54.91	0.000	0.000	0.000
BASE	2886	CIM11 Min	57.39	15.32	51.56	0.000	0.000	0.000
BASE	2959	CIM1	25.88	-8.08	66.21	0.000	0.000	0.000
BASE	2959	CIM2 Max	39.16	-17.00	48.58	0.000	0.000	0.000
BASE	2959	CIM2 Min	5.91	-28.05	46.37	0.000	0.000	0.000
BASE	2959	CIM3 Max	23.33	-0.13	48.41	0.000	0.000	0.000
BASE	2959	CIM3 Min	21.74	-44.93	46.54	0.000	0.000	0.000
BASE	2959	CIM4 Max	37.19	-7.66	62.33	0.000	0.000	0.000
BASE	2959	CIM4 Min	12.89	-15.73	60.72	0.000	0.000	0.000
BASE	2959	CIM5 Max	25.63	4.68	62.21	0.000	0.000	0.000
BASE	2959	CIM5 Min	24.46	-28.06	60.84	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	2959	CIM6 Max	30.15	-7.99	29.59	0.000	0.000	0.000
BASE	2959	CIM6 Min	-3.11	-19.04	27.38	0.000	0.000	0.000
BASE	2959	CIM7 Max	14.32	8.88	29.42	0.000	0.000	0.000
BASE	2959	CIM7 Min	12.72	-35.92	27.55	0.000	0.000	0.000
BASE	2959	CIM8 Max	42.51	-2.56	67.32	0.000	0.000	0.000
BASE	2959	CIM8 Min	9.25	-13.61	65.11	0.000	0.000	0.000
BASE	2959	CIM9 Max	26.68	14.32	67.14	0.000	0.000	0.000
BASE	2959	CIM9 Min	25.08	-30.48	65.28	0.000	0.000	0.000
BASE	2959	CIM10 Max	54.05	-4.73	77.28	0.000	0.000	0.000
BASE	2959	CIM10 Min	6.73	-20.45	74.13	0.000	0.000	0.000
BASE	2959	CIM11 Max	31.52	19.29	77.04	0.000	0.000	0.000
BASE	2959	CIM11 Min	29.25	-44.47	74.38	0.000	0.000	0.000
BASE	2960	CIM1	-2.08	-43.34	99.62	0.000	0.000	0.000
BASE	2960	CIM2 Max	16.60	-53.26	72.43	0.000	0.000	0.000
BASE	2960	CIM2 Min	-19.42	-53.61	72.35	0.000	0.000	0.000
BASE	2960	CIM3 Max	-0.64	-32.19	73.27	0.000	0.000	0.000
BASE	2960	CIM3 Min	-2.17	-74.68	71.51	0.000	0.000	0.000
BASE	2960	CIM4 Max	11.25	-45.74	92.85	0.000	0.000	0.000
BASE	2960	CIM4 Min	-15.08	-45.99	92.79	0.000	0.000	0.000
BASE	2960	CIM5 Max	-1.36	-30.34	93.46	0.000	0.000	0.000
BASE	2960	CIM5 Min	-2.48	-61.39	92.17	0.000	0.000	0.000
BASE	2960	CIM6 Max	17.16	-31.89	43.48	0.000	0.000	0.000
BASE	2960	CIM6 Min	-18.86	-32.24	43.39	0.000	0.000	0.000
BASE	2960	CIM7 Max	-0.08	-10.82	44.32	0.000	0.000	0.000
BASE	2960	CIM7 Min	-1.61	-53.31	42.55	0.000	0.000	0.000
BASE	2960	CIM8 Max	15.93	-43.17	99.66	0.000	0.000	0.000
BASE	2960	CIM8 Min	-20.10	-43.52	99.58	0.000	0.000	0.000
BASE	2960	CIM9 Max	-1.32	-22.10	100.50	0.000	0.000	0.000
BASE	2960	CIM9 Min	-2.85	-64.59	98.74	0.000	0.000	0.000
BASE	2960	CIM10 Max	23.26	-53.78	114.16	0.000	0.000	0.000
BASE	2960	CIM10 Min	-28.00	-54.28	114.04	0.000	0.000	0.000
BASE	2960	CIM11 Max	-1.28	-23.80	115.36	0.000	0.000	0.000
BASE	2960	CIM11 Min	-3.46	-84.26	112.85	0.000	0.000	0.000
BASE	2856	CIM1	12.28	18.17	75.11	0.000	0.000	0.000
BASE	2856	CIM2 Max	22.28	0.10	54.70	0.000	0.000	0.000
BASE	2856	CIM2 Min	-15.79	-11.41	51.96	0.000	0.000	0.000
BASE	2856	CIM3 Max	5.60	17.50	54.28	0.000	0.000	0.000
BASE	2856	CIM3 Min	0.89	-28.81	52.38	0.000	0.000	0.000
BASE	2856	CIM4 Max	23.93	16.42	70.66	0.000	0.000	0.000
BASE	2856	CIM4 Min	-3.89	8.01	68.66	0.000	0.000	0.000
BASE	2856	CIM5 Max	11.75	29.14	70.35	0.000	0.000	0.000
BASE	2856	CIM5 Min	8.30	-4.71	68.97	0.000	0.000	0.000
BASE	2856	CIM6 Max	20.98	2.36	33.37	0.000	0.000	0.000
BASE	2856	CIM6 Min	-17.09	-9.15	30.63	0.000	0.000	0.000
BASE	2856	CIM7 Max	4.30	19.76	32.95	0.000	0.000	0.000
BASE	2856	CIM7 Min	-0.41	-26.55	31.05	0.000	0.000	0.000
BASE	2856	CIM8 Max	31.32	23.93	76.47	0.000	0.000	0.000
BASE	2856	CIM8 Min	-6.75	12.42	73.74	0.000	0.000	0.000
BASE	2856	CIM9 Max	14.64	41.33	76.05	0.000	0.000	0.000
BASE	2856	CIM9 Min	9.92	-4.98	74.16	0.000	0.000	0.000
BASE	2856	CIM10 Max	40.02	25.24	87.72	0.000	0.000	0.000
BASE	2856	CIM10 Min	-14.15	8.85	83.82	0.000	0.000	0.000
BASE	2856	CIM11 Max	16.29	50.00	87.12	0.000	0.000	0.000
BASE	2856	CIM11 Min	9.58	-15.91	84.42	0.000	0.000	0.000
BASE	2961	CIM1	-50.04	43.07	46.67	0.000	0.000	0.000
BASE	2961	CIM2 Max	-25.67	48.84	38.02	0.000	0.000	0.000
BASE	2961	CIM2 Min	-62.69	36.29	35.59	0.000	0.000	0.000
BASE	2961	CIM3 Max	-43.31	68.12	37.97	0.000	0.000	0.000
BASE	2961	CIM3 Min	-45.05	17.01	35.64	0.000	0.000	0.000
BASE	2961	CIM4 Max	-35.05	47.53	45.10	0.000	0.000	0.000
BASE	2961	CIM4 Min	-62.10	38.36	43.32	0.000	0.000	0.000
BASE	2961	CIM5 Max	-47.94	61.62	45.06	0.000	0.000	0.000
BASE	2961	CIM5 Min	-49.21	24.27	43.35	0.000	0.000	0.000
BASE	2961	CIM6 Max	-8.00	31.82	23.30	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	2961	CIM6 Min	-45.02	19.26	20.86	0.000	0.000	0.000
BASE	2961	CIM7 Max	-25.63	51.10	23.25	0.000	0.000	0.000
BASE	2961	CIM7 Min	-27.38	-0.01	20.91	0.000	0.000	0.000
BASE	2961	CIM8 Max	-31.53	49.35	47.89	0.000	0.000	0.000
BASE	2961	CIM8 Min	-68.55	36.80	45.46	0.000	0.000	0.000
BASE	2961	CIM9 Max	-49.17	68.63	47.84	0.000	0.000	0.000
BASE	2961	CIM9 Min	-50.91	17.52	45.51	0.000	0.000	0.000
BASE	2961	CIM10 Max	-32.53	60.52	55.77	0.000	0.000	0.000
BASE	2961	CIM10 Min	-85.22	42.66	52.30	0.000	0.000	0.000
BASE	2961	CIM11 Max	-57.63	87.95	55.70	0.000	0.000	0.000
BASE	2961	CIM11 Min	-60.12	15.22	52.37	0.000	0.000	0.000
BASE	2962	CIM1	0.52	73.62	87.20	0.000	0.000	0.000
BASE	2962	CIM2 Max	13.56	68.08	68.61	0.000	0.000	0.000
BASE	2962	CIM2 Min	-12.87	67.76	68.60	0.000	0.000	0.000
BASE	2962	CIM3 Max	0.89	91.03	69.73	0.000	0.000	0.000
BASE	2962	CIM3 Min	-0.19	44.80	67.48	0.000	0.000	0.000
BASE	2962	CIM4 Max	10.14	72.31	82.56	0.000	0.000	0.000
BASE	2962	CIM4 Min	-9.18	72.08	82.55	0.000	0.000	0.000
BASE	2962	CIM5 Max	0.88	89.09	83.38	0.000	0.000	0.000
BASE	2962	CIM5 Min	0.08	55.30	81.73	0.000	0.000	0.000
BASE	2962	CIM6 Max	13.43	40.91	41.17	0.000	0.000	0.000
BASE	2962	CIM6 Min	-13.01	40.59	41.15	0.000	0.000	0.000
BASE	2962	CIM7 Max	0.75	63.87	42.29	0.000	0.000	0.000
BASE	2962	CIM7 Min	-0.33	17.63	40.04	0.000	0.000	0.000
BASE	2962	CIM8 Max	13.74	73.78	87.21	0.000	0.000	0.000
BASE	2962	CIM8 Min	-12.69	73.46	87.19	0.000	0.000	0.000
BASE	2962	CIM9 Max	1.06	96.74	88.33	0.000	0.000	0.000
BASE	2962	CIM9 Min	-0.02	50.51	86.08	0.000	0.000	0.000
BASE	2962	CIM10 Max	19.40	87.43	100.93	0.000	0.000	0.000
BASE	2962	CIM10 Min	-18.22	86.98	100.91	0.000	0.000	0.000
BASE	2962	CIM11 Max	1.36	120.10	102.53	0.000	0.000	0.000
BASE	2962	CIM11 Min	-0.18	54.31	99.32	0.000	0.000	0.000
BASE	2963	CIM1	52.63	44.48	46.69	0.000	0.000	0.000
BASE	2963	CIM2 Max	64.38	49.76	38.03	0.000	0.000	0.000
BASE	2963	CIM2 Min	27.41	37.27	35.58	0.000	0.000	0.000
BASE	2963	CIM3 Max	46.85	68.59	37.96	0.000	0.000	0.000
BASE	2963	CIM3 Min	44.94	18.44	35.66	0.000	0.000	0.000
BASE	2963	CIM4 Max	64.45	48.81	45.11	0.000	0.000	0.000
BASE	2963	CIM4 Min	37.44	39.68	43.32	0.000	0.000	0.000
BASE	2963	CIM5 Max	51.64	62.57	45.06	0.000	0.000	0.000
BASE	2963	CIM5 Min	50.25	25.92	43.38	0.000	0.000	0.000
BASE	2963	CIM6 Max	46.02	32.35	23.31	0.000	0.000	0.000
BASE	2963	CIM6 Min	9.06	19.86	20.86	0.000	0.000	0.000
BASE	2963	CIM7 Max	28.49	51.19	23.24	0.000	0.000	0.000
BASE	2963	CIM7 Min	26.58	1.03	20.93	0.000	0.000	0.000
BASE	2963	CIM8 Max	71.11	50.73	47.91	0.000	0.000	0.000
BASE	2963	CIM8 Min	34.15	38.24	45.46	0.000	0.000	0.000
BASE	2963	CIM9 Max	53.58	69.56	47.84	0.000	0.000	0.000
BASE	2963	CIM9 Min	51.68	19.41	45.54	0.000	0.000	0.000
BASE	2963	CIM10 Max	88.11	62.08	55.79	0.000	0.000	0.000
BASE	2963	CIM10 Min	35.51	44.30	52.31	0.000	0.000	0.000
BASE	2963	CIM11 Max	63.16	88.87	55.69	0.000	0.000	0.000
BASE	2963	CIM11 Min	60.45	17.50	52.41	0.000	0.000	0.000
BASE	3045	CIM1	98.43	-95.97	53.24	0.000	0.000	0.000
BASE	3045	CIM2 Max	87.57	-69.20	41.30	0.000	0.000	0.000
BASE	3045	CIM2 Min	48.30	-73.88	38.69	0.000	0.000	0.000
BASE	3045	CIM3 Max	70.30	-50.83	41.00	0.000	0.000	0.000
BASE	3045	CIM3 Min	65.57	-92.24	39.00	0.000	0.000	0.000
BASE	3045	CIM4 Max	105.15	-88.16	50.88	0.000	0.000	0.000
BASE	3045	CIM4 Min	76.46	-91.57	48.97	0.000	0.000	0.000
BASE	3045	CIM5 Max	92.54	-74.74	50.66	0.000	0.000	0.000
BASE	3045	CIM5 Min	89.07	-104.99	49.20	0.000	0.000	0.000
BASE	3045	CIM6 Max	60.40	-40.58	25.30	0.000	0.000	0.000
BASE	3045	CIM6 Min	21.13	-45.26	22.69	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	3045	CIM7 Max	43.13	-22.22	25.00	0.000	0.000	0.000
BASE	3045	CIM7 Min	38.39	-63.62	23.00	0.000	0.000	0.000
BASE	3045	CIM8 Max	118.06	-93.63	54.54	0.000	0.000	0.000
BASE	3045	CIM8 Min	78.79	-98.31	51.93	0.000	0.000	0.000
BASE	3045	CIM9 Max	100.80	-75.27	54.23	0.000	0.000	0.000
BASE	3045	CIM9 Min	96.06	-116.68	52.24	0.000	0.000	0.000
BASE	3045	CIM10 Max	139.96	-106.95	63.09	0.000	0.000	0.000
BASE	3045	CIM10 Min	84.08	-113.61	59.38	0.000	0.000	0.000
BASE	3045	CIM11 Max	115.39	-80.82	62.66	0.000	0.000	0.000
BASE	3045	CIM11 Min	108.64	-139.74	59.81	0.000	0.000	0.000
BASE	3046	CIM1	-11.67	-103.20	100.57	0.000	0.000	0.000
BASE	3046	CIM2 Max	9.83	-87.79	76.86	0.000	0.000	0.000
BASE	3046	CIM2 Min	-18.82	-88.50	76.67	0.000	0.000	0.000
BASE	3046	CIM3 Max	-3.10	-71.04	77.58	0.000	0.000	0.000
BASE	3046	CIM3 Min	-5.89	-105.26	75.95	0.000	0.000	0.000
BASE	3046	CIM4 Max	0.59	-99.18	94.69	0.000	0.000	0.000
BASE	3046	CIM4 Min	-20.34	-99.70	94.55	0.000	0.000	0.000
BASE	3046	CIM5 Max	-8.85	-86.94	95.22	0.000	0.000	0.000
BASE	3046	CIM5 Min	-10.90	-111.94	94.03	0.000	0.000	0.000
BASE	3046	CIM6 Max	11.63	-52.54	46.16	0.000	0.000	0.000
BASE	3046	CIM6 Min	-17.02	-53.24	45.96	0.000	0.000	0.000
BASE	3046	CIM7 Max	-1.30	-35.78	46.88	0.000	0.000	0.000
BASE	3046	CIM7 Min	-4.10	-70.00	45.24	0.000	0.000	0.000
BASE	3046	CIM8 Max	2.65	-102.85	100.67	0.000	0.000	0.000
BASE	3046	CIM8 Min	-25.99	-103.56	100.48	0.000	0.000	0.000
BASE	3046	CIM9 Max	-10.27	-86.09	101.39	0.000	0.000	0.000
BASE	3046	CIM9 Min	-13.07	-120.31	99.76	0.000	0.000	0.000
BASE	3046	CIM10 Max	7.81	-120.33	116.07	0.000	0.000	0.000
BASE	3046	CIM10 Min	-32.95	-121.34	115.79	0.000	0.000	0.000
BASE	3046	CIM11 Max	-10.58	-96.49	117.09	0.000	0.000	0.000
BASE	3046	CIM11 Min	-14.56	-145.18	114.77	0.000	0.000	0.000
BASE	3047	CIM1	-22.82	-23.03	66.83	0.000	0.000	0.000
BASE	3047	CIM2 Max	-8.04	-33.08	52.20	0.000	0.000	0.000
BASE	3047	CIM2 Min	-36.30	-36.05	50.38	0.000	0.000	0.000
BASE	3047	CIM3 Max	-20.58	-13.54	52.17	0.000	0.000	0.000
BASE	3047	CIM3 Min	-23.76	-55.59	50.42	0.000	0.000	0.000
BASE	3047	CIM4 Max	-12.33	-24.83	63.61	0.000	0.000	0.000
BASE	3047	CIM4 Min	-32.98	-27.00	62.28	0.000	0.000	0.000
BASE	3047	CIM5 Max	-21.49	-10.55	63.59	0.000	0.000	0.000
BASE	3047	CIM5 Min	-23.82	-41.28	62.31	0.000	0.000	0.000
BASE	3047	CIM6 Max	0.83	-19.26	31.68	0.000	0.000	0.000
BASE	3047	CIM6 Min	-27.43	-22.22	29.87	0.000	0.000	0.000
BASE	3047	CIM7 Max	-11.71	0.29	31.65	0.000	0.000	0.000
BASE	3047	CIM7 Min	-14.90	-41.76	29.90	0.000	0.000	0.000
BASE	3047	CIM8 Max	-8.69	-21.55	67.74	0.000	0.000	0.000
BASE	3047	CIM8 Min	-36.95	-24.52	65.93	0.000	0.000	0.000
BASE	3047	CIM9 Max	-21.23	-2.01	67.71	0.000	0.000	0.000
BASE	3047	CIM9 Min	-24.42	-44.06	65.96	0.000	0.000	0.000
BASE	3047	CIM10 Max	-7.15	-27.84	78.39	0.000	0.000	0.000
BASE	3047	CIM10 Min	-47.36	-32.06	75.80	0.000	0.000	0.000
BASE	3047	CIM11 Max	-24.99	-0.03	78.34	0.000	0.000	0.000
BASE	3047	CIM11 Min	-29.52	-59.87	75.84	0.000	0.000	0.000
BASE	3048	CIM1	-60.39	67.54	46.55	0.000	0.000	0.000
BASE	3048	CIM2 Max	-36.67	61.62	42.77	0.000	0.000	0.000
BASE	3048	CIM2 Min	-73.87	57.72	39.99	0.000	0.000	0.000
BASE	3048	CIM3 Max	-53.74	87.00	42.54	0.000	0.000	0.000
BASE	3048	CIM3 Min	-56.80	32.34	40.22	0.000	0.000	0.000
BASE	3048	CIM4 Max	-45.51	66.99	46.27	0.000	0.000	0.000
BASE	3048	CIM4 Min	-72.70	64.15	44.24	0.000	0.000	0.000
BASE	3048	CIM5 Max	-57.99	85.54	46.10	0.000	0.000	0.000
BASE	3048	CIM5 Min	-60.22	45.59	44.41	0.000	0.000	0.000
BASE	3048	CIM6 Max	-14.56	37.75	26.22	0.000	0.000	0.000
BASE	3048	CIM6 Min	-51.76	33.86	23.44	0.000	0.000	0.000
BASE	3048	CIM7 Max	-31.63	63.14	25.99	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	3048	CIM7 Min	-34.69	8.47	23.67	0.000	0.000	0.000
BASE	3048	CIM8 Max	-41.79	69.48	47.94	0.000	0.000	0.000
BASE	3048	CIM8 Min	-78.98	65.59	45.16	0.000	0.000	0.000
BASE	3048	CIM9 Max	-58.86	94.87	47.71	0.000	0.000	0.000
BASE	3048	CIM9 Min	-61.91	40.20	45.39	0.000	0.000	0.000
BASE	3048	CIM10 Max	-44.97	82.24	56.81	0.000	0.000	0.000
BASE	3048	CIM10 Min	-97.91	76.70	52.84	0.000	0.000	0.000
BASE	3048	CIM11 Max	-69.26	118.37	56.48	0.000	0.000	0.000
BASE	3048	CIM11 Min	-73.61	40.57	53.17	0.000	0.000	0.000
BASE	3049	CIM1	-9.82	126.37	95.95	0.000	0.000	0.000
BASE	3049	CIM2 Max	13.14	98.43	79.13	0.000	0.000	0.000
BASE	3049	CIM2 Min	-13.20	98.21	79.09	0.000	0.000	0.000
BASE	3049	CIM3 Max	1.21	120.98	80.17	0.000	0.000	0.000
BASE	3049	CIM3 Min	-1.27	75.66	78.05	0.000	0.000	0.000
BASE	3049	CIM4 Max	2.25	119.44	91.75	0.000	0.000	0.000
BASE	3049	CIM4 Min	-17.00	119.28	91.72	0.000	0.000	0.000
BASE	3049	CIM5 Max	-6.47	135.92	92.51	0.000	0.000	0.000
BASE	3049	CIM5 Min	-8.28	102.80	90.96	0.000	0.000	0.000
BASE	3049	CIM6 Max	13.15	59.10	47.49	0.000	0.000	0.000
BASE	3049	CIM6 Min	-13.19	58.88	47.45	0.000	0.000	0.000
BASE	3049	CIM7 Max	1.22	81.65	48.53	0.000	0.000	0.000
BASE	3049	CIM7 Min	-1.26	36.33	46.41	0.000	0.000	0.000
BASE	3049	CIM8 Max	3.34	126.49	95.97	0.000	0.000	0.000
BASE	3049	CIM8 Min	-22.99	126.26	95.93	0.000	0.000	0.000
BASE	3049	CIM9 Max	-8.59	149.03	97.00	0.000	0.000	0.000
BASE	3049	CIM9 Min	-11.06	103.72	94.89	0.000	0.000	0.000
BASE	3049	CIM10 Max	8.91	146.20	111.80	0.000	0.000	0.000
BASE	3049	CIM10 Min	-28.57	145.88	111.74	0.000	0.000	0.000
BASE	3049	CIM11 Max	-8.07	178.28	113.28	0.000	0.000	0.000
BASE	3049	CIM11 Min	-11.59	113.79	110.26	0.000	0.000	0.000
BASE	3050	CIM1	81.09	88.98	49.57	0.000	0.000	0.000
BASE	3050	CIM2 Max	77.54	65.76	40.76	0.000	0.000	0.000
BASE	3050	CIM2 Min	40.09	61.53	37.96	0.000	0.000	0.000
BASE	3050	CIM3 Max	60.69	85.68	40.45	0.000	0.000	0.000
BASE	3050	CIM3 Min	56.94	41.61	38.27	0.000	0.000	0.000
BASE	3050	CIM4 Max	89.21	84.19	48.04	0.000	0.000	0.000
BASE	3050	CIM4 Min	61.84	81.10	46.00	0.000	0.000	0.000
BASE	3050	CIM5 Max	76.90	98.75	47.81	0.000	0.000	0.000
BASE	3050	CIM5 Min	74.15	66.54	46.23	0.000	0.000	0.000
BASE	3050	CIM6 Max	54.02	40.30	25.02	0.000	0.000	0.000
BASE	3050	CIM6 Min	16.56	36.07	22.21	0.000	0.000	0.000
BASE	3050	CIM7 Max	37.17	60.22	24.70	0.000	0.000	0.000
BASE	3050	CIM7 Min	33.41	16.15	22.53	0.000	0.000	0.000
BASE	3050	CIM8 Max	99.82	91.10	50.98	0.000	0.000	0.000
BASE	3050	CIM8 Min	62.37	86.87	48.17	0.000	0.000	0.000
BASE	3050	CIM9 Max	82.97	111.02	50.66	0.000	0.000	0.000
BASE	3050	CIM9 Min	79.22	66.95	48.49	0.000	0.000	0.000
BASE	3050	CIM10 Max	119.51	104.72	59.44	0.000	0.000	0.000
BASE	3050	CIM10 Min	66.21	98.70	55.45	0.000	0.000	0.000
BASE	3050	CIM11 Max	95.53	133.07	58.99	0.000	0.000	0.000
BASE	3050	CIM11 Min	90.19	70.35	55.90	0.000	0.000	0.000
BASE	3374	CIM1	-10.50	-174.70	60.41	0.000	0.000	0.000
BASE	3374	CIM2 Max	14.60	-128.63	50.20	0.000	0.000	0.000
BASE	3374	CIM2 Min	-32.57	-133.18	46.77	0.000	0.000	0.000
BASE	3374	CIM3 Max	-6.43	-101.67	49.86	0.000	0.000	0.000
BASE	3374	CIM3 Min	-11.54	-160.14	47.10	0.000	0.000	0.000
BASE	3374	CIM4 Max	7.11	-162.09	58.68	0.000	0.000	0.000
BASE	3374	CIM4 Min	-27.36	-165.41	56.18	0.000	0.000	0.000
BASE	3374	CIM5 Max	-8.25	-142.39	58.44	0.000	0.000	0.000
BASE	3374	CIM5 Min	-11.99	-185.12	56.42	0.000	0.000	0.000
BASE	3374	CIM6 Max	18.19	-76.27	30.80	0.000	0.000	0.000
BASE	3374	CIM6 Min	-28.98	-80.82	27.37	0.000	0.000	0.000
BASE	3374	CIM7 Max	-2.84	-49.31	30.47	0.000	0.000	0.000
BASE	3374	CIM7 Min	-7.95	-107.78	27.71	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	3374	CIM8 Max	13.09	-172.43	62.13	0.000	0.000	0.000
BASE	3374	CIM8 Min	-34.09	-176.97	58.70	0.000	0.000	0.000
BASE	3374	CIM9 Max	-7.94	-145.46	61.80	0.000	0.000	0.000
BASE	3374	CIM9 Min	-13.06	-203.94	59.03	0.000	0.000	0.000
BASE	3374	CIM10 Max	21.27	-197.65	72.55	0.000	0.000	0.000
BASE	3374	CIM10 Min	-45.86	-204.12	67.67	0.000	0.000	0.000
BASE	3374	CIM11 Max	-8.66	-159.27	72.08	0.000	0.000	0.000
BASE	3374	CIM11 Min	-15.94	-242.49	68.14	0.000	0.000	0.000
BASE	3375	CIM1	8.27	-204.27	85.24	0.000	0.000	0.000
BASE	3375	CIM2 Max	23.79	-150.16	68.71	0.000	0.000	0.000
BASE	3375	CIM2 Min	-10.63	-153.03	67.79	0.000	0.000	0.000
BASE	3375	CIM3 Max	8.28	-122.28	69.52	0.000	0.000	0.000
BASE	3375	CIM3 Min	4.88	-180.91	66.98	0.000	0.000	0.000
BASE	3375	CIM4 Max	20.43	-190.05	81.33	0.000	0.000	0.000
BASE	3375	CIM4 Min	-4.73	-192.15	80.66	0.000	0.000	0.000
BASE	3375	CIM5 Max	9.09	-169.68	81.92	0.000	0.000	0.000
BASE	3375	CIM5 Min	6.61	-212.52	80.07	0.000	0.000	0.000
BASE	3375	CIM6 Max	21.16	-89.52	41.41	0.000	0.000	0.000
BASE	3375	CIM6 Min	-13.26	-92.40	40.49	0.000	0.000	0.000
BASE	3375	CIM7 Max	5.64	-61.64	42.22	0.000	0.000	0.000
BASE	3375	CIM7 Min	2.25	-120.27	39.68	0.000	0.000	0.000
BASE	3375	CIM8 Max	25.48	-202.83	85.70	0.000	0.000	0.000
BASE	3375	CIM8 Min	-8.93	-205.71	84.78	0.000	0.000	0.000
BASE	3375	CIM9 Max	9.97	-174.95	86.51	0.000	0.000	0.000
BASE	3375	CIM9 Min	6.58	-233.59	83.97	0.000	0.000	0.000
BASE	3375	CIM10 Max	34.08	-232.54	99.55	0.000	0.000	0.000
BASE	3375	CIM10 Min	-14.90	-236.63	98.24	0.000	0.000	0.000
BASE	3375	CIM11 Max	12.00	-192.87	100.70	0.000	0.000	0.000
BASE	3375	CIM11 Min	7.18	-276.31	97.09	0.000	0.000	0.000
BASE	3376	CIM1	-2.02	-205.67	81.64	0.000	0.000	0.000
BASE	3376	CIM2 Max	15.95	-151.68	65.59	0.000	0.000	0.000
BASE	3376	CIM2 Min	-19.05	-152.81	65.52	0.000	0.000	0.000
BASE	3376	CIM3 Max	0.15	-123.51	67.02	0.000	0.000	0.000
BASE	3376	CIM3 Min	-3.25	-180.98	64.09	0.000	0.000	0.000
BASE	3376	CIM4 Max	10.89	-191.90	77.65	0.000	0.000	0.000
BASE	3376	CIM4 Min	-14.70	-192.73	77.60	0.000	0.000	0.000
BASE	3376	CIM5 Max	-0.66	-171.31	78.69	0.000	0.000	0.000
BASE	3376	CIM5 Min	-3.15	-213.31	76.55	0.000	0.000	0.000
BASE	3376	CIM6 Max	16.57	-90.78	39.36	0.000	0.000	0.000
BASE	3376	CIM6 Min	-18.43	-91.91	39.30	0.000	0.000	0.000
BASE	3376	CIM7 Max	0.77	-62.61	40.80	0.000	0.000	0.000
BASE	3376	CIM7 Min	-2.63	-120.08	37.87	0.000	0.000	0.000
BASE	3376	CIM8 Max	15.48	-205.10	81.68	0.000	0.000	0.000
BASE	3376	CIM8 Min	-19.53	-206.23	81.61	0.000	0.000	0.000
BASE	3376	CIM9 Max	-0.32	-176.93	83.11	0.000	0.000	0.000
BASE	3376	CIM9 Min	-3.72	-234.40	80.18	0.000	0.000	0.000
BASE	3376	CIM10 Max	22.58	-235.31	94.80	0.000	0.000	0.000
BASE	3376	CIM10 Min	-27.24	-236.92	94.71	0.000	0.000	0.000
BASE	3376	CIM11 Max	0.08	-195.23	96.84	0.000	0.000	0.000
BASE	3376	CIM11 Min	-4.75	-277.01	92.67	0.000	0.000	0.000
BASE	3377	CIM1	-1.05	-197.99	86.02	0.000	0.000	0.000
BASE	3377	CIM2 Max	16.32	-149.39	67.26	0.000	0.000	0.000
BASE	3377	CIM2 Min	-17.14	-150.39	66.41	0.000	0.000	0.000
BASE	3377	CIM3 Max	1.22	-120.53	68.16	0.000	0.000	0.000
BASE	3377	CIM3 Min	-2.04	-179.24	65.50	0.000	0.000	0.000
BASE	3377	CIM4 Max	11.34	-185.60	81.53	0.000	0.000	0.000
BASE	3377	CIM4 Min	-13.12	-186.33	80.91	0.000	0.000	0.000
BASE	3377	CIM5 Max	0.30	-164.51	82.19	0.000	0.000	0.000
BASE	3377	CIM5 Min	-2.08	-207.41	80.25	0.000	0.000	0.000
BASE	3377	CIM6 Max	16.49	-89.43	40.52	0.000	0.000	0.000
BASE	3377	CIM6 Min	-16.98	-90.44	39.67	0.000	0.000	0.000
BASE	3377	CIM7 Max	1.39	-60.58	41.43	0.000	0.000	0.000
BASE	3377	CIM7 Min	-1.88	-119.29	38.77	0.000	0.000	0.000
BASE	3377	CIM8 Max	15.68	-197.48	86.44	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	3377	CIM8 Min	-17.78	-198.49	85.59	0.000	0.000	0.000
BASE	3377	CIM9 Max	0.58	-168.63	87.35	0.000	0.000	0.000
BASE	3377	CIM9 Min	-2.68	-227.34	84.69	0.000	0.000	0.000
BASE	3377	CIM10 Max	22.68	-227.25	99.99	0.000	0.000	0.000
BASE	3377	CIM10 Min	-24.94	-228.68	98.78	0.000	0.000	0.000
BASE	3377	CIM11 Max	1.19	-186.19	101.28	0.000	0.000	0.000
BASE	3377	CIM11 Min	-3.45	-269.74	97.49	0.000	0.000	0.000

BASE	3378	CIM1	0.75	-226.54	84.85	0.000	0.000	0.000
BASE	3378	CIM2 Max	36.96	-172.19	65.55	0.000	0.000	0.000
BASE	3378	CIM2 Min	-35.47	-175.17	64.60	0.000	0.000	0.000
BASE	3378	CIM3 Max	4.35	-140.03	66.42	0.000	0.000	0.000
BASE	3378	CIM3 Min	-2.85	-207.34	63.74	0.000	0.000	0.000
BASE	3378	CIM4 Max	27.21	-212.23	80.25	0.000	0.000	0.000
BASE	3378	CIM4 Min	-25.72	-214.41	79.56	0.000	0.000	0.000
BASE	3378	CIM5 Max	3.38	-188.73	80.88	0.000	0.000	0.000
BASE	3378	CIM5 Min	-1.88	-237.92	78.93	0.000	0.000	0.000
BASE	3378	CIM6 Max	36.66	-102.72	39.52	0.000	0.000	0.000
BASE	3378	CIM6 Min	-35.77	-105.70	38.57	0.000	0.000	0.000
BASE	3378	CIM7 Max	4.05	-70.55	40.39	0.000	0.000	0.000
BASE	3378	CIM7 Min	-3.15	-137.87	37.71	0.000	0.000	0.000
BASE	3378	CIM8 Max	36.97	-225.04	85.32	0.000	0.000	0.000
BASE	3378	CIM8 Min	-35.47	-228.03	84.37	0.000	0.000	0.000
BASE	3378	CIM9 Max	4.35	-192.88	86.19	0.000	0.000	0.000
BASE	3378	CIM9 Min	-2.85	-260.19	83.51	0.000	0.000	0.000
BASE	3378	CIM10 Max	52.44	-259.15	98.54	0.000	0.000	0.000
BASE	3378	CIM10 Min	-50.64	-263.39	97.19	0.000	0.000	0.000
BASE	3378	CIM11 Max	6.02	-213.38	99.77	0.000	0.000	0.000
BASE	3378	CIM11 Min	-4.22	-309.17	95.96	0.000	0.000	0.000

BASE	3379	CIM1	-51.39	-126.49	57.53	0.000	0.000	0.000
BASE	3379	CIM2 Max	-16.76	-95.81	46.93	0.000	0.000	0.000
BASE	3379	CIM2 Min	-62.27	-100.40	42.69	0.000	0.000	0.000
BASE	3379	CIM3 Max	-37.61	-64.08	46.38	0.000	0.000	0.000
BASE	3379	CIM3 Min	-41.43	-132.12	43.25	0.000	0.000	0.000
BASE	3379	CIM4 Max	-31.80	-117.72	55.90	0.000	0.000	0.000
BASE	3379	CIM4 Min	-65.05	-121.07	52.80	0.000	0.000	0.000
BASE	3379	CIM5 Max	-47.03	-94.53	55.49	0.000	0.000	0.000
BASE	3379	CIM5 Min	-49.82	-144.25	53.21	0.000	0.000	0.000
BASE	3379	CIM6 Max	-0.96	-56.57	29.01	0.000	0.000	0.000
BASE	3379	CIM6 Min	-46.47	-61.16	24.77	0.000	0.000	0.000
BASE	3379	CIM7 Max	-21.80	-24.84	28.45	0.000	0.000	0.000
BASE	3379	CIM7 Min	-25.62	-92.88	25.32	0.000	0.000	0.000
BASE	3379	CIM8 Max	-28.64	-124.20	59.65	0.000	0.000	0.000
BASE	3379	CIM8 Min	-74.15	-128.78	55.41	0.000	0.000	0.000
BASE	3379	CIM9 Max	-49.48	-92.47	59.10	0.000	0.000	0.000
BASE	3379	CIM9 Min	-53.31	-160.51	55.96	0.000	0.000	0.000
BASE	3379	CIM10 Max	-26.92	-142.85	69.51	0.000	0.000	0.000
BASE	3379	CIM10 Min	-91.68	-149.37	63.47	0.000	0.000	0.000
BASE	3379	CIM11 Max	-56.58	-97.70	68.72	0.000	0.000	0.000
BASE	3379	CIM11 Min	-62.02	-194.52	64.26	0.000	0.000	0.000

BASE	3380	CIM1	-36.66	23.20	114.64	0.000	0.000	0.000
BASE	3380	CIM2 Max	-7.28	19.14	91.92	0.000	0.000	0.000
BASE	3380	CIM2 Min	-53.11	15.13	88.79	0.000	0.000	0.000
BASE	3380	CIM3 Max	-29.89	42.14	90.43	0.000	0.000	0.000
BASE	3380	CIM3 Min	-30.50	-7.88	90.27	0.000	0.000	0.000
BASE	3380	CIM4 Max	-18.30	23.15	109.71	0.000	0.000	0.000
BASE	3380	CIM4 Min	-51.79	20.22	107.42	0.000	0.000	0.000
BASE	3380	CIM5 Max	-34.82	39.96	108.62	0.000	0.000	0.000
BASE	3380	CIM5 Min	-35.26	3.41	108.51	0.000	0.000	0.000
BASE	3380	CIM6 Max	4.80	12.28	55.78	0.000	0.000	0.000
BASE	3380	CIM6 Min	-41.03	8.28	52.65	0.000	0.000	0.000
BASE	3380	CIM7 Max	-17.82	35.29	54.29	0.000	0.000	0.000
BASE	3380	CIM7 Min	-18.42	-14.73	54.13	0.000	0.000	0.000
BASE	3380	CIM8 Max	-13.74	25.20	116.20	0.000	0.000	0.000
BASE	3380	CIM8 Min	-59.57	21.20	113.07	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	3380	CIM9 Max	-36.36	48.21	114.72	0.000	0.000	0.000
BASE	3380	CIM9 Min	-36.96	-1.81	114.56	0.000	0.000	0.000
BASE	3380	CIM10 Max	-10.09	29.48	134.94	0.000	0.000	0.000
BASE	3380	CIM10 Min	-75.31	23.78	130.48	0.000	0.000	0.000
BASE	3380	CIM11 Max	-42.27	62.22	132.82	0.000	0.000	0.000
BASE	3380	CIM11 Min	-43.13	-8.96	132.59	0.000	0.000	0.000
BASE	3381	CIM1	-1.88	49.84	141.33	0.000	0.000	0.000
BASE	3381	CIM2 Max	15.58	37.70	112.21	0.000	0.000	0.000
BASE	3381	CIM2 Min	-17.11	35.31	112.18	0.000	0.000	0.000
BASE	3381	CIM3 Max	-0.15	61.20	112.44	0.000	0.000	0.000
BASE	3381	CIM3 Min	-1.38	11.81	111.96	0.000	0.000	0.000
BASE	3381	CIM4 Max	10.34	47.38	134.06	0.000	0.000	0.000
BASE	3381	CIM4 Min	-13.55	45.64	134.03	0.000	0.000	0.000
BASE	3381	CIM5 Max	-1.16	64.56	134.22	0.000	0.000	0.000
BASE	3381	CIM5 Min	-2.05	28.46	133.87	0.000	0.000	0.000
BASE	3381	CIM6 Max	15.88	23.10	67.34	0.000	0.000	0.000
BASE	3381	CIM6 Min	-16.80	20.71	67.30	0.000	0.000	0.000
BASE	3381	CIM7 Max	0.15	46.60	67.56	0.000	0.000	0.000
BASE	3381	CIM7 Min	-1.07	-2.79	67.08	0.000	0.000	0.000
BASE	3381	CIM8 Max	14.46	51.04	141.34	0.000	0.000	0.000
BASE	3381	CIM8 Min	-18.23	48.65	141.31	0.000	0.000	0.000
BASE	3381	CIM9 Max	-1.27	74.54	141.56	0.000	0.000	0.000
BASE	3381	CIM9 Min	-2.50	25.15	141.09	0.000	0.000	0.000
BASE	3381	CIM10 Max	21.22	58.85	163.79	0.000	0.000	0.000
BASE	3381	CIM10 Min	-25.30	55.44	163.74	0.000	0.000	0.000
BASE	3381	CIM11 Max	-1.16	92.29	164.10	0.000	0.000	0.000
BASE	3381	CIM11 Min	-2.91	22.00	163.43	0.000	0.000	0.000
BASE	3382	CIM1	-14.75	207.11	85.87	0.000	0.000	0.000
BASE	3382	CIM2 Max	25.56	154.51	69.44	0.000	0.000	0.000
BASE	3382	CIM2 Min	-47.74	153.34	69.36	0.000	0.000	0.000
BASE	3382	CIM3 Max	-10.60	184.27	70.71	0.000	0.000	0.000
BASE	3382	CIM3 Min	-11.58	123.58	68.08	0.000	0.000	0.000
BASE	3382	CIM4 Max	12.95	194.24	81.78	0.000	0.000	0.000
BASE	3382	CIM4 Min	-40.62	193.38	81.72	0.000	0.000	0.000
BASE	3382	CIM5 Max	-13.48	215.99	82.71	0.000	0.000	0.000
BASE	3382	CIM5 Min	-14.20	171.64	80.79	0.000	0.000	0.000
BASE	3382	CIM6 Max	30.00	92.94	41.68	0.000	0.000	0.000
BASE	3382	CIM6 Min	-43.31	91.77	41.60	0.000	0.000	0.000
BASE	3382	CIM7 Max	-6.16	122.70	42.95	0.000	0.000	0.000
BASE	3382	CIM7 Min	-7.15	62.01	40.32	0.000	0.000	0.000
BASE	3382	CIM8 Max	21.90	207.69	85.91	0.000	0.000	0.000
BASE	3382	CIM8 Min	-51.40	206.52	85.83	0.000	0.000	0.000
BASE	3382	CIM9 Max	-14.26	237.45	87.18	0.000	0.000	0.000
BASE	3382	CIM9 Min	-15.25	176.76	84.55	0.000	0.000	0.000
BASE	3382	CIM10 Max	35.19	238.72	99.80	0.000	0.000	0.000
BASE	3382	CIM10 Min	-69.13	237.06	99.69	0.000	0.000	0.000
BASE	3382	CIM11 Max	-16.27	281.08	101.62	0.000	0.000	0.000
BASE	3382	CIM11 Min	-17.67	194.71	97.87	0.000	0.000	0.000
BASE	3383	CIM1	36.08	87.34	127.14	0.000	0.000	0.000
BASE	3383	CIM2 Max	43.78	64.71	96.33	0.000	0.000	0.000
BASE	3383	CIM2 Min	12.03	63.73	96.18	0.000	0.000	0.000
BASE	3383	CIM3 Max	28.20	89.70	96.30	0.000	0.000	0.000
BASE	3383	CIM3 Min	27.61	38.75	96.21	0.000	0.000	0.000
BASE	3383	CIM4 Max	45.64	81.92	119.47	0.000	0.000	0.000
BASE	3383	CIM4 Min	22.43	81.20	119.37	0.000	0.000	0.000
BASE	3383	CIM5 Max	34.25	100.18	119.46	0.000	0.000	0.000
BASE	3383	CIM5 Min	33.82	62.95	119.38	0.000	0.000	0.000
BASE	3383	CIM6 Max	32.62	39.02	57.83	0.000	0.000	0.000
BASE	3383	CIM6 Min	0.87	38.04	57.68	0.000	0.000	0.000
BASE	3383	CIM7 Max	17.04	64.01	57.80	0.000	0.000	0.000
BASE	3383	CIM7 Min	16.45	13.06	57.70	0.000	0.000	0.000
BASE	3383	CIM8 Max	51.96	87.83	127.22	0.000	0.000	0.000
BASE	3383	CIM8 Min	20.20	86.85	127.07	0.000	0.000	0.000
BASE	3383	CIM9 Max	36.37	112.82	127.19	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	3383	CIM9 Min	35.78	61.87	127.09	0.000	0.000	0.000
BASE	3383	CIM10 Max	64.25	100.88	146.50	0.000	0.000	0.000
BASE	3383	CIM10 Min	19.07	99.49	146.29	0.000	0.000	0.000
BASE	3383	CIM11 Max	42.08	136.44	146.46	0.000	0.000	0.000
BASE	3383	CIM11 Min	41.24	63.93	146.32	0.000	0.000	0.000
BASE	3384	CIM1	-0.76	34.82	158.53	0.000	0.000	0.000
BASE	3384	CIM2 Max	34.66	27.21	117.04	0.000	0.000	0.000
BASE	3384	CIM2 Min	-35.64	24.53	115.20	0.000	0.000	0.000
BASE	3384	CIM3 Max	0.03	55.28	116.27	0.000	0.000	0.000
BASE	3384	CIM3 Min	-1.01	-3.53	115.97	0.000	0.000	0.000
BASE	3384	CIM4 Max	24.99	33.56	148.60	0.000	0.000	0.000
BASE	3384	CIM4 Min	-26.38	31.60	147.26	0.000	0.000	0.000
BASE	3384	CIM5 Max	-0.32	54.07	148.04	0.000	0.000	0.000
BASE	3384	CIM5 Min	-1.07	11.09	147.82	0.000	0.000	0.000
BASE	3384	CIM6 Max	34.85	16.86	70.59	0.000	0.000	0.000
BASE	3384	CIM6 Min	-35.44	14.19	68.75	0.000	0.000	0.000
BASE	3384	CIM7 Max	0.22	44.93	69.82	0.000	0.000	0.000
BASE	3384	CIM7 Min	-0.81	-13.88	69.52	0.000	0.000	0.000
BASE	3384	CIM8 Max	34.38	36.16	159.45	0.000	0.000	0.000
BASE	3384	CIM8 Min	-35.91	33.48	157.61	0.000	0.000	0.000
BASE	3384	CIM9 Max	-0.25	64.22	158.68	0.000	0.000	0.000
BASE	3384	CIM9 Min	-1.28	5.41	158.38	0.000	0.000	0.000
BASE	3384	CIM10 Max	49.15	41.90	183.06	0.000	0.000	0.000
BASE	3384	CIM10 Min	-50.88	38.09	180.45	0.000	0.000	0.000
BASE	3384	CIM11 Max	-0.12	81.84	181.97	0.000	0.000	0.000
BASE	3384	CIM11 Min	-1.60	-1.86	181.55	0.000	0.000	0.000
BASE	3385	CIM1	-81.43	23.07	114.51	0.000	0.000	0.000
BASE	3385	CIM2 Max	-19.38	19.38	89.17	0.000	0.000	0.000
BASE	3385	CIM2 Min	-103.33	15.38	84.33	0.000	0.000	0.000
BASE	3385	CIM3 Max	-60.80	47.29	86.91	0.000	0.000	0.000
BASE	3385	CIM3 Min	-61.91	-12.53	86.59	0.000	0.000	0.000
BASE	3385	CIM4 Max	-45.74	23.11	109.34	0.000	0.000	0.000
BASE	3385	CIM4 Min	-107.09	20.19	105.80	0.000	0.000	0.000
BASE	3385	CIM5 Max	-76.01	43.50	107.69	0.000	0.000	0.000
BASE	3385	CIM5 Min	-76.82	-0.21	107.45	0.000	0.000	0.000
BASE	3385	CIM6 Max	5.16	12.42	54.47	0.000	0.000	0.000
BASE	3385	CIM6 Min	-78.79	8.43	49.63	0.000	0.000	0.000
BASE	3385	CIM7 Max	-36.26	40.34	52.21	0.000	0.000	0.000
BASE	3385	CIM7 Min	-37.37	-19.48	51.89	0.000	0.000	0.000
BASE	3385	CIM8 Max	-39.46	25.07	116.93	0.000	0.000	0.000
BASE	3385	CIM8 Min	-123.41	21.07	112.09	0.000	0.000	0.000
BASE	3385	CIM9 Max	-80.88	52.98	114.68	0.000	0.000	0.000
BASE	3385	CIM9 Min	-81.99	-6.84	114.35	0.000	0.000	0.000
BASE	3385	CIM10 Max	-33.97	29.39	135.31	0.000	0.000	0.000
BASE	3385	CIM10 Min	-153.44	23.70	128.42	0.000	0.000	0.000
BASE	3385	CIM11 Max	-92.91	69.11	132.10	0.000	0.000	0.000
BASE	3385	CIM11 Min	-94.49	-16.02	131.63	0.000	0.000	0.000
BASE	3302	CIM1	9.44	64.87	79.52	0.000	0.000	0.000
BASE	3302	CIM2 Max	24.75	55.79	59.70	0.000	0.000	0.000
BASE	3302	CIM2 Min	-12.58	52.34	56.58	0.000	0.000	0.000
BASE	3302	CIM3 Max	8.27	76.48	59.17	0.000	0.000	0.000
BASE	3302	CIM3 Min	3.91	31.66	57.12	0.000	0.000	0.000
BASE	3302	CIM4 Max	22.24	63.43	75.32	0.000	0.000	0.000
BASE	3302	CIM4 Min	-5.04	60.91	73.03	0.000	0.000	0.000
BASE	3302	CIM5 Max	10.20	78.55	74.92	0.000	0.000	0.000
BASE	3302	CIM5 Min	7.01	45.80	73.43	0.000	0.000	0.000
BASE	3302	CIM6 Max	22.32	34.16	36.45	0.000	0.000	0.000
BASE	3302	CIM6 Min	-15.01	30.72	33.33	0.000	0.000	0.000
BASE	3302	CIM7 Max	5.84	54.85	35.91	0.000	0.000	0.000
BASE	3302	CIM7 Min	1.47	10.03	33.86	0.000	0.000	0.000
BASE	3302	CIM8 Max	28.10	66.59	81.08	0.000	0.000	0.000
BASE	3302	CIM8 Min	-9.23	63.15	77.96	0.000	0.000	0.000
BASE	3302	CIM9 Max	11.62	87.28	80.54	0.000	0.000	0.000
BASE	3302	CIM9 Min	7.26	42.46	78.50	0.000	0.000	0.000

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BASE	3302	CIM10 Max	37.22	78.14	93.37	0.000	0.000	0.000
BASE	3302	CIM10 Min	-15.91	73.23	88.93	0.000	0.000	0.000
BASE	3302	CIM11 Max	13.76	107.57	92.60	0.000	0.000	0.000
BASE	3302	CIM11 Min	7.55	43.80	89.69	0.000	0.000	0.000
BASE	3303	CIM1	89.55	43.52	97.15	0.000	0.000	0.000
BASE	3303	CIM2 Max	76.89	41.50	73.02	0.000	0.000	0.000
BASE	3303	CIM2 Min	38.89	39.32	69.71	0.000	0.000	0.000
BASE	3303	CIM3 Max	60.33	62.81	72.64	0.000	0.000	0.000
BASE	3303	CIM3 Min	55.46	18.02	70.09	0.000	0.000	0.000
BASE	3303	CIM4 Max	95.52	43.54	91.91	0.000	0.000	0.000
BASE	3303	CIM4 Min	67.75	41.95	89.50	0.000	0.000	0.000
BASE	3303	CIM5 Max	83.42	59.11	91.64	0.000	0.000	0.000
BASE	3303	CIM5 Min	79.86	26.38	89.77	0.000	0.000	0.000
BASE	3303	CIM6 Max	53.74	25.34	44.47	0.000	0.000	0.000
BASE	3303	CIM6 Min	15.74	23.16	41.17	0.000	0.000	0.000
BASE	3303	CIM7 Max	37.17	46.64	44.10	0.000	0.000	0.000
BASE	3303	CIM7 Min	32.30	1.86	41.54	0.000	0.000	0.000
BASE	3303	CIM8 Max	108.55	44.61	98.81	0.000	0.000	0.000
BASE	3303	CIM8 Min	70.55	42.43	95.50	0.000	0.000	0.000
BASE	3303	CIM9 Max	91.99	65.91	98.43	0.000	0.000	0.000
BASE	3303	CIM9 Min	87.12	21.13	95.88	0.000	0.000	0.000
BASE	3303	CIM10 Max	128.17	53.15	113.78	0.000	0.000	0.000
BASE	3303	CIM10 Min	74.09	50.05	109.07	0.000	0.000	0.000
BASE	3303	CIM11 Max	104.60	83.47	113.24	0.000	0.000	0.000
BASE	3303	CIM11 Min	97.66	19.73	109.61	0.000	0.000	0.000
BASE	3288	CIM1	-67.00	29.99	77.66	0.000	0.000	0.000
BASE	3288	CIM2 Max	-20.19	30.93	55.32	0.000	0.000	0.000
BASE	3288	CIM2 Min	-58.05	30.16	52.59	0.000	0.000	0.000
BASE	3288	CIM3 Max	-36.30	52.76	55.11	0.000	0.000	0.000
BASE	3288	CIM3 Min	-41.95	8.33	52.79	0.000	0.000	0.000
BASE	3288	CIM4 Max	-46.19	30.41	72.73	0.000	0.000	0.000
BASE	3288	CIM4 Min	-73.86	29.84	70.74	0.000	0.000	0.000
BASE	3288	CIM5 Max	-57.96	46.36	72.58	0.000	0.000	0.000
BASE	3288	CIM5 Min	-62.09	13.89	70.89	0.000	0.000	0.000
BASE	3288	CIM6 Max	-4.54	18.72	33.73	0.000	0.000	0.000
BASE	3288	CIM6 Min	-42.41	17.94	31.01	0.000	0.000	0.000
BASE	3288	CIM7 Max	-20.65	40.54	33.53	0.000	0.000	0.000
BASE	3288	CIM7 Min	-26.30	-3.89	31.21	0.000	0.000	0.000
BASE	3288	CIM8 Max	-48.06	30.37	79.02	0.000	0.000	0.000
BASE	3288	CIM8 Min	-85.93	29.60	76.30	0.000	0.000	0.000
BASE	3288	CIM9 Max	-64.17	52.20	78.82	0.000	0.000	0.000
BASE	3288	CIM9 Min	-69.82	7.77	76.50	0.000	0.000	0.000
BASE	3288	CIM10 Max	-47.88	36.65	90.39	0.000	0.000	0.000
BASE	3288	CIM10 Min	-101.76	35.55	86.52	0.000	0.000	0.000
BASE	3288	CIM11 Max	-70.80	67.71	90.10	0.000	0.000	0.000
BASE	3288	CIM11 Min	-78.84	4.48	86.80	0.000	0.000	0.000
BASE	3289	CIM1	9.87	64.82	103.49	0.000	0.000	0.000
BASE	3289	CIM2 Max	25.01	59.47	73.92	0.000	0.000	0.000
BASE	3289	CIM2 Min	-10.61	57.32	73.71	0.000	0.000	0.000
BASE	3289	CIM3 Max	9.38	82.96	74.84	0.000	0.000	0.000
BASE	3289	CIM3 Min	5.02	33.83	72.80	0.000	0.000	0.000
BASE	3289	CIM4 Max	22.22	64.00	96.15	0.000	0.000	0.000
BASE	3289	CIM4 Min	-3.81	62.43	96.00	0.000	0.000	0.000
BASE	3289	CIM5 Max	10.80	81.16	96.82	0.000	0.000	0.000
BASE	3289	CIM5 Min	7.61	45.26	95.33	0.000	0.000	0.000
BASE	3289	CIM6 Max	22.13	36.11	44.40	0.000	0.000	0.000
BASE	3289	CIM6 Min	-13.49	33.96	44.19	0.000	0.000	0.000
BASE	3289	CIM7 Max	6.50	59.60	45.31	0.000	0.000	0.000
BASE	3289	CIM7 Min	2.14	10.47	43.27	0.000	0.000	0.000
BASE	3289	CIM8 Max	27.69	65.90	103.60	0.000	0.000	0.000
BASE	3289	CIM8 Min	-7.94	63.74	103.39	0.000	0.000	0.000
BASE	3289	CIM9 Max	12.06	89.38	104.52	0.000	0.000	0.000
BASE	3289	CIM9 Min	7.69	40.25	102.47	0.000	0.000	0.000
BASE	3289	CIM10 Max	36.66	78.03	118.41	0.000	0.000	0.000

CENTRO CRECER - DATOS DE ENTRADA III

BASE	3289	CIM10 Min	-14.04	74.97	118.11	0.000	0.000	0.000
BASE	3289	CIM11 Max	14.42	111.45	119.71	0.000	0.000	0.000
BASE	3289	CIM11 Min	8.21	41.54	116.81	0.000	0.000	0.000

BASE	3304	CIM1	-31.27	24.49	81.53	0.000	0.000	0.000
BASE	3304	CIM2 Max	-5.76	30.03	59.80	0.000	0.000	0.000
BASE	3304	CIM2 Min	-42.06	25.85	56.94	0.000	0.000	0.000
BASE	3304	CIM3 Max	-22.12	54.43	59.65	0.000	0.000	0.000
BASE	3304	CIM3 Min	-25.70	1.45	57.09	0.000	0.000	0.000
BASE	3304	CIM4 Max	-16.16	26.88	76.79	0.000	0.000	0.000
BASE	3304	CIM4 Min	-42.69	23.83	74.70	0.000	0.000	0.000
BASE	3304	CIM5 Max	-28.12	44.71	76.68	0.000	0.000	0.000
BASE	3304	CIM5 Min	-30.73	5.99	74.81	0.000	0.000	0.000
BASE	3304	CIM6 Max	3.80	18.85	36.45	0.000	0.000	0.000
BASE	3304	CIM6 Min	-32.50	14.67	33.59	0.000	0.000	0.000
BASE	3304	CIM7 Max	-12.56	43.25	36.30	0.000	0.000	0.000
BASE	3304	CIM7 Min	-16.13	-9.73	33.74	0.000	0.000	0.000
BASE	3304	CIM8 Max	-13.12	26.58	82.96	0.000	0.000	0.000
BASE	3304	CIM8 Min	-49.42	22.40	80.10	0.000	0.000	0.000
BASE	3304	CIM9 Max	-29.48	50.98	82.81	0.000	0.000	0.000
BASE	3304	CIM9 Min	-33.05	-2.00	80.26	0.000	0.000	0.000
BASE	3304	CIM10 Max	-10.22	33.05	95.24	0.000	0.000	0.000
BASE	3304	CIM10 Min	-61.88	27.11	91.17	0.000	0.000	0.000
BASE	3304	CIM11 Max	-33.50	67.78	95.03	0.000	0.000	0.000
BASE	3304	CIM11 Min	-38.59	-7.62	91.39	0.000	0.000	0.000

Summation	0, 0, Base	CIM1	-394.14	-379.20	4113.69	53627.055	-117988.345	-8434.114
Summation	0, 0, Base	CIM2 MAX	1710.72	437.03	3290.29	42182.580	-90436.152	-6529.089
Summation	0, 0, Base	CIM2 MIN	-2269.86	-1096.31	3026.09	40175.995	-91207.529	-14647.507
Summation	0, 0, Base	CIM3 MAX	49.30	3771.58	3238.16	39299.482	-91941.725	177863.441
Summation	0, 0, Base	CIM3 MIN	-608.44	-4430.85	3078.22	43059.092	-89701.956	-199040.036
Summation	0, 0, Base	CIM4 MAX	1088.95	193.45	3971.35	51248.288	-110914.870	-6006.315
Summation	0, 0, Base	CIM4 MIN	-1819.94	-927.07	3778.28	49781.937	-111478.568	-11939.005
Summation	0, 0, Base	CIM5 MAX	-125.17	2630.23	3933.25	49141.409	-112015.096	128742.072
Summation	0, 0, Base	CIM5 MIN	-605.82	-3363.85	3816.37	51888.816	-110378.342	-146687.392
Summation	0, 0, Base	CIM6 MAX	1822.55	568.89	2027.02	25710.865	-54107.416	-2293.770
Summation	0, 0, Base	CIM6 MIN	-2158.04	-964.45	1762.81	23704.280	-54878.793	-10412.188
Summation	0, 0, Base	CIM7 MAX	161.13	3903.43	1974.89	22827.767	-55612.989	182098.760
Summation	0, 0, Base	CIM7 MIN	-496.61	-4299.00	1814.94	26587.377	-53373.219	-194804.717
Summation	0, 0, Base	CIM8 MAX	1596.15	387.47	4245.79	54630.347	-117602.657	-4374.905
Summation	0, 0, Base	CIM8 MIN	-2384.43	-1145.87	3981.58	52623.762	-118374.034	-12493.323
Summation	0, 0, Base	CIM9 MAX	-65.27	3722.01	4193.66	51747.249	-119108.230	180017.625
Summation	0, 0, Base	CIM9 MIN	-723.01	-4480.42	4033.71	55506.860	-116868.461	-196885.852
Summation	0, 0, Base	CIM10 MAX	2382.29	645.90	4933.32	63290.674	-135603.849	-4775.207
Summation	0, 0, Base	CIM10 MIN	-3282.39	-1536.16	4557.33	60435.150	-136701.578	-16328.340
Summation	0, 0, Base	CIM11 MAX	17.95	5391.21	4859.13	59187.805	-137746.395	257629.547
Summation	0, 0, Base	CIM11 MIN	-918.06	-6281.48	4631.52	64538.019	-134559.031	-278733.093

CAPITULO 12
DISEÑO ESTRUCTURAL

CENTRO CRECER BLOQUE 1

CENTRO CRECER BLOQUE 1**Columna C-1**

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.55	3.85	.60	.40	28	0.08	7.63	-58.45	12/#6 #5 (1.2%)	22.54	34.76	.60	.81
					-0.89	-9.20		12/#6 #5 (1.2%)	34.76	22.54		

Columna C-4

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.55	3.85	.60	Circ	28	1.36	16.13	-35.06	10/#6 (1.0%)	20.89	4.02	.56	.21
					-2.49	-13.83		10/#6 (1.0%)	4.02	20.89		

Columna C-2

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.55	3.85	.60	.40	28	-0.99	-17.43	-32.81	12/#6 #5 (1.2%)	20.05	31.32	.53	1.67
					1.80	14.00		12/#6 #5 (1.2%)	31.32	20.05		

CENTRO CRECER BLOQUE 1**Columna C-3**

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.55	3.85	.60	Circ	28	-8.51	0.06	-56.92	10/#6 (1.0%)	21.85	4.02	1.16	.08
					9.16	1.79		10/#6 (1.0%)	4.02	21.85		

**CENTRO CRECER BLOQUE 2
EJES 1 A 3**

I.E JUAN LOZANO LOZANO - COMEDOR**Columna C-5**

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.15	3.45	.60	.40	28	0.69	-9.54	-24.56	12/#6 #5 (1.2%)	19.01	29.83	1.01	1.59
					-5.55	0.36		12/#6 #5 (1.2%)	29.83	19.01		

Columna C-6

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.15	3.45	.60	.40	28	-0.82	-14.51	-38.51	12/#6 #5 (1.2%)	20.40	31.82	.54	1.69
					1.77	11.92		12/#6 #5 (1.2%)	31.82	20.40		

**CENTRO CRECER BLOQUE 2
EJES 4 A 6 Y 7 A 9**

CENTRO CRECER BLOQUE 2 EJES 4-6**Columna C-7**

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.15	3.45	.65	.40	28	2.18	-13.51	-31.15	12/#6 #5 (1.1%)	19.40	33.30	1.03	1.77
					-0.26	11.70		12/#6 #5 (1.1%)	33.30	19.40		

Columna C-8

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.15	3.45	.65	.40	28	0.00	-21.37	-55.46	12/#6 #5 (1.1%)	20.87	35.60	.56	1.90
					1.86	15.41		12/#6 #5 (1.1%)	35.60	20.87		

Columna C-5

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.15	3.45	.60	.40	28	-2.57	12.28	-25.34	12/#6 #5 (1.2%)	19.02	29.84	1.01	.79
					0.57	-13.38		12/#6 #5 (1.2%)	29.84	19.02		

CENTRO CRECER BLOQUE 2 EJES 4-6

Columna C-6

Nivel	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	Col/vig 2-2
NE+4.15	3.45	.60	.40	28	1.15	15.80	-46.00	12/#6 #5 (1.2%)	20.66	32.19	.55	.75
					-1.77	-15.17		12/#6 #5 (1.2%)	32.19	20.66		

CENTRO CRECER BLOQUE 3

CENTRO CRECER BLOQUE 3**Columna C-12**

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+8.45	3.60	.60	.40	28	10.61	8.67	-35.24	20/#7 #5 (2.4%)	32.92	51.83	.88	1.20
					-13.97	-9.76		20/#7 #5 (2.4%)				
NE+4.25	3.55	.60	.40	28	9.67	6.99	-89.41	20/#7 #5 (2.4%)	66.24	104.26	1.48	1.76
					-14.84	-10.27		20/#7 #5 (2.4%)	52.43	33.32		

Columna C-13

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+8.45	3.60	.60	.40	28	9.63	2.69	-22.38	16/#7 #6 (2.2%)	29.78	48.57	.79	1.29
					-12.90	-2.17		16/#7 #6 (2.2%)				
NE+4.25	3.55	.60	.40	28	8.88	3.22	-66.80	16/#7 #6 (2.2%)	59.03	96.22	1.32	2.15
					-13.53	-8.00		16/#7 #6 (2.2%)	47.66	29.25		

Columna C-9

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+4.25	3.55	.60	.40	28	-13.35	-1.84	-31.78	12/#6 #5 (1.2%)	17.95	28.32	.96	.66
					15.81	11.81		12/#6 #5 (1.2%)	28.32	17.95		

CENTRO CRECER BLOQUE 3**Columna C-10**

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+8.45	3.60	.45	.40	28	2.34	9.76	-16.31	12/#8 (3.4%)	33.61	35.32	.89	1.88
					-9.16	-5.66		12/#8 (3.4%)				
NE+4.25	3.55	.60	.40	28	11.02	4.82	-81.64	16/#7 (2.6%)	69.63	94.51	1.35	1.71
					-17.56	-12.32		16/#7 (2.6%)				

Columna C-11

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+8.45	3.60	.45	.40	28	10.58	8.38	-15.77	8/#7 #6 (1.5%)	16.12	18.49	.86	.66
					-13.24	-7.55		8/#7 #6 (1.5%)				
NE+4.25	3.55	.60	.40	28	11.50	7.86	-44.83	16/#7 (2.6%)	49.94	74.13	2.23	1.21
					-13.27	-27.74		16/#7 (2.6%)				

Columna C-14

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+8.45	3.60	.60	.40	28	-8.95	-8.97	-17.45	12/#6 #7 (1.7%)	22.60	35.32	.60	.94
					10.68	10.78		12/#6 #7 (1.7%)				

CENTRO CRECER BLOQUE 3

Columna C-14

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+4.25	.50	.60	Circ	28	-4.96 -2.92	-9.18 -5.21	-45.03	26/#6 (2.6%) 26/#6 (2.6%)	58.12	54.24	1.30	1.21
NE+3.15	3.05	.60	Circ	28	-3.60 18.66	-4.10 15.47	-45.77	26/#6 (2.6%) 26/#6 (2.6%)	71.29 18.92	37.85 35.77		

CENTRO CRECER**V-101/NE+0.10**

B=0.20 H=0.60 L=1.40			B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85		
Mu=-0.00	Mu=-0.00	Mu=-0.00	Mu=-0.87	Mu=-0.87	Mu=-0.87	Mu=-0.91	Mu=-0.91	Mu=-0.91
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Mu=0.00	Mu=0.85	Mu=0.00	Mu=0.87	Mu=4.35	Mu=0.87	Mu=0.91	Mu=4.56	Mu=0.91
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=-1.51	Vu=0.00	Vu=1.51	Vu=-3.53	Vu=-1.04	Vu=3.52	Vu=-3.55	Vu=-0.72	Vu=3.64
T=-0.06			T=0.52			T=0.47		

B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85		
Mu=-0.90	Mu=-0.90	Mu=-0.90	Mu=-0.87	Mu=-0.87	Mu=-0.87	Mu=-1.00	Mu=-1.00	Mu=-1.00
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Mu=0.90	Mu=4.51	Mu=0.90	Mu=0.87	Mu=4.34	Mu=0.87	Mu=1.00	Mu=5.00	Mu=1.00
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=-3.59	Vu=-0.73	Vu=3.52	Vu=-3.48	Vu=-0.85	Vu=3.75	Vu=-3.78	Vu=-1.36	Vu=4.48
T=0.46			T=0.46			T=0.41		

B=0.20 H=0.60 L=1.80		
Mu=-0.00	Mu=-0.00	Mu=-0.00
As=363.00	As=363.00	As=363.00
Mu=0.00	Mu=0.08	Mu=0.00
As=363.00	As=363.00	As=363.00
Vu=-0.34	Vu=0.00	Vu=0.34
T=-0.26		

V-102/NE+0.10

B=0.40 H=0.60 L=1.80			B=0.40 H=0.60 L=3.40			B=0.40 H=0.60 L=0.15		
Mu=-0.00	Mu=-5.41	Mu=-13.79	Mu=-25.12	Mu=-5.02	Mu=-11.93	Mu=-25.12	Mu=-5.02	Mu=-11.93
As=726.00	As=726.00	As=726.00	As=1273.35	As=726.00	As=726.00	As=1273.35	As=726.00	As=726.00
Mu=0.19	Mu=0.00	Mu=2.76	Mu=8.37	Mu=5.02	Mu=15.62	Mu=8.37	Mu=5.02	Mu=15.62
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=775.44	As=726.00	As=726.00	As=775.44
Vu=5.96	Vu=7.03	Vu=9.21	Vu=-23.58	Vu=-16.31	Vu=14.94	Vu=-23.58	Vu=-16.31	Vu=14.94
T=-3.26			T=-1.10			T=-1.10		

V-103/NE+0.10**CENTRO CRECER**

B=0.40 H=0.60 L=1.40			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-0.24	Mu=-7.97	Mu=-16.78	Mu=-23.14	Mu=-4.63	Mu=-20.90	Mu=-20.46	Mu=-4.33	Mu=-21.63
As=726.00	As=726.00	As=834.88	As=1167.67	As=726.00	As=1049.20	As=1026.27	As=726.00	As=1088.03
Mu=0.00	Mu=0.00	Mu=3.36	Mu=7.71	Mu=8.99	Mu=6.97	Mu=6.82	Mu=10.71	Mu=7.21
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=8.07	Vu=9.19	Vu=10.31	Vu=-18.30	Vu=2.85	Vu=16.76	Vu=-17.27	Vu=1.84	Vu=17.66
T=-3.93			T=0.51			T=0.27		

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.75			B=0.40 H=0.60 L=5.75		
Mu=-22.22	Mu=-4.44	Mu=-21.04	Mu=-21.77	Mu=-4.70	Mu=-23.51	Mu=-26.12	Mu=-5.22	Mu=-14.00
As=1119.06	As=726.00	As=1056.77	As=1095.25	As=726.00	As=1187.54	As=1327.11	As=726.00	As=726.00
Mu=7.41	Mu=10.42	Mu=7.01	Mu=7.26	Mu=9.95	Mu=7.84	Mu=8.71	Mu=11.78	Mu=5.22
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-17.85	Vu=-2.02	Vu=17.42	Vu=-17.91	Vu=-2.41	Vu=18.73	Vu=-20.60	Vu=-4.60	Vu=15.69
T=-0.31			T=0.10			T=-1.22		

B=0.40 H=0.60 L=1.37		
Mu=-2.76	Mu=-1.32	Mu=-0.03
As=726.00	As=726.00	As=726.00
Mu=0.55	Mu=0.00	Mu=0.02
As=726.00	As=726.00	As=726.00
Vu=-4.62	Vu=-4.26	Vu=-3.91
T=1.98		

V-104/NE+0.10

B=0.15 H=0.60 L=1.80			B=0.15 H=0.60 L=3.80		
Mu=-0.97	Mu=-0.90	Mu=-4.49	Mu=-7.20	Mu=-1.44	Mu=-4.52
As=272.25	As=272.25	As=272.25	As=360.04	As=272.25	As=272.25
Mu=0.90	Mu=1.12	Mu=1.50	Mu=2.40	Mu=6.30	Mu=1.51
As=272.25	As=272.25	As=272.25	As=272.25	As=313.39	As=272.25
Vu=-2.45	Vu=-1.73	Vu=5.99	Vu=-9.78	Vu=-3.87	Vu=8.53
T=-0.26			T=0.07		

V-105/NE+0.10**CENTRO CRECER**

B=0.40 H=0.60 L=1.80			B=0.40 H=0.60 L=3.40			B=0.40 H=0.60 L=0.15		
Mu=-0.00	Mu=-13.53	Mu=-29.78	Mu=-30.13	Mu=-6.03	Mu=-11.27	Mu=-30.13	Mu=-6.03	Mu=-11.27
As=726.00	As=821.54	As=1525.79	As=1545.15	As=726.00	As=726.00	As=1545.15	As=726.00	As=726.00
Mu=0.94	Mu=0.00	Mu=5.96	Mu=10.04	Mu=6.03	Mu=16.06	Mu=10.04	Mu=6.03	Mu=16.06
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=797.87	As=726.00	As=726.00	As=797.87
Vu=13.76	Vu=15.18	Vu=17.15	Vu=-24.35	Vu=-18.18	Vu=14.74	Vu=-24.35	Vu=-18.18	Vu=14.74
T=-1.29			T=0.50			T=0.50		

V-106/NE+0.10

B=0.40 H=0.60 L=1.40			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=1.30		
Mu=-0.00	Mu=-18.10	Mu=-39.35	Mu=-39.32	Mu=-7.86	Mu=-29.91	Mu=-29.30	Mu=-10.07	Mu=-5.86
As=726.00	As=1115.41	As=2063.75	As=2061.84	As=726.00	As=1532.97	As=1499.24	As=726.00	As=726.00
Mu=0.59	Mu=0.00	Mu=7.87	Mu=13.11	Mu=15.53	Mu=9.97	Mu=9.77	Mu=5.86	Mu=8.67
As=726.00	As=726.00	As=726.00	As=726.00	As=770.62	As=726.00	As=726.00	As=726.00	As=726.00
Vu=19.91	Vu=22.19	Vu=24.47	Vu=-28.43	Vu=-3.21	Vu=24.22	Vu=-24.94	Vu=-23.06	Vu=-17.39
T=2.09			T=-0.38			T=6.92		

B=0.40 H=0.60 L=4.25			B=0.40 H=0.60 L=5.75			B=0.40 H=0.60 L=5.75		
Mu=-4.95	Mu=-4.95	Mu=-24.77	Mu=-23.56	Mu=-4.91	Mu=-24.57	Mu=-28.72	Mu=-7.20	Mu=-36.02
As=726.00	As=726.00	As=1254.78	As=1190.20	As=726.00	As=1244.09	As=1467.85	As=726.00	As=1873.37
Mu=9.06	Mu=10.69	Mu=8.26	Mu=7.85	Mu=9.31	Mu=8.19	Mu=9.57	Mu=18.43	Mu=12.01
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=920.67	As=726.00
Vu=-9.18	Vu=11.11	Vu=19.55	Vu=-17.99	Vu=2.89	Vu=17.94	Vu=-24.99	Vu=2.58	Vu=27.88
T=-5.62			T=1.69			T=0.73		

B=0.40 H=0.60 L=5.65		
Mu=-38.64	Mu=-7.73	Mu=-26.56
As=2022.90	As=726.00	As=1350.44
Mu=12.88	Mu=19.29	Mu=8.85
As=726.00	As=1001.66	As=726.00
Vu=-29.97	Vu=-5.74	Vu=25.40
T=0.21		

V-107/NE+0.10

CENTRO CRECER

B=0.35 H=0.60 L=1.63			B=0.35 H=0.60 L=2.22			B=0.40 H=0.60 L=1.40		
Mu=-0.00	Mu=-0.00	Mu=-16.95	Mu=-1.66	Mu=-1.66	Mu=-1.66	Mu=-3.39	Mu=-5.85	Mu=-16.95
As=635.25	As=635.25	As=848.38	As=635.25	As=635.25	As=635.25	As=726.00	As=726.00	As=843.96
Mu=1.01	Mu=8.28	Mu=3.39	Mu=2.74	Mu=7.10	Mu=8.28	Mu=8.28	Mu=3.94	Mu=5.65
As=635.25	As=635.25	As=635.25	As=635.25	As=635.25	As=635.25	As=726.00	As=726.00	As=726.00
Vu=-5.52	Vu=-1.53	Vu=15.18	Vu=-5.52	Vu=-4.60	Vu=2.37	Vu=2.37	Vu=13.75	Vu=15.18
T=-4.66			T=-4.66			T=-4.66		

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-21.33	Mu=-7.90	Mu=-39.49	Mu=-44.55	Mu=-8.91	Mu=-8.91	Mu=-8.59	Mu=-8.59	Mu=-42.93
As=1071.91	As=726.00	As=2071.70	As=2367.64	As=726.00	As=726.00	As=726.00	As=726.00	As=2271.72
Mu=7.90	Mu=11.75	Mu=13.16	Mu=14.85	Mu=12.86	Mu=26.30	Mu=25.84	Mu=12.25	Mu=14.31
As=726.00	As=726.00	As=726.00	As=735.99	As=726.00	As=1336.85	As=1312.15	As=844.39	As=726.00
Vu=-18.74	Vu=4.20	Vu=25.10	Vu=-25.27	Vu=-10.66	Vu=-3.90	Vu=3.27	Vu=10.77	Vu=21.21
T=0.36			T=-5.14			T=2.50		

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-36.37	Mu=-7.27	Mu=-24.17	Mu=-23.42	Mu=-4.68	Mu=-20.49	Mu=-18.29	Mu=-3.66	Mu=-9.42
As=1893.08	As=726.00	As=1222.25	As=1182.70	As=726.00	As=1027.74	As=913.14	As=726.00	As=726.00
Mu=12.12	Mu=11.34	Mu=11.34	Mu=7.81	Mu=13.29	Mu=6.83	Mu=6.10	Mu=5.67	Mu=3.66
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-24.23	Vu=-3.73	Vu=19.76	Vu=-19.61	Vu=-2.63	Vu=18.48	Vu=-14.66	Vu=-1.92	Vu=8.91
T=-0.44			T=0.49			T=-2.94		

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=1.80		
Mu=-9.40	Mu=-4.00	Mu=-20.00	Mu=-16.59	Mu=-3.32	Mu=-3.32	Mu=-5.20	Mu=-5.20	Mu=-26.01
As=726.00	As=726.00	As=1002.40	As=825.09	As=726.00	As=726.00	As=726.00	As=726.00	As=1320.86
Mu=4.00	Mu=4.91	Mu=6.67	Mu=5.53	Mu=5.24	Mu=13.51	Mu=13.51	Mu=13.19	Mu=8.67
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-8.62	Vu=1.53	Vu=12.71	Vu=-12.08	Vu=-9.47	Vu=-3.77	Vu=-3.77	Vu=16.43	Vu=21.78
T=0.69			T=-1.17			T=-1.17		

CENTRO CRECER

B=0.40 H=0.60 L=3.40			B=0.35 H=0.60 L=4.30			B=0.50 H=0.60 L=1.60		
Mu=-29.17	Mu=-5.83	Mu=-15.14	Mu=-15.02	Mu=-3.00	Mu=-3.00	Mu=-15.02	Mu=-0.00	Mu=-0.00
As=1492.57	As=726.00	As=750.74	As=747.96	As=635.25	As=635.25	As=907.50	As=907.50	As=907.50
Mu=9.72	Mu=5.83	Mu=8.36	Mu=5.01	Mu=7.96	Mu=3.00	Mu=3.00	Mu=7.96	Mu=1.19
As=726.00	As=726.00	As=726.00	As=635.25	As=635.25	As=635.25	As=907.50	As=907.50	As=907.50
Vu=-24.53	Vu=-15.34	Vu=17.42	Vu=-11.82	Vu=-5.84	Vu=6.57	Vu=-11.82	Vu=-5.84	Vu=6.57
T=0.27			T=2.22			T=2.22		

V-108/NE+0.10

B=0.40 H=0.60 L=5.85		
Mu=-0.00	Mu=-0.00	Mu=-0.00
As=726.00	As=726.00	As=726.00
Mu=0.00	Mu=2.04	Mu=0.00
As=726.00	As=726.00	As=726.00
Vu=-1.42	Vu=-0.67	Vu=2.34
T=-0.21		

V-109/NE+0.10

B=0.40 H=0.60 L=5.85		
Mu=-0.00	Mu=-0.00	Mu=-0.00
As=726.00	As=726.00	As=726.00
Mu=0.00	Mu=1.76	Mu=0.00
As=726.00	As=726.00	As=726.00
Vu=-1.38	Vu=-0.40	Vu=1.36
T=-0.10		

V-110/NE+0.10

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=1.80		
Mu=-0.00	Mu=-0.00	Mu=-0.00	Mu=-0.00	Mu=-0.00	Mu=-0.00
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Mu=0.00	Mu=2.87	Mu=0.00	Mu=0.00	Mu=0.52	Mu=0.00
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-1.36	Vu=-1.07	Vu=2.76	Vu=-1.18	Vu=0.63	Vu=1.20
T=0.00			T=0.07		

V-111/NE+0.10

CENTRO CRECER

B=0.40 H=0.60 L=1.63			B=0.40 H=0.60 L=3.82			B=0.40 H=0.60 L=5.85		
Mu=-13.65	Mu=-3.53	Mu=-3.53	Mu=-5.69	Mu=-5.92	Mu=-28.43	Mu=-26.09	Mu=-5.22	Mu=-18.42
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=1452.16	As=1325.33	As=726.00	As=919.95
Mu=4.55	Mu=16.22	Mu=14.84	Mu=14.84	Mu=5.69	Mu=9.48	Mu=8.70	Mu=11.56	Mu=6.14
As=726.00	As=857.60	As=831.90	As=735.64	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-20.09	Vu=-6.89	Vu=6.72	Vu=6.72	Vu=18.34	Vu=22.01	Vu=-19.41	Vu=-2.49	Vu=16.25
T=-6.70			T=1.46			T=-1.08		

B=0.40 H=0.55 L=5.85			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-8.80	Mu=-1.89	Mu=-9.46	Mu=-15.44	Mu=-4.32	Mu=-21.58	Mu=-21.56	Mu=-4.31	Mu=-17.75
As=660.00	As=660.00	As=660.00	As=766.42	As=726.00	As=1085.02	As=1084.13	As=726.00	As=885.46
Mu=2.93	Mu=2.51	Mu=3.15	Mu=5.15	Mu=10.87	Mu=7.19	Mu=7.19	Mu=10.86	Mu=5.92
As=660.00	As=660.00	As=660.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-6.58	Vu=1.48	Vu=6.48	Vu=-13.82	Vu=1.80	Vu=17.11	Vu=-17.06	Vu=-2.32	Vu=15.68
T=-1.51			T=1.98			T=-0.40		

B=0.40 H=0.55 L=5.85			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-8.95	Mu=-1.92	Mu=-9.62	Mu=-17.64	Mu=-4.29	Mu=-21.46	Mu=-20.88	Mu=-4.63	Mu=-23.13
As=660.00	As=660.00	As=660.00	As=879.56	As=726.00	As=1078.70	As=1048.52	As=726.00	As=1166.98
Mu=2.98	Mu=2.52	Mu=3.21	Mu=5.88	Mu=11.28	Mu=7.15	Mu=6.96	Mu=10.18	Mu=7.71
As=660.00	As=660.00	As=660.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-6.72	Vu=1.36	Vu=6.94	Vu=-15.81	Vu=1.96	Vu=17.14	Vu=-16.82	Vu=-1.92	Vu=17.89
T=-0.18			T=0.45			T=-0.71		

B=0.60 H=0.55 L=5.85			B=0.60 H=0.60 L=1.79			B=0.60 H=0.60 L=3.81		
Mu=-16.94	Mu=-3.39	Mu=-3.39	Mu=-4.62	Mu=-7.06	Mu=-23.12	Mu=-29.47	Mu=-5.89	Mu=-20.90
As=990.00	As=990.00	As=990.00	As=1089.00	As=1089.00	As=1147.37	As=1475.95	As=1089.00	As=1089.00
Mu=5.65	Mu=4.77	Mu=11.23	Mu=11.34	Mu=4.62	Mu=7.71	Mu=9.82	Mu=5.89	Mu=6.97
As=990.00	As=990.00	As=990.00	As=1089.00	As=1089.00	As=1089.00	As=1089.00	As=1089.00	As=1089.00
Vu=-10.55	Vu=-6.95	Vu=2.51	Vu=14.18	Vu=15.51	Vu=18.37	Vu=-24.95	Vu=-15.33	Vu=20.43
T=-0.48			T=3.61			T=0.43		

CENTRO CRECER

B=0.40 H=0.60 L=4.20			B=0.40 H=0.60 L=1.30		
Mu=-30.29	Mu=-6.06	Mu=-6.06	Mu=-3.66	Mu=-3.66	Mu=-18.32
As=1553.78	As=726.00	As=726.00	As=726.00	As=726.00	As=914.86
Mu=10.10	Mu=8.03	Mu=15.18	Mu=15.18	Mu=15.77	Mu=6.11
As=726.00	As=726.00	As=753.00	As=806.89	As=798.49	As=726.00
Vu=-24.58	Vu=-20.51	Vu=-7.54	Vu=-7.54	Vu=9.81	Vu=22.93
T=-1.14			T=-1.14		

V-112/NE+0.10

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-15.50	Mu=-5.02	Mu=-25.12	Mu=-26.89	Mu=-5.38	Mu=-14.52
As=769.44	As=726.00	As=1273.19	As=1368.47	As=726.00	As=726.00
Mu=6.37	Mu=11.27	Mu=8.37	Mu=8.96	Mu=10.42	Mu=6.76
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-16.83	Vu=8.14	Vu=19.93	Vu=-20.24	Vu=-7.48	Vu=15.54
T=0.56			T=-0.54		

V-113/NE+0.10

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-11.12	Mu=-5.13	Mu=-25.64	Mu=-24.00	Mu=-4.80	Mu=-11.65
As=726.00	As=726.00	As=1300.98	As=1213.46	As=726.00	As=726.00
Mu=5.13	Mu=14.26	Mu=8.55	Mu=8.00	Mu=10.76	Mu=4.80
As=726.00	As=753.15	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-14.87	Vu=3.82	Vu=20.23	Vu=-18.20	Vu=-4.00	Vu=13.63
T=-0.43			T=0.82		

V-114/NE+0.10

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-10.62	Mu=-3.72	Mu=-18.61	Mu=-19.39	Mu=-3.88	Mu=-9.72
As=726.00	As=726.00	As=929.92	As=970.64	As=726.00	As=726.00
Mu=3.72	Mu=8.66	Mu=6.20	Mu=6.46	Mu=8.93	Mu=3.88
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-11.84	Vu=3.00	Vu=14.68	Vu=-15.08	Vu=-3.56	Vu=11.53
T=-0.56			T=0.53		

V-115/NE+0.10**CENTRO CRECER**

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-9.88	Mu=-3.84	Mu=-19.19	Mu=-18.81	Mu=-3.76	Mu=-10.60
As=726.00	As=726.00	As=960.00	As=940.37	As=726.00	As=726.00
Mu=3.84	Mu=8.88	Mu=6.40	Mu=6.27	Mu=8.74	Mu=3.76
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-11.56	Vu=3.15	Vu=14.97	Vu=-14.79	Vu=-3.38	Vu=11.80
T=-0.44			T=0.48		

V-116/NE+0.10

B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85		
Mu=-0.65	Mu=-0.00	Mu=-7.59	Mu=-7.65	Mu=-0.00	Mu=-0.78
As=363.00	As=363.00	As=376.34	As=379.47	As=363.00	As=363.00
Mu=1.13	Mu=4.50	Mu=1.52	Mu=1.53	Mu=3.33	Mu=0.96
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=-3.45	Vu=1.39	Vu=5.99	Vu=-5.23	Vu=-1.65	Vu=2.93
T=-0.02			T=0.06		

V-117/NE+0.10

B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85		
Mu=-0.97	Mu=-0.00	Mu=-5.73	Mu=-5.80	Mu=-0.00	Mu=-0.80
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Mu=0.76	Mu=2.78	Mu=1.15	Mu=1.16	Mu=2.85	Mu=0.88
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=-2.68	Vu=1.14	Vu=4.35	Vu=-4.39	Vu=-1.37	Vu=2.64
T=-0.04			T=0.04		

V-118/NE+0.10

B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85		
Mu=-0.88	Mu=-0.00	Mu=-5.69	Mu=-5.66	Mu=-1.13	Mu=-1.13
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Mu=0.81	Mu=2.85	Mu=1.14	Mu=1.89	Mu=2.80	Mu=1.13
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=-2.67	Vu=1.14	Vu=4.35	Vu=-4.33	Vu=-1.31	Vu=2.70
T=-0.02			T=0.03		

V-119/NE+0.10**CENTRO CRECER**

B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85		
Mu=-3.03	Mu=-1.36	Mu=-6.82	Mu=-6.93	Mu=-1.39	Mu=-2.92
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Mu=1.36	Mu=5.10	Mu=2.27	Mu=2.31	Mu=4.87	Mu=1.39
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=-4.98	Vu=1.87	Vu=6.35	Vu=-6.20	Vu=-1.69	Vu=4.68
T=0.27			T=-0.28		

V-120/NE+0.10

B=0.40 H=0.60 L=0.75			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=5.05		
Mu=-0.01	Mu=-2.26	Mu=-5.10	Mu=-28.01	Mu=-5.60	Mu=-5.60	Mu=-5.83	Mu=-5.83	Mu=-29.14
As=726.00	As=726.00	As=726.00	As=1429.31	As=726.00	As=726.00	As=726.00	As=726.00	As=1490.66
Mu=0.02	Mu=0.00	Mu=1.02	Mu=9.34	Mu=12.73	Mu=21.84	Mu=21.84	Mu=11.43	Mu=9.71
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=1098.94	As=1098.94	As=726.00	As=726.00
Vu=3.45	Vu=4.05	Vu=5.03	Vu=-21.51	Vu=-12.82	Vu=-1.93	Vu=-1.93	Vu=13.66	Vu=22.07
T=1.13			T=0.33			T=0.33		

V-121/NE+0.10

B=0.40 H=0.60 L=5.10		
Mu=-8.11	Mu=-1.62	Mu=-4.66
As=726.00	As=726.00	As=726.00
Mu=2.70	Mu=6.57	Mu=1.62
As=726.00	As=726.00	As=726.00
Vu=8.93	Vu=-1.50	Vu=-7.16
T=-1.01		

V-122/NE+0.10

B=0.20 H=0.60 L=6.90			B=0.20 H=0.60 L=7.65			B=0.20 H=0.60 L=0.45		
Mu=-7.11	Mu=-2.87	Mu=-14.35	Mu=-15.57	Mu=-3.11	Mu=-3.11	Mu=-2.24	Mu=-2.24	Mu=-3.93
As=363.00	As=363.00	As=733.27	As=800.24	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Mu=2.87	Mu=6.77	Mu=4.78	Mu=5.19	Mu=3.96	Mu=10.72	Mu=10.72	Mu=8.98	Mu=2.24
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=538.88	As=558.46	As=491.69	As=363.00
Vu=-7.44	Vu=0.31	Vu=9.31	Vu=-10.60	Vu=-6.95	Vu=-1.34	Vu=-1.34	Vu=4.58	Vu=8.07
T=-0.37			T=0.24			T=0.24		

V-123/NE+0.10

CENTRO CRECER

B=0.40 H=0.60 L=0.75			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=4.85		
Mu=-0.06	Mu=-6.98	Mu=-14.76	Mu=-43.61	Mu=-8.72	Mu=-8.72	Mu=-10.17	Mu=-50.85	Mu=-16.84
As=726.00	As=726.00	As=731.36	As=2312.21	As=726.00	As=726.00	As=1649.27	As=2748.78	As=1649.27
Mu=0.00	Mu=0.00	Mu=2.95	Mu=14.54	Mu=18.07	Mu=32.01	Mu=32.01	Mu=10.17	Mu=10.17
As=726.00	As=726.00	As=726.00	As=726.00	As=1069.54	As=1648.92	As=1648.92	As=989.35	As=989.35
Vu=11.17	Vu=11.91	Vu=13.33	Vu=-33.15	Vu=-19.09	Vu=1.60	Vu=9.38	Vu=35.95	Vu=12.61
T=-0.82			T=-0.12			T=0.62		

B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45			B=0.40 H=0.60 L=0.25		
Mu=-30.62	Mu=-6.12	Mu=-6.12	Mu=-8.66	Mu=-8.66	Mu=-43.28	Mu=-51.60	Mu=-10.32	Mu=-27.56
As=1571.87	As=726.00	As=726.00	As=726.00	As=726.00	As=2292.33	As=2795.36	As=726.00	As=1404.73
Mu=10.21	Mu=11.37	Mu=21.00	Mu=21.00	Mu=8.66	Mu=14.43	Mu=17.20	Mu=27.92	Mu=10.32
As=726.00	As=726.00	As=1054.98	As=1054.98	As=726.00	As=726.00	As=856.76	As=1424.43	As=854.66
Vu=-24.63	Vu=-14.75	Vu=-3.93	Vu=-3.93	Vu=18.25	Vu=28.58	Vu=-32.84	Vu=-2.79	Vu=26.34
T=-0.64			T=-0.64			T=0.42		

V-124/NE+0.10

B=0.40 H=0.60 L=0.75			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=2.35		
Mu=-0.00	Mu=-1.85	Mu=-4.26	Mu=-23.17	Mu=-6.13	Mu=-30.64	Mu=-19.88	Mu=-3.98	Mu=-3.98
As=726.00	As=726.00	As=726.00	As=1169.26	As=726.00	As=1573.19	As=996.07	As=726.00	As=726.00
Mu=0.06	Mu=0.00	Mu=0.85	Mu=7.72	Mu=16.04	Mu=10.21	Mu=6.63	Mu=3.98	Mu=10.94
As=726.00	As=726.00	As=726.00	As=726.00	As=797.05	As=726.00	As=726.00	As=726.00	As=726.00
Vu=2.93	Vu=3.47	Vu=4.32	Vu=-18.05	Vu=2.61	Vu=20.04	Vu=-15.40	Vu=-13.78	Vu=-8.44
T=-0.96			T=0.54			T=6.89		

B=0.40 H=0.60 L=2.10			B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45		
Mu=-4.39	Mu=-4.39	Mu=-21.97	Mu=-31.02	Mu=-6.20	Mu=-6.20	Mu=-8.96	Mu=-8.96	Mu=-44.79
As=726.00	As=726.00	As=1105.80	As=1594.02	As=726.00	As=726.00	As=726.00	As=726.00	As=2381.90
Mu=15.06	Mu=4.39	Mu=7.32	Mu=10.34	Mu=11.76	Mu=19.15	Mu=18.69	Mu=8.96	Mu=14.93
As=746.75	As=726.00	As=726.00	As=726.00	As=726.00	As=981.39	As=934.04	As=726.00	As=740.09
Vu=10.86	Vu=12.61	Vu=16.76	Vu=-23.69	Vu=-14.62	Vu=5.99	Vu=5.23	Vu=18.24	Vu=28.58
T=-2.84			T=-1.09			T=-1.09		

CENTRO CRECER

B=0.40 H=0.60 L=0.25		
Mu=-67.40	Mu=-13.48	Mu=-39.40
As=3830.25	As=726.00	As=2066.23
Mu=22.47	Mu=37.17	Mu=13.48
As=1163.20	As=1938.67	As=1163.20
Vu=-44.35	Vu=1.88	Vu=35.76
T=0.05		

V-125/NE+0.10

B=0.20 H=0.60 L=6.85		
Mu=-3.98	Mu=-2.51	Mu=-12.54
As=363.00	As=363.00	As=635.42
Mu=2.51	Mu=8.38	Mu=4.18
As=363.00	As=420.17	As=363.00
Vu=-6.72	Vu=0.77	Vu=9.24
T=-0.44		

V-126/NE+0.10

B=0.40 H=0.60 L=7.45			B=0.40 H=0.60 L=0.25		
Mu=-47.51	Mu=-9.50	Mu=-9.50	Mu=-8.50	Mu=-8.50	Mu=-42.52
As=2545.13	As=726.00	As=726.00	As=726.00	As=726.00	As=2248.05
Mu=15.84	Mu=22.33	Mu=39.66	Mu=39.66	Mu=21.90	Mu=14.17
As=786.59	As=1323.77	As=2081.17	As=2081.17	As=1358.16	As=726.00
Vu=-37.69	Vu=-23.71	Vu=3.72	Vu=3.72	Vu=25.50	Vu=37.27
T=0.28			T=0.28		

V-127/NE+0.10

B=0.40 H=0.60 L=0.80			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=2.35		
Mu=-0.00	Mu=-1.63	Mu=-3.70	Mu=-17.06	Mu=-7.47	Mu=-37.36	Mu=-45.35	Mu=-12.78	Mu=-9.07
As=726.00	As=726.00	As=726.00	As=849.43	As=726.00	As=1949.44	As=2415.43	As=944.27	As=726.00
Mu=0.04	Mu=0.00	Mu=0.74	Mu=7.47	Mu=11.48	Mu=12.45	Mu=15.12	Mu=9.07	Mu=10.00
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=749.69	As=726.00	As=726.00
Vu=2.68	Vu=3.19	Vu=3.90	Vu=-14.17	Vu=4.05	Vu=20.01	Vu=-26.17	Vu=-24.29	Vu=-16.38
T=-0.97			T=-0.33			T=-1.76		

CENTRO CRECER

B=0.40 H=0.60 L=2.20		
Mu=-0.00	Mu=-0.00	Mu=-0.00
As=726.00	As=726.00	As=726.00
Mu=5.66	Mu=10.61	Mu=3.89
As=726.00	As=726.00	As=726.00
Vu=-4.90	Vu=-3.15	Vu=5.88
T=0.49		

V-128/NE+0.10

B=0.40 H=0.60 L=0.80			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=4.80		
Mu=-0.06	Mu=-5.32	Mu=-11.24	Mu=-34.48	Mu=-6.90	Mu=-6.90	Mu=-8.30	Mu=-8.30	Mu=-41.48
As=726.00	As=726.00	As=726.00	As=1786.72	As=726.00	As=726.00	As=726.00	As=726.00	As=2187.26
Mu=0.00	Mu=0.00	Mu=2.25	Mu=11.49	Mu=13.42	Mu=22.62	Mu=22.62	Mu=9.46	Mu=13.83
As=726.00	As=726.00	As=726.00	As=726.00	As=764.72	As=1140.27	As=1140.27	As=726.00	As=726.00
Vu=8.46	Vu=9.09	Vu=10.18	Vu=-25.90	Vu=-14.86	Vu=1.83	Vu=1.83	Vu=17.28	Vu=28.41
T=-0.90			T=0.07			T=0.07		

B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45			B=0.40 H=0.60 L=0.25		
Mu=-18.86	Mu=-4.49	Mu=-3.77	Mu=-2.81	Mu=-3.40	Mu=-14.05	Mu=-60.63	Mu=-12.13	Mu=-39.41
As=942.61	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=3372.73	As=726.00	As=2066.98
Mu=6.29	Mu=3.77	Mu=5.77	Mu=5.77	Mu=2.81	Mu=4.68	Mu=20.21	Mu=36.68	Mu=13.14
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=1146.48	As=1910.79	As=1146.48
Vu=-14.38	Vu=-11.15	Vu=4.53	Vu=4.53	Vu=9.25	Vu=11.51	Vu=-41.53	Vu=-8.76	Vu=35.39
T=-1.48			T=-1.48			T=-0.38		

V-129/NE+0.10

B=0.40 H=0.60 L=0.80			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=2.35		
Mu=-0.01	Mu=-1.61	Mu=-3.65	Mu=-21.32	Mu=-5.27	Mu=-26.37	Mu=-16.82	Mu=-3.36	Mu=-3.36
As=726.00	As=726.00	As=726.00	As=1071.33	As=726.00	As=1340.46	As=837.05	As=726.00	As=726.00
Mu=0.04	Mu=0.00	Mu=0.73	Mu=7.11	Mu=12.81	Mu=8.79	Mu=5.61	Mu=3.36	Mu=10.38
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=2.64	Vu=3.15	Vu=3.86	Vu=-15.89	Vu=2.37	Vu=17.15	Vu=-14.40	Vu=-12.77	Vu=-7.37
T=-0.88			T=0.48			T=3.94		

CENTRO CRECER

B=0.40 H=0.60 L=2.10			B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45		
Mu=-4.93	Mu=-4.93	Mu=-24.64	Mu=-44.85	Mu=-8.97	Mu=-8.97	Mu=-11.96	Mu=-11.96	Mu=-59.80
As=726.00	As=726.00	As=1247.77	As=2385.41	As=726.00	As=726.00	As=726.00	As=726.00	As=3317.64
Mu=10.47	Mu=4.93	Mu=8.21	Mu=14.95	Mu=13.83	Mu=28.51	Mu=28.51	Mu=11.96	Mu=19.93
As=726.00	As=726.00	As=726.00	As=741.09	As=824.47	As=1456.40	As=1456.40	As=726.00	As=998.74
Vu=9.24	Vu=10.98	Vu=17.73	Vu=-34.23	Vu=-20.24	Vu=-5.66	Vu=-5.66	Vu=24.40	Vu=39.71
T=-2.63			T=-0.28			T=-0.28		

B=0.40 H=0.60 L=0.25		
Mu=-68.99	Mu=-13.80	Mu=-38.37
As=3941.22	As=726.00	As=2007.35
Mu=23.00	Mu=36.63	Mu=13.80
As=1160.05	As=1907.90	As=1144.74
Vu=-44.78	Vu=-1.95	Vu=35.19
T=0.07		

V-130/NE+0.10

B=0.40 H=0.60 L=0.80			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=2.35		
Mu=-0.01	Mu=-1.64	Mu=-3.71	Mu=-20.94	Mu=-5.39	Mu=-26.97	Mu=-17.67	Mu=-3.53	Mu=-3.53
As=726.00	As=726.00	As=726.00	As=1051.72	As=726.00	As=1373.06	As=880.80	As=726.00	As=726.00
Mu=0.02	Mu=0.00	Mu=0.74	Mu=6.98	Mu=12.73	Mu=8.99	Mu=5.89	Mu=3.53	Mu=11.54
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=2.67	Vu=3.18	Vu=3.90	Vu=-15.74	Vu=2.43	Vu=17.34	Vu=-15.05	Vu=-13.43	Vu=-8.07
T=-0.88			T=-0.42			T=-3.99		

B=0.40 H=0.60 L=2.10			B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45		
Mu=-3.93	Mu=-3.93	Mu=-19.66	Mu=-30.18	Mu=-6.04	Mu=-6.04	Mu=-7.23	Mu=-7.23	Mu=-36.16
As=726.00	As=726.00	As=984.26	As=1547.79	As=726.00	As=726.00	As=726.00	As=726.00	As=1881.07
Mu=11.43	Mu=3.93	Mu=6.55	Mu=10.06	Mu=8.58	Mu=17.07	Mu=17.07	Mu=7.23	Mu=12.05
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=850.10	As=850.10	As=726.00	As=726.00
Vu=7.91	Vu=9.66	Vu=15.73	Vu=-22.29	Vu=-13.93	Vu=-4.38	Vu=-4.38	Vu=15.59	Vu=24.59
T=2.07			T=-0.71			T=-0.71		

CENTRO CRECER

B=0.40 H=0.60 L=0.25		
Mu=-42.98	Mu=-8.60	Mu=-26.92
As=2275.08	As=726.00	As=1369.93
Mu=14.33	Mu=22.98	Mu=8.97
As=726.00	As=1159.24	As=726.00
Vu=-28.22	Vu=-2.49	Vu=24.47
T=0.21		

V-131/NE+0.10

B=0.20 H=0.60 L=1.38			B=0.20 H=0.60 L=0.63		
Mu=-3.84	Mu=-1.71	Mu=-8.54	Mu=-9.31	Mu=-1.86	Mu=-1.98
As=363.00	As=363.00	As=425.28	As=465.27	As=363.00	As=363.00
Mu=1.71	Mu=3.03	Mu=2.85	Mu=3.10	Mu=5.77	Mu=1.86
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=-3.71	Vu=1.06	Vu=5.07	Vu=-5.82	Vu=-1.62	Vu=3.91
T=-0.19			T=-0.03		

V-132/NE+0.10

B=0.40 H=0.60 L=0.80			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=4.90		
Mu=-0.03	Mu=-5.25	Mu=-11.13	Mu=-34.78	Mu=-8.26	Mu=-41.32	Mu=-21.39	Mu=-0.00	Mu=-0.79
As=726.00	As=726.00	As=726.00	As=1803.24	As=726.00	As=2177.93	As=1074.96	As=726.00	As=726.00
Mu=0.00	Mu=0.00	Mu=2.23	Mu=11.59	Mu=22.28	Mu=13.77	Mu=4.28	Mu=7.77	Mu=0.00
As=726.00	As=726.00	As=726.00	As=726.00	As=1122.44	As=726.00	As=726.00	As=726.00	As=726.00
Vu=8.40	Vu=9.02	Vu=10.11	Vu=-25.92	Vu=1.82	Vu=28.22	Vu=-15.40	Vu=-1.80	Vu=6.94
T=0.86			T=-0.10			T=-0.27		

V-133/NE+0.10

B=0.40 H=0.60 L=0.80			B=0.40 H=0.60 L=7.40			B=0.40 H=0.60 L=2.35		
Mu=-0.01	Mu=-1.65	Mu=-3.73	Mu=-20.35	Mu=-5.78	Mu=-28.88	Mu=-22.09	Mu=-4.42	Mu=-4.42
As=726.00	As=726.00	As=726.00	As=1020.56	As=726.00	As=1476.68	As=1112.35	As=726.00	As=726.00
Mu=0.03	Mu=0.00	Mu=0.75	Mu=6.78	Mu=12.25	Mu=9.63	Mu=7.36	Mu=4.64	Mu=17.39
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=866.63
Vu=2.70	Vu=3.21	Vu=3.92	Vu=-15.46	Vu=2.78	Vu=17.62	Vu=-18.84	Vu=-15.99	Vu=4.38
T=1.01			T=0.73			T=4.96		

CENTRO CRECER

B=0.40 H=0.60 L=2.20		
Mu=-3.48	Mu=-3.48	Mu=-3.48
As=726.00	As=726.00	As=726.00
Mu=17.39	Mu=10.98	Mu=3.48
As=866.63	As=726.00	As=726.00
Vu=4.38	Vu=8.02	Vu=10.24
T=4.96		

V-134/NE+0.10

B=0.20 H=0.60 L=6.42			B=0.20 H=0.60 L=2.30			B=0.20 H=0.60 L=2.30		
Mu=-0.27	Mu=-5.95	Mu=-12.99	Mu=-9.49	Mu=-1.90	Mu=-5.82	Mu=-7.52	Mu=-1.50	Mu=-1.50
As=363.00	As=363.00	As=659.79	As=474.53	As=363.00	As=363.00	As=372.76	As=363.00	As=363.00
Mu=0.00	Mu=0.00	Mu=2.60	Mu=3.16	Mu=3.23	Mu=1.94	Mu=2.51	Mu=2.71	Mu=6.78
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=4.98	Vu=6.14	Vu=7.29	Vu=-4.60	Vu=-2.40	Vu=5.83	Vu=-8.52	Vu=-7.19	Vu=-3.49
T=-3.03			T=-0.44			T=-0.21		

B=0.20 H=0.60 L=6.95			B=0.20 H=0.60 L=3.05			B=0.20 H=0.60 L=4.80		
Mu=-1.78	Mu=-1.78	Mu=-8.91	Mu=-8.68	Mu=-1.96	Mu=-9.79	Mu=-9.72	Mu=-1.94	Mu=-3.26
As=363.00	As=363.00	As=444.41	As=432.26	As=363.00	As=489.96	As=486.26	As=363.00	As=363.00
Mu=6.94	Mu=2.65	Mu=2.97	Mu=2.89	Mu=2.81	Mu=3.26	Mu=3.24	Mu=6.70	Mu=1.94
As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00	As=363.00
Vu=3.04	Vu=4.26	Vu=9.39	Vu=-6.08	Vu=-0.37	Vu=6.48	Vu=-7.28	Vu=0.65	Vu=5.96
T=0.17			T=-0.19			T=0.79		

V-135/NE+0.10

B=0.40 H=0.60 L=1.80			B=0.40 H=0.60 L=6.75			B=0.40 H=0.60 L=2.30		
Mu=-26.82	Mu=-5.36	Mu=-24.03	Mu=-21.35	Mu=-4.27	Mu=-18.97	Mu=-23.49	Mu=-4.70	Mu=-4.70
As=1364.47	As=726.00	As=1215.00	As=1073.18	As=726.00	As=948.39	As=1186.21	As=726.00	As=726.00
Mu=8.94	Mu=13.00	Mu=8.01	Mu=7.12	Mu=9.70	Mu=6.32	Mu=7.83	Mu=6.97	Mu=11.93
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-19.30	Vu=-5.99	Vu=21.85	Vu=-17.55	Vu=-9.88	Vu=16.49	Vu=-18.19	Vu=-10.30	Vu=-2.98
T=-1.52			T=-3.27			T=0.19		

CENTRO CRECER

B=0.40 H=0.60 L=2.20			B=0.40 H=0.60 L=6.95			B=0.40 H=0.60 L=3.05		
Mu=-6.50	Mu=-6.50	Mu=-32.51	Mu=-41.76	Mu=-8.35	Mu=-8.35	Mu=-4.99	Mu=-4.99	Mu=-4.99
As=726.00	As=726.00	As=1676.51	As=2203.43	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Mu=11.93	Mu=6.50	Mu=10.84	Mu=13.92	Mu=8.35	Mu=24.81	Mu=24.50	Mu=24.27	Mu=19.48
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=1256.76	As=1255.21	As=1241.09	As=1044.66
Vu=-2.98	Vu=12.82	Vu=21.42	Vu=-27.53	Vu=-20.34	Vu=-18.42	Vu=-3.80	Vu=4.94	Vu=10.55
T=0.19			T=1.97			T=-0.76		

B=0.40 H=0.60 L=4.70		
Mu=-6.06	Mu=-6.27	Mu=-30.29
As=726.00	As=726.00	As=1553.78
Mu=19.48	Mu=9.93	Mu=10.10
As=975.34	As=726.00	As=726.00
Vu=10.55	Vu=18.82	Vu=27.16
T=-0.76		

V-136/NE+0.10

B=0.40 H=0.60 L=1.80			B=0.40 H=0.60 L=6.45			B=0.40 H=0.60 L=4.90		
Mu=-0.00	Mu=-13.56	Mu=-29.77	Mu=-41.88	Mu=-8.38	Mu=-28.02	Mu=-24.19	Mu=-4.84	Mu=-16.57
As=726.00	As=827.98	As=1525.52	As=2210.62	As=726.00	As=1429.75	As=1223.48	As=726.00	As=824.47
Mu=0.50	Mu=0.00	Mu=5.95	Mu=13.96	Mu=15.38	Mu=9.34	Mu=8.06	Mu=7.53	Mu=7.53
As=726.00	As=726.00	As=726.00	As=726.00	As=763.14	As=726.00	As=726.00	As=726.00	As=726.00
Vu=11.99	Vu=13.76	Vu=15.54	Vu=-28.56	Vu=-7.53	Vu=23.40	Vu=-19.38	Vu=5.52	Vu=15.99
T=-1.46			T=0.66			T=-0.54		

B=0.40 H=0.60 L=6.95			B=0.40 H=0.60 L=3.05			B=0.40 H=0.60 L=4.70		
Mu=-20.46	Mu=-4.09	Mu=-4.09	Mu=-5.05	Mu=-5.05	Mu=-25.25	Mu=-31.33	Mu=-6.27	Mu=-22.33
As=1026.38	As=726.00	As=726.00	As=726.00	As=726.00	As=1280.00	As=1611.30	As=726.00	As=1125.08
Mu=6.82	Mu=5.32	Mu=9.43	Mu=9.43	Mu=5.05	Mu=8.42	Mu=10.44	Mu=16.30	Mu=7.44
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=810.37	As=726.00
Vu=-14.77	Vu=-9.14	Vu=-3.32	Vu=-3.32	Vu=10.49	Vu=16.48	Vu=-20.62	Vu=3.16	Vu=17.95
T=-0.52			T=-0.52			T=-2.83		

V-137/NE+0.10

CENTRO CRECER

B=0.40 H=0.60 L=4.85		
Mu=-8.10	Mu=-2.03	Mu=-2.22
As=726.00	As=726.00	As=726.00
Mu=2.70	Mu=10.13	Mu=2.03
As=726.00	As=726.00	As=726.00
Vu=-10.25	Vu=2.14	Vu=7.96
T=1.19		

V-138/NE+0.10

B=0.40 H=0.60 L=1.80			B=0.40 H=0.60 L=6.45		
Mu=-0.28	Mu=-5.68	Mu=-12.59	Mu=-29.58	Mu=-5.92	Mu=-22.44
As=726.00	As=726.00	As=726.00	As=1514.61	As=726.00	As=1130.53
Mu=0.00	Mu=0.00	Mu=2.52	Mu=9.86	Mu=10.29	Mu=7.48
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=4.68	Vu=5.94	Vu=7.19	Vu=-20.01	Vu=-7.80	Vu=18.21
T=2.92			T=-0.67		

CENTRO CRECER BLOQUE 1**VT-101/NE+0.10**

B=0.12 H=0.60 L=1.40			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-0.00 As =3.87 As(r)=2.22	Mu=-1.45 As =3.87 As(r)=2.22	Mu=-5.17 As =3.87 As(r)=2.52	Mu=-6.16 As =3.87 As(r)=3.03	Mu=-0.00 As =3.68 As(r)=2.22	Mu=-8.09 As =3.87 As(r)=4.04	Mu=-8.01 As =3.87 As(r)=3.99	Mu=-0.00 As =3.68 As(r)=2.22	Mu=-8.09 As =3.87 As(r)=4.03
Mu=0.57 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.37 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.27 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=1.68	Vu=3.19	Vu=4.70	Vu=-6.54	Vu=-0.23	Vu=7.79	Vu=-7.77	Vu=-0.32	Vu=7.86

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-8.09 As =3.87 As(r)=4.04	Mu=-0.00 As =3.68 As(r)=2.22	Mu=-7.94 As =3.87 As(r)=3.96	Mu=-7.97 As =3.87 As(r)=3.97	Mu=-0.00 As =3.68 As(r)=2.22	Mu=-7.95 As =3.87 As(r)=3.96	Mu=-8.09 As =3.87 As(r)=4.03	Mu=-0.00 As =3.68 As(r)=2.22	Mu=-4.60 As =3.87 As(r)=2.24
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.32 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.15 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.56 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-7.88	Vu=-0.31	Vu=7.75	Vu=-7.70	Vu=-0.31	Vu=7.67	Vu=-7.79	Vu=-0.46	Vu=5.51

VT-105/NE+0.10

B=0.12 H=0.60 L=1.40			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=1.30		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.09 As =2.84 As(r)=2.22	Mu=-4.57 As =2.84 As(r)=2.23	Mu=-5.69 As =2.84 As(r)=2.79	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-5.54 As =2.84 As(r)=2.71	Mu=-4.51 As =2.84 As(r)=2.22	Mu=-1.20 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.22 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=4.48 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.16 As =2.84 As(r)=2.22
Vu=0.82	Vu=2.66	Vu=4.50	Vu=-6.02	Vu=-0.44	Vu=5.93	Vu=-4.48	Vu=-2.74	Vu=-1.00

VT-106/NE+0.10

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-3.03 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-3.98 As =2.84 As(r)=2.22	Mu=-3.98 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-3.71 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=4.67 As =2.84 As(r)=2.27	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=4.62 As =2.84 As(r)=2.25	Mu=0.00 As =2.84 As(r)=2.22
Vu=-4.20	Vu=-0.10	Vu=6.71	Vu=-6.67	Vu=-0.78	Vu=4.63

VT-107/NE+0.10

B=0.12 H=0.60 L=1.63			B=0.12 H=0.60 L=3.82			B=0.12 H=0.60 L=5.85		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-4.33 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.33 As =2.84 As(r)=2.22	Mu=-4.40 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.45 As =2.84 As(r)=2.22
Mu=0.36 As =2.84 As(r)=2.22	Mu=1.77 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.36 As =2.84 As(r)=2.22	Mu=1.77 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.62 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.01	Vu=0.87	Vu=3.89	Vu=-2.01	Vu=0.87	Vu=3.89	Vu=-3.68	Vu=-0.26	Vu=3.66

CENTRO CRECER BLOQUE 1

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-4.19 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.74 As =2.84 As(r)=2.22	Mu=-2.07 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.76 As =2.84 As(r)=2.32	Mu=-4.41 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.40 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.62 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.67 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.66 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.64	Vu=-0.46	Vu=2.22	Vu=-2.38	Vu=-0.22	Vu=4.14	Vu=-3.85	Vu=-0.16	Vu=3.55

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-4.02 As =2.84 As(r)=2.22	Mu=-0.00 As =4.06 As(r)=2.22	Mu=-4.30 As =2.84 As(r)=2.22	Mu=-5.29 As =2.84 As(r)=2.59	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-0.81 As =2.84 As(r)=2.22	Mu=-1.33 As =2.84 As(r)=2.22	Mu=-0.18 As =3.96 As(r)=2.22	Mu=-0.18 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.36 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.14 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.97 As =2.84 As(r)=2.22	Mu=0.01 As =2.84 As(r)=2.22
Vu=-3.41	Vu=-0.33	Vu=3.73	Vu=-3.93	Vu=-0.99	Vu=2.54	Vu=-0.41	Vu=-1.53	Vu=2.00

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=1.80			B=0.12 H=0.60 L=3.80		
Mu=-1.33 As =2.84 As(r)=2.22	Mu=-0.18 As =3.96 As(r)=2.22	Mu=-0.18 As =2.84 As(r)=2.22	Mu=-1.33 As =2.84 As(r)=2.22	Mu=-0.18 As =2.84 As(r)=2.22	Mu=-0.18 As =2.84 As(r)=2.22	Mu=-1.33 As =2.84 As(r)=2.22	Mu=-0.18 As =4.22 As(r)=2.22	Mu=-0.18 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.97 As =2.84 As(r)=2.22	Mu=0.01 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.97 As =2.84 As(r)=2.22	Mu=0.01 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.97 As =2.84 As(r)=2.22	Mu=0.01 As =2.84 As(r)=2.22
Vu=-0.41	Vu=-1.53	Vu=2.00	Vu=-0.41	Vu=-1.53	Vu=2.00	Vu=-0.41	Vu=-1.53	Vu=2.00

B=0.12 H=0.60 L=4.10		
Mu=-1.33 As =2.84 As(r)=2.22	Mu=-0.18 As =2.84 As(r)=2.22	Mu=-0.18 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.97 As =2.84 As(r)=2.22	Mu=0.01 As =2.84 As(r)=2.22
Vu=-0.41	Vu=-1.53	Vu=2.00

VT-108/NE+0.10

B=0.12 H=0.60 L=1.63			B=0.12 H=0.60 L=3.82			B=0.12 H=0.60 L=5.85		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.04 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =3.76 As(r)=2.22	Mu=-3.04 As =2.84 As(r)=2.22	Mu=-2.79 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.34 As =2.84 As(r)=2.22
Mu=0.51 As =2.84 As(r)=2.22	Mu=1.69 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.51 As =2.84 As(r)=2.22	Mu=1.69 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.19 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.95	Vu=0.96	Vu=2.84	Vu=-1.95	Vu=0.96	Vu=2.84	Vu=-2.36	Vu=-0.28	Vu=2.72

VT-109/NE+0.10

CENTRO CRECER BLOQUE 1

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-1.85 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-3.32 As =2.84 As(r)=2.22	Mu=-2.74 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-2.93 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.51 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.36 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.24	Vu=-0.12	Vu=2.85	Vu=-2.45	Vu=-0.25	Vu=2.57

VT-110/NE+0.10

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-4.13 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.60 As =2.84 As(r)=2.22	Mu=-2.39 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-0.48 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.66 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.79 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.17	Vu=-0.70	Vu=2.38	Vu=-2.36	Vu=-0.88	Vu=2.28

VT-112/NE+0.10

B=0.12 H=0.60 L=1.63			B=0.12 H=0.60 L=3.82			B=0.12 H=0.60 L=5.85		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.02 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =3.76 As(r)=2.22	Mu=-3.02 As =2.84 As(r)=2.22	Mu=-2.82 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-2.25 As =2.84 As(r)=2.22
Mu=0.72 As =2.84 As(r)=2.22	Mu=1.83 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.72 As =2.84 As(r)=2.22	Mu=1.83 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.83 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.97	Vu=1.07	Vu=2.91	Vu=-1.97	Vu=1.07	Vu=2.91	Vu=-2.31	Vu=-0.33	Vu=2.05

B=0.12 H=0.55 L=5.85			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-2.13 As =2.84 As(r)=2.02	Mu=-0.00 As =2.84 As(r)=2.02	Mu=-1.93 As =2.84 As(r)=2.02	Mu=-2.09 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-2.88 As =2.84 As(r)=2.22	Mu=-2.56 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-2.12 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.02	Mu=1.15 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.55 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.09 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.24	Vu=-0.29	Vu=2.16	Vu=-2.37	Vu=-0.14	Vu=2.68	Vu=-2.32	Vu=-0.32	Vu=2.15

B=0.12 H=0.55 L=5.85			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-1.81 As =2.84 As(r)=2.02	Mu=-0.00 As =2.84 As(r)=2.02	Mu=-2.04 As =2.84 As(r)=2.02	Mu=-2.72 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-2.62 As =2.84 As(r)=2.22	Mu=-3.16 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-0.50 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.02	Mu=0.83 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.43 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.45 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.95	Vu=-0.20	Vu=2.02	Vu=-2.52	Vu=-0.33	Vu=2.54	Vu=-3.05	Vu=-0.78	Vu=2.50

CENTRO CRECER BLOQUE 1

B=0.12 H=0.55 L=5.85			B=0.12 H=0.60 L=1.80			B=0.12 H=0.60 L=3.80		
Mu=-3.16 As =2.84 As(r)=2.02	Mu=-0.00 As =2.84 As(r)=2.02	Mu=-0.50 As =2.84 As(r)=2.02	Mu=-3.16 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.50 As =2.84 As(r)=2.22	Mu=-3.16 As =2.84 As(r)=2.22	Mu=-0.00 As =4.22 As(r)=2.22	Mu=-0.50 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.02	Mu=2.45 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.45 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.45 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.05	Vu=-0.78	Vu=2.50	Vu=-3.05	Vu=-0.78	Vu=2.50	Vu=-3.05	Vu=-0.78	Vu=2.50

B=0.12 H=0.60 L=4.10		
Mu=-3.16 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.50 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.45 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.05	Vu=-0.78	Vu=2.50

VT-124/NE+0.10

B=0.12 H=0.60 L=0.85			B=0.12 H=0.60 L=7.55			B=0.12 H=0.60 L=5.20		
Mu=-0.11 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-6.01 As =2.84 As(r)=2.95	Mu=-0.11 As =2.84 As(r)=2.22	Mu=-0.00 As =4.53 As(r)=2.22	Mu=-6.01 As =3.87 As(r)=2.95	Mu=-0.11 As =3.87 As(r)=2.22	Mu=-0.00 As =3.52 As(r)=2.22	Mu=-6.01 As =3.87 As(r)=2.95
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.16 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.16 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.16 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.47	Vu=1.43	Vu=4.69	Vu=-2.47	Vu=1.43	Vu=4.69	Vu=-2.47	Vu=1.43	Vu=4.69

B=0.12 H=0.60 L=6.85			B=0.12 H=0.60 L=7.65			B=0.12 H=0.60 L=0.45		
Mu=-7.62 As =3.87 As(r)=3.79	Mu=-0.00 As =4.20 As(r)=2.22	Mu=-8.31 As =5.10 As(r)=4.15	Mu=-8.31 As =5.10 As(r)=4.15	Mu=-0.00 As =4.80 As(r)=2.22	Mu=-4.72 As =3.87 As(r)=2.30	Mu=-8.31 As =3.87 As(r)=4.15	Mu=-0.00 As =3.87 As(r)=2.22	Mu=-4.72 As =3.87 As(r)=2.30
Mu=0.00 As =2.84 As(r)=2.22	Mu=5.18 As =2.84 As(r)=2.53	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=6.30 As =2.84 As(r)=3.10	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=6.30 As =2.84 As(r)=3.10	Mu=0.00 As =3.87 As(r)=2.22
Vu=-6.47	Vu=-0.14	Vu=7.84	Vu=-7.74	Vu=-0.43	Vu=5.00	Vu=-7.74	Vu=-0.43	Vu=5.00

VT-125/NE+0.10

B=0.12 H=0.60 L=7.65			B=0.12 H=0.60 L=0.45		
Mu=-3.56 As =2.84 As(r)=2.22	Mu=-0.00 As =4.19 As(r)=2.22	Mu=-3.49 As =2.84 As(r)=2.22	Mu=-3.56 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.49 As =2.84 As(r)=2.22
Mu=0.00 As =3.87 As(r)=2.22	Mu=6.63 As =3.87 As(r)=3.27	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=6.63 As =3.87 As(r)=3.27	Mu=0.00 As =3.87 As(r)=2.22
Vu=-4.97	Vu=-0.24	Vu=4.59	Vu=-4.97	Vu=-0.24	Vu=4.59

VT-128/NE+0.10

CENTRO CRECER BLOQUE 1

B=0.12 H=0.60 L=0.90			B=0.12 H=0.60 L=7.55			B=0.12 H=0.60 L=5.20		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-6.32 As =2.84 As(r)=3.11	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =4.34 As(r)=2.22	Mu=-6.32 As =3.87 As(r)=3.11	Mu=-0.00 As =3.87 As(r)=2.22	Mu=-0.00 As =3.52 As(r)=2.22	Mu=-6.32 As =3.87 As(r)=3.11
Mu=0.10 As =2.84 As(r)=2.22	Mu=2.08 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.10 As =2.84 As(r)=2.22	Mu=2.08 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.10 As =2.84 As(r)=2.22	Mu=2.08 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.35	Vu=1.41	Vu=4.90	Vu=-2.35	Vu=1.41	Vu=4.90	Vu=-2.35	Vu=1.41	Vu=4.90

B=0.12 H=0.60 L=6.85			B=0.12 H=0.60 L=7.65			B=0.12 H=0.60 L=0.45		
Mu=-7.94 As =3.87 As(r)=3.96	Mu=-0.00 As =4.20 As(r)=2.22	Mu=-10.20 As =5.10 As(r)=5.17	Mu=-10.30 As =5.10 As(r)=5.22	Mu=-0.00 As =4.63 As(r)=2.22	Mu=-4.86 As =3.87 As(r)=2.37	Mu=-11.72 As =3.87 As(r)=6.01	Mu=-0.00 As =3.87 As(r)=2.22	Mu=-4.86 As =3.87 As(r)=2.37
Mu=0.00 As =2.84 As(r)=2.22	Mu=5.74 As =2.84 As(r)=2.82	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=6.99 As =2.84 As(r)=3.46	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=6.99 As =2.84 As(r)=3.46	Mu=0.00 As =3.87 As(r)=2.22
Vu=-6.41	Vu=-0.37	Vu=7.94	Vu=-7.81	Vu=-0.34	Vu=5.36	Vu=-7.81	Vu=-0.34	Vu=5.36

VT-129/NE+0.10

B=0.12 H=0.55 L=2.50			B=0.12 H=0.60 L=2.30			B=0.12 H=0.60 L=6.85		
Mu=-0.00 As =3.87 As(r)=2.02	Mu=-0.71 As =3.87 As(r)=2.02	Mu=-5.82 As =3.87 As(r)=3.16	Mu=-0.00 As =3.87 As(r)=2.22	Mu=-0.71 As =3.87 As(r)=2.22	Mu=-5.82 As =3.87 As(r)=2.86	Mu=-6.96 As =3.87 As(r)=3.44	Mu=-0.00 As =4.36 As(r)=2.22	Mu=-9.61 As =5.10 As(r)=4.85
Mu=2.30 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.02	Mu=0.00 As =2.84 As(r)=2.02	Mu=2.30 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=4.03 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=1.56	Vu=2.91	Vu=4.46	Vu=1.56	Vu=2.91	Vu=4.46	Vu=-6.21	Vu=0.24	Vu=7.51

B=0.12 H=0.60 L=7.65			B=0.12 H=0.60 L=0.45		
Mu=-10.10 As =5.10 As(r)=5.12	Mu=-0.00 As =4.38 As(r)=2.22	Mu=-4.22 As =3.87 As(r)=2.22	Mu=-10.10 As =3.87 As(r)=5.12	Mu=-0.00 As =3.87 As(r)=2.22	Mu=-4.22 As =3.87 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=5.22 As =2.84 As(r)=2.55	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=5.22 As =2.84 As(r)=2.55	Mu=0.00 As =3.87 As(r)=2.22
Vu=-7.60	Vu=-0.62	Vu=4.48	Vu=-7.60	Vu=-0.62	Vu=4.48

CENTRO CRECER BLOQUE 2**VT-113/NE+0.10**

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-2.71 As =2.84 As(r)=2.22	Mu=-0.00 As =4.41 As(r)=2.22	Mu=-7.68 As =3.87 As(r)=3.82	Mu=-7.41 As =3.87 As(r)=3.68	Mu=-0.00 As =4.50 As(r)=2.22	Mu=-2.57 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=4.65 As =2.84 As(r)=2.26	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.57 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-4.08	Vu=-0.05	Vu=7.04	Vu=-6.29	Vu=-0.51	Vu=3.56

VT-114/NE+0.10

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-2.21 As =2.84 As(r)=2.22	Mu=-0.00 As =4.41 As(r)=2.22	Mu=-5.64 As =3.87 As(r)=2.76	Mu=-5.64 As =3.87 As(r)=2.76	Mu=-0.00 As =4.50 As(r)=2.22	Mu=-2.22 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.10 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.10 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.97	Vu=-0.03	Vu=4.93	Vu=-4.93	Vu=-0.37	Vu=2.97

VT-115/NE+0.10

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-2.21 As =2.84 As(r)=2.22	Mu=-0.00 As =4.41 As(r)=2.22	Mu=-5.70 As =3.87 As(r)=2.79	Mu=-5.71 As =3.87 As(r)=2.80	Mu=-0.00 As =4.50 As(r)=2.22	Mu=-2.04 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.09 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.17 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.97	Vu=-0.03	Vu=4.96	Vu=-4.94	Vu=-0.43	Vu=2.97

VT-122/NE+0.10

B=0.12 H=0.60 L=0.85			B=0.12 H=0.60 L=7.55			B=0.12 H=0.60 L=5.20		
Mu=-0.00 As =3.87 As(r)=2.22	Mu=-1.55 As =3.87 As(r)=2.22	Mu=-3.90 As =3.87 As(r)=2.22	Mu=-6.98 As =3.87 As(r)=3.46	Mu=-0.00 As =4.20 As(r)=2.22	Mu=-9.07 As =5.10 As(r)=4.56	Mu=-6.95 As =5.10 As(r)=3.44	Mu=-0.00 As =4.36 As(r)=2.22	Mu=-0.09 As =3.87 As(r)=2.22
Mu=0.04 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=6.62 As =3.87 As(r)=3.27	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.04 As =3.87 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=2.41	Vu=2.89	Vu=4.16	Vu=-5.39	Vu=-0.24	Vu=6.34	Vu=-5.20	Vu=-0.82	Vu=2.39

VT-123/NE+0.10

B=0.12 H=0.60 L=0.85			B=0.12 H=0.60 L=7.55		
Mu=-0.00 As =3.87 As(r)=2.22	Mu=-1.25 As =3.87 As(r)=2.22	Mu=-3.32 As =3.87 As(r)=2.22	Mu=-5.74 As =3.87 As(r)=2.82	Mu=-0.00 As =4.53 As(r)=2.22	Mu=-8.93 As =5.10 As(r)=4.48
Mu=0.06 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=0.00 As =3.87 As(r)=2.22	Mu=4.76 As =3.87 As(r)=2.32	Mu=0.00 As =3.87 As(r)=2.22
Vu=1.94	Vu=2.42	Vu=3.69	Vu=-5.41	Vu=-0.27	Vu=7.15

VT-126/NE+0.10

CENTRO CRECER BLOQUE 2

B=0.12 H=0.55 L=2.50			B=0.12 H=0.60 L=2.30		
Mu=-1.84 As =2.84 As(r)=2.02	Mu=-0.00 As =2.84 As(r)=2.02	Mu=-0.00 As =2.84 As(r)=2.02	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.07 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.02	Mu=0.68 As =2.84 As(r)=2.02	Mu=2.70 As =2.84 As(r)=2.02	Mu=2.86 As =2.84 As(r)=2.22	Mu=2.64 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=2.51	Vu=2.02	Vu=1.01	Vu=-0.50	Vu=0.85	Vu=2.69

VT-127/NE+0.10

B=0.12 H=0.60 L=0.90			B=0.12 H=0.60 L=7.55			B=0.12 H=0.60 L=5.20		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.85 As =2.84 As(r)=2.22	Mu=-2.22 As =2.84 As(r)=2.22	Mu=-3.76 As =2.84 As(r)=2.22	Mu=-0.00 As =4.34 As(r)=2.22	Mu=-5.64 As =3.87 As(r)=2.77	Mu=-5.05 As =3.87 As(r)=2.47	Mu=-0.00 As =4.10 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.05 As =1.20 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.02 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.40 As =2.84 As(r)=2.22	Mu=0.03 As =2.84 As(r)=2.22
Vu=1.32	Vu=1.66	Vu=2.45	Vu=-3.52	Vu=-0.12	Vu=4.39	Vu=-4.35	Vu=-0.81	Vu=2.56

CENTRO CRECER BLOQUE 3**VT-102/NE+0.10**

B=0.12 H=0.60 L=1.80			B=0.12 H=0.60 L=3.80		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.67 As =2.84 As(r)=2.22	Mu=-4.23 As =2.84 As(r)=2.22	Mu=-3.87 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.48 As =2.84 As(r)=2.22
Mu=0.29 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.93 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.44	Vu=1.48	Vu=4.22	Vu=-4.95	Vu=-0.60	Vu=3.18

VT-103/NE+0.10

B=0.12 H=0.60 L=1.80		
Mu=-0.08 As =2.84 As(r)=2.22	Mu=-0.39 As =2.84 As(r)=2.22	Mu=-1.28 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.13	Vu=0.75	Vu=1.32

VT-104/NE+0.10

B=0.12 H=0.60 L=1.93		
Mu=-0.00 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.22 As =2.84 As(r)=2.22
Mu=0.09 As =0.71 As(r)=2.22	Mu=1.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.44	Vu=-0.25	Vu=1.73

VT-111/NE+0.10

B=0.12 H=0.60 L=3.80			B=0.12 H=0.60 L=4.20		
Mu=-4.44 As =2.84 As(r)=2.22	Mu=-0.84 As =3.96 As(r)=2.22	Mu=-1.78 As =2.84 As(r)=2.22	Mu=-2.66 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.23 As =2.84 As(r)=2.22	Mu=0.46 As =2.84 As(r)=2.22
Vu=-2.69	Vu=-0.64	Vu=1.41	Vu=-3.04	Vu=-0.87	Vu=2.28

VT-116/NE+0.10

B=0.12 H=0.60 L=1.47			B=0.12 H=0.60 L=4.15			B=0.12 H=0.60 L=5.90		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.99 As =2.84 As(r)=2.22	Mu=-4.72 As =2.84 As(r)=2.22	Mu=-3.64 As =2.84 As(r)=2.22	Mu=-0.00 As =3.76 As(r)=2.22	Mu=-3.22 As =2.84 As(r)=2.22	Mu=-4.16 As =2.84 As(r)=2.22	Mu=-0.00 As =4.22 As(r)=2.22	Mu=-1.84 As =2.84 As(r)=2.22
Mu=0.13 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.97 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.14 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=2.11	Vu=2.96	Vu=3.60	Vu=-3.18	Vu=-0.53	Vu=3.45	Vu=-3.88	Vu=-0.42	Vu=2.56

VT-117/NE+0.10

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=1.14			B=0.12 H=0.60 L=4.46			B=0.12 H=0.60 L=5.88		
Mu=-0.18 As =2.84 As(r)=2.22	Mu=-0.80 As =2.84 As(r)=2.22	Mu=-1.86 As =2.84 As(r)=2.22	Mu=-1.84 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.95 As =2.84 As(r)=2.22	Mu=-2.40 As =2.84 As(r)=2.22	Mu=-0.00 As =5.12 As(r)=2.22	Mu=-0.83 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.57 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.47 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.65	Vu=1.38	Vu=1.58	Vu=-1.70	Vu=0.12	Vu=1.88	Vu=-2.62	Vu=-0.50	Vu=2.27

VT-118/NE+0.10

B=0.12 H=0.60 L=0.81			B=0.12 H=0.60 L=4.80			B=0.12 H=0.60 L=5.87		
Mu=-0.26 As =2.84 As(r)=2.22	Mu=-0.11 As =2.84 As(r)=2.22	Mu=-0.29 As =2.84 As(r)=2.22	Mu=-0.76 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.76 As =2.84 As(r)=2.22	Mu=-2.00 As =2.84 As(r)=2.22	Mu=-0.00 As =4.49 As(r)=2.22	Mu=-0.65 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.76 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.23 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.42	Vu=-0.17	Vu=0.49	Vu=-1.50	Vu=0.58	Vu=1.58	Vu=-2.30	Vu=-0.62	Vu=2.32

VT-119/NE+0.10

B=0.12 H=0.60 L=0.49			B=0.12 H=0.60 L=5.13			B=0.12 H=0.60 L=5.87		
Mu=-0.26 As =2.84 As(r)=2.22	Mu=-0.02 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.67 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-2.67 As =2.84 As(r)=2.22	Mu=-2.74 As =2.84 As(r)=2.22	Mu=-0.00 As =4.49 As(r)=2.22	Mu=-0.88 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.10 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.48 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.38 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.79	Vu=-0.61	Vu=-0.26	Vu=-1.87	Vu=0.49	Vu=2.23	Vu=-2.70	Vu=-0.62	Vu=2.44

VT-120/NE+0.10

B=0.12 H=0.60 L=5.47			B=0.12 H=0.60 L=5.86		
Mu=-1.70 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-4.73 As =2.84 As(r)=2.30	Mu=-4.66 As =2.84 As(r)=2.27	Mu=-0.00 As =3.76 As(r)=2.22	Mu=-1.80 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.45 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.82 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.80	Vu=0.51	Vu=4.07	Vu=-4.14	Vu=-0.50	Vu=2.83

VT-131/NE+0.10

B=0.12 H=0.60 L=1.90			B=0.12 H=0.60 L=2.15			B=0.12 H=0.60 L=2.98		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.68 As =2.84 As(r)=2.22	Mu=-2.82 As =2.84 As(r)=2.22	Mu=-2.96 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.04 As =3.76 As(r)=2.22	Mu=-3.88 As =2.84 As(r)=2.22
Mu=0.09 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.63 As =2.84 As(r)=2.22	Mu=1.54 As =2.84 As(r)=2.22	Mu=1.54 As =2.84 As(r)=2.22	Mu=0.14 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.25	Vu=1.32	Vu=2.43	Vu=-2.71	Vu=-1.26	Vu=0.24	Vu=0.34	Vu=1.47	Vu=2.83

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=2.30			B=0.12 H=0.60 L=2.30			B=0.12 H=0.60 L=6.95		
Mu=-4.05 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =3.76 As(r)=2.22	Mu=-4.65 As =2.84 As(r)=2.26	Mu=-5.13 As =2.84 As(r)=2.50	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-6.00 As =2.84 As(r)=2.95
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.70 As =2.84 As(r)=2.22	Mu=3.67 As =2.84 As(r)=2.22	Mu=3.63 As =2.84 As(r)=2.22	Mu=0.72 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.33 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-4.29	Vu=-2.97	Vu=-2.01	Vu=1.85	Vu=2.93	Vu=4.74	Vu=-3.99	Vu=-0.08	Vu=4.31

B=0.12 H=0.60 L=3.05			B=0.12 H=0.60 L=4.80		
Mu=-6.51 As =2.84 As(r)=3.21	Mu=-0.44 As =3.96 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.29 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.19 As =2.84 As(r)=2.22	Mu=3.16 As =2.84 As(r)=2.22	Mu=2.87 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-4.28	Vu=-3.54	Vu=-1.52	Vu=-1.38	Vu=1.71	Vu=1.85

VT-132/NE+0.10

B=0.12 H=0.60 L=1.90			B=0.12 H=0.60 L=6.55		
Mu=-0.12 As =2.84 As(r)=2.22	Mu=-0.42 As =2.84 As(r)=2.22	Mu=-2.11 As =2.84 As(r)=2.22	Mu=-2.22 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-4.47 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.98 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.23	Vu=0.91	Vu=2.04	Vu=-2.37	Vu=0.17	Vu=4.01

VT-133/NE+0.10

B=0.12 H=0.60 L=4.80		
Mu=-0.00 As =2.13 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.76 As =2.84 As(r)=2.22
Mu=0.39 As =2.13 As(r)=2.22	Mu=3.11 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.88	Vu=1.94	Vu=3.66

VT-134/NE+0.10

B=0.12 H=0.60 L=1.90			B=0.12 H=0.60 L=6.55			B=0.12 H=0.60 L=5.00		
Mu=-0.23 As =2.84 As(r)=2.22	Mu=-0.33 As =2.84 As(r)=2.22	Mu=-1.85 As =2.84 As(r)=2.22	Mu=-2.00 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-3.70 As =2.84 As(r)=2.22	Mu=-2.99 As =2.84 As(r)=2.22	Mu=-0.00 As =4.22 As(r)=2.22	Mu=-3.25 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.07 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.11 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.43	Vu=0.74	Vu=1.90	Vu=-2.24	Vu=0.15	Vu=2.62	Vu=-2.69	Vu=-0.25	Vu=2.84

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=6.95			B=0.12 H=0.60 L=0.93		
Mu=-4.43 As =2.84 As(r)=2.22	Mu=-0.00 As =3.93 As(r)=2.22	Mu=-5.90 As =2.84 As(r)=2.90	Mu=-5.68 As =2.84 As(r)=2.79	Mu=-2.75 As =2.84 As(r)=2.22	Mu=-0.27 As =2.13 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.15 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.13 As(r)=2.22
Vu=-3.59	Vu=-0.10	Vu=4.27	Vu=-5.57	Vu=-5.21	Vu=-4.38

VT-135/NE+0.10

B=0.12 H=0.60 L=1.90			B=0.12 H=0.60 L=6.55			B=0.12 H=0.60 L=5.00		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.27 As =2.84 As(r)=2.22	Mu=-4.06 As =2.84 As(r)=2.22	Mu=-4.65 As =2.84 As(r)=2.27	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.15 As =2.84 As(r)=2.22	Mu=-3.38 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.13 As =2.84 As(r)=2.22
Mu=0.06 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.06 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.16 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.73	Vu=1.88	Vu=3.04	Vu=-3.83	Vu=-0.16	Vu=3.03	Vu=-2.98	Vu=-0.31	Vu=2.96

B=0.12 H=0.60 L=6.95			B=0.12 H=0.60 L=3.05			B=0.12 H=0.60 L=4.95		
Mu=-4.01 As =2.84 As(r)=2.22	Mu=-0.00 As =4.10 As(r)=2.22	Mu=-5.54 As =3.87 As(r)=2.71	Mu=-6.02 As =3.87 As(r)=2.96	Mu=-0.56 As =3.59 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-2.97 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.41 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.79 As =2.84 As(r)=2.22	Mu=2.77 As =2.84 As(r)=2.22	Mu=2.33 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.56	Vu=0.11	Vu=4.35	Vu=-4.19	Vu=-2.68	Vu=-1.45	Vu=-1.20	Vu=1.19	Vu=2.59

VT-136/NE+0.10

B=0.12 H=0.60 L=1.90			B=0.12 H=0.60 L=6.75			B=0.12 H=0.60 L=5.00		
Mu=-0.23 As =2.84 As(r)=2.22	Mu=-0.58 As =2.84 As(r)=2.22	Mu=-2.59 As =2.84 As(r)=2.22	Mu=-3.08 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-3.32 As =2.84 As(r)=2.22	Mu=-2.61 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.53 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.23 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.14 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.26	Vu=1.07	Vu=2.40	Vu=-2.89	Vu=0.09	Vu=2.56	Vu=-2.95	Vu=-0.91	Vu=2.65

VT-137/NE+0.10

B=0.12 H=0.60 L=1.90			B=0.12 H=0.60 L=6.75		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.80 As =2.84 As(r)=2.22	Mu=-3.32 As =2.84 As(r)=2.22	Mu=-4.02 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-5.82 As =2.84 As(r)=2.86
Mu=0.06 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.26 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.25	Vu=1.54	Vu=2.86	Vu=-3.70	Vu=0.13	Vu=4.81

VT-121/NE+0.10

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-1.70 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.73 As =2.84 As(r)=2.30	Mu=-4.66 As =2.84 As(r)=2.27	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.80 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.45 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.82 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.80	Vu=0.51	Vu=4.07	Vu=-4.14	Vu=-0.50	Vu=2.83

CENTRO CRECER BLOQUE 2 EJES 1 A 3**V-201/NE+4.15**

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-4.54 As =11.36 As(r)=7.26	Mu=-1.71 As =18.91 As(r)=7.26	Mu=-8.55 As =11.36 As(r)=7.26	Mu=-9.04 As =11.36 As(r)=7.26	Mu=-1.81 As =18.92 As(r)=7.26	Mu=-5.20 As =11.36 As(r)=7.26
Mu=2.25 As =11.36 As(r)=7.26	Mu=3.73 As =11.36 As(r)=7.26	Mu=2.85 As =11.36 As(r)=7.26	Mu=3.01 As =11.36 As(r)=7.26	Mu=5.60 As =11.36 As(r)=7.26	Mu=1.82 As =11.36 As(r)=7.26
Vu=-6.13	Vu=2.03	Vu=7.84	Vu=-8.78	Vu=-2.95	Vu=7.95
T=0.54			T=-0.46		

V-202/NE+4.15

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-4.77 As =11.36 As(r)=7.26	Mu=-1.81 As =18.91 As(r)=7.26	Mu=-9.03 As =11.36 As(r)=7.26	Mu=-8.94 As =11.36 As(r)=7.26	Mu=-1.79 As =18.92 As(r)=7.26	Mu=-4.72 As =11.36 As(r)=7.26
Mu=1.87 As =11.36 As(r)=7.26	Mu=4.95 As =11.36 As(r)=7.26	Mu=3.01 As =11.36 As(r)=7.26	Mu=2.98 As =11.36 As(r)=7.26	Mu=5.03 As =11.36 As(r)=7.26	Mu=1.86 As =11.36 As(r)=7.26
Vu=-6.86	Vu=1.80	Vu=8.51	Vu=-7.69	Vu=-3.38	Vu=8.05
T=-0.31			T=0.25		

V-203/NE+4.15

B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=5.85		
Mu=-0.99 As =5.68 As(r)=3.63	Mu=-0.83 As =9.46 As(r)=3.63	Mu=-4.17 As =5.68 As(r)=3.63	Mu=-4.36 As =5.68 As(r)=3.63	Mu=-0.87 As =9.46 As(r)=3.63	Mu=-1.06 As =5.68 As(r)=3.63
Mu=-0.83 As =5.68 As(r)=3.63	Mu=2.07 As =5.68 As(r)=3.63	Mu=1.39 As =5.68 As(r)=3.63	Mu=1.45 As =5.68 As(r)=3.63	Mu=2.46 As =5.68 As(r)=3.63	Mu=0.87 As =5.68 As(r)=3.63
Vu=-2.16	Vu=0.72	Vu=3.29	Vu=-3.58	Vu=-0.98	Vu=2.48
T=0.02			T=-0.02		

V-204/NE+4.15

B=0.40 H=0.60 L=0.75			B=0.40 H=0.60 L=7.40		
Mu=-0.02 As =11.36 As(r)=7.26	Mu=-1.05 As =11.36 As(r)=7.26	Mu=-2.28 As =11.36 As(r)=7.26	Mu=-11.87 As =11.36 As(r)=7.26	Mu=-2.37 As =17.03 As(r)=7.26	Mu=-9.07 As =11.36 As(r)=7.26
Mu=0.01 As =11.36 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.46 As =11.36 As(r)=7.26	Mu=3.96 As =11.36 As(r)=7.26	Mu=9.22 As =11.36 As(r)=7.26	Mu=3.03 As =11.36 As(r)=7.26
Vu=2.16	Vu=2.54	Vu=2.92	Vu=-11.59	Vu=-1.15	Vu=10.84
T=-0.99			T=-0.14		

V-205/NE+4.15**CENTRO CRECER BLOQUE 2 EJES 1 A 3**

B=0.40 H=0.60 L=0.75			B=0.40 H=0.60 L=7.40		
Mu=-0.00 As =11.36 As(r)=7.26	Mu=-3.31 As =11.36 As(r)=7.26	Mu=-6.87 As =11.36 As(r)=7.26	Mu=-19.63 As =11.36 As(r)=9.83	Mu=-3.93 As =17.03 As(r)=7.26	Mu=-15.05 As =11.36 As(r)=7.46
Mu=0.02 As =11.36 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=1.37 As =11.36 As(r)=7.26	Mu=6.54 As =11.36 As(r)=7.26	Mu=17.05 As =11.36 As(r)=8.49	Mu=5.02 As =11.36 As(r)=7.26
Vu=6.74	Vu=7.24	Vu=7.74	Vu=-17.75	Vu=-1.66	Vu=16.54
T=-0.75			T=0.09		

V-206/NE+4.15

B=0.40 H=0.60 L=0.75			B=0.40 H=0.60 L=7.40		
Mu=-0.02 As =11.36 As(r)=7.26	Mu=-1.21 As =11.36 As(r)=7.26	Mu=-2.60 As =11.36 As(r)=7.26	Mu=-13.70 As =11.36 As(r)=7.26	Mu=-2.74 As =17.03 As(r)=7.26	Mu=-10.63 As =11.36 As(r)=7.26
Mu=0.01 As =11.36 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.52 As =11.36 As(r)=7.26	Mu=4.57 As =11.36 As(r)=7.26	Mu=10.41 As =11.36 As(r)=7.26	Mu=3.54 As =11.36 As(r)=7.26
Vu=2.48	Vu=2.87	Vu=3.27	Vu=-13.26	Vu=1.50	Vu=12.66
T=1.06			T=0.05		

CENTRO CRECER BLOQUE 2 EJES 4-6**V-207/NE+4.15**

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-5.90 As =11.36 As(r)=7.26	Mu=-2.30 As =18.91 As(r)=7.26	Mu=-11.51 As =11.36 As(r)=7.26	Mu=-11.50 As =11.36 As(r)=7.26	Mu=-2.30 As =18.92 As(r)=7.26	Mu=-5.88 As =11.36 As(r)=7.26
Mu=2.30 As =11.36 As(r)=7.26	Mu=7.00 As =11.36 As(r)=7.26	Mu=3.84 As =11.36 As(r)=7.26	Mu=3.83 As =11.36 As(r)=7.26	Mu=7.01 As =11.36 As(r)=7.26	Mu=2.30 As =11.36 As(r)=7.26
Vu=-9.00	Vu=3.55	Vu=10.49	Vu=-10.47	Vu=-3.53	Vu=8.99
T=0.61			T=-0.61		

V-208/NE+4.15

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-5.30 As =11.36 As(r)=7.26	Mu=-2.25 As =18.91 As(r)=7.26	Mu=-11.26 As =11.36 As(r)=7.26	Mu=-11.25 As =11.36 As(r)=7.26	Mu=-2.25 As =18.92 As(r)=7.26	Mu=-5.30 As =11.36 As(r)=7.26
Mu=2.25 As =11.36 As(r)=7.26	Mu=7.43 As =11.36 As(r)=7.26	Mu=3.75 As =11.36 As(r)=7.26	Mu=3.75 As =11.36 As(r)=7.26	Mu=7.15 As =11.36 As(r)=7.26	Mu=2.25 As =11.36 As(r)=7.26
Vu=-6.97	Vu=0.60	Vu=7.98	Vu=-7.99	Vu=-4.92	Vu=6.97
T=0.59			T=1.65		

V-209/NE+4.15

B=0.40 H=0.60 L=0.90			B=0.40 H=0.60 L=7.40		
Mu=-0.02 As =2.84 As(r)=7.26	Mu=-0.56 As =11.36 As(r)=7.26	Mu=-1.75 As =11.36 As(r)=7.26	Mu=-15.28 As =11.36 As(r)=7.58	Mu=-3.06 As =18.29 As(r)=7.26	Mu=-12.67 As =11.36 As(r)=7.26
Mu=-0.02 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.35 As =11.36 As(r)=7.26	Mu=5.10 As =11.36 As(r)=7.26	Mu=13.80 As =11.36 As(r)=7.26	Mu=4.22 As =11.36 As(r)=7.26
Vu=1.01	Vu=1.34	Vu=2.73	Vu=-15.21	Vu=1.55	Vu=14.86
T=-0.35			T=-0.14		

V-210/NE+4.15

B=0.40 H=0.60 L=0.90			B=0.40 H=0.60 L=7.40		
Mu=-0.00 As =2.84 As(r)=7.26	Mu=-0.89 As =14.98 As(r)=7.26	Mu=-3.92 As =14.98 As(r)=7.26	Mu=-24.77 As =14.98 As(r)=12.54	Mu=-4.95 As =18.29 As(r)=7.26	Mu=-20.59 As =11.36 As(r)=10.33
Mu=0.18 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.78 As =11.36 As(r)=7.26	Mu=8.26 As =11.36 As(r)=7.26	Mu=23.67 As =14.98 As(r)=12.04	Mu=6.86 As =11.36 As(r)=7.26
Vu=2.09	Vu=2.42	Vu=6.56	Vu=-23.40	Vu=-1.82	Vu=23.05
T=-0.10			T=0.02		

V-211/NE+4.15

CENTRO CRECER BLOQUE 2 EJES 4-6

B=0.40 H=0.60 L=0.90			B=0.40 H=0.60 L=7.40		
Mu=-0.02 As =2.84 As(r)=7.26	Mu=-0.56 As =11.36 As(r)=7.26	Mu=-1.75 As =11.36 As(r)=7.26	Mu=-15.35 As =11.36 As(r)=7.62	Mu=-3.07 As =18.29 As(r)=7.26	Mu=-12.72 As =11.36 As(r)=7.26
Mu=0.02 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.35 As =11.36 As(r)=7.26	Mu=5.12 As =11.36 As(r)=7.26	Mu=13.80 As =11.36 As(r)=7.26	Mu=4.24 As =11.36 As(r)=7.26
Vu=1.01	Vu=1.34	Vu=2.73	Vu=-15.26	Vu=1.58	Vu=14.91
T=0.35			T=0.14		

CENTRO CRECER BLOQUE 2 EJES 7-9**V-212/NE+4.15**

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-5.90 As =11.36 As(r)=7.26	Mu=-2.30 As =18.91 As(r)=7.26	Mu=-11.51 As =11.36 As(r)=7.26	Mu=-11.50 As =11.36 As(r)=7.26	Mu=-2.30 As =18.92 As(r)=7.26	Mu=-5.88 As =11.36 As(r)=7.26
Mu=2.30 As =11.36 As(r)=7.26	Mu=7.00 As =11.36 As(r)=7.26	Mu=3.84 As =11.36 As(r)=7.26	Mu=3.83 As =11.36 As(r)=7.26	Mu=7.01 As =11.36 As(r)=7.26	Mu=2.30 As =11.36 As(r)=7.26
Vu=-9.00	Vu=3.55	Vu=10.49	Vu=-10.47	Vu=-3.53	Vu=8.99
T=0.61			T=-0.61		

V-213/NE+4.15

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-5.30 As =11.36 As(r)=7.26	Mu=-2.25 As =18.91 As(r)=7.26	Mu=-11.26 As =11.36 As(r)=7.26	Mu=-11.25 As =11.36 As(r)=7.26	Mu=-2.25 As =18.92 As(r)=7.26	Mu=-5.30 As =11.36 As(r)=7.26
Mu=2.25 As =11.36 As(r)=7.26	Mu=7.43 As =11.36 As(r)=7.26	Mu=3.75 As =11.36 As(r)=7.26	Mu=3.75 As =11.36 As(r)=7.26	Mu=7.15 As =11.36 As(r)=7.26	Mu=2.25 As =11.36 As(r)=7.26
Vu=-6.97	Vu=0.60	Vu=7.98	Vu=-7.99	Vu=-4.92	Vu=6.97
T=0.59			T=1.65		

V-214/NE+4.15

B=0.40 H=0.60 L=0.90			B=0.40 H=0.60 L=7.40		
Mu=-0.02 As =2.84 As(r)=7.26	Mu=-0.56 As =11.36 As(r)=7.26	Mu=-1.75 As =11.36 As(r)=7.26	Mu=-15.28 As =11.36 As(r)=7.58	Mu=-3.06 As =18.29 As(r)=7.26	Mu=-12.67 As =11.36 As(r)=7.26
Mu=0.02 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.35 As =11.36 As(r)=7.26	Mu=5.10 As =11.36 As(r)=7.26	Mu=13.80 As =11.36 As(r)=7.26	Mu=4.22 As =11.36 As(r)=7.26
Vu=1.01	Vu=1.34	Vu=2.73	Vu=-15.21	Vu=1.55	Vu=14.86
T=-0.35			T=-0.14		

V-215/NE+4.15

B=0.40 H=0.60 L=0.90			B=0.40 H=0.60 L=7.40		
Mu=-0.00 As =2.84 As(r)=7.26	Mu=-0.89 As =14.98 As(r)=7.26	Mu=-3.92 As =14.98 As(r)=7.26	Mu=-24.77 As =14.98 As(r)=12.54	Mu=-4.95 As =18.29 As(r)=7.26	Mu=-20.59 As =11.36 As(r)=10.33
Mu=0.18 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.78 As =11.36 As(r)=7.26	Mu=8.26 As =11.36 As(r)=7.26	Mu=23.67 As =14.98 As(r)=12.04	Mu=6.86 As =11.36 As(r)=7.26
Vu=2.09	Vu=2.42	Vu=6.56	Vu=-23.40	Vu=-1.82	Vu=23.05
T=-0.10			T=0.02		

V-216/NE+4.15

CENTRO CRECER BLOQUE 2 EJES 7-9

B=0.40 H=0.60 L=0.90			B=0.40 H=0.60 L=7.40		
Mu=-0.02 As =2.84 As(r)=7.26	Mu=-0.56 As =11.36 As(r)=7.26	Mu=-1.75 As =11.36 As(r)=7.26	Mu=-15.35 As =11.36 As(r)=7.62	Mu=-3.07 As =18.29 As(r)=7.26	Mu=-12.72 As =11.36 As(r)=7.26
Mu=0.02 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.35 As =11.36 As(r)=7.26	Mu=5.12 As =11.36 As(r)=7.26	Mu=13.80 As =11.36 As(r)=7.26	Mu=4.24 As =11.36 As(r)=7.26
Vu=1.01	Vu=1.34	Vu=2.73	Vu=-15.26	Vu=1.58	Vu=14.91
T=0.35			T=0.14		

CENTRO CRECER BLOQUE 3**V-222/NE+4.25/4.15**

B=0.40 H=0.70 L=1.80			B=0.40 H=0.70 L=3.40			B=0.40 H=0.70 L=0.55		
Mu=-0.00 As =11.36 As(r)=8.58	Mu=-7.39 As =14.05 As(r)=8.58	Mu=-17.51 As =15.03 As(r)=8.58	Mu=-33.07 As =15.03 As(r)=14.14	Mu=-6.61 As =19.56 As(r)=8.58	Mu=-25.69 As =11.36 As(r)=10.86	Mu=-24.55 As =22.72 As(r)=10.35	Mu=-16.00 As =22.72 As(r)=8.58	Mu=-8.00 As =22.72 As(r)=8.58
Mu=0.32 As =11.36 As(r)=8.58	Mu=0.00 As =11.36 As(r)=8.58	Mu=3.50 As =11.36 As(r)=8.58	Mu=15.83 As =11.36 As(r)=8.58	Mu=6.61 As =11.36 As(r)=8.58	Mu=15.18 As =11.36 As(r)=8.58	Mu=8.18 As =11.36 As(r)=8.58	Mu=5.31 As =11.36 As(r)=8.58	Mu=8.29 As =11.36 As(r)=8.58
Vu=9.31	Vu=10.46	Vu=13.32	Vu=-36.38	Vu=-24.94	Vu=32.18	Vu=-28.09	Vu=-27.35	Vu=-26.91
T=3.15			T=0.48			T=6.53		

B=0.40 H=0.60 L=5.05		
Mu=-8.16 As =11.36 As(r)=7.26	Mu=-2.36 As =11.36 As(r)=7.26	Mu=-11.78 As =11.36 As(r)=7.26
Mu=8.22 As =11.36 As(r)=7.26	Mu=9.26 As =11.36 As(r)=7.26	Mu=7.68 As =11.36 As(r)=7.26
Vu=-12.09	Vu=-6.73	Vu=14.14
T=-1.21		

V-223/NE+4.25/4.15

B=0.40 H=0.70 L=5.85			B=0.40 H=0.70 L=0.50			B=0.40 H=0.60 L=5.05		
Mu=-18.63 As =11.36 As(r)=8.58	Mu=-5.68 As =18.91 As(r)=8.58	Mu=-28.42 As =13.74 As(r)=12.06	Mu=-26.35 As =13.74 As(r)=11.14	Mu=-17.32 As =14.37 As(r)=8.58	Mu=-8.62 As =20.68 As(r)=8.58	Mu=-8.65 As =11.36 As(r)=7.26	Mu=-2.27 As =11.36 As(r)=7.26	Mu=-11.35 As =11.36 As(r)=7.26
Mu=13.58 As =11.36 As(r)=8.58	Mu=11.08 As =11.36 As(r)=8.58	Mu=9.47 As =11.36 As(r)=8.58	Mu=8.78 As =11.36 As(r)=8.58	Mu=5.27 As =11.36 As(r)=8.58	Mu=5.27 As =11.36 As(r)=8.58	Mu=4.35 As =11.36 As(r)=7.26	Mu=10.46 As =11.36 As(r)=7.26	Mu=8.56 As =11.36 As(r)=7.26
Vu=-20.94	Vu=11.95	Vu=24.20	Vu=-26.02	Vu=-25.11	Vu=-24.73	Vu=-13.34	Vu=-6.63	Vu=14.59
T=0.75			T=-12.73			T=1.60		

V-224/NE+4.15

B=0.20 H=0.60 L=5.85			B=0.20 H=0.60 L=0.50			B=0.20 H=0.60 L=5.05		
Mu=-3.09 As =5.68 As(r)=3.63	Mu=-1.62 As =9.46 As(r)=3.63	Mu=-8.11 As =8.03 As(r)=4.03	Mu=-7.65 As =8.03 As(r)=3.79	Mu=-1.53 As =8.03 As(r)=3.63	Mu=-1.53 As =8.03 As(r)=3.63	Mu=-1.15 As =8.03 As(r)=3.63	Mu=-1.15 As =5.68 As(r)=3.63	Mu=-2.31 As =5.68 As(r)=3.63
Mu=1.62 As =5.68 As(r)=3.63	Mu=5.09 As =5.68 As(r)=3.63	Mu=2.70 As =5.68 As(r)=3.63	Mu=2.55 As =5.68 As(r)=3.63	Mu=1.71 As =5.68 As(r)=3.63	Mu=5.46 As =5.68 As(r)=3.63	Mu=5.46 As =5.68 As(r)=3.63	Mu=5.08 As =5.68 As(r)=3.63	Mu=1.22 As =5.68 As(r)=3.63
Vu=-3.35	Vu=0.06	Vu=5.09	Vu=-4.87	Vu=-3.71	Vu=-1.72	Vu=-1.72	Vu=1.46	Vu=3.62
T=0.32			T=0.06			T=0.06		

V-226/NE+4.25/4.15

CENTRO CRECER BLOQUE 3

B=0.40 H=0.60 L=0.83			B=0.40 H=0.60 L=0.87			B=0.40 H=0.70 L=6.94		
Mu=-0.00 As =3.28 As(r)=7.26	Mu=-0.00 As =19.22 As(r)=7.26	Mu=-0.00 As =19.22 As(r)=7.26	Mu=-2.38 As =19.22 As(r)=7.26	Mu=-3.70 As =19.22 As(r)=7.26	Mu=-11.90 As =19.22 As(r)=7.26	Mu=-27.71 As =23.34 As(r)=11.74	Mu=-5.54 As =21.82 As(r)=8.58	Mu=-24.05 As =19.22 As(r)=10.13
Mu=0.00 As =3.87 As(r)=7.26	Mu=0.20 As =15.48 As(r)=7.26	Mu=0.00 As =15.48 As(r)=7.26	Mu=2.38 As =15.48 As(r)=7.26	Mu=2.38 As =15.48 As(r)=7.26	Mu=3.97 As =15.48 As(r)=7.26	Mu=9.24 As =15.48 As(r)=8.58	Mu=15.91 As =15.48 As(r)=8.58	Mu=8.02 As =11.36 As(r)=8.58
Vu=-0.59	Vu=0.00	Vu=0.59	Vu=1.46	Vu=8.11	Vu=9.16	Vu=-23.36	Vu=-8.48	Vu=25.07
T=0.00			T=-0.47			T=-1.23		

B=0.40 H=0.70 L=4.90			B=0.40 H=0.70 L=7.05			B=0.40 H=0.70 L=3.05		
Mu=-20.71 As =19.22 As(r)=8.69	Mu=-4.17 As =15.77 As(r)=8.58	Mu=-20.86 As =11.36 As(r)=8.75	Mu=-23.29 As =11.36 As(r)=9.81	Mu=-5.75 As =14.51 As(r)=8.58	Mu=-28.73 As =18.50 As(r)=12.20	Mu=-32.97 As =18.50 As(r)=14.09	Mu=-6.59 As =18.92 As(r)=8.58	Mu=-6.59 As =11.36 As(r)=8.58
Mu=6.90 As =11.36 As(r)=8.58	Mu=4.54 As =15.48 As(r)=8.58	Mu=6.95 As =11.36 As(r)=8.58	Mu=7.76 As =11.36 As(r)=8.58	Mu=12.89 As =15.48 As(r)=8.58	Mu=9.58 As =11.36 As(r)=8.58	Mu=10.99 As =11.36 As(r)=8.58	Mu=6.59 As =15.48 As(r)=8.58	Mu=16.35 As =15.48 As(r)=8.58
Vu=-20.34	Vu=-6.77	Vu=19.91	Vu=-20.97	Vu=-4.79	Vu=23.12	Vu=-24.25	Vu=-17.32	Vu=-15.08
T=-0.47			T=-0.50			T=-1.13		

B=0.40 H=0.70 L=4.70			B=0.40 H=0.70 L=0.37		
Mu=-4.93 As =11.36 As(r)=8.58	Mu=-4.93 As =15.77 As(r)=8.58	Mu=-24.63 As =11.36 As(r)=10.39	Mu=-7.44 As =11.36 As(r)=8.58	Mu=-3.35 As =11.36 As(r)=8.58	Mu=-0.00 As =11.36 As(r)=8.58
Mu=16.24 As =15.48 As(r)=8.58	Mu=14.62 As =15.48 As(r)=8.58	Mu=8.21 As =15.48 As(r)=8.58	Mu=1.49 As =15.48 As(r)=8.58	Mu=0.04 As =15.48 As(r)=8.58	Mu=0.67 As =15.48 As(r)=8.58
Vu=-5.62	Vu=9.85	Vu=19.57	Vu=-14.04	Vu=-12.75	Vu=-11.87
T=0.91			T=3.06		

V-227/NE+4.25/4.15

B=0.40 H=0.60 L=0.83			B=0.40 H=0.60 L=0.87			B=0.40 H=0.70 L=6.65		
Mu=-0.00 As =3.08 As(r)=7.26	Mu=-4.86 As =14.98 As(r)=7.26	Mu=-25.07 As =14.98 As(r)=12.71	Mu=-31.38 As =14.98 As(r)=16.14	Mu=-6.28 As =14.98 As(r)=7.26	Mu=-20.55 As =14.98 As(r)=10.31	Mu=-19.15 As =19.10 As(r)=8.58	Mu=-3.83 As =21.17 As(r)=8.58	Mu=-18.98 As =11.36 As(r)=8.58
Mu=0.22 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=5.01 As =11.36 As(r)=7.26	Mu=10.46 As =11.36 As(r)=7.26	Mu=13.01 As =11.36 As(r)=7.26	Mu=6.85 As =11.36 As(r)=7.26	Mu=6.38 As =11.36 As(r)=8.58	Mu=3.94 As =11.36 As(r)=8.58	Mu=6.33 As =11.36 As(r)=8.58
Vu=0.32	Vu=20.63	Vu=21.92	Vu=-24.15	Vu=-8.80	Vu=19.93	Vu=-17.35	Vu=-6.52	Vu=17.23
T=0.14			T=0.41			T=-0.72		

CENTRO CRECER BLOQUE 3

B=0.40 H=0.70 L=4.90			B=0.40 H=0.70 L=7.05			B=0.40 H=0.70 L=3.05		
Mu=-21.42 As =11.36 As(r)=8.99	Mu=-5.03 As =18.29 As(r)=8.58	Mu=-25.13 As =19.22 As(r)=10.61	Mu=-26.08 As =19.22 As(r)=11.03	Mu=-5.22 As =18.92 As(r)=8.58	Mu=-5.22 As =11.36 As(r)=8.58	Mu=-2.22 As =11.36 As(r)=8.58	Mu=-2.22 As =15.77 As(r)=8.58	Mu=-2.22 As =11.36 As(r)=8.58
Mu=7.14 As =11.36 As(r)=8.58	Mu=12.12 As =11.36 As(r)=8.58	Mu=8.38 As =11.36 As(r)=8.58	Mu=8.69 As =11.36 As(r)=8.58	Mu=5.22 As =11.36 As(r)=8.58	Mu=10.66 As =11.36 As(r)=8.58	Mu=10.70 As =11.36 As(r)=8.58	Mu=10.70 As =11.36 As(r)=8.58	Mu=11.04 As =11.36 As(r)=8.58
Vu=-19.02	Vu=-4.69	Vu=20.13	Vu=-19.31	Vu=-13.18	Vu=-9.09	Vu=-5.97	Vu=6.70	Vu=8.64
T=0.37			T=-1.40			T=0.83		

B=0.40 H=0.70 L=4.70			B=0.40 H=0.70 L=0.37		
Mu=-3.62 As =11.36 As(r)=8.58	Mu=-8.44 As =11.36 As(r)=8.58	Mu=-18.11 As =11.36 As(r)=8.58	Mu=-3.31 As =11.36 As(r)=8.58	Mu=-1.32 As =11.36 As(r)=8.58	Mu=-0.23 As =11.36 As(r)=8.58
Mu=11.04 As =11.36 As(r)=8.58	Mu=9.62 As =11.36 As(r)=8.58	Mu=7.05 As =11.36 As(r)=8.58	Mu=1.24 As =11.36 As(r)=8.58	Mu=0.68 As =11.36 As(r)=8.58	Mu=0.56 As =11.36 As(r)=8.58
Vu=8.64	Vu=10.63	Vu=12.31	Vu=-8.50	Vu=-7.71	Vu=-7.24
T=0.83			T=-2.89		

V-228/NE+4.25/4.15

B=0.30 H=0.70 L=0.87			B=0.30 H=0.70 L=6.85			B=0.20 H=0.70 L=4.90		
Mu=-0.00 As =11.61 As(r)=6.44	Mu=-0.00 As =11.61 As(r)=6.44	Mu=-0.00 As =11.61 As(r)=6.44	Mu=-14.28 As =20.13 As(r)=6.44	Mu=-2.98 As =8.52 As(r)=6.44	Mu=-14.88 As =10.90 As(r)=6.44	Mu=-8.93 As =8.06 As(r)=4.29	Mu=-1.79 As =9.46 As(r)=4.29	Mu=-4.54 As =5.68 As(r)=4.29
Mu=0.00 As =11.61 As(r)=6.44	Mu=0.24 As =11.61 As(r)=6.44	Mu=0.00 As =11.61 As(r)=6.44	Mu=4.76 As =11.61 As(r)=6.44	Mu=13.20 As =11.61 As(r)=6.44	Mu=4.96 As =8.52 As(r)=6.44	Mu=2.98 As =5.68 As(r)=4.29	Mu=1.79 As =11.61 As(r)=4.29	Mu=1.79 As =5.68 As(r)=4.29
Vu=-0.69	Vu=0.00	Vu=0.69	Vu=-13.03	Vu=-2.25	Vu=13.96	Vu=-4.46	Vu=-1.69	Vu=2.88
T=0.00			T=0.04			T=-0.26		

B=0.20 H=0.70 L=7.05			B=0.20 H=0.70 L=3.05			B=0.20 H=0.70 L=4.70		
Mu=-4.55 As =5.68 As(r)=4.29	Mu=-1.41 As =9.46 As(r)=4.29	Mu=-7.05 As =5.68 As(r)=4.29	Mu=-8.59 As =5.68 As(r)=4.29	Mu=-4.22 As =7.89 As(r)=4.29	Mu=-1.72 As =5.68 As(r)=4.29	Mu=-1.23 As =5.68 As(r)=4.29	Mu=-1.23 As =5.68 As(r)=4.29	Mu=-6.15 As =5.68 As(r)=4.29
Mu=1.52 As =5.68 As(r)=4.29	Mu=3.42 As =11.61 As(r)=4.29	Mu=2.35 As =5.68 As(r)=4.29	Mu=2.86 As =5.68 As(r)=4.29	Mu=1.72 As =11.61 As(r)=4.29	Mu=1.72 As =5.68 As(r)=4.29	Mu=1.87 As =5.68 As(r)=4.29	Mu=5.33 As =11.61 As(r)=4.29	Mu=2.05 As =5.68 As(r)=4.29
Vu=-4.12	Vu=0.56	Vu=4.83	Vu=-5.62	Vu=-4.84	Vu=-3.57	Vu=-3.57	Vu=2.18	Vu=5.11
T=0.07			T=-0.25			T=-0.25		

CENTRO CRECER BLOQUE 3

B=0.20 H=0.70 L=0.57		
Mu=-2.75 As =5.68 As(r)=4.29	Mu=-1.43 As =5.68 As(r)=4.29	Mu=-0.52 As =5.68 As(r)=4.29
Mu=0.55 As =5.68 As(r)=4.29	Mu=0.31 As =11.61 As(r)=4.29	Mu=0.20 As =5.68 As(r)=4.29
Vu=-4.42	Vu=-4.14	Vu=-3.69
T=-0.54		

V-229/NE+4.15

B=0.40 H=0.60 L=0.83			B=0.40 H=0.60 L=0.87			B=0.40 H=0.60 L=6.45		
Mu=-0.02 As =2.84 As(r)=7.26	Mu=-0.93 As =11.36 As(r)=7.26	Mu=-2.84 As =11.36 As(r)=7.26	Mu=-3.01 As =11.36 As(r)=7.26	Mu=-7.46 As =13.71 As(r)=7.26	Mu=-11.78 As =13.71 As(r)=7.26	Mu=-22.62 As =13.71 As(r)=11.40	Mu=-4.52 As =18.29 As(r)=7.26	Mu=-16.29 As =11.36 As(r)=8.10
Mu=0.02 As =2.84 As(r)=7.26	Mu=0.00 As =11.36 As(r)=7.26	Mu=0.57 As =11.36 As(r)=7.26	Mu=2.36 As =11.36 As(r)=7.26	Mu=2.36 As =11.36 As(r)=7.26	Mu=3.93 As =11.36 As(r)=7.26	Mu=7.54 As =11.36 As(r)=7.26	Mu=11.23 As =11.36 As(r)=7.26	Mu=7.13 As =11.36 As(r)=7.26
Vu=1.51	Vu=2.28	Vu=5.51	Vu=5.99	Vu=8.46	Vu=9.06	Vu=-18.78	Vu=-7.62	Vu=16.69
T=0.42			T=0.42			T=0.31		

V-217/NE+4.25

B=0.20 H=0.70 L=1.80			B=0.20 H=0.70 L=3.80			B=0.20 H=0.70 L=0.57		
Mu=-0.82 As =5.68 As(r)=4.29	Mu=-2.48 As =5.68 As(r)=4.29	Mu=-5.89 As =5.68 As(r)=4.29	Mu=-8.69 As =5.68 As(r)=4.29	Mu=-3.96 As =5.68 As(r)=4.29	Mu=-1.74 As =5.68 As(r)=4.29	Mu=-8.69 As =5.68 As(r)=4.29	Mu=-3.96 As =5.68 As(r)=4.29	Mu=-1.74 As =5.68 As(r)=4.29
Mu=0.05 As =5.68 As(r)=4.29	Mu=0.28 As =5.68 As(r)=4.29	Mu=1.18 As =5.68 As(r)=4.29	Mu=2.90 As =5.68 As(r)=4.29	Mu=2.90 As =5.68 As(r)=4.29	Mu=1.74 As =5.68 As(r)=4.29	Mu=2.90 As =5.68 As(r)=4.29	Mu=2.90 As =5.68 As(r)=4.29	Mu=1.74 As =5.68 As(r)=4.29
Vu=3.26	Vu=4.03	Vu=5.17	Vu=-7.10	Vu=-4.90	Vu=3.69	Vu=-7.10	Vu=-4.90	Vu=3.69
T=-0.68			T=-0.07			T=-0.07		

V-218/NE+4.25

B=0.40 H=0.70 L=1.80			B=0.40 H=0.70 L=3.40			B=0.40 H=0.70 L=0.57		
Mu=-0.08 As =11.36 As(r)=8.58	Mu=-6.38 As =11.36 As(r)=8.58	Mu=-15.08 As =11.36 As(r)=8.58	Mu=-23.07 As =11.36 As(r)=9.71	Mu=-4.61 As =11.36 As(r)=8.58	Mu=-14.62 As =11.36 As(r)=8.58	Mu=-5.24 As =11.36 As(r)=8.58	Mu=-2.49 As =11.36 As(r)=8.58	Mu=-0.25 As =11.36 As(r)=8.58
Mu=0.81 As =11.36 As(r)=8.58	Mu=0.00 As =11.36 As(r)=8.58	Mu=3.02 As =11.36 As(r)=8.58	Mu=10.51 As =11.36 As(r)=8.58	Mu=4.61 As =11.36 As(r)=8.58	Mu=16.82 As =11.36 As(r)=8.58	Mu=1.05 As =11.36 As(r)=8.58	Mu=0.00 As =11.36 As(r)=8.58	Mu=0.67 As =11.36 As(r)=8.58
Vu=10.43	Vu=11.75	Vu=12.32	Vu=-22.05	Vu=-19.48	Vu=17.17	Vu=-10.18	Vu=-9.48	Vu=-9.07
T=-4.22			T=-0.55			T=3.82		

V-219/NE+4.25

CENTRO CRECER BLOQUE 3

B=0.15 H=0.70 L=1.80			B=0.15 H=0.70 L=3.80			B=0.15 H=0.70 L=0.57		
Mu=-0.33 As =3.98 As(r)=3.22	Mu=-0.71 As =3.98 As(r)=3.22	Mu=-6.52 As =3.98 As(r)=3.22	Mu=-6.84 As =3.98 As(r)=3.22	Mu=-1.37 As =3.98 As(r)=3.22	Mu=-3.98 As =3.98 As(r)=3.22	Mu=-1.87 As =3.98 As(r)=3.22	Mu=-0.93 As =3.98 As(r)=3.22	Mu=-0.36 As =3.98 As(r)=3.22
Mu=0.00 As =3.98 As(r)=3.22	Mu=0.33 As =3.98 As(r)=3.22	Mu=1.30 As =3.98 As(r)=3.22	Mu=2.28 As =3.98 As(r)=3.22	Mu=1.37 As =3.98 As(r)=3.22	Mu=1.37 As =3.98 As(r)=3.22	Mu=0.37 As =3.98 As(r)=3.22	Mu=0.09 As =3.98 As(r)=3.22	Mu=0.11 As =3.98 As(r)=3.22
Vu=-1.36	Vu=1.13	Vu=6.98	Vu=-4.73	Vu=-4.08	Vu=5.21	Vu=-2.51	Vu=-2.19	Vu=-1.50
T=-0.12			T=0.04			T=-0.09		

V-220/NE+4.25

B=0.40 H=0.70 L=1.80			B=0.40 H=0.70 L=3.40			B=0.40 H=0.70 L=0.57		
Mu=-0.00 As =11.36 As(r)=8.58	Mu=-12.58 As =16.16 As(r)=8.58	Mu=-27.76 As =19.22 As(r)=11.77	Mu=-29.67 As =19.22 As(r)=12.61	Mu=-5.93 As =11.36 As(r)=8.58	Mu=-17.45 As =11.36 As(r)=8.58	Mu=-6.91 As =11.36 As(r)=8.58	Mu=-3.28 As =11.36 As(r)=8.58	Mu=-0.05 As =11.36 As(r)=8.58
Mu=0.39 As =11.36 As(r)=8.58	Mu=0.00 As =11.36 As(r)=8.58	Mu=5.55 As =11.36 As(r)=8.58	Mu=9.89 As =11.36 As(r)=8.58	Mu=5.93 As =11.36 As(r)=8.58	Mu=14.88 As =11.36 As(r)=8.58	Mu=1.38 As =11.36 As(r)=8.58	Mu=0.00 As =11.36 As(r)=8.58	Mu=0.26 As =11.36 As(r)=8.58
Vu=14.60	Vu=15.92	Vu=18.89	Vu=-29.79	Vu=-23.02	Vu=23.65	Vu=-10.79	Vu=-9.99	Vu=-9.58
T=2.06			T=0.39			T=-3.17		

V-221/NE+4.25

B=0.40 H=0.70 L=1.80			B=0.40 H=0.70 L=3.40			B=0.40 H=0.70 L=0.57		
Mu=-0.04 As =11.36 As(r)=8.58	Mu=-10.16 As =14.56 As(r)=8.58	Mu=-23.30 As =16.60 As(r)=9.81	Mu=-31.54 As =16.60 As(r)=13.45	Mu=-6.31 As =11.36 As(r)=8.58	Mu=-20.23 As =11.36 As(r)=8.58	Mu=-5.08 As =11.36 As(r)=8.58	Mu=-2.48 As =11.36 As(r)=8.58	Mu=-0.32 As =11.36 As(r)=8.58
Mu=0.05 As =11.36 As(r)=8.58	Mu=0.00 As =11.36 As(r)=8.58	Mu=4.66 As =11.36 As(r)=8.58	Mu=12.24 As =11.36 As(r)=8.58	Mu=6.31 As =11.36 As(r)=8.58	Mu=17.43 As =11.36 As(r)=8.58	Mu=1.02 As =11.36 As(r)=8.58	Mu=0.00 As =11.36 As(r)=8.58	Mu=0.08 As =11.36 As(r)=8.58
Vu=11.31	Vu=12.62	Vu=16.70	Vu=-35.00	Vu=-24.74	Vu=28.08	Vu=-7.81	Vu=-6.99	Vu=-6.53
T=2.03			T=-0.12			T=-2.43		

V-225/NE+4.25

B=0.20 H=0.70 L=6.65			B=0.20 H=0.70 L=4.90			B=0.20 H=0.70 L=7.05		
Mu=-10.44 As =7.74 As(r)=4.38	Mu=-2.09 As =10.80 As(r)=4.29	Mu=-4.69 As =5.68 As(r)=4.29	Mu=-4.90 As =5.68 As(r)=4.29	Mu=-1.34 As =9.15 As(r)=4.29	Mu=-6.72 As =5.68 As(r)=4.29	Mu=-7.04 As =5.68 As(r)=4.29	Mu=-2.02 As =9.46 As(r)=4.29	Mu=-10.09 As =8.06 As(r)=4.29
Mu=3.48 As =5.68 As(r)=4.29	Mu=4.68 As =5.68 As(r)=4.29	Mu=2.09 As =5.68 As(r)=4.29	Mu=1.92 As =5.68 As(r)=4.29	Mu=1.76 As =5.68 As(r)=4.29	Mu=2.24 As =5.68 As(r)=4.29	Mu=2.35 As =5.68 As(r)=4.29	Mu=4.74 As =5.68 As(r)=4.29	Mu=3.36 As =5.68 As(r)=4.29
Vu=-5.71	Vu=-2.62	Vu=6.25	Vu=-4.86	Vu=0.69	Vu=5.63	Vu=-6.35	Vu=-0.22	Vu=7.31
T=-0.37			T=-0.14			T=-0.12		

CENTRO CRECER BLOQUE 3

B=0.20 H=0.70 L=3.05			B=0.20 H=0.70 L=4.70			B=0.20 H=0.70 L=0.57		
Mu=-10.26 As =8.06 As(r)=4.30	Mu=-2.05 As =7.89 As(r)=4.29	Mu=-2.05 As =5.68 As(r)=4.29	Mu=-1.31 As =5.68 As(r)=4.29	Mu=-1.31 As =5.68 As(r)=4.29	Mu=-5.94 As =5.68 As(r)=4.29	Mu=-1.83 As =5.68 As(r)=4.29	Mu=-1.10 As =5.68 As(r)=4.29	Mu=-0.68 As =5.68 As(r)=4.29
Mu=3.42 As =5.68 As(r)=4.29	Mu=2.05 As =5.68 As(r)=4.29	Mu=4.91 As =5.68 As(r)=4.29	Mu=4.98 As =5.68 As(r)=4.29	Mu=6.42 As =5.68 As(r)=4.29	Mu=1.98 As =5.68 As(r)=4.29	Mu=1.34 As =5.68 As(r)=4.29	Mu=0.71 As =5.68 As(r)=4.29	Mu=0.00 As =5.68 As(r)=4.29
Vu=-7.84	Vu=-4.48	Vu=-2.38	Vu=-2.14	Vu=1.80	Vu=7.54	Vu=-2.96	Vu=2.75	Vu=3.26
T=0.36			T=0.06			T=0.82		

CENTRO CRECER BLOQUE 1**V-301/NE+4.55**

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-6.17 As =11.36 As(r)=7.26	Mu=-2.39 As =18.91 As(r)=7.26	Mu=-11.96 As =11.36 As(r)=7.26	Mu=-10.35 As =11.36 As(r)=7.26	Mu=-2.07 As =19.55 As(r)=7.26	Mu=-7.05 As =11.36 As(r)=7.26	Mu=-7.27 As =11.36 As(r)=7.26	Mu=-1.78 As =19.56 As(r)=7.26	Mu=-8.89 As =11.36 As(r)=7.26
Mu=2.39 As =11.36 As(r)=7.26	Mu=8.77 As =11.36 As(r)=7.26	Mu=3.99 As =11.36 As(r)=7.26	Mu=3.45 As =11.36 As(r)=7.26	Mu=2.96 As =11.36 As(r)=7.26	Mu=3.05 As =11.36 As(r)=7.26	Mu=2.42 As =11.36 As(r)=7.26	Mu=3.96 As =11.36 As(r)=7.26	Mu=2.96 As =11.36 As(r)=7.26
Vu=-10.46	Vu=2.50	Vu=12.82	Vu=-9.14	Vu=-1.49	Vu=6.71	Vu=-7.09	Vu=-1.43	Vu=9.62
T=0.57			T=0.22			T=-0.24		

B=0.40 H=0.60 L=5.75			B=0.40 H=0.60 L=5.75		
Mu=-9.11 As =11.36 As(r)=7.26	Mu=-1.85 As =17.03 As(r)=7.26	Mu=-9.23 As =11.36 As(r)=7.26	Mu=-10.25 As =11.36 As(r)=7.26	Mu=-2.05 As =18.92 As(r)=7.26	Mu=-5.61 As =11.36 As(r)=7.26
Mu=3.04 As =11.36 As(r)=7.26	Mu=4.19 As =11.36 As(r)=7.26	Mu=3.08 As =11.36 As(r)=7.26	Mu=3.42 As =11.36 As(r)=7.26	Mu=6.03 As =11.36 As(r)=7.26	Mu=2.09 As =11.36 As(r)=7.26
Vu=-10.45	Vu=2.20	Vu=8.11	Vu=-9.44	Vu=-3.54	Vu=9.81
T=0.10			T=-0.30		

V-302/NE+4.55

B=0.40 H=0.60 L=5.85			B=0.70 H=0.60 L=1.30			B=0.70 H=0.60 L=4.25		
Mu=-6.65 As =11.36 As(r)=7.26	Mu=-2.82 As =18.91 As(r)=7.26	Mu=-14.12 As =11.36 As(r)=7.26	Mu=-13.11 As =19.88 As(r)=15.19	Mu=-2.62 As =19.88 As(r)=12.70	Mu=-2.62 As =19.88 As(r)=12.70	Mu=-1.97 As =19.88 As(r)=12.70	Mu=-1.97 As =29.81 As(r)=12.70	Mu=-9.83 As =19.88 As(r)=13.57
Mu=2.82 As =11.36 As(r)=7.26	Mu=10.01 As =11.36 As(r)=7.26	Mu=4.71 As =11.36 As(r)=7.26	Mu=4.37 As =19.88 As(r)=12.70	Mu=3.16 As =11.36 As(r)=12.70	Mu=4.84 As =19.88 As(r)=12.70	Mu=4.84 As =19.88 As(r)=12.70	Mu=3.41 As =11.36 As(r)=12.70	Mu=3.28 As =19.88 As(r)=12.70
Vu=-10.61	Vu=2.58	Vu=13.52	Vu=-13.34	Vu=-9.90	Vu=1.99	Vu=1.99	Vu=5.66	Vu=9.41
T=-0.26			T=3.94			T=3.94		

B=0.70 H=0.60 L=5.75			B=0.40 H=0.60 L=5.75			B=0.40 H=0.60 L=5.65		
Mu=-9.60 As =19.88 As(r)=12.70	Mu=-2.02 As =34.84 As(r)=12.70	Mu=-10.08 As =19.88 As(r)=12.70	Mu=-9.93 As =11.36 As(r)=7.26	Mu=-2.15 As =11.36 As(r)=7.26	Mu=-10.73 As =11.36 As(r)=7.26	Mu=-12.05 As =11.36 As(r)=7.26	Mu=-2.41 As =11.36 As(r)=7.26	Mu=-8.06 As =11.36 As(r)=7.26
Mu=3.20 As =19.88 As(r)=12.70	Mu=4.85 As =11.36 As(r)=12.70	Mu=3.36 As =19.88 As(r)=12.70	Mu=3.31 As =11.36 As(r)=7.26	Mu=6.45 As =11.36 As(r)=7.26	Mu=3.58 As =11.36 As(r)=7.26	Mu=4.02 As =11.36 As(r)=7.26	Mu=7.70 As =11.36 As(r)=7.26	Mu=2.69 As =11.36 As(r)=7.26
Vu=-9.42	Vu=1.69	Vu=9.50	Vu=-11.09	Vu=2.03	Vu=9.60	Vu=-11.37	Vu=-4.11	Vu=11.65
T=1.04			T=0.49			T=-0.08		

V-303/NE+4.55

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=1.30		
Mu=-5.18 As =11.36 As(r)=7.26	Mu=-1.96 As =11.36 As(r)=7.26	Mu=-9.82 As =11.36 As(r)=7.26	Mu=-6.09 As =11.36 As(r)=7.26	Mu=-2.86 As =11.36 As(r)=7.26	Mu=-0.08 As =11.36 As(r)=7.26
Mu=1.96 As =11.36 As(r)=7.26	Mu=6.32 As =11.36 As(r)=7.26	Mu=3.27 As =11.36 As(r)=7.26	Mu=1.22 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
Vu=-8.00	Vu=2.75	Vu=9.48	Vu=-5.71	Vu=-5.00	Vu=-4.47
T=-0.20			T=-3.06		

V-304/NE+4.55**CENTRO CRECER BLOQUE 1**

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=5.85		
Mu=-4.58 As =11.36 As(r)=7.26	Mu=-1.65 As =18.91 As(r)=7.26	Mu=-8.26 As =11.36 As(r)=7.26	Mu=-8.23 As =11.36 As(r)=7.26	Mu=-1.65 As =18.29 As(r)=7.26	Mu=-4.71 As =11.36 As(r)=7.26
Mu=1.95 As =11.36 As(r)=7.26	Mu=4.39 As =11.36 As(r)=7.26	Mu=2.75 As =11.36 As(r)=7.26	Mu=2.74 As =11.36 As(r)=7.26	Mu=4.56 As =11.36 As(r)=7.26	Mu=2.12 As =11.36 As(r)=7.26
Vu=-7.18	Vu=2.76	Vu=7.09	Vu=-7.15	Vu=-3.03	Vu=7.52
T=-0.59			T=0.22		

V-305/NE+4.55

B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45		
Mu=-8.82 As =11.36 As(r)=7.26	Mu=-3.13 As =11.99 As(r)=7.26	Mu=-15.66 As =11.36 As(r)=7.77	Mu=-17.26 As =11.36 As(r)=8.60	Mu=-3.45 As =18.92 As(r)=7.26	Mu=-9.77 As =11.36 As(r)=7.26
Mu=3.13 As =11.36 As(r)=7.26	Mu=8.73 As =11.36 As(r)=7.26	Mu=5.22 As =11.36 As(r)=7.26	Mu=5.75 As =11.36 As(r)=7.26	Mu=10.59 As =11.36 As(r)=7.26	Mu=3.45 As =11.36 As(r)=7.26
Vu=-10.05	Vu=-1.71	Vu=12.69	Vu=-13.61	Vu=-1.50	Vu=12.00
T=0.28			T=-0.08		

V-306/NE+4.55

B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45		
Mu=-8.13 As =11.36 As(r)=7.26	Mu=-3.74 As =11.99 As(r)=7.26	Mu=-18.71 As =14.98 As(r)=9.35	Mu=-25.85 As =14.98 As(r)=13.12	Mu=-5.17 As =18.92 As(r)=7.26	Mu=-15.46 As =11.36 As(r)=7.67
Mu=3.74 As =11.36 As(r)=7.26	Mu=9.60 As =11.36 As(r)=7.26	Mu=6.24 As =11.36 As(r)=7.26	Mu=8.62 As =11.36 As(r)=7.26	Mu=19.05 As =11.36 As(r)=9.53	Mu=5.17 As =11.36 As(r)=7.26
Vu=10.36	Vu=-4.00	Vu=-14.14	Vu=-20.54	Vu=1.76	Vu=17.28
T=0.14			T=-0.09		

V-307/NE+4.55

B=0.20 H=0.60 L=7.05		
Mu=-3.06 As =5.68 As(r)=3.63	Mu=-1.34 As =5.68 As(r)=3.63	Mu=-6.68 As =5.68 As(r)=3.63
Mu=1.34 As =5.68 As(r)=3.63	Mu=5.01 As =5.68 As(r)=3.63	Mu=2.23 As =5.68 As(r)=3.63
Vu=-4.47	Vu=0.59	Vu=5.45
T=0.08		

V-308/NE+4.55

B=0.40 H=0.60 L=7.45		
Mu=-18.67 As =11.36 As(r)=9.33	Mu=-4.30 As =17.03 As(r)=7.26	Mu=-17.27 As =11.36 As(r)=8.60
Mu=6.22 As =11.36 As(r)=7.26	Mu=21.49 As =14.98 As(r)=10.80	Mu=5.76 As =11.36 As(r)=7.26
Vu=-18.42	Vu=3.79	Vu=18.35
T=0.14		

V-309/NE+4.55**CENTRO CRECER BLOQUE 1**

B=0.40 H=0.60 L=6.75			B=0.40 H=0.60 L=7.45		
Mu=-8.93 As =11.36 As(r)=7.26	Mu=-4.23 As =11.36 As(r)=7.26	Mu=-21.14 As =14.98 As(r)=10.62	Mu=-26.72 As =14.98 As(r)=13.59	Mu=-5.34 As =18.92 As(r)=7.26	Mu=-15.99 As =11.36 As(r)=7.94
Mu=4.23 As =11.36 As(r)=7.26	Mu=10.43 As =11.36 As(r)=7.26	Mu=7.05 As =11.36 As(r)=7.26	Mu=8.91 As =11.36 As(r)=7.26	Mu=19.62 As =11.36 As(r)=9.82	Mu=5.34 As =11.36 As(r)=7.26
Vu=-10.61	Vu=1.50	Vu=15.46	Vu=-22.73	Vu=-1.22	Vu=18.97
T=-0.44			T=-0.11		

V-310/NE+4.55

B=0.40 H=0.60 L=6.85			B=0.40 H=0.60 L=7.45		
Mu=-14.41 As =11.36 As(r)=7.26	Mu=-5.93 As =11.99 As(r)=7.26	Mu=-29.67 As =16.79 As(r)=15.20	Mu=-31.13 As =16.79 As(r)=16.00	Mu=-6.23 As =18.92 As(r)=7.26	Mu=-14.92 As =11.36 As(r)=7.39
Mu=5.93 As =11.36 As(r)=7.26	Mu=18.68 As =11.36 As(r)=9.34	Mu=9.89 As =11.36 As(r)=7.26	Mu=10.38 As =11.36 As(r)=7.26	Mu=20.10 As =11.36 As(r)=10.08	Mu=6.23 As =11.36 As(r)=7.26
Vu=-18.11	Vu=-2.74	Vu=24.33	Vu=-24.10	Vu=-1.53	Vu=19.64
T=0.16			T=0.05		

V-311/NE+4.55

B=0.60 H=0.60 L=6.85			B=0.60 H=0.60 L=7.45		
Mu=-12.56 As =17.04 As(r)=10.89	Mu=-5.72 As =17.99 As(r)=10.89	Mu=-28.58 As =20.66 As(r)=14.29	Mu=-30.72 As =20.66 As(r)=15.41	Mu=-6.14 As =25.55 As(r)=10.89	Mu=-14.53 As =17.04 As(r)=10.89
Mu=5.72 As =17.04 As(r)=10.89	Mu=17.45 As =17.04 As(r)=10.89	Mu=9.53 As =17.04 As(r)=10.89	Mu=10.24 As =17.04 As(r)=10.89	Mu=20.47 As =17.04 As(r)=10.89	Mu=6.14 As =17.04 As(r)=10.89
Vu=-16.95	Vu=2.42	Vu=23.34	Vu=-24.30	Vu=-2.77	Vu=19.21
T=-0.29			T=-0.34		

CENTRO CRECER BLOQUE 3**V-401/NE+8.45**

B=0.20 H=0.60 L=1.70			B=0.20 H=0.60 L=3.85			B=0.20 H=0.60 L=0.57		
Mu=-2.35 As =5.68 As(r)=3.70	Mu=-5.15 As =5.68 As(r)=3.70	Mu=-4.96 As =5.68 As(r)=3.70	Mu=-4.96 As =5.68 As(r)=3.70	Mu=-1.84 As =5.68 As(r)=3.70	Mu=-4.82 As =5.68 As(r)=3.70	Mu=-1.61 As =5.68 As(r)=3.70	Mu=-0.95 As =5.68 As(r)=3.70	Mu=-0.55 As =5.68 As(r)=3.70
Mu=0.75 As =5.68 As(r)=3.70	Mu=0.95 As =5.68 As(r)=3.70	Mu=2.30 As =5.68 As(r)=3.70	Mu=2.30 As =5.68 As(r)=3.70	Mu=2.54 As =5.68 As(r)=3.70	Mu=5.78 As =5.68 As(r)=3.70	Mu=2.24 As =5.68 As(r)=3.70	Mu=1.27 As =5.68 As(r)=3.70	Mu=0.44 As =5.68 As(r)=3.70
Vu=2.55	Vu=3.85	Vu=-5.00	Vu=-5.00	Vu=-4.00	Vu=2.16	Vu=2.57	Vu=2.75	Vu=2.93
T=-0.79			T=-0.79			T=0.52		

V-402/NE+8.45

B=0.40 H=0.60 L=1.70			B=0.40 H=0.60 L=3.40			B=0.40 H=0.60 L=0.57		
Mu=-0.90 As =11.36 As(r)=7.39	Mu=-5.87 As =11.36 As(r)=7.39	Mu=-14.73 As =11.36 As(r)=7.39	Mu=-27.43 As =11.36 As(r)=13.70	Mu=-0.67 As =11.36 As(r)=7.39	Mu=-18.89 As =11.36 As(r)=9.26	Mu=-3.29 As =11.36 As(r)=7.39	Mu=-1.75 As =11.36 As(r)=7.39	Mu=-0.56 As =11.36 As(r)=7.39
Mu=2.41 As =11.36 As(r)=7.39	Mu=0.03 As =11.36 As(r)=7.39	Mu=0.00 As =11.36 As(r)=7.39	Mu=15.04 As =11.36 As(r)=7.39	Mu=0.00 As =11.36 As(r)=7.39	Mu=22.08 As =11.36 As(r)=10.90	Mu=0.41 As =11.36 As(r)=7.39	Mu=0.46 As =11.36 As(r)=7.39	Mu=0.76 As =11.36 As(r)=7.39
Vu=9.21	Vu=10.17	Vu=10.73	Vu=-16.83	Vu=-13.18	Vu=-12.06	Vu=-7.71	Vu=-7.45	Vu=-7.25
T=-5.05			T=-1.24			T=4.69		

V-403/NE+8.45

B=0.15 H=0.60 L=1.80			B=0.15 H=0.60 L=3.80			B=0.15 H=0.60 L=0.57		
Mu=-1.22 As =3.98 As(r)=2.77	Mu=-1.22 As =3.98 As(r)=2.77	Mu=-6.20 As =3.98 As(r)=3.03	Mu=-7.66 As =3.98 As(r)=3.77	Mu=-0.17 As =3.98 As(r)=2.77	Mu=-4.25 As =3.98 As(r)=2.77	Mu=-1.11 As =3.98 As(r)=2.77	Mu=-0.75 As =3.98 As(r)=2.77	Mu=-0.52 As =3.98 As(r)=2.77
Mu=0.00 As =3.98 As(r)=2.77	Mu=0.37 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=0.60 As =3.98 As(r)=2.77	Mu=1.36 As =3.98 As(r)=2.77	Mu=2.09 As =3.98 As(r)=2.77	Mu=0.34 As =3.98 As(r)=2.77	Mu=0.29 As =3.98 As(r)=2.77	Mu=0.24 As =3.98 As(r)=2.77
Vu=-1.29	Vu=-0.63	Vu=5.31	Vu=-5.52	Vu=-2.23	Vu=3.93	Vu=-1.11	Vu=-0.92	Vu=-0.73
T=-0.18			T=-0.22			T=-0.15		

V-404/NE+8.45

B=0.40 H=0.60 L=1.70			B=0.40 H=0.60 L=3.40			B=0.40 H=0.60 L=0.57		
Mu=-0.00 As =11.36 As(r)=7.39	Mu=-9.28 As =14.55 As(r)=7.39	Mu=-21.24 As =16.63 As(r)=10.47	Mu=-33.63 As =16.63 As(r)=17.03	Mu=-0.00 As =11.36 As(r)=7.39	Mu=-20.74 As =11.36 As(r)=10.21	Mu=-3.09 As =11.36 As(r)=7.39	Mu=-1.57 As =11.36 As(r)=7.39	Mu=-0.14 As =11.36 As(r)=7.39
Mu=1.29 As =11.36 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=13.68 As =11.36 As(r)=7.39	Mu=0.74 As =11.36 As(r)=7.39	Mu=21.85 As =11.36 As(r)=10.78	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.34 As =11.36 As(r)=7.39
Vu=11.66	Vu=12.67	Vu=14.99	Vu=-22.46	Vu=-15.87	Vu=14.47	Vu=-6.92	Vu=-6.67	Vu=-6.47
T=-3.55			T=0.49			T=-5.49		

V-405/NE+8.45

CENTRO CRECER BLOQUE 3

B=0.40 H=0.60 L=1.70			B=0.40 H=0.60 L=3.40			B=0.40 H=0.60 L=0.57		
Mu=-0.23 As =11.36 As(r)=7.39	Mu=-7.70 As =14.69 As(r)=7.39	Mu=-17.57 As =15.06 As(r)=8.59	Mu=-37.91 As =15.06 As(r)=19.39	Mu=-0.00 As =11.36 As(r)=7.39	Mu=-27.03 As =11.36 As(r)=13.49	Mu=-2.14 As =11.36 As(r)=7.39	Mu=-1.04 As =11.36 As(r)=7.39	Mu=-0.01 As =11.36 As(r)=7.39
Mu=0.30 As =11.36 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=20.43 As =11.36 As(r)=10.05	Mu=1.34 As =11.36 As(r)=7.39	Mu=27.33 As =11.36 As(r)=13.64	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.01 As =11.36 As(r)=7.39
Vu=8.73	Vu=9.74	Vu=12.72	Vu=-25.57	Vu=-18.25	Vu=18.88	Vu=-5.01	Vu=-4.76	Vu=-4.56
T=3.35			T=0.20			T=-4.60		

V-406/NE+8.45

B=0.40 H=0.60 L=1.70			B=0.40 H=0.60 L=3.40			B=0.40 H=0.60 L=0.65		
Mu=-0.00 As =11.36 As(r)=7.39	Mu=-7.11 As =14.69 As(r)=7.39	Mu=-16.38 As =15.06 As(r)=7.99	Mu=-43.78 As =15.06 As(r)=22.71	Mu=-0.31 As =11.36 As(r)=7.39	Mu=-35.12 As =11.36 As(r)=17.84	Mu=-2.57 As =11.36 As(r)=7.39	Mu=-1.29 As =11.36 As(r)=7.39	Mu=-0.11 As =11.36 As(r)=7.39
Mu=1.11 As =11.36 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=26.55 As =11.36 As(r)=13.23	Mu=2.89 As =11.36 As(r)=7.39	Mu=36.05 As =11.36 As(r)=18.36	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.25 As =11.36 As(r)=7.39
Vu=8.82	Vu=9.81	Vu=11.95	Vu=-30.20	Vu=-21.91	Vu=23.52	Vu=-5.82	Vu=-5.57	Vu=-5.37
T=4.62			T=0.48			T=4.98		

V-407/NE+8.45

B=0.40 H=0.60 L=5.85			B=0.40 H=0.60 L=0.60		
Mu=-28.33 As =11.36 As(r)=14.17	Mu=-0.00 As =11.36 As(r)=7.39	Mu=-28.39 As =11.36 As(r)=14.21	Mu=-1.97 As =11.36 As(r)=7.39	Mu=-0.99 As =11.36 As(r)=7.39	Mu=-0.17 As =11.36 As(r)=7.39
Mu=21.25 As =11.36 As(r)=10.47	Mu=8.86 As =11.36 As(r)=7.39	Mu=23.23 As =11.36 As(r)=11.50	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.00 As =11.36 As(r)=7.39	Mu=0.02 As =11.36 As(r)=7.39
Vu=-17.50	Vu=8.28	Vu=16.59	Vu=-3.72	Vu=-3.45	Vu=-3.21
T=0.88			T=-4.62		

V-408/NE+8.45

B=0.30 H=0.60 L=6.75			B=0.30 H=0.60 L=4.90			B=0.30 H=0.60 L=7.05		
Mu=-8.88 As =8.52 As(r)=5.54	Mu=-0.18 As =8.52 As(r)=5.54	Mu=-6.14 As =8.52 As(r)=5.54	Mu=-6.26 As =8.52 As(r)=5.54	Mu=-0.35 As =8.52 As(r)=5.54	Mu=-6.57 As =8.52 As(r)=5.54	Mu=-6.74 As =8.52 As(r)=5.54	Mu=-0.00 As =8.52 As(r)=5.54	Mu=-9.24 As =8.52 As(r)=5.54
Mu=-6.65 As =8.52 As(r)=5.54	Mu=-6.59 As =8.52 As(r)=5.54	Mu=-1.26 As =8.52 As(r)=5.54	Mu=0.00 As =8.52 As(r)=5.54	Mu=1.71 As =8.52 As(r)=5.54	Mu=0.00 As =8.52 As(r)=5.54	Mu=0.00 As =8.52 As(r)=5.54	Mu=3.84 As =8.52 As(r)=5.54	Mu=0.00 As =8.52 As(r)=5.54
Vu=-4.36	Vu=1.67	Vu=5.78	Vu=-4.60	Vu=0.51	Vu=4.77	Vu=-5.56	Vu=-0.23	Vu=6.43
T=-1.21			T=-0.49			T=-0.51		

CENTRO CRECER BLOQUE 3

B=0.30 H=0.60 L=3.05			B=0.30 H=0.60 L=3.21			B=0.30 H=0.60 L=1.34		
Mu=-9.71 As =8.52 As(r)=5.54	Mu=-3.81 As =10.50 As(r)=5.54	Mu=-0.00 As =8.52 As(r)=5.54	Mu=-0.00 As =8.52 As(r)=5.54	Mu=-0.00 As =8.52 As(r)=5.54	Mu=-0.00 As =8.52 As(r)=5.54	Mu=-0.00 As =8.52 As(r)=5.54	Mu=-0.42 As =8.52 As(r)=5.54	Mu=-7.90 As =8.52 As(r)=5.54
Mu=0.00 As =8.52 As(r)=5.54	Mu=0.00 As =8.52 As(r)=5.54	Mu=2.80 As =8.52 As(r)=5.54	Mu=2.80 As =8.52 As(r)=5.54	Mu=4.99 As =8.52 As(r)=5.54	Mu=6.12 As =8.52 As(r)=5.54	Mu=6.12 As =8.52 As(r)=5.54	Mu=7.17 As =8.52 As(r)=5.54	Mu=4.21 As =8.52 As(r)=5.54
Vu=-6.79	Vu=-5.84	Vu=-3.58	Vu=-3.58	Vu=-2.34	Vu=-1.27	Vu=-1.27	Vu=3.51	Vu=6.59
T=1.36			T=1.36			T=1.36		

B=0.30 H=0.60 L=0.57		
Mu=-0.00 As =8.52 As(r)=5.54	Mu=-0.42 As =8.52 As(r)=5.54	Mu=-7.90 As =8.52 As(r)=5.54
Mu=6.12 As =8.52 As(r)=5.54	Mu=7.17 As =8.52 As(r)=5.54	Mu=4.21 As =8.52 As(r)=5.54
Vu=-1.27	Vu=3.51	Vu=6.59
T=1.36		

V-409/NE+8.45

B=0.40 H=0.60 L=7.05			B=0.40 H=0.60 L=4.90			B=0.40 H=0.60 L=7.05		
Mu=-18.78 As =11.36 As(r)=9.20	Mu=-0.00 As =11.36 As(r)=7.39	Mu=-24.44 As =11.36 As(r)=12.13	Mu=-24.36 As =11.36 As(r)=12.08	Mu=-0.00 As =14.00 As(r)=7.39	Mu=-22.51 As =11.36 As(r)=11.12	Mu=-22.20 As =11.36 As(r)=10.96	Mu=-0.00 As =15.06 As(r)=7.39	Mu=-27.67 As =11.36 As(r)=13.82
Mu=12.70 As =11.36 As(r)=7.39	Mu=13.51 As =11.36 As(r)=7.39	Mu=5.81 As =11.36 As(r)=7.39	Mu=10.50 As =11.36 As(r)=7.39	Mu=2.66 As =11.36 As(r)=7.39	Mu=10.94 As =11.36 As(r)=7.39	Mu=6.78 As =11.36 As(r)=7.39	Mu=8.44 As =11.36 As(r)=7.39	Mu=4.02 As =11.36 As(r)=7.39
Vu=-13.02	Vu=4.21	Vu=18.34	Vu=-15.46	Vu=-5.43	Vu=14.36	Vu=-14.65	Vu=-3.32	Vu=16.76
T=-1.02			T=-0.67			T=-0.83		

B=0.40 H=0.60 L=3.05			B=0.40 H=0.60 L=3.21			B=0.40 H=0.60 L=1.34		
Mu=-31.33 As =11.36 As(r)=15.78	Mu=-3.90 As =15.84 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=-1.22 As =11.36 As(r)=7.39	Mu=-6.95 As =11.36 As(r)=7.39	Mu=-6.95 As =11.36 As(r)=7.39	Mu=-13.93 As =11.36 As(r)=7.84	Mu=-24.22 As =11.36 As(r)=12.01
Mu=4.87 As =11.36 As(r)=7.39	Mu=9.96 As =11.36 As(r)=7.39	Mu=12.04 As =11.36 As(r)=7.39	Mu=12.04 As =11.36 As(r)=7.39	Mu=12.54 As =11.36 As(r)=7.39	Mu=12.32 As =11.36 As(r)=7.39	Mu=12.32 As =11.36 As(r)=7.39	Mu=11.33 As =11.36 As(r)=7.39	Mu=11.17 As =11.36 As(r)=7.39
Vu=-18.61	Vu=-12.66	Vu=5.66	Vu=5.66	Vu=6.53	Vu=8.99	Vu=8.99	Vu=10.10	Vu=12.43
T=1.34			T=1.34			T=1.34		

CENTRO CRECER BLOQUE 3

B=0.40 H=0.60 L=0.47		
Mu=-6.55 As =11.36 As(r)=7.39	Mu=-3.14 As =11.36 As(r)=7.39	Mu=-0.22 As =11.36 As(r)=7.39
Mu=1.38 As =11.36 As(r)=7.39	Mu=1.00 As =11.36 As(r)=7.39	Mu=0.79 As =11.36 As(r)=7.39
Vu=-8.78	Vu=-8.24	Vu=-7.87
T=3.63		

V-410/NE+8.45

B=0.40 H=0.60 L=6.75			B=0.40 H=0.60 L=4.90			B=0.40 H=0.60 L=7.05		
Mu=-19.23 As =11.36 As(r)=9.44	Mu=-0.00 As =11.36 As(r)=7.39	Mu=-22.62 As =11.36 As(r)=11.18	Mu=-20.66 As =11.36 As(r)=10.16	Mu=-0.00 As =11.36 As(r)=7.39	Mu=-19.80 As =11.36 As(r)=9.73	Mu=-19.72 As =11.36 As(r)=9.69	Mu=-0.00 As =11.36 As(r)=7.39	Mu=-23.08 As =15.06 As(r)=11.42
Mu=13.43 As =11.36 As(r)=7.39	Mu=10.11 As =11.36 As(r)=7.39	Mu=6.10 As =11.36 As(r)=7.39	Mu=8.59 As =11.36 As(r)=7.39	Mu=1.58 As =11.36 As(r)=7.39	Mu=9.62 As =11.36 As(r)=7.39	Mu=6.24 As =11.36 As(r)=7.39	Mu=7.62 As =11.36 As(r)=7.39	Mu=4.49 As =11.36 As(r)=7.39
Vu=-12.98	Vu=3.65	Vu=14.74	Vu=-12.77	Vu=-5.10	Vu=12.13	Vu=-12.69	Vu=-3.20	Vu=13.76
T=0.96			T=0.80			T=-0.69		

B=0.40 H=0.60 L=3.05			B=0.40 H=0.60 L=3.21			B=0.40 H=0.60 L=1.34		
Mu=-24.08 As =15.06 As(r)=11.94	Mu=-4.54 As =11.36 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=-2.46 As =16.90 As(r)=7.39	Mu=-7.53 As =11.36 As(r)=7.39	Mu=-7.53 As =11.36 As(r)=7.39	Mu=-12.52 As =11.36 As(r)=7.39	Mu=-19.49 As =11.36 As(r)=9.57
Mu=6.13 As =11.36 As(r)=7.39	Mu=7.43 As =11.36 As(r)=7.39	Mu=7.94 As =11.36 As(r)=7.39	Mu=7.94 As =11.36 As(r)=7.39	Mu=10.35 As =11.36 As(r)=7.39	Mu=11.65 As =11.36 As(r)=7.39	Mu=11.65 As =11.36 As(r)=7.39	Mu=12.09 As =11.36 As(r)=7.39	Mu=12.96 As =11.36 As(r)=7.39
Vu=-13.47	Vu=-8.53	Vu=4.04	Vu=4.04	Vu=5.35	Vu=6.52	Vu=6.52	Vu=7.37	Vu=8.33
T=-2.12			T=-2.12			T=-2.12		

B=0.40 H=0.60 L=0.47		
Mu=-2.77 As =11.36 As(r)=7.39	Mu=-1.11 As =11.36 As(r)=7.39	Mu=-0.50 As =11.36 As(r)=7.39
Mu=2.39 As =11.36 As(r)=7.39	Mu=1.13 As =11.36 As(r)=7.39	Mu=0.60 As =11.36 As(r)=7.39
Vu=-4.49	Vu=-3.95	Vu=3.73
T=3.86		

V-412/NE+8.45

CENTRO CRECER BLOQUE 3

B=0.20 H=0.60 L=6.80		
Mu=-4.62 As =5.68 As(r)=3.70	Mu=-0.00 As =5.68 As(r)=3.70	Mu=-5.95 As =5.68 As(r)=3.70
Mu=4.07 As =5.68 As(r)=3.70	Mu=3.86 As =5.68 As(r)=3.70	Mu=0.97 As =5.68 As(r)=3.70
Vu=-3.21	Vu=1.33	Vu=4.01
T=0.17		

V-411/NE+8.45

B=0.20 H=0.60 L=4.90			B=0.20 H=0.60 L=7.05			B=0.20 H=0.60 L=3.05		
Mu=-5.25 As =5.68 As(r)=3.70	Mu=-0.22 As =7.92 As(r)=3.70	Mu=-4.86 As =5.68 As(r)=3.70	Mu=-4.56 As =5.68 As(r)=3.70	Mu=-0.00 As =7.92 As(r)=3.70	Mu=-6.38 As =5.68 As(r)=3.70	Mu=-7.66 As =5.68 As(r)=3.73	Mu=-1.50 As =5.94 As(r)=3.70	Mu=-0.00 As =5.68 As(r)=3.70
Mu=0.33 As =5.68 As(r)=3.70	Mu=0.54 As =5.68 As(r)=3.70	Mu=1.01 As =5.68 As(r)=3.70	Mu=0.69 As =5.68 As(r)=3.70	Mu=2.09 As =5.68 As(r)=3.70	Mu=0.00 As =5.68 As(r)=3.70	Mu=0.56 As =5.68 As(r)=3.70	Mu=2.21 As =5.68 As(r)=3.70	Mu=3.45 As =5.68 As(r)=3.70
Vu=-2.91	Vu=-1.01	Vu=2.65	Vu=-3.01	Vu=0.71	Vu=3.51	Vu=-3.97	Vu=-2.56	Vu=-1.92
T=0.13			T=0.12			T=-0.36		

B=0.20 H=0.60 L=4.70			B=0.20 H=0.60 L=0.57		
Mu=-0.00 As =5.68 As(r)=3.70	Mu=-2.51 As =5.68 As(r)=3.70	Mu=-7.59 As =5.68 As(r)=3.70	Mu=-3.39 As =5.68 As(r)=3.70	Mu=-1.71 As =5.68 As(r)=3.70	Mu=-0.52 As =5.68 As(r)=3.70
Mu=3.45 As =5.68 As(r)=3.70	Mu=5.13 As =5.68 As(r)=3.70	Mu=4.33 As =5.68 As(r)=3.70	Mu=1.55 As =5.68 As(r)=3.70	Mu=0.88 As =5.68 As(r)=3.70	Mu=0.44 As =5.68 As(r)=3.70
Vu=-1.66	Vu=2.49	Vu=3.81	Vu=-3.53	Vu=-3.28	Vu=-2.93
T=-0.36			T=-0.55		

CENTRO CRECER BLOQUE 2 EJES 1 - 3**VT-201/NE+4.15**

B=0.12 H=0.60 L=5.85		
Mu=-0.43 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-2.77 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.24 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.63	Vu=0.38	Vu=2.51

VT-202/NE+4.15

B=0.12 H=0.60 L=5.43		
Mu=-2.85 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.74 As =2.84 As(r)=2.22
Mu=0.00 As =0.71 As(r)=2.22	Mu=1.80 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.71	Vu=-0.43	Vu=2.29

VT-203/NE+4.15

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-0.34 As =2.84 As(r)=2.22	Mu=-0.34 As =3.96 As(r)=2.22	Mu=-0.91 As =2.84 As(r)=2.22	Mu=-1.16 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-0.66 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.44 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.76 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.77	Vu=0.24	Vu=1.49	Vu=-1.68	Vu=-0.40	Vu=2.25

VT-204/NE+4.15

B=0.12 H=0.60 L=0.75			B=0.12 H=0.60 L=7.80		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.51 As =2.84 As(r)=2.22	Mu=-1.26 As =2.84 As(r)=2.22	Mu=-2.33 As =2.84 As(r)=2.22	Mu=-0.00 As =4.22 As(r)=2.22	Mu=-1.22 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.13 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.65	Vu=1.01	Vu=1.37	Vu=-2.16	Vu=-0.11	Vu=1.91

VT-205/NE+4.15

B=0.12 H=0.60 L=0.75			B=0.12 H=0.60 L=3.38		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.84 As =2.84 As(r)=2.22	Mu=-1.88 As =2.84 As(r)=2.22	Mu=-3.04 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.13 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.48 As =2.84 As(r)=2.22	Mu=0.19 As =2.13 As(r)=2.22
Vu=1.19	Vu=1.51	Vu=1.82	Vu=-2.13	Vu=-1.81	Vu=1.13

VT-206/NE+4.15**CENTRO CRECER BLOQUE 2 EJES 1 - 3**

B=0.12 H=0.60 L=2.88		
Mu=-0.00 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.52 As =2.84 As(r)=2.22
Mu=0.13 As =0.71 As(r)=2.22	Mu=0.99 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.10	Vu=0.43	Vu=1.37

VT-208/NE+4.15

B=0.12 H=0.60 L=1.16		
Mu=-0.00 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.13 As(r)=2.22
Mu=0.07 As =0.71 As(r)=2.22	Mu=0.26 As =2.84 As(r)=2.22	Mu=0.11 As =2.13 As(r)=2.22
Vu=-0.43	Vu=-0.13	Vu=0.38

VT-209/NE+4.15

B=0.12 H=0.60 L=0.75			B=0.12 H=0.60 L=0.63		
Mu=-0.14 As =2.84 As(r)=2.22	Mu=-0.05 As =2.84 As(r)=2.22	Mu=-0.20 As =2.84 As(r)=2.22	Mu=-0.49 As =2.84 As(r)=2.22	Mu=-0.22 As =2.84 As(r)=2.22	Mu=-0.03 As =2.13 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.13 As(r)=2.22
Vu=-0.33	Vu=0.05	Vu=0.43	Vu=-0.77	Vu=-0.58	Vu=-0.39

VT-207/NE+4.15

B=0.12 H=0.60 L=1.50		
Mu=-0.00 As =2.13 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.62 As =2.84 As(r)=2.22
Mu=0.07 As =2.13 As(r)=2.22	Mu=0.61 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.82	Vu=0.19	Vu=1.25

CENTRO CRECER BLOQUE 2 EJES 4-6**VT-210/NE+4.15**

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-1.06 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.41 As =2.84 As(r)=2.22	Mu=-4.41 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.05 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.34 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.34 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.17	Vu=0.60	Vu=4.01	Vu=-4.01	Vu=-0.60	Vu=3.17

VT-211/NE+4.15

B=0.12 H=0.60 L=7.85		
Mu=-3.23 As =2.84 As(r)=2.22	Mu=-0.00 As =4.22 As(r)=2.22	Mu=-1.75 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=4.21 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.01	Vu=-0.17	Vu=2.64

VT-212/NE+4.15

B=0.12 H=0.60 L=2.93		
Mu=-0.00 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.88 As =2.84 As(r)=2.22
Mu=0.18 As =0.71 As(r)=2.22	Mu=1.36 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.54	Vu=0.63	Vu=2.03

VT-213/NE+4.15

B=0.12 H=0.60 L=1.21		
Mu=-0.00 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.13 As(r)=2.22
Mu=0.09 As =0.71 As(r)=2.22	Mu=0.37 As =2.84 As(r)=2.22	Mu=0.15 As =2.13 As(r)=2.22
Vu=-0.62	Vu=-0.21	Vu=0.54

VT-214/NE+4.15

B=0.12 H=0.60 L=0.63		
Mu=-0.81 As =2.84 As(r)=2.22	Mu=-0.38 As =2.84 As(r)=2.22	Mu=-0.06 As =2.13 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.13 As(r)=2.22
Vu=-1.20	Vu=-0.94	Vu=-0.68

CENTRO CRECER BLOQUE 2 EJES 7-9**VT-215/NE+4.15**

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-1.06 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-4.41 As =2.84 As(r)=2.22	Mu=-4.41 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.05 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.34 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.34 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.17	Vu=0.60	Vu=4.01	Vu=-4.01	Vu=-0.60	Vu=3.17

VT-216/NE+4.15

B=0.12 H=0.60 L=7.85		
Mu=-3.23 As =2.84 As(r)=2.22	Mu=-0.00 As =4.22 As(r)=2.22	Mu=-1.75 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=4.21 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.01	Vu=-0.17	Vu=2.64

VT-217/NE+4.15

B=0.12 H=0.60 L=2.93		
Mu=-0.00 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.88 As =2.84 As(r)=2.22
Mu=0.18 As =0.71 As(r)=2.22	Mu=1.36 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.54	Vu=0.63	Vu=2.03

VT-218/NE+4.15

B=0.12 H=0.60 L=1.21		
Mu=-0.00 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.13 As(r)=2.22
Mu=0.09 As =0.71 As(r)=2.22	Mu=0.37 As =2.84 As(r)=2.22	Mu=0.15 As =2.13 As(r)=2.22
Vu=-0.62	Vu=-0.21	Vu=0.54

VT-219/NE+4.15

B=0.12 H=0.60 L=0.63		
Mu=-0.81 As =2.84 As(r)=2.22	Mu=-0.38 As =2.84 As(r)=2.22	Mu=-0.06 As =2.13 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.13 As(r)=2.22
Vu=-1.20	Vu=-0.94	Vu=-0.68

CENTRO CRECER BLOQUE 3**VT-220/NE+4.25**

B=0.12 H=0.70 L=1.80		
Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.64 As =2.84 As(r)=2.61	Mu=-2.19 As =2.84 As(r)=2.61
Mu=0.13 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=0.33	Vu=1.32	Vu=2.12

VT-221/NE+4.25

B=0.12 H=0.70 L=0.57		
Mu=-0.84 As =2.84 As(r)=2.61	Mu=-0.22 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.07 As =2.84 As(r)=2.61
Vu=-1.39	Vu=-1.09	Vu=-0.43

VT-222/NE+4.25

B=0.12 H=0.70 L=1.93			B=0.12 H=0.70 L=0.57		
Mu=-0.04 As =2.13 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.01 As =2.84 As(r)=2.61	Mu=-0.16 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.06 As =2.84 As(r)=2.61
Mu=0.00 As =2.13 As(r)=2.61	Mu=0.28 As =2.84 As(r)=2.61	Mu=0.07 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.08 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=-0.73	Vu=0.40	Vu=0.62	Vu=-0.60	Vu=-0.30	Vu=0.43

VT-223/NE+4.25

B=0.12 H=0.70 L=1.80			B=0.12 H=0.70 L=3.80			B=0.12 H=0.70 L=0.57		
Mu=-0.00 As =2.84 As(r)=2.61	Mu=-1.51 As =2.84 As(r)=2.61	Mu=-4.30 As =2.84 As(r)=2.61	Mu=-3.55 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.90 As =2.84 As(r)=2.61	Mu=-1.09 As =2.84 As(r)=2.61	Mu=-0.38 As =2.84 As(r)=2.61	Mu=-0.02 As =2.84 As(r)=2.61
Mu=0.12 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.73 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=1.15	Vu=2.09	Vu=3.30	Vu=-0.80	Vu=-2.96	Vu=2.01	Vu=-1.55	Vu=-1.25	Vu=-0.58

VT-224/NE+4.25/4.15

B=0.12 H=0.70 L=1.45			B=0.12 H=0.70 L=4.14			B=0.12 H=0.70 L=0.54		
Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.89 As =2.84 As(r)=2.61	Mu=-2.85 As =2.84 As(r)=2.61	Mu=-2.83 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-3.62 As =2.84 As(r)=2.61	Mu=-4.47 As =2.84 As(r)=2.61	Mu=-2.66 As =4.03 As(r)=2.61	Mu=-1.20 As =5.35 As(r)=2.61
Mu=0.15 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=1.23 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=0.83	Vu=1.65	Vu=2.85	Vu=-2.61	Vu=-0.28	Vu=3.46	Vu=-3.76	Vu=-3.48	Vu=-2.77

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=5.05		
Mu=-1.35 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.80 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.95 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.11	Vu=-0.08	Vu=2.86

VT-225/NE+4.25/4.15

B=0.12 H=0.60 L=1.11			B=0.12 H=0.60 L=4.49			B=0.12 H=0.70 L=0.54		
Mu=-0.02 As =2.84 As(r)=2.22	Mu=-0.45 As =2.84 As(r)=2.22	Mu=-1.28 As =2.84 As(r)=2.22	Mu=-1.40 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-2.79 As =2.84 As(r)=2.22	Mu=-3.39 As =2.84 As(r)=2.61	Mu=-2.23 As =3.76 As(r)=2.61	Mu=-1.43 As =5.08 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.22 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=0.38	Vu=0.98	Vu=1.43	Vu=-1.78	Vu=0.44	Vu=2.34	Vu=-2.46	Vu=-2.18	Vu=-1.47

B=0.12 H=0.60 L=5.05		
Mu=-1.46 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.35 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.09 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.14	Vu=-0.20	Vu=2.66

VT-226/NE+4.25/4.15

B=0.12 H=0.70 L=0.76			B=0.12 H=0.70 L=4.84			B=0.12 H=0.70 L=0.54		
Mu=-0.11 As =2.84 As(r)=2.61	Mu=-0.08 As =2.84 As(r)=2.61	Mu=-0.27 As =2.84 As(r)=2.61	Mu=-0.50 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-2.85 As =2.84 As(r)=2.61	Mu=-3.23 As =2.84 As(r)=2.61	Mu=-2.21 As =3.76 As(r)=2.61	Mu=-1.55 As =5.08 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=1.63 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=-0.35	Vu=0.14	Vu=0.64	Vu=-1.91	Vu=0.92	Vu=2.33	Vu=-2.17	Vu=-1.89	Vu=-1.18

B=0.12 H=0.60 L=5.05		
Mu=-1.52 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.14 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.12 As =2.84 As(r)=2.22	Mu=0.05 As =2.84 As(r)=2.22
Vu=-3.14	Vu=-0.28	Vu=2.57

VT-227/NE+4.25/4.15

CENTRO CRECER BLOQUE 3

B=0.12 H=0.70 L=0.42			B=0.12 H=0.70 L=5.19			B=0.12 H=0.70 L=0.52		
Mu=-0.13 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.20 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-3.90 As =2.84 As(r)=2.61	Mu=-4.03 As =2.84 As(r)=2.61	Mu=-2.73 As =4.03 As(r)=2.61	Mu=-1.79 As =5.35 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.61	Mu=0.06 As =2.84 As(r)=2.61	Mu=0.13 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=2.27 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=-0.72	Vu=-0.37	Vu=-0.12	Vu=-2.04	Vu=0.87	Vu=2.96	Vu=-2.73	Vu=-2.44	Vu=-1.74

B=0.12 H=0.60 L=5.05		
Mu=-1.73 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.25 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.26 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.35	Vu=-0.30	Vu=2.69

VT-228/NE+4.25/4.15

B=0.12 H=0.70 L=5.55			B=0.12 H=0.70 L=0.52			B=0.12 H=0.60 L=5.05		
Mu=-0.61 As =3.87 As(r)=2.61	Mu=-0.00 As =3.87 As(r)=2.61	Mu=-6.22 As =3.87 As(r)=2.61	Mu=-6.24 As =3.87 As(r)=2.61	Mu=-3.80 As =5.06 As(r)=2.61	Mu=-1.75 As =5.86 As(r)=2.61	Mu=-1.78 As =1.99 As(r)=2.22	Mu=-0.00 As =1.99 As(r)=2.22	Mu=-0.80 As =1.99 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.61	Mu=2.98 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.22	Mu=3.50 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.15	Vu=1.00	Vu=4.91	Vu=-5.00	Vu=-4.72	Vu=-3.96	Vu=-3.59	Vu=-0.27	Vu=3.15

VT-229/NE+4.25/4.15

B=0.12 H=0.60 L=0.87			B=0.12 H=0.70 L=2.49			B=0.12 H=0.70 L=2.96		
Mu=-0.27 As =2.84 As(r)=2.22	Mu=-1.19 As =2.84 As(r)=2.22	Mu=-2.52 As =2.84 As(r)=2.22	Mu=-2.51 As =5.68 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.00 As =3.96 As(r)=2.61	Mu=-2.83 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.61	Mu=1.05 As =2.84 As(r)=2.61	Mu=2.16 As =2.84 As(r)=2.61	Mu=2.11 As =2.84 As(r)=2.61	Mu=0.70 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=1.06	Vu=1.64	Vu=2.22	Vu=-2.60	Vu=-1.59	Vu=-0.18	Vu=0.34	Vu=1.29	Vu=2.55

B=0.12 H=0.70 L=4.90			B=0.12 H=0.70 L=7.05			B=0.12 H=0.70 L=3.05		
Mu=-2.92 As =2.84 As(r)=2.61	Mu=-0.00 As =3.96 As(r)=2.61	Mu=-3.60 As =2.84 As(r)=2.61	Mu=-3.88 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-6.10 As =2.84 As(r)=2.61	Mu=-6.36 As =2.84 As(r)=2.62	Mu=-0.39 As =2.97 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.61	Mu=0.67 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=2.72 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=2.83 As =2.84 As(r)=2.61
Vu=-2.52	Vu=-0.29	Vu=2.95	Vu=-3.50	Vu=-0.09	Vu=4.39	Vu=-4.25	Vu=-3.43	Vu=-1.17

CENTRO CRECER BLOQUE 3

B=0.12 H=0.70 L=4.70			B=0.12 H=0.70 L=0.57		
Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-2.73 As =2.84 As(r)=2.61	Mu=-1.76 As =2.84 As(r)=2.61	Mu=-0.69 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61
Mu=2.81 As =2.84 As(r)=2.61	Mu=3.39 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.01 As =2.84 As(r)=2.61
Vu=-1.55	Vu=0.92	Vu=3.31	Vu=-2.21	Vu=-2.09	Vu=-1.33

VT-230/NE+4.25/4.15

B=0.12 H=0.60 L=0.87			B=0.12 H=0.70 L=6.15		
Mu=-0.62 As =2.84 As(r)=2.22	Mu=-1.10 As =2.84 As(r)=2.22	Mu=-1.98 As =2.84 As(r)=2.22	Mu=-1.90 As =5.68 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-4.24 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.61	Mu=2.60 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=0.40	Vu=0.99	Vu=1.59	Vu=-2.55	Vu=0.11	Vu=4.20

VT-231/NE+4.25

B=0.12 H=0.70 L=0.57		
Mu=-0.28 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.61	Mu=0.06 As =2.84 As(r)=2.61	Mu=0.01 As =2.84 As(r)=2.61
Vu=-0.77	Vu=-0.46	Vu=0.25

VT-232/NE+4.25/4.15

B=0.12 H=0.60 L=0.87			B=0.12 H=0.70 L=6.85			B=0.12 H=0.70 L=4.90		
Mu=-0.71 As =2.84 As(r)=2.22	Mu=-1.12 As =2.84 As(r)=2.22	Mu=-1.93 As =2.84 As(r)=2.22	Mu=-1.91 As =5.68 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-4.46 As =2.84 As(r)=2.61	Mu=-4.18 As =2.84 As(r)=2.61	Mu=-0.00 As =4.22 As(r)=2.61	Mu=-3.83 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.61	Mu=2.88 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.60 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=0.28	Vu=0.89	Vu=1.50	Vu=-2.71	Vu=0.30	Vu=3.73	Vu=-3.16	Vu=-0.29	Vu=3.07

B=0.12 H=0.70 L=7.05			B=0.12 H=0.70 L=0.90		
Mu=-4.28 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-5.47 As =2.84 As(r)=2.61	Mu=-4.67 As =2.84 As(r)=2.61	Mu=-2.23 As =2.84 As(r)=2.61	Mu=-0.20 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.61	Mu=3.44 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=-3.85	Vu=-0.07	Vu=4.06	Vu=-4.65	Vu=-4.31	Vu=-3.57

VT-233/NE+4.25/4.15

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=0.87			B=0.12 H=0.70 L=6.85			B=0.12 H=0.70 L=4.90		
Mu=-0.58 As =2.84 As(r)=2.22	Mu=-2.19 As =2.84 As(r)=2.22	Mu=-4.21 As =2.84 As(r)=2.22	Mu=-4.84 As =5.68 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61	Mu=-4.56 As =2.84 As(r)=2.61	Mu=-4.41 As =2.84 As(r)=2.61	Mu=-0.00 As =3.96 As(r)=2.61	Mu=-3.14 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.61	Mu=4.24 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.34 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61
Vu=2.04	Vu=2.65	Vu=3.26	Vu=-4.57	Vu=-0.14	Vu=4.02	Vu=-3.00	Vu=-0.44	Vu=2.55

B=0.12 H=0.70 L=7.05			B=0.12 H=0.70 L=3.05		
Mu=-3.49 As =2.84 As(r)=2.61	Mu=-0.00 As =3.96 As(r)=2.61	Mu=-4.84 As =2.84 As(r)=2.61	Mu=-4.68 As =2.84 As(r)=2.61	Mu=-0.84 As =2.84 As(r)=2.61	Mu=-0.00 As =2.84 As(r)=2.61
Mu=0.00 As =2.84 As(r)=2.61	Mu=2.84 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.00 As =2.84 As(r)=2.61	Mu=0.06 As =2.84 As(r)=2.61
Vu=-3.32	Vu=0.11	Vu=3.73	Vu=-2.91	Vu=-2.13	Vu=0.54

VT-234/NE+4.25

B=0.12 H=0.60 L=0.87			B=0.12 H=0.60 L=6.85		
Mu=-0.65 As =2.84 As(r)=2.22	Mu=-1.47 As =2.84 As(r)=2.22	Mu=-2.75 As =2.84 As(r)=2.22	Mu=-3.34 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.48 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.98 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.84	Vu=1.53	Vu=2.22	Vu=-3.32	Vu=-0.15	Vu=2.79

CENTRO CRECER BLOQUE 1**VT-301/NE+4.55**

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-0.89 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-3.55 As =2.84 As(r)=2.22	Mu=-3.13 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.14 As =2.84 As(r)=2.22	Mu=-1.23 As =2.84 As(r)=2.22	Mu=-0.00 As =4.22 As(r)=2.22	Mu=-3.01 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.56 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.70 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.97 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.45	Vu=0.30	Vu=3.35	Vu=-2.77	Vu=-0.08	Vu=1.11	Vu=-1.02	Vu=-0.10	Vu=3.23

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-3.11 As =2.84 As(r)=2.22	Mu=-0.00 As =4.06 As(r)=2.22	Mu=-2.09 As =2.84 As(r)=2.22	Mu=-2.16 As =2.84 As(r)=2.22	Mu=-0.00 As =4.06 As(r)=2.22	Mu=-0.84 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.02 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.79 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-3.71	Vu=0.16	Vu=1.55	Vu=-1.60	Vu=-0.63	Vu=3.00

VT-303/NE+4.55

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=1.30		
Mu=-0.56 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.11 As =2.84 As(r)=2.22	Mu=-2.72 As =2.84 As(r)=2.22	Mu=-1.18 As =2.84 As(r)=2.22	Mu=-0.11 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.28 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.54	Vu=0.39	Vu=3.13	Vu=-2.36	Vu=-2.02	Vu=-1.36

VT-304/NE+4.55

B=0.12 H=0.60 L=5.85			B=0.12 H=0.60 L=5.85		
Mu=-0.76 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.78 As =2.84 As(r)=2.22	Mu=-1.92 As =2.84 As(r)=2.22	Mu=-0.00 As =4.06 As(r)=2.22	Mu=-0.44 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.70 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.94 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.80	Vu=0.45	Vu=1.53	Vu=-1.68	Vu=-0.77	Vu=2.66

CENTRO CRECER BLOQUE 1**VT-305/NE+4.55**

B=0.12 H=0.60 L=7.05			B=0.12 H=0.60 L=7.85		
Mu=-1.24 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-5.31 As =2.84 As(r)=2.60	Mu=-5.69 As =2.84 As(r)=2.79	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-1.60 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=3.46 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=4.30 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.62	Vu=0.57	Vu=3.83	Vu=-2.37	Vu=-3.09	Vu=1.81

VT-306/NE+4.55

B=0.12 H=0.60 L=7.05			B=0.12 H=0.60 L=3.20		
Mu=-1.04 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-5.65 As =2.84 As(r)=2.77	Mu=-5.73 As =2.84 As(r)=2.81	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.50 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.17 As =2.84 As(r)=2.22	Mu=0.23 As =2.84 As(r)=2.22
Vu=-1.97	Vu=0.22	Vu=3.59	Vu=-3.83	Vu=-2.55	Vu=1.46

VT-307/NE+4.55

B=0.12 H=0.60 L=3.10		
Mu=-0.00 As =2.13 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.56 As =2.84 As(r)=2.22
Mu=0.14 As =2.13 As(r)=2.22	Mu=0.62 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.16	Vu=1.50	Vu=1.02

VT-308/NE+4.55

B=0.12 H=0.60 L=3.20		
Mu=-5.81 As =2.84 As(r)=2.85	Mu=-0.04 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.14 As =2.84 As(r)=2.22
Vu=-3.92	Vu=-2.18	Vu=1.15

CENTRO CRECER BLOQUE 1**VT-309/NE+4.55**

B=0.12 H=0.60 L=0.38		
Mu=-0.01 As =0.71 As(r)=2.22	Mu=-0.10 As =2.84 As(r)=2.22	Mu=-0.26 As =2.84 As(r)=2.22
Mu=0.00 As =0.71 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.24	Vu=0.42	Vu=0.60

VT-310/NE+4.55

B=0.12 H=0.60 L=1.18		
Mu=-0.00 As =2.13 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.11 As =2.13 As(r)=2.22	Mu=0.38 As =2.84 As(r)=2.22	Mu=0.08 As =2.84 As(r)=2.22
Vu=-0.62	Vu=-0.24	Vu=0.67

VT-311/NE+4.55

B=0.12 H=0.60 L=1.18		
Mu=-1.14 As =2.13 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.13 As(r)=2.22	Mu=0.38 As =2.84 As(r)=2.22	Mu=0.05 As =2.84 As(r)=2.22
Vu=-1.40	Vu=-0.38	Vu=0.66

VT-312/NE+4.55

B=0.12 H=0.60 L=1.43		
Mu=-1.97 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.13 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.37 As =2.84 As(r)=2.22	Mu=0.15 As =2.13 As(r)=2.22
Vu=-2.35	Vu=-1.41	Vu=1.91

CENTRO CRECER BLOQUE 1**VT-313/NE+4.55**

B=0.12 H=0.60 L=7.85		
Mu=-3.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.81 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=5.59 As =2.84 As(r)=2.74	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.59	Vu=2.67	Vu=1.50

VT-314/NE+4.55

B=0.12 H=0.60 L=1.83			B=0.12 H=0.60 L=0.48		
Mu=-0.03 As =0.71 As(r)=2.22	Mu=-0.96 As =2.84 As(r)=2.22	Mu=-3.12 As =2.84 As(r)=2.22	Mu=-2.54 As =2.84 As(r)=2.22	Mu=-1.08 As =2.84 As(r)=2.22	Mu=-0.19 As =2.13 As(r)=2.22
Mu=0.00 As =0.71 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.13 As(r)=2.22
Vu=0.11	Vu=1.39	Vu=2.34	Vu=-2.54	Vu=-2.15	Vu=-1.25

VT-315/NE+4.55

B=0.12 H=0.60 L=0.79		
Mu=-0.00 As =2.13 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.09 As =2.13 As(r)=2.22	Mu=0.37 As =2.84 As(r)=2.22	Mu=0.09 As =2.84 As(r)=2.22
Vu=-0.65	Vu=-0.26	Vu=0.64

VT-316/NE+4.55

B=0.12 H=0.60 L=1.35		
Mu=-0.64 As =2.84 As(r)=2.22	Mu=-0.02 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.04 As =2.84 As(r)=2.22
Vu=-1.19	Vu=-0.81	Vu=0.09

CENTRO CRECER BLOQUE 1**VT-302/NE+4.55**

B=0.12 H=0.60 L=3.53		
Mu=-0.56 As =0.71 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.11 As =2.84 As(r)=2.22
Mu=0.00 As =0.71 As(r)=2.22	Mu=3.28 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.54	Vu=0.39	Vu=3.13

CENTRO CRECER BLOQUE 3**VT-401/NE+8.45**

B=0.12 H=0.60 L=1.70		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.54 As =2.84 As(r)=2.22	Mu=-1.72 As =2.84 As(r)=2.22
Mu=0.26 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.52	Vu=1.09	Vu=1.54

VT-402/NE+8.45

B=0.12 H=0.60 L=0.57		
Mu=-0.44 As =2.84 As(r)=2.22	Mu=-0.16 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.05 As =2.84 As(r)=2.22
Vu=-0.82	Vu=-0.64	Vu=-0.48

VT-403/NE+8.45

B=0.12 H=0.60 L=1.70			B=0.12 H=0.60 L=3.80			B=0.12 H=0.60 L=0.57		
Mu=-0.22 As =2.84 As(r)=2.22	Mu=-0.81 As =2.84 As(r)=2.22	Mu=-1.75 As =2.84 As(r)=2.22	Mu=-1.51 As =2.84 As(r)=2.22	Mu=-0.37 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.04 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.15 As =2.84 As(r)=2.22	Mu=0.04 As =2.84 As(r)=2.22	Mu=0.04 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.33	Vu=0.89	Vu=1.24	Vu=-0.67	Vu=-0.48	Vu=0.25	Vu=-0.09	Vu=0.11	Vu=0.29

VT-404/NE+8.45

B=0.12 H=0.60 L=1.43			B=0.12 H=0.60 L=4.17			B=0.12 H=0.60 L=0.64		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.68 As =2.84 As(r)=2.22	Mu=-2.30 As =2.84 As(r)=2.22	Mu=-2.24 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.37 As =2.84 As(r)=2.22	Mu=-0.52 As =2.84 As(r)=2.22	Mu=-0.21 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.34 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.06 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.03 As =2.84 As(r)=2.22
Vu=0.98	Vu=1.56	Vu=2.26	Vu=-1.44	Vu=-1.58	Vu=1.58	Vu=-0.91	Vu=-0.73	Vu=-0.55

VT-405/NE+8.45

B=0.12 H=0.60 L=1.10			B=0.12 H=0.60 L=4.50			B=0.12 H=0.60 L=0.63		
Mu=-0.05 As =2.84 As(r)=2.22	Mu=-0.35 As =2.84 As(r)=2.22	Mu=-0.94 As =2.84 As(r)=2.22	Mu=-1.11 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.05 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.18 As =2.84 As(r)=2.22	Mu=0.02 As =2.84 As(r)=2.22	Mu=0.11 As =2.84 As(r)=2.22	Mu=0.07 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.31	Vu=0.76	Vu=0.93	Vu=-1.43	Vu=-0.26	Vu=1.26	Vu=0.04	Vu=0.22	Vu=0.40

VT-406/NE+8.45

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=0.78			B=0.12 H=0.60 L=4.83			B=0.12 H=0.60 L=0.63		
Mu=-0.31 As =2.84 As(r)=2.22	Mu=-0.12 As =2.84 As(r)=2.22	Mu=-0.16 As =2.84 As(r)=2.22	Mu=-0.47 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.03 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.07 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.60 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.26 As =2.84 As(r)=2.22	Mu=0.13 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.50	Vu=-0.29	Vu=0.19	Vu=-1.43	Vu=0.04	Vu=1.38	Vu=0.26	Vu=0.44	Vu=0.62

VT-407/NE+8.45

B=0.12 H=0.60 L=0.45			B=0.12 H=0.60 L=5.16			B=0.12 H=0.60 L=0.62		
Mu=-0.38 As =2.84 As(r)=2.22	Mu=-0.12 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.34 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.32 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.10 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.05 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.04 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.12 As =2.84 As(r)=2.22	Mu=0.05 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.81	Vu=-0.67	Vu=-0.42	Vu=-1.62	Vu=-0.03	Vu=1.64	Vu=0.11	Vu=0.29	Vu=0.47

VT-408/NE+8.45

B=0.12 H=0.60 L=5.50			B=0.12 H=0.60 L=0.61		
Mu=-0.68 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.91 As =2.84 As(r)=2.22	Mu=-0.46 As =2.84 As(r)=2.22	Mu=-0.21 As =2.84 As(r)=2.22	Mu=-0.04 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.37 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-2.17	Vu=0.04	Vu=2.16	Vu=-0.74	Vu=-0.55	Vu=-0.38

VT-409/NE+8.45

B=0.12 H=0.60 L=2.38			B=0.12 H=0.60 L=2.99			B=0.12 H=0.60 L=4.90		
Mu=-0.33 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-2.40 As =2.84 As(r)=2.22	Mu=-2.43 As =2.84 As(r)=2.22	Mu=-0.00 As =3.96 As(r)=2.22	Mu=-2.27 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.67 As =2.84 As(r)=2.22	Mu=2.03 As =2.84 As(r)=2.22	Mu=2.04 As =2.84 As(r)=2.22	Mu=0.54 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.29 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.56	Vu=-0.76	Vu=0.35	Vu=0.43	Vu=1.30	Vu=2.07	Vu=-1.83	Vu=-0.18	Vu=1.91

B=0.12 H=0.60 L=7.05			B=0.12 H=0.60 L=3.05			B=0.12 H=0.60 L=3.21		
Mu=-2.48 As =2.84 As(r)=2.22	Mu=-0.00 As =3.93 As(r)=2.22	Mu=-3.94 As =2.84 As(r)=2.22	Mu=-4.05 As =2.84 As(r)=2.22	Mu=-0.06 As =3.96 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=1.74 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=1.94 As =2.84 As(r)=2.22	Mu=1.90 As =2.84 As(r)=2.22	Mu=2.40 As =2.84 As(r)=2.22	Mu=2.02 As =2.84 As(r)=2.22
Vu=-2.32	Vu=0.09	Vu=2.86	Vu=-2.94	Vu=-2.02	Vu=-0.69	Vu=-0.79	Vu=-0.13	Vu=0.68

CENTRO CRECER BLOQUE 3

B=0.12 H=0.60 L=1.34			B=0.12 H=0.60 L=0.57		
Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-1.75 As =2.84 As(r)=2.22	Mu=-1.05 As =2.84 As(r)=2.22	Mu=-0.43 As =2.84 As(r)=2.22	Mu=-0.01 As =2.84 As(r)=2.22
Mu=2.02 As =2.84 As(r)=2.22	Mu=0.77 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=0.68	Vu=1.46	Vu=2.20	Vu=-1.34	Vu=-1.14	Vu=-0.75

VT-410/NE+8.45

B=0.12 H=0.60 L=0.57		
Mu=-0.11 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-0.01 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.05 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-0.38	Vu=-0.18	Vu=0.23

VT-411/NE+8.45


B=0.12 H=0.60 L=6.25		
Mu=-0.08 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.44 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=2.43 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.68	Vu=0.36	Vu=3.34


VT-412/NE+8.45


B=0.12 H=0.60 L=6.85			B=0.12 H=0.60 L=4.90			B=0.12 H=0.60 L=7.05		
Mu=-0.05 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-3.56 As =2.84 As(r)=2.22	Mu=-3.14 As =2.84 As(r)=2.22	Mu=-0.00 As =3.70 As(r)=2.22	Mu=-2.41 As =2.84 As(r)=2.22	Mu=-2.72 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22	Mu=-4.07 As =2.84 As(r)=2.22
Mu=0.04 As =2.84 As(r)=2.22	Mu=2.46 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.33 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=2.16 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22
Vu=-1.77	Vu=0.43	Vu=2.81	Vu=-2.19	Vu=-0.25	Vu=1.92	Vu=-2.44	Vu=-0.02	Vu=2.86


B=0.12 H=0.60 L=3.05		
Mu=-3.95 As =2.84 As(r)=2.22	Mu=-0.46 As =2.84 As(r)=2.22	Mu=-0.00 As =2.84 As(r)=2.22
Mu=0.00 As =2.84 As(r)=2.22	Mu=0.00 As =2.84 As(r)=2.22	Mu=0.15 As =2.84 As(r)=2.22
Vu=-2.60	Vu=-1.77	Vu=0.49

CENTRO CRECER BLOQUE 1

	PROYECTO:	CENTRO CRECER - BLOQUE 1	FECHA:	1/07/2018				
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-490				
PLACA NE +0.10 e =0.10 m								
Espesor adoptado: 0.1 m Avaluó de Cargas: Ton / m ²								
Peso propio de placa 0.10 x 2.40 = 0.240 Acabados 0.05 x 2.20 = 0.110 Otros = 0.000 CM = 0.350 CV = 0.500 CR = 0.850								
<table border="1"> <tr> <td>CU = 1.2 CM + 1.6 CV</td> <td>1.220</td> </tr> <tr> <td>MU=(W*L²)/8 =</td> <td>0.258</td> </tr> </table>					CU = 1.2 CM + 1.6 CV	1.220	MU=(W*L ²)/8 =	0.258
CU = 1.2 CM + 1.6 CV	1.220							
MU=(W*L ²)/8 =	0.258							
DISEÑO PLACA CUBIERTA ESCALERAS								
H = 10 cm b = 100 cm fy = 4200 kg/cm ² L = 1.30 m d = 5.00 cm f'c = 280 kg/cm ²								
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 Mu = 0.26 T-m ϕMu = 0.26 T-m Por lo tanto: ρ = 0.0028 As = 1.39 cm ² /m ρ_{min} = 0.0018 As _{min} = 0.90 cm ² /m Se requiere: As = 1.39 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> Vu = 0.79 T ϕVc = 3.37 T Por lo tanto: Vu < ϕVc Se asume: No requiere refuerzo a Cortante						
SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS		SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS						

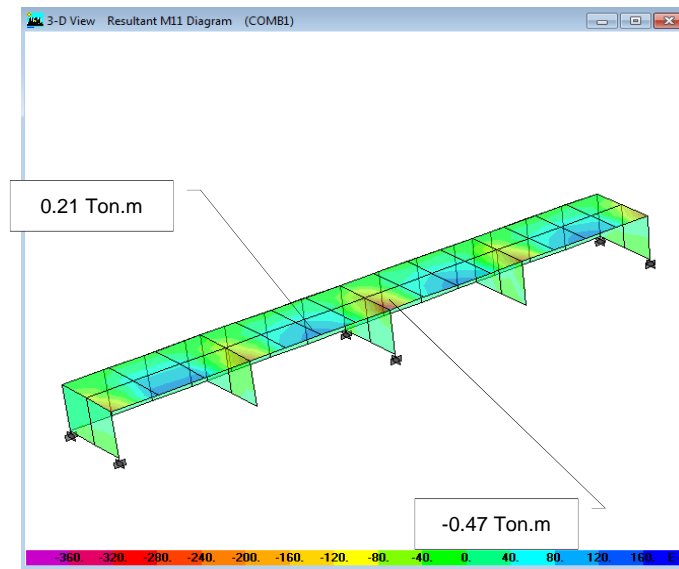
	PROYECTO:	CENTRO CRECER - BLOQUE 1	FECHA:	1/07/2018																																								
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-490																																								
TORTA SUPERIOR PLACA NE+4.55																																												
<p> Espesor adoptado: 0.06 m Avaluo de Cargas: Ton / m² </p> <table> <tr> <td>Peso propio de placa</td> <td>0.06</td> <td>x</td> <td>2.40</td> <td>=</td> <td>0.144</td> </tr> <tr> <td>Acabados</td> <td>0.05</td> <td>x</td> <td>2.20</td> <td>=</td> <td>0.110</td> </tr> <tr> <td>Otros</td> <td></td> <td></td> <td></td> <td>=</td> <td>0.050</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CM =</td> <td>0.304</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CV =</td> <td>0.500</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CR =</td> <td>0.804</td> </tr> </table> <table> <tr> <td>CU = 1.2 CM + 1.6 CV</td> <td>1.165</td> </tr> <tr> <td>MU=(W*L²)/8 =</td> <td>0.210</td> </tr> </table>					Peso propio de placa	0.06	x	2.40	=	0.144	Acabados	0.05	x	2.20	=	0.110	Otros				=	0.050					CM =	0.304					CV =	0.500					CR =	0.804	CU = 1.2 CM + 1.6 CV	1.165	MU=(W*L ²)/8 =	0.210
Peso propio de placa	0.06	x	2.40	=	0.144																																							
Acabados	0.05	x	2.20	=	0.110																																							
Otros				=	0.050																																							
				CM =	0.304																																							
				CV =	0.500																																							
				CR =	0.804																																							
CU = 1.2 CM + 1.6 CV	1.165																																											
MU=(W*L ²)/8 =	0.210																																											
DISEÑO PLACA CUBIERTA ESCALERAS																																												
<table> <tr> <td>H = 6 cm</td> <td>b = 100 cm</td> <td>fy =</td> <td>4200</td> <td>kg/cm²</td> </tr> <tr> <td>L = 1.20 m</td> <td>d = 3.00 cm</td> <td>f'c=</td> <td>280</td> <td>kg/cm²</td> </tr> </table>					H = 6 cm	b = 100 cm	fy =	4200	kg/cm ²	L = 1.20 m	d = 3.00 cm	f'c=	280	kg/cm ²																														
H = 6 cm	b = 100 cm	fy =	4200	kg/cm ²																																								
L = 1.20 m	d = 3.00 cm	f'c=	280	kg/cm ²																																								
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 M_u = 0.21 T-m ϕM_u = 0.21 T-m Por lo tanto: ρ = 0.0065 A_s = 1.95 cm ² /m ρ_{min} = 0.0018 $A_{s_{min}}$ = 0.54 cm ² /m Se requiere: A_s = 1.95 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> V_u = 0.70 T ϕV_c = 2.02 T Por lo tanto: $V_u < \phi V_c$ Se asume: No requiere refuerzo a Cortante																																										
SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS		SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS																																										

	PROYECTO:	CENTRO CRECER - BLOQUE 1	FECHA:	1/07/2018																																																
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-490																																																
TORTA INFERIOR PLACA NE+4.55																																																				
<p>Espesor adoptado: 0.04 m</p> <p>Avaluo de Cargas: Ton / m²</p> <table> <tr> <td>Peso propio de placa</td> <td>0.04</td> <td>x</td> <td>2.40</td> <td>=</td> <td>0.096</td> </tr> <tr> <td>Acabados</td> <td>0</td> <td>x</td> <td>2.20</td> <td>=</td> <td>0.000</td> </tr> <tr> <td>Otros</td> <td></td> <td></td> <td></td> <td>=</td> <td>0.050</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CM =</td> <td>0.146</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CV =</td> <td>0.000</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CR =</td> <td>0.146</td> </tr> <tr> <td></td> <td colspan="3">CU = 1.2 CM + 1.6 CV</td> <td></td> <td>0.175</td> </tr> <tr> <td></td> <td colspan="3">MU=(W*L²)/8 =</td> <td></td> <td>0.032</td> </tr> </table>					Peso propio de placa	0.04	x	2.40	=	0.096	Acabados	0	x	2.20	=	0.000	Otros				=	0.050					CM =	0.146					CV =	0.000					CR =	0.146		CU = 1.2 CM + 1.6 CV				0.175		MU=(W*L ²)/8 =				0.032
Peso propio de placa	0.04	x	2.40	=	0.096																																															
Acabados	0	x	2.20	=	0.000																																															
Otros				=	0.050																																															
				CM =	0.146																																															
				CV =	0.000																																															
				CR =	0.146																																															
	CU = 1.2 CM + 1.6 CV				0.175																																															
	MU=(W*L ²)/8 =				0.032																																															
DISEÑO PLACA CUBIERTA ESCALERAS																																																				
<table> <tr> <td>H = 4 cm</td> <td>b = 100 cm</td> <td>fy =</td> <td>4200</td> <td>kg/cm²</td> </tr> <tr> <td>L = 1.20 m</td> <td>d = 2.00 cm</td> <td>f'c=</td> <td>280</td> <td>kg/cm²</td> </tr> </table>					H = 4 cm	b = 100 cm	fy =	4200	kg/cm ²	L = 1.20 m	d = 2.00 cm	f'c=	280	kg/cm ²																																						
H = 4 cm	b = 100 cm	fy =	4200	kg/cm ²																																																
L = 1.20 m	d = 2.00 cm	f'c=	280	kg/cm ²																																																
<p><u>Chequeo a flexión MOMENTO</u></p> <p>Coef. Durab. ϕ = 1.00</p> <p>Mu = 0.03 T-m</p> <p>ϕMu = 0.03 T-m</p> <p>Por lo tanto:</p> <p>ρ = 0.0021</p> <p>As = 0.42 cm²/m</p> <p>ρ_{min} = 0.0018</p> <p>As_{min} = 0.36 cm²/m</p> <p>Se requiere: As = 0.42 cm²/m</p>			<p><u>Chequeo a Cortante CORTANTE</u></p> <p>Vu = 0.11 T</p> <p>ϕVc = 1.35 T</p> <p>Por lo tanto: Vu < ϕVc</p> <p>Se asume: No requiere refuerzo a Cortante</p>																																																	
SE COLOCARA MALLA ELECTROSOLDADA DE 4 mm c/0.15 EN AMBOS SENTIDOS			SE COLOCARA MALLA ELECTROSOLDADA DE 4 mm c/0.15 EN AMBOS SENTIDOS																																																	

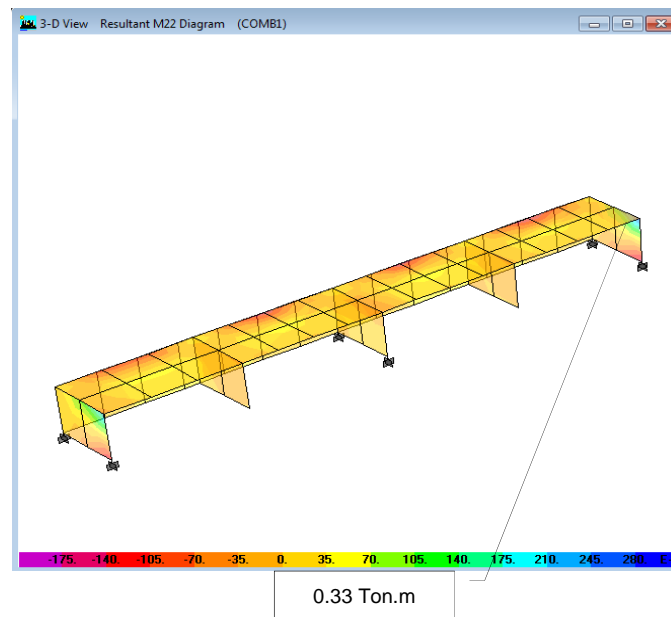
	PROYECTO:	CENTRO CRECER - BLOQUE 1	FECHA:	1/07/2018				
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-490				
PLACA VOLADIZO NE+4.55 e = 0.25 m								
Espesor adoptado: 0.25 m Avaluo de Cargas: Ton / m ²								
Peso propio de placa 0.25 x 2.40 = 0.600 Acabados 0.05 x 2.20 = 0.110 Otros = 0.000 CM = 0.710 CV = 0.180 CR = 0.890								
<table border="1"> <tr> <td>CU = 1.2 CM + 1.6 CV</td> <td>1.140</td> </tr> <tr> <td>MU=(W*L²)/8 =</td> <td>0.462</td> </tr> </table>					CU = 1.2 CM + 1.6 CV	1.140	MU=(W*L ²)/8 =	0.462
CU = 1.2 CM + 1.6 CV	1.140							
MU=(W*L ²)/8 =	0.462							
DISEÑO PLACA CUBIERTA ESCALERAS								
H = 25 cm b = 100 cm fy = 4200 kg/cm ² L = 1.80 m d = 20.00 cm f'c = 280 kg/cm ²								
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 Mu = 1.85 T-m ϕMu = 1.85 T-m Por lo tanto: ρ = 0.0012 As = 2.47 cm ² /m ρ_{min} = 0.0018 As _{min} = 2.25 cm ² /m Se requiere: As = 2.47 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> Vu = 1.03 T ϕVc = 13.49 T Por lo tanto: Vu < ϕVc Se asume: No requiere refuerzo a Cortante						
SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS		SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS						

REFUERZO LUCARNAS E-0.15m			
H = 15 cm	b = 100 cm d = 7.5 cm	f _y = 4200 kg/cm ² f'c = 210 kg/cm ²	
Chequeo a flexión MOMENTO M11 Coef. Durab. $\phi = 1.00$ $\mu_u = 0.47$ T-m $\phi\mu_u = 0.47$ T-m Por lo tanto: $\rho = 0.002265$ $\rho_{min} = 0.001800$ Por lo tanto $A_s = 2.70$ cm ² /m #3/cada = 0.263 m #4/cada = 0.470 m #5/cada = 0.737 m #6/cada = 1.052 m #7/cada = 1.433 m #8/cada = 1.889 m		Chequeo a flexión MOMENTO M22 $\phi = 1.00$ $\mu_u = 0.33$ T-m $\phi\mu_u = 0.33$ T-m Por lo tanto: $\rho = 0.001578$ $\rho_{min} = 0.001800$ Por lo tanto $A_s = 2.70$ cm ² /m #3/cada = 0.263 m #4/cada = 0.470 m #5/cada = 0.737 m #6/cada = 1.052 m #7/cada = 1.433 m #8/cada = 1.889 m	
CORTANTE V13 v _u (ton)= 0.92 Øv _c (ton)= 4.32 CUMPLE		CORTANTE V23 v _u (ton)= 1.00 Øv _c (ton)= 4.32 CUMPLE	
Varilla = # 3 Area varilla= 0.71 cm ² Sep. Varilla= 20 cm		Varilla = # 3 Area varilla= 0.71 cm ² Sep. Varilla= 20 cm	
Es = 2040000.00 kg/cm ² Ec = 181142.21 kg/cm ² n = 11.26 Ms = 0.31 T-m As = 3.55 cm ² /m $\rho = 0.004733$ k = 0.28 j = 0.91 jd = 6.81 cm ² fs = 1296.81 kg/cm ² 0.45f _y = 1890.00 kg/cm ² z = 12968.07 kg-cm cumple		Es = 2040000.00 kg/cm ² Ec = 181142.21 kg/cm ² n = 11.26 Ms = 0.22 T-m As = 3.55 cm ² /m $\rho = 0.004733$ k = 0.28 j = 0.91 jd = 6.81 cm ² fs = 910.52 kg/cm ² 0.45f _y = 1890.00 kg/cm ² z = 9105.24 kg-cm cumple	
SE COLOCARA REFUERZO # 3 C/ 0.20 m		SE COLOCARA REFUERZO # 3 C/ 0.20 m	
MOMENTO DE AGRIETAMIENTO POR FLEXION M _{cr} = 0.63 T-m Por lo tanto: $\rho_{cr} = 0.003038$ Por lo tanto $A_{s_{cr}} = 2.28$ cm ² /m cumple		MOMENTO DE AGRIETAMIENTO POR FLEXION M _{cr} = 0.44 T-m Por lo tanto: $\rho_{cr} = 0.002112$ Por lo tanto $A_{s_{cr}} = 1.58$ cm ² /m cumple	
#3/cada = 0.312 m #4/cada = 0.557 m #5/cada = 0.873 m #6/cada = 1.246 m #7/cada = 1.699 m #8/cada = 2.238 m		#3/cada = 0.448 m #4/cada = 0.802 m #5/cada = 1.257 m #6/cada = 1.793 m #7/cada = 2.444 m #8/cada = 3.220 m	

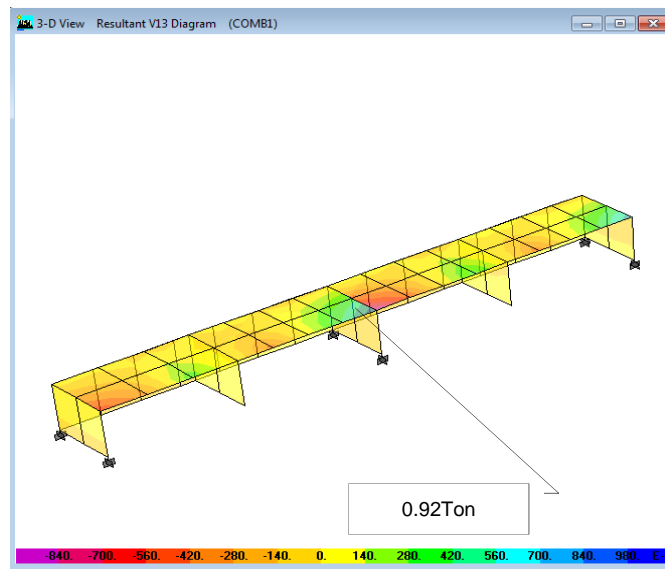
M11



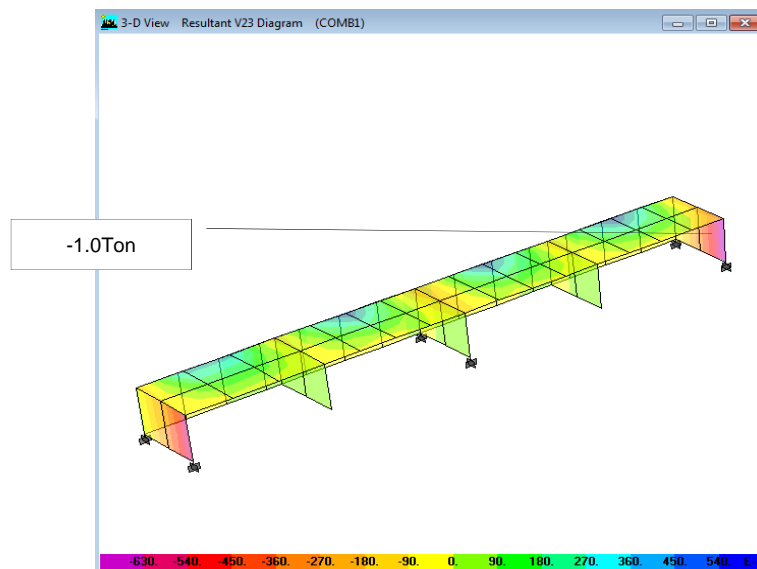
M22




V13





V23




CENTRO CRECER BLOQUE 2

	PROYECTO:	FECHA:
	CENTRO CRECER CALANDAIMA - BLOQUE 2	1/07/2018
	INGENIERO:	N.P.:
	IVAN MAURICIO GUEVARA	P-490
PLACA NE +0.10 e =0.10 m		
Espesor adoptado: 0.1 m		
Avaluó de Cargas: Ton / m ²		
Peso propio de placa	0.10 x 2.40	= 0.240
Acabados	0.05 x 2.20	= 0.110
Otros		= 0.000
	CM =	0.350
	CV =	0.500
	CR =	0.850
	CU = 1.2 CM + 1.6 CV	1.220
	MU=(W*L ²)/8 =	0.258
DISEÑO PLACA CUBIERTA ESCALERAS		
H = 10 cm	b = 100 cm	fy = 4200 kg/cm ²
L = 1.30 m	d = 5.00 cm	f'c = 280 kg/cm ²
<u>Chequeo a flexión MOMENTO</u>		<u>Chequeo a Cortante CORTANTE</u>
Coef. Durab. ϕ = 1.00		Vu = 0.79 T
Mu = 0.26 T-m		ϕV_c = 3.37 T
ϕMu = 0.26 T-m		
Por lo tanto:		Por lo tanto: Vu < ϕV_c
ρ = 0.0028		
As = 1.39 cm ² /m		
ρ_{min} = 0.0018		
As _{min} = 0.90 cm ² /m		
Se requiere: As = 1.39 cm ² /m		Se asume: No requiere refuerzo a Cortante
SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS		SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS

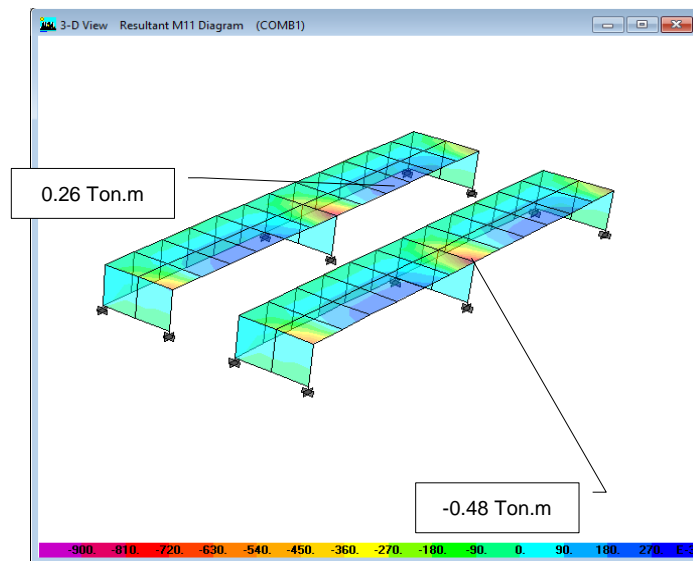
	PROYECTO:	FECHA:
	CENTRO CRECER CALANDAIMA - BLOQUE 2	1/07/2018
INGENIERO:	N.P.:	
IVAN MAURICIO GUEVARA	P-490	
TORTA SUPERIOR PLACA NE+4.15		
Espesor adoptado: 0.06 m Avaluo de Cargas: Ton / m ²		
Peso propio de placa	0.06 x 2.40	= 0.144
Acabados	0.05 x 2.20	= 0.110
Otros		= 0.050
	CM =	0.304
	CV =	0.500
	CR =	0.804
	CU = 1.2 CM + 1.6 CV	1.165
	MU = (W*L ²)/8 =	0.210
DISEÑO PLACA CUBIERTA ESCALERAS		
H = 6 cm	b = 100 cm	fy = 4200 kg/cm ²
L = 1.20 m	d = 3.00 cm	f'c = 280 kg/cm ²
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 M_u = 0.21 T-m ϕM_u = 0.21 T-m Por lo tanto: ρ = 0.0065 A_s = 1.95 cm ² /m ρ_{min} = 0.0018 $A_{s,min}$ = 0.54 cm ² /m Se requiere: A_s = 1.95 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> V_u = 0.70 T ϕV_c = 2.02 T Por lo tanto: $V_u < \phi V_c$ Se asume: No requiere refuerzo a Cortante
SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS		SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS

	PROYECTO:	CENTRO CRECER - BLOQUE 1	FECHA:	1/07/2018																																																
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-490																																																
TORTA INFERIOR PLACA NE+4.15																																																				
<p> Espesor adoptado: 0.04 m Avaluó de Cargas: Ton / m² </p> <table> <tr> <td>Peso propio de placa</td> <td>0.04</td> <td>x</td> <td>2.40</td> <td>=</td> <td>0.096</td> </tr> <tr> <td>Acabados</td> <td>0</td> <td>x</td> <td>2.20</td> <td>=</td> <td>0.000</td> </tr> <tr> <td>Otros</td> <td></td> <td></td> <td></td> <td>=</td> <td>0.050</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CM =</td> <td>0.146</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CV =</td> <td>0.000</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>CR =</td> <td>0.146</td> </tr> <tr> <td></td> <td colspan="3">CU = 1.2 CM + 1.6 CV</td> <td></td> <td>0.175</td> </tr> <tr> <td></td> <td colspan="3">MU=(W*L²)/8 =</td> <td></td> <td>0.032</td> </tr> </table>					Peso propio de placa	0.04	x	2.40	=	0.096	Acabados	0	x	2.20	=	0.000	Otros				=	0.050					CM =	0.146					CV =	0.000					CR =	0.146		CU = 1.2 CM + 1.6 CV				0.175		MU=(W*L ²)/8 =				0.032
Peso propio de placa	0.04	x	2.40	=	0.096																																															
Acabados	0	x	2.20	=	0.000																																															
Otros				=	0.050																																															
				CM =	0.146																																															
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	MU=(W*L ²)/8 =				0.032																																															
DISEÑO PLACA CUBIERTA ESCALERAS																																																				
<table> <tr> <td>H = 4 cm</td> <td>b = 100 cm</td> <td>fy =</td> <td>4200</td> <td>kg/cm²</td> </tr> <tr> <td>L = 1.20 m</td> <td>d = 2.00 cm</td> <td>f'c=</td> <td>280</td> <td>kg/cm²</td> </tr> </table>					H = 4 cm	b = 100 cm	fy =	4200	kg/cm ²	L = 1.20 m	d = 2.00 cm	f'c=	280	kg/cm ²																																						
H = 4 cm	b = 100 cm	fy =	4200	kg/cm ²																																																
L = 1.20 m	d = 2.00 cm	f'c=	280	kg/cm ²																																																
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 M_u = 0.03 T-m ϕM_u = 0.03 T-m Por lo tanto: ρ = 0.0021 A_s = 0.42 cm ² /m ρ_{min} = 0.0018 $A_{s,min}$ = 0.36 cm ² /m Se requiere: A_s = 0.42 cm ² /m			<u>Chequeo a Cortante CORTANTE</u> V_u = 0.11 T ϕV_c = 1.35 T Por lo tanto: $V_u < \phi V_c$ Se asume: No requiere refuerzo a Cortante																																																	
SE COLOCARA MALLA ELECTROSOLDADA DE 4 mm c/0.15 EN AMBOS SENTIDOS			SE COLOCARA MALLA ELECTROSOLDADA DE 4 mm c/0.15 EN AMBOS SENTIDOS																																																	

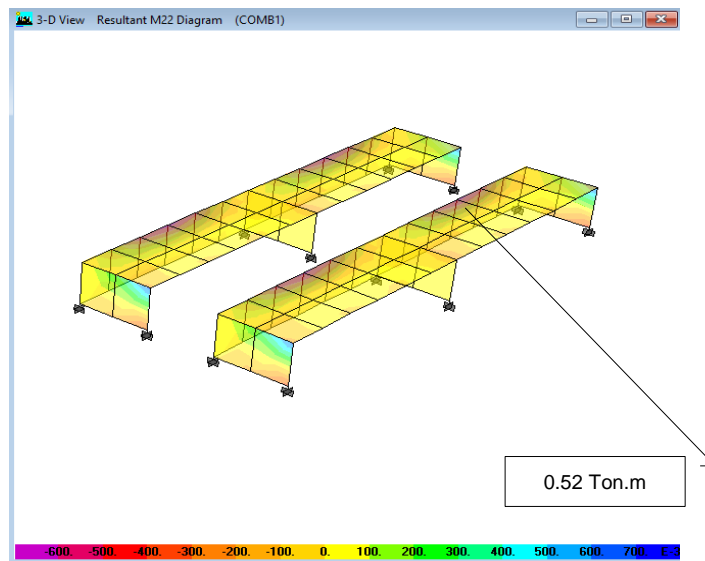
	PROYECTO:	FECHA:
	CENTRO CRECER CALANDAIMA - BLOQUE 2	1/07/2018
INGENIERO:	N.P.:	
IVAN MAURICIO GUEVARA	P-490	
PLACA VOLADIZO NE+4.15 e = 0.25 m		
Espesor adoptado: 0.25 m		
Avaluo de Cargas: Ton / m ²		
Peso propio de placa	0.25 x 2.40	= 0.600
Acabados	0.05 x 2.20	= 0.110
Otros		= 0.000
	CM =	0.710
	CV =	0.180
	CR =	0.890
	CU = 1.2 CM + 1.6 CV	1.140
	MU = (W*L ²)/8 =	0.143
DISEÑO PLACA CUBIERTA ESCALERAS		
H = 25 cm	b = 100 cm	fy = 4200 kg/cm ²
L = 1.00 m	d = 20.00 cm	f'c = 280 kg/cm ²
<u>Chequeo a flexión MOMENTO</u>		<u>Chequeo a Cortante CORTANTE</u>
Coef. Durab. ϕ = 1.00		Vu = 0.57 T
Mu = 0.57 T-m		ϕV_c = 13.49 T
Por lo tanto:		Por lo tanto: Vu < ϕV_c
ρ = 0.0004		
As = 0.76 cm ² /m		
ρ_{min} = 0.0018		
As _{min} = 2.25 cm ² /m		
Se requiere: As = 2.25 cm ² /m		Se asume: No requiere refuerzo a Cortante
SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS		SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS

REFUERZO LUCARNAS E-0.15m			
H = 15 cm	b = 100 cm d = 7.5 cm	f _y = 4200 kg/cm ² f'c = 210 kg/cm ²	
Chequeo a flexión MOMENTO M11 Coef. Durab. $\phi = 1.00$ $M_u = 0.48$ T-m $\phi M_u = 0.48$ T-m Por lo tanto: $\rho = 0.002314$ $\rho_{min} = 0.001800$ Por lo tanto $A_s = 2.70$ cm ² /m #3/cada = 0.263 m #4/cada = 0.470 m #5/cada = 0.737 m #6/cada = 1.052 m #7/cada = 1.433 m #8/cada = 1.889 m		Chequeo a flexión MOMENTO M22 $\phi = 1.00$ $M_u = 0.52$ T-m $\phi M_u = 0.52$ T-m Por lo tanto: $\rho = 0.002513$ $\rho_{min} = 0.001800$ Por lo tanto $A_s = 2.70$ cm ² /m #3/cada = 0.263 m #4/cada = 0.470 m #5/cada = 0.737 m #6/cada = 1.052 m #7/cada = 1.433 m #8/cada = 1.889 m	
CORTANTE V13 v_u (ton)= 1.14 ϕv_c (ton)= 4.32 CUMPLE		CORTANTE V23 v_u (ton)= 1.07 ϕv_c (ton)= 4.32 CUMPLE	
Varilla = # 3 Area varilla= 0.71 cm ² Sep. Varilla= 20 cm		Varilla = # 3 Area varilla= 0.71 cm ² Sep. Varilla= 20 cm	
$E_s = 2040000.00$ kg/cm ² $E_c = 181142.21$ kg/cm ² $n = 11.26$ $M_s = 0.32$ T-m $A_s = 3.55$ cm ² /m $\rho = 0.004733$ $k = 0.28$ $j = 0.91$ $j d = 6.81$ cm ² $f_s = 1324.40$ kg/cm ² $0.45 f_y = 1890.00$ kg/cm ² $z = 13243.99$ kg-cm cumple		$E_s = 2040000.00$ kg/cm ² $E_c = 181142.21$ kg/cm ² $n = 11.26$ $M_s = 0.35$ T-m $A_s = 3.55$ cm ² /m $\rho = 0.004733$ $k = 0.28$ $j = 0.91$ $j d = 6.81$ cm ² $f_s = 1434.77$ kg/cm ² $0.45 f_y = 1890.00$ kg/cm ² $z = 14347.66$ kg-cm cumple	
SE COLOCARA REFUERZO # 3 C/ 0.20 m		SE COLOCARA REFUERZO # 3 C/ 0.20 m	
MOMENTO DE AGRIETAMIENTO POR FLEXION $M_{cr} = 0.64$ T-m Por lo tanto: $\rho_{cr} = 0.003105$ Por lo tanto $A_{s_{cr}} = 2.33$ cm ² /m cumple		MOMENTO DE AGRIETAMIENTO POR FLEXION $M_{cr} = 0.69$ T-m Por lo tanto: $\rho_{cr} = 0.003374$ Por lo tanto $A_{s_{cr}} = 2.53$ cm ² /m cumple	
#3/cada = 0.305 m #4/cada = 0.545 m #5/cada = 0.855 m #6/cada = 1.220 m #7/cada = 1.662 m #8/cada = 2.190 m		#3/cada = 0.281 m #4/cada = 0.502 m #5/cada = 0.787 m #6/cada = 1.122 m #7/cada = 1.530 m #8/cada = 2.016 m	

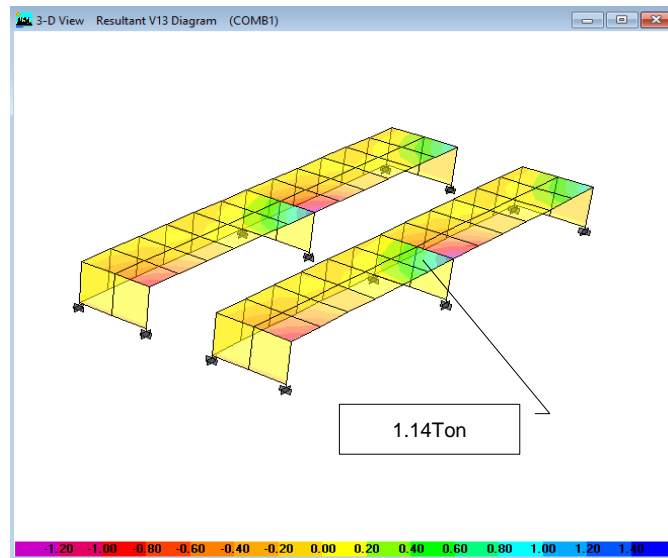
M11



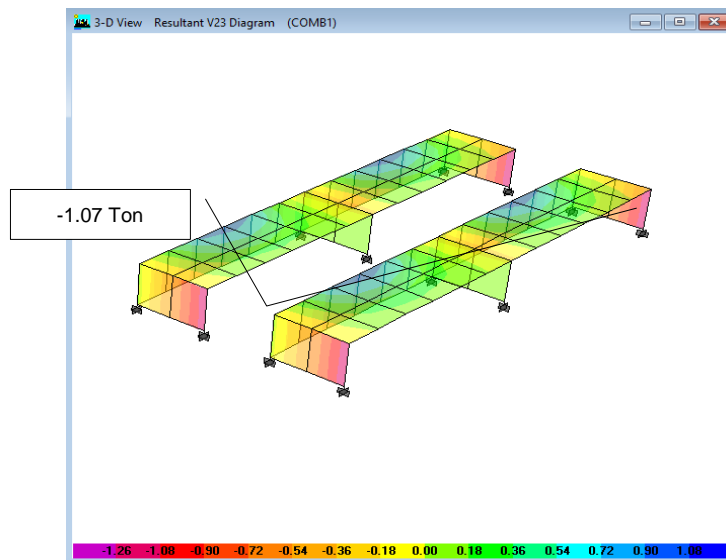
M22




V13





V23




CENTRO CRECER BLOQUE 3

	PROYECTO:	CENTRO CRECER - BLOQUE 3	FECHA:	1/07/2018				
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490				
PLACA NE +0.10 e =0.10 m								
Espesor adoptado: 0.1 m Avaluó de Cargas: Ton / m ²								
Peso propio de placa 0.10 x 2.40 = 0.240 Acabados 0.05 x 2.20 = 0.110 Otros = 0.000 CM = 0.350 CV = 0.500 CR = 0.850								
<table border="1"> <tr> <td>CU = 1.2 CM + 1.6 CV</td> <td>1.220</td> </tr> <tr> <td>MU=(W*L²)/8 =</td> <td>0.258</td> </tr> </table>					CU = 1.2 CM + 1.6 CV	1.220	MU=(W*L ²)/8 =	0.258
CU = 1.2 CM + 1.6 CV	1.220							
MU=(W*L ²)/8 =	0.258							
DISEÑO PLACA CUBIERTA ESCALERAS								
H = 10 cm b = 100 cm fy = 4200 kg/cm ² L = 1.30 m d = 5.00 cm f'c = 280 kg/cm ²								
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 Mu = 0.26 T-m ϕMu = 0.26 T-m Por lo tanto: ρ = 0.0028 As = 1.39 cm ² /m ρ_{min} = 0.0018 As _{min} = 0.90 cm ² /m Se requiere: As = 1.39 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> Vu = 0.79 T ϕVc = 3.37 T Por lo tanto: Vu < ϕVc Se asume: No requiere refuerzo a Cortante						
SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS		SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS						

	PROYECTO:	CENTRO CRECER - BLOQUE 3	FECHA:	1/07/2018				
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490				
TORTA SUPERIOR PLACA NE+4.25 Y 8.45								
Espesor adoptado: 0.06 m Avaluo de Cargas: Ton / m ²								
Peso propio de placa 0.06 x 2.40 = 0.144 Acabados 0.05 x 2.20 = 0.110 Otros = 0.050 CM = 0.304 CV = 0.500 CR = 0.804								
<table border="1"> <tr> <td>CU = 1.2 CM + 1.6 CV</td> <td>1.165</td> </tr> <tr> <td>MU=(W*L²)/8 =</td> <td>0.210</td> </tr> </table>					CU = 1.2 CM + 1.6 CV	1.165	MU=(W*L ²)/8 =	0.210
CU = 1.2 CM + 1.6 CV	1.165							
MU=(W*L ²)/8 =	0.210							
DISEÑO PLACA CUBIERTA ESCALERAS								
H = 6 cm b = 100 cm fy = 4200 kg/cm ² L = 1.20 m d = 3.00 cm f'c = 280 kg/cm ²								
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 Mu = 0.21 T-m ϕMu = 0.21 T-m Por lo tanto: ρ = 0.0065 As = 1.95 cm ² /m ρ_{min} = 0.0018 As _{min} = 0.54 cm ² /m Se requiere: As = 1.95 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> Vu = 0.70 T ϕVc = 2.02 T Por lo tanto: Vu < ϕVc Se asume: No requiere refuerzo a Cortante						
SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS		SE COLOCARA MALLA ELECTROSOLDADA DE 6.5 mm c/0.15 EN AMBOS SENTIDOS						


	PROYECTO:	CENTRO CRECER - BLOQUE 3	FECHA:	1/07/2018				
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P.:	P-18-490				
TORTA INFERIOR PLACA NE+4.25 Y 8.45								
Espesor adoptado: 0.04 m Avaluó de Cargas: Ton / m ²								
Peso propio de placa 0.04 x 2.40 = 0.096 Acabados 0 x 2.20 = 0.000 Otros = 0.050 CM = 0.146 CV = 0.000 CR = 0.146								
<table border="1"> <tr> <td>CU = 1.2 CM + 1.6 CV</td> <td>0.175</td> </tr> <tr> <td>MU = (W*L²)/8 =</td> <td>0.032</td> </tr> </table>					CU = 1.2 CM + 1.6 CV	0.175	MU = (W*L ²)/8 =	0.032
CU = 1.2 CM + 1.6 CV	0.175							
MU = (W*L ²)/8 =	0.032							
DISEÑO PLACA CUBIERTA ESCALERAS								
H = 4 cm b = 100 cm fy = 4200 kg/cm ² L = 1.20 m d = 2.00 cm f'c = 280 kg/cm ²								
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 Mu = 0.03 T-m ϕMu = 0.03 T-m Por lo tanto: ρ = 0.0021 As = 0.42 cm ² /m ρ_{min} = 0.0018 As _{min} = 0.36 cm ² /m Se requiere: As = 0.42 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> Vu = 0.11 T ϕVc = 1.35 T Por lo tanto: Vu < ϕVc Se asume: No requiere refuerzo a Cortante						
SE COLOCARA MALLA ELECTROSOLDADA DE 4 mm c/0.15 EN AMBOS SENTIDOS		SE COLOCARA MALLA ELECTROSOLDADA DE 4 mm c/0.15 EN AMBOS SENTIDOS						

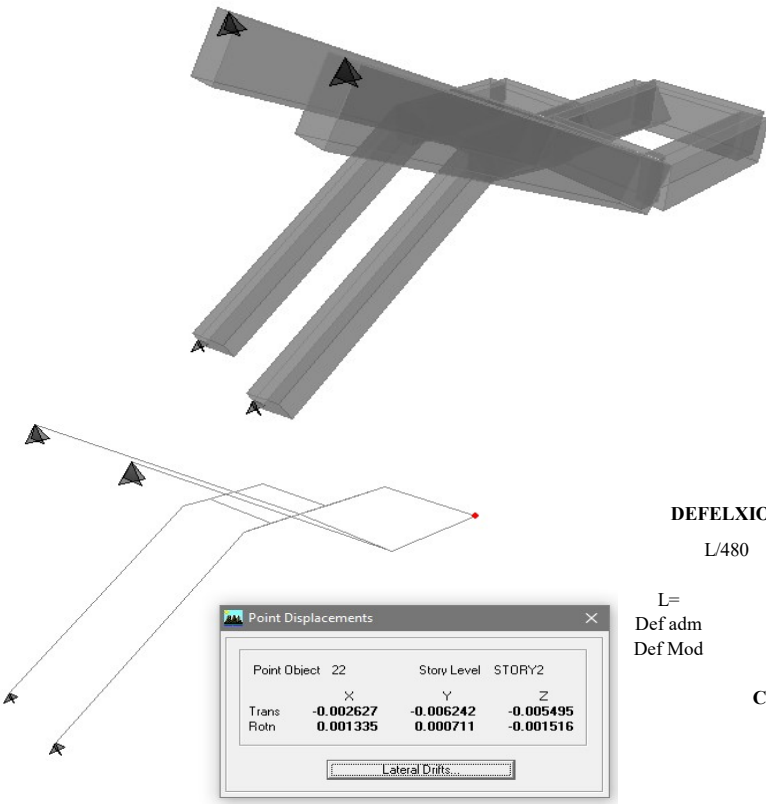
	PROYECTO:	CENTRO CRECER - BLOQUE 3	FECHA:	1/07/2018				
	INGENIERO:	IVAN MAURICIO GUEVARA	N.P :	P-490				
PLACA VOLADIZO NE+4.25 e = 0.25 m								
Espesor adoptado: 0.25 m Avaluo de Cargas: Ton / m ²								
Peso propio de placa 0.25 x 2.40 = 0.600 Acabados 0.05 x 2.20 = 0.110 Otros = 0.000 CM = 0.710 CV = 0.180 CR = 0.890								
<table border="1"> <tr> <td>CU = 1.2 CM + 1.6 CV</td> <td>1.140</td> </tr> <tr> <td>MU=(W*L²)/8 =</td> <td>0.123</td> </tr> </table>					CU = 1.2 CM + 1.6 CV	1.140	MU=(W*L ²)/8 =	0.123
CU = 1.2 CM + 1.6 CV	1.140							
MU=(W*L ²)/8 =	0.123							
DISEÑO PLACA CUBIERTA ESCALERAS								
H = 25 cm b = 100 cm fy = 4200 kg/cm ² L = 0.93 m d = 20.00 cm f'c = 280 kg/cm ²								
<u>Chequeo a flexión MOMENTO</u> Coef. Durab. ϕ = 1.00 Mu = 0.49 T-m ϕMu = 0.49 T-m Por lo tanto: ρ = 0.0003 As = 0.65 cm ² /m ρ_{min} = 0.0018 As _{min} = 2.25 cm ² /m Se requiere: As = 2.25 cm ² /m		<u>Chequeo a Cortante CORTANTE</u> Vu = 0.53 T ϕVc = 13.49 T Por lo tanto: Vu < ϕVc Se asume: No requiere refuerzo a Cortante						
SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS		SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS						

ESCALERA BLOQUE 3 CENTRO CRECER

CAPITULO 1

EVALUACIÓN DE CARGAS

	PROYECTO:	FECHA:
	CENTRO CRECER - ESCALERA BLOQUE 3	1/07/2018
	INGENIERO:	N.P :
	IVAN MAURICIO GUEVARA R.	P-18-490

ESCALERA CON VIGA GUALDERAS												
EVALUACION DE CARGAS												
Carga Muerta Adicional (CM)												
<table border="0"> <tr> <td>Placa e=0.10m</td> <td align="right">240</td> <td align="right">Kg/m²</td> </tr> <tr> <td>Acabados</td> <td align="right">110</td> <td align="right">Kg/m²</td> </tr> <tr> <td>Escalones</td> <td align="right">100</td> <td align="right">Kg/m²</td> </tr> <tr> <td>Barandas</td> <td align="right">135</td> <td align="right">Kg/m²</td> </tr> </table>	Placa e=0.10m	240	Kg/m ²	Acabados	110	Kg/m ²	Escalones	100	Kg/m ²	Barandas	135	Kg/m ²
Placa e=0.10m	240	Kg/m ²										
Acabados	110	Kg/m ²										
Escalones	100	Kg/m ²										
Barandas	135	Kg/m ²										
Carga Viva (CV)												
500 Kg/m ²												
ESQUEMA DE MODELACION Y DEFLEXIONES												
 <div style="margin-top: 20px;"> <p>DEFELXION ADMISIBLE</p> <p align="center">L/480</p> <table border="0"> <tr> <td>L=</td> <td align="right">4.00</td> <td align="right">m</td> </tr> <tr> <td>Def adm</td> <td align="right">0.83</td> <td align="right">cm</td> </tr> <tr> <td>Def Mod</td> <td align="right">0.55</td> <td align="right">cm</td> </tr> </table> <p align="right">Cumple</p> </div>	L=	4.00	m	Def adm	0.83	cm	Def Mod	0.55	cm			
L=	4.00	m										
Def adm	0.83	cm										
Def Mod	0.55	cm										
CARGAS SOBRE VIGAS GUALDERAS												
<table border="1"> <thead> <tr> <th>TIPO</th> <th>LONG. AFERENTE (m)</th> <th>CM (Kg/m)</th> <th>CV (Kg/m)</th> </tr> </thead> <tbody> <tr> <td>VIGAS 25X50</td> <td align="center">0.70</td> <td align="center">450.00</td> <td align="center">350.00</td> </tr> </tbody> </table>	TIPO	LONG. AFERENTE (m)	CM (Kg/m)	CV (Kg/m)	VIGAS 25X50	0.70	450.00	350.00				
TIPO	LONG. AFERENTE (m)	CM (Kg/m)	CV (Kg/m)									
VIGAS 25X50	0.70	450.00	350.00									

CAPITULO 2

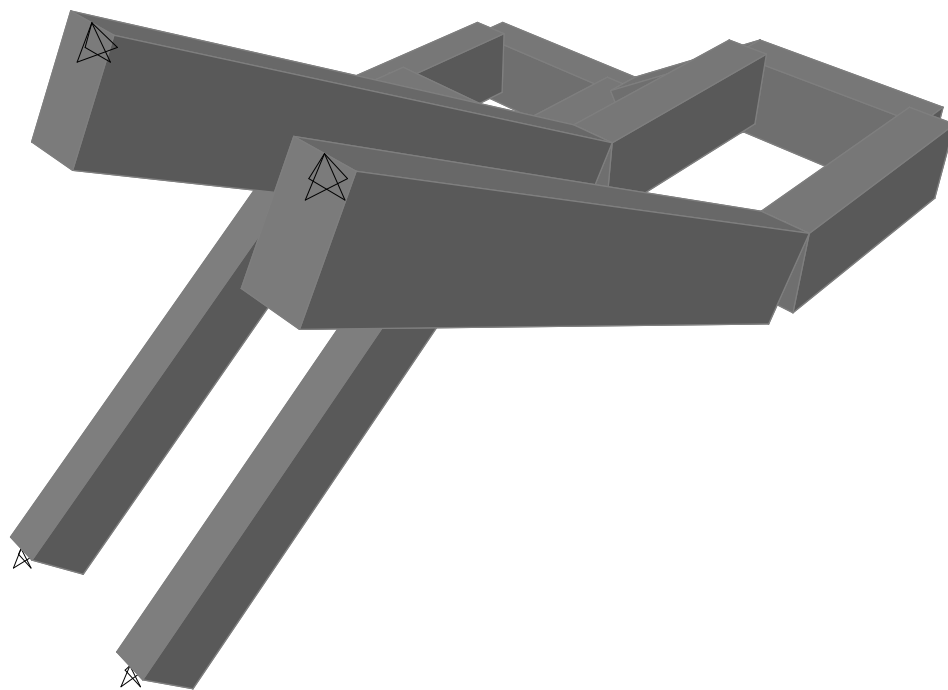
ESTRUCTURACION

2.1 MODELO

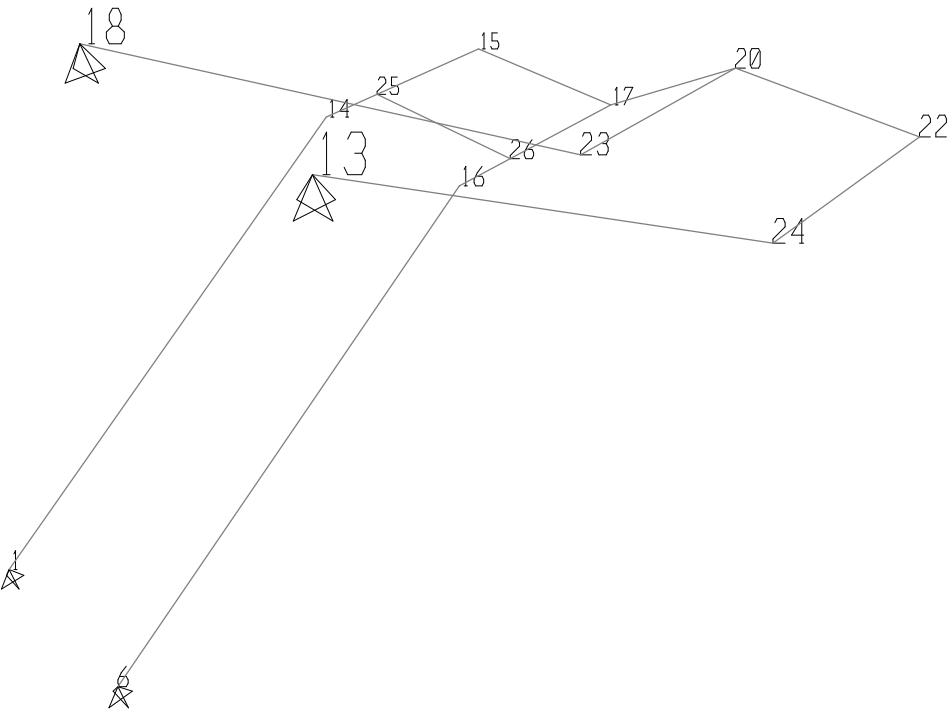
El modelo de la estructura fue hecho con el software SAP 2000 versión 14.1.0. En este programa se hizo una combinación de herramientas utilizando elementos tipo Frame para la simulación de las vigas.

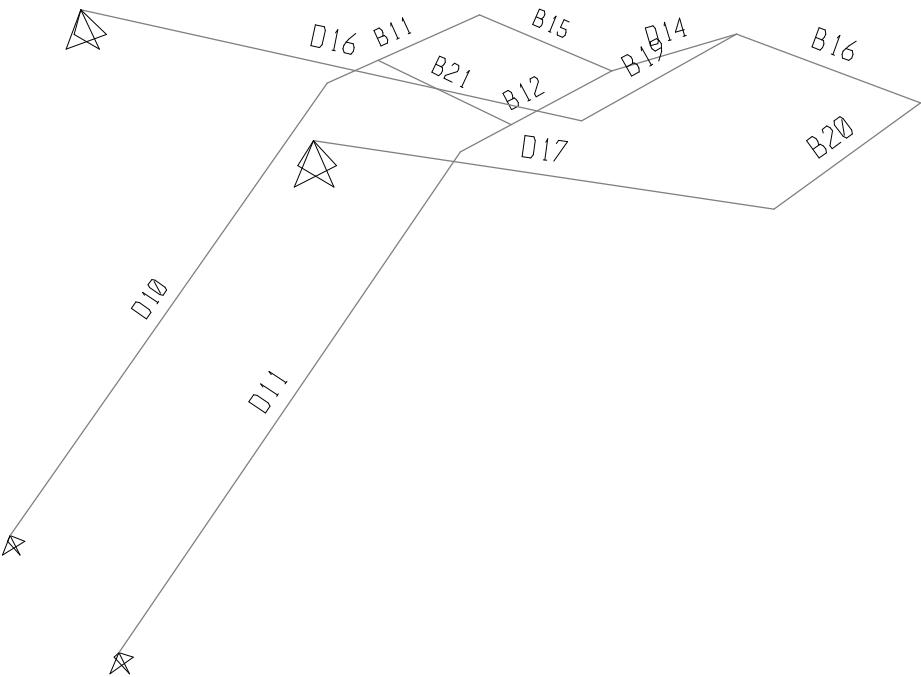
Los apoyos de las vigas son apoyos simples.

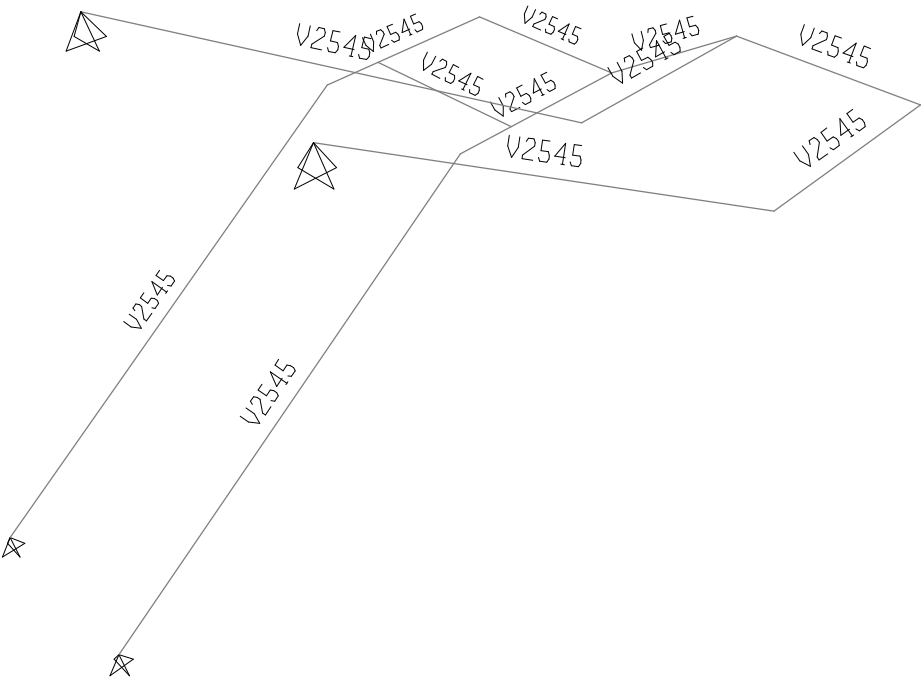
El sistema de cargas de la estructura es estático para cargas muertas y vivas.

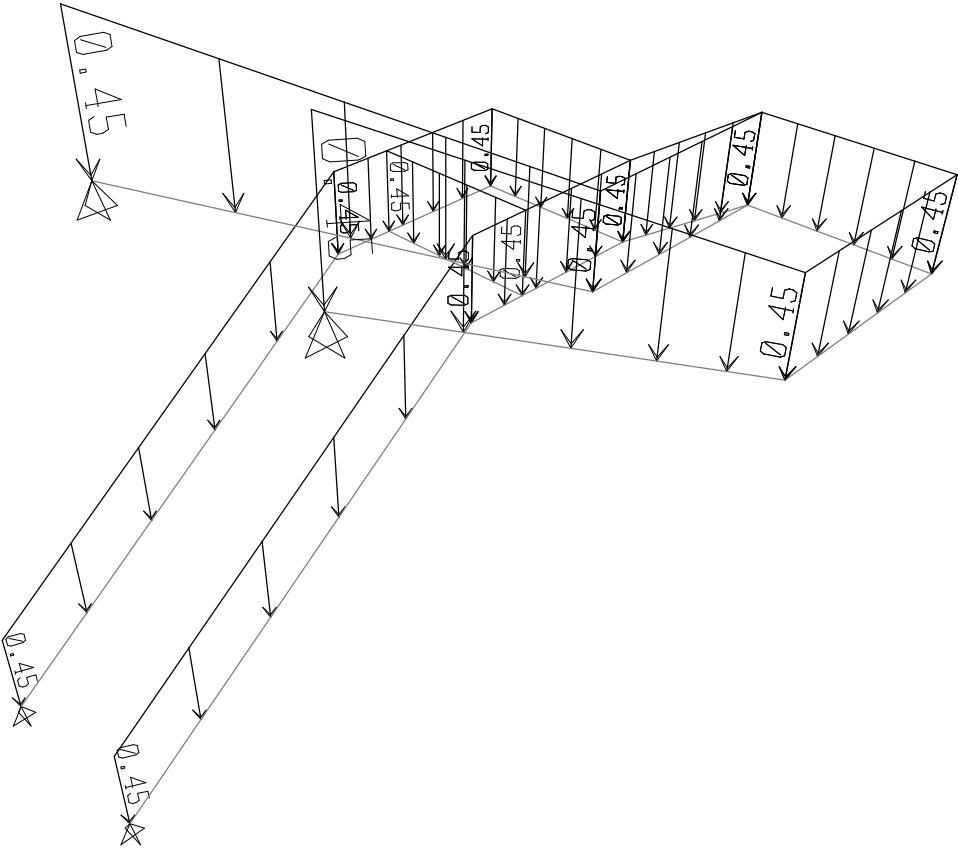


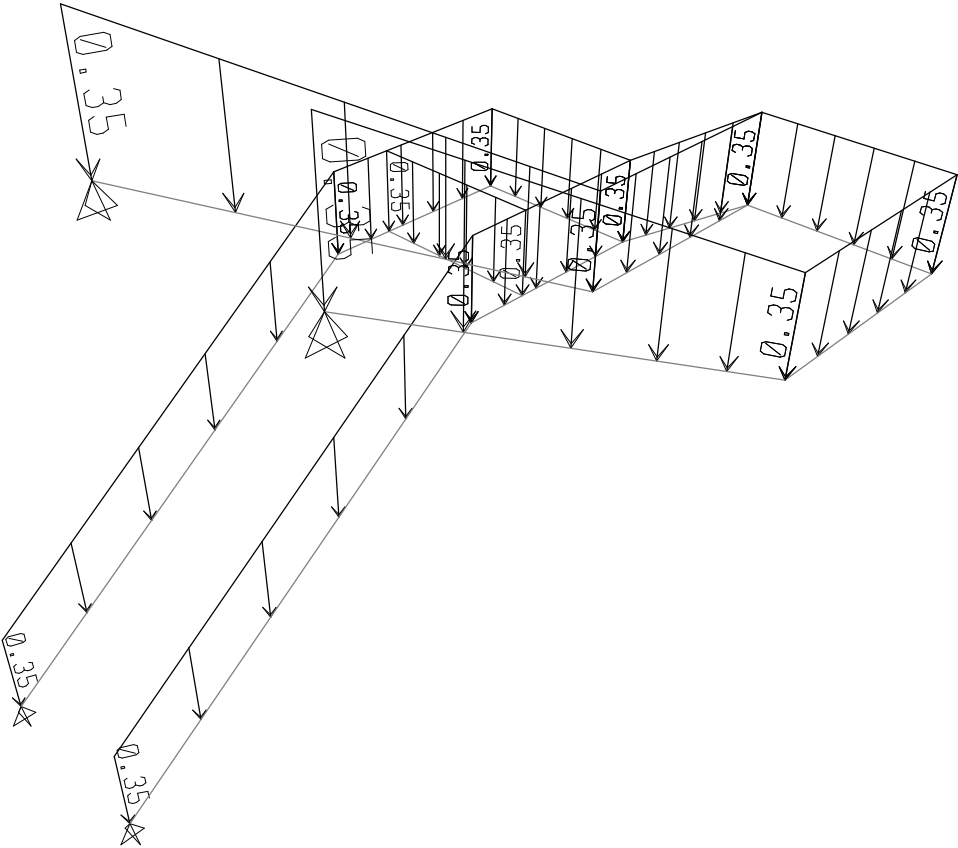
2.2 NUDOS Y CARGAS











CAPITULO 3 COMBINACIONES



PROYECTO:

CENTRO CRECER - ESCALERA BLOQUE 3

FECHA:

1/07/2018

INGENIERO:

IVAN MAURICIO GUEVARA R.

N.P.:

P-18-490

ANALISIS ESTRUCTURA

COMBINACIONES DE CARGAS

1. 1.40 C.M.
2. 1.20 C.M. + 1.60 C.V.
3. 1.20 C.M. + 1.60 C.V. + 0.50 W
4. 1.20 C.M. + 1.60 C.V. - 0.50 W
5. 1.20 C.M. + 0.50 C.V. + 1.00 W
6. 1.20 C.M. + 0.50 C.V. - 1.00 W
7. 0.90 C.M. + 1.00 W
8. 0.90 C.M. - 1.00 W

C.M. = Carga Muerta
C.V. = Carga Viva
W = Carga de viento

CAPITULO 4

DISEÑO ESTRUCTURAL

CENTRO CRECER BLOQUE 3**VE-01/NE VAR**

B=0.25 H=0.45 L=3.30			B=0.25 H=0.45 L=0.71		
Mu=-0.00	Mu=-0.00	Mu=-0.00	Mu=-0.44	Mu=-0.44	Mu=-0.87
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Mu=0.00	Mu=2.64	Mu=2.20	Mu=2.20	Mu=0.49	Mu=0.44
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Vu=-2.52	Vu=-0.67	Vu=1.19	Vu=5.87	Vu=2.46	Vu=2.46

VE-02/NE VAR

B=0.25 H=0.45 L=2.85			B=0.25 H=0.45 L=0.25			B=0.25 H=0.45 L=0.71		
Mu=-0.00	Mu=-0.00	Mu=-1.23	Mu=-1.17	Mu=-2.31	Mu=-4.12	Mu=-6.49	Mu=-1.30	Mu=-1.30
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=453.35	As=330.00	As=330.00
Mu=0.00	Mu=0.16	Mu=0.25	Mu=0.82	Mu=0.82	Mu=1.37	Mu=2.16	Mu=1.30	Mu=4.44
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Vu=-0.61	Vu=0.50	Vu=1.76	Vu=1.72	Vu=2.36	Vu=3.10	Vu=-14.64	Vu=-6.66	Vu=-5.69

VE-06/NE+2.08

B=0.25 H=0.45 L=0.90		
Mu=-0.00	Mu=-2.02	Mu=-5.81
As=330.00	As=330.00	As=403.33
Mu=1.30	Mu=0.00	Mu=1.16
As=330.00	As=330.00	As=330.00
Vu=5.37	Vu=6.18	Vu=7.00

VE-05/NE VAR

B=0.25 H=0.45 L=0.90			B=0.25 H=0.45 L=0.81			B=0.25 H=0.45 L=0.87		
Mu=-1.06	Mu=-2.71	Mu=-4.83	Mu=-6.17	Mu=-5.72	Mu=-5.56	Mu=-4.96	Mu=-2.57	Mu=-0.62
As=330.00	As=330.00	As=332.30	As=430.10	As=401.72	As=386.05	As=341.71	As=330.00	As=330.00
Mu=0.00	Mu=0.00	Mu=0.97	Mu=2.06	Mu=1.23	Mu=1.85	Mu=0.99	Mu=0.00	Mu=0.00
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Vu=2.46	Vu=3.27	Vu=4.09	Vu=-1.20	Vu=-0.61	Vu=-0.01	Vu=-4.67	Vu=-3.88	Vu=-3.08

CENTRO CRECER BLOQUE 3**VE-07/NE VAR**

B=0.20 H=0.45 L=0.81			B=0.20 H=0.45 L=0.87		
Mu=-5.35	Mu=-5.03	Mu=-4.99	Mu=-5.63	Mu=-2.07	Mu=-0.00
As=374.38	As=353.72	As=348.11	As=395.19	As=264.00	As=264.00
Mu=1.78	Mu=1.07	Mu=1.66	Mu=1.13	Mu=0.00	Mu=1.06
As=264.00	As=264.00	As=264.00	As=264.00	As=264.00	As=264.00
Vu=-0.92	Vu=-0.35	Vu=0.21	Vu=-6.73	Vu=-5.97	Vu=-5.22

VE-03/NE VAR

B=0.25 H=0.45 L=1.16			B=0.25 H=0.45 L=2.74		
Mu=-0.00	Mu=-0.00	Mu=-4.05	Mu=-2.06	Mu=-0.00	Mu=-0.00
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Mu=3.50	Mu=0.06	Mu=0.81	Mu=0.41	Mu=0.41	Mu=0.00
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Vu=-4.50	Vu=-5.47	Vu=-6.45	Vu=-2.54	Vu=-0.69	Vu=1.17

VE-04/NE VAR

B=0.25 H=0.45 L=1.16			B=0.25 H=0.45 L=2.74		
Mu=-0.52	Mu=-0.48	Mu=-0.48	Mu=-0.00	Mu=-0.00	Mu=-0.00
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Mu=0.48	Mu=1.27	Mu=2.38	Mu=2.37	Mu=2.58	Mu=0.00
As=330.00	As=330.00	As=330.00	As=330.00	As=330.00	As=330.00
Vu=3.08	Vu=2.11	Vu=1.13	Vu=-1.07	Vu=0.79	Vu=2.64

PLACA ESCALERA BLOQUE 3					
Espesor adoptado:		0.1	m		
Avaluo de Cargas:					Ton / m ²
Peso propio de placa	0.10	x	2.40	=	0.240
Acabados	0.05	x	2.20	=	0.110
Otros				=	0.200
				CM =	0.550
				CV =	0.180
				CR =	0.730
CU = 1.2 CM + 1.6 CV					0.948
MU=(W*L ²)/8 =					0.232
DISEÑO PLACA CUBIERTA ESCALERAS					
H = 10 cm	b = 100 cm	fy =	4200	kg/cm ²	
L = 1.40 m	d = 5.00 cm	f'c=	210	kg/cm ²	
<u>Chequeo a flexión MOMENTO</u>			<u>Chequeo a Cortante CORTANTE</u>		
Coef. Durab.	φ =	1.00		Vu	0.66 T
	Mu =	0.23 T-m		φVc =	2.92 T
	φMu =	0.23 T-m			
Por lo tanto:			Por lo tanto:	Vu	< φVc
	ρ =	0.0025			
	As =	1.26 cm ² /m			
	ρ _{min} =	0.0018			
	As _{min} =	0.90 cm ² /m			
Se requiere:	As =	1.26 cm ² /m	Se asume:	No requiere refuerzo a Cortante	
SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS			SE COLOCARAN BARRAS # 3 c/0.15 EN AMBOS SENTIDOS		

CAPITULO 13
CIMENTACIONES

CÁLCULO DE PILOTES CARGAS GRAVITACIONALES

Longitud del Pilote (L): 15.00 m

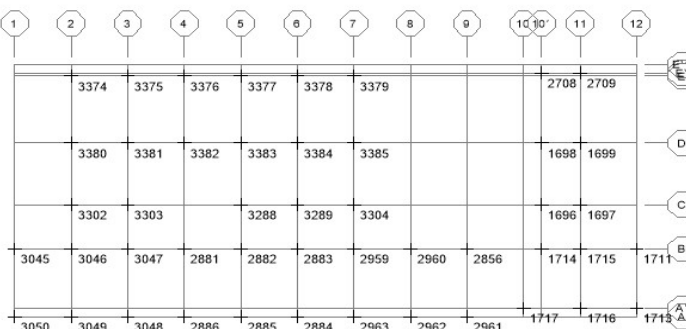
f'c= 21 MPa

Porcentaje de Carga (%): 100%

fy= 420 MPa

NUDO	LOC EJE	Combo	Carga [P] (Ton)	P.P Cim (Ton)	Carga T (Ton)	Prof m	ϕf (m)	Cp. (Ton)	Cant.		Vol. (m³)	Pmax (Ton)		
									(Pil.)	(und.)				
3374	-	CIM1	61.47	2.27	63.74	15.00	0.60	41.80	1.52	2.0	8.48	148.44	O.K	O.K
3375	-	CIM1	86.30	3.45	89.75	15.00	0.60	41.80	2.15	3.0	12.72	148.44	O.K	O.K
3376	-	CIM1	82.01	3.45	85.46	15.00	0.60	41.80	2.04	3.0	12.72	148.44	O.K	O.K
3377	-	CIM1	86.78	3.45	90.23	15.00	0.60	41.80	2.16	3.0	12.72	148.44	O.K	O.K
3378	-	CIM1	85.33	3.45	88.78	15.00	0.60	41.80	2.12	3.0	12.72	148.44	O.K	O.K
3379	-	CIM1	58.91	2.27	61.18	15.00	0.60	41.80	1.46	2.0	8.48	148.44	O.K	O.K
3380	-	CIM1	112.80	3.45	116.25	15.00	0.60	41.80	2.78	3.0	12.72	148.44	O.K	O.K
3381	-	CIM1	140.10	5.10	145.20	15.00	0.60	41.80	3.47	4.0	16.96	148.44	O.K	O.K
3382	-	CIM1	85.60	3.45	89.05	15.00	0.60	41.80	2.13	3.0	12.72	148.44	O.K	O.K
3383	-	CIM1	126.00	5.10	131.10	15.00	0.60	41.80	3.14	4.0	16.96	148.44	O.K	O.K
3384	-	CIM1	156.43	5.10	161.53	15.00	0.60	41.80	3.86	4.0	16.96	148.44	O.K	O.K
3385	-	CIM1	114.04	3.45	117.49	15.00	0.60	41.80	2.81	3.0	12.72	148.44	O.K	O.K
3302	-	CIM1	81.17	3.45	84.62	15.00	0.60	41.80	2.02	3.0	12.72	148.44	O.K	O.K
3303	-	CIM1	96.54	3.45	99.99	15.00	0.60	41.80	2.39	3.0	12.72	148.44	O.K	O.K
3288	-	CIM1	77.77	2.27	80.04	15.00	0.60	41.80	1.91	2.0	8.48	148.44	O.K	O.K
3289	-	CIM1	103.43	3.45	106.88	15.00	0.60	41.80	2.56	3.0	12.72	148.44	O.K	O.K
3304	-	CIM1	81.44	3.45	84.89	15.00	0.60	41.80	2.03	3.0	12.72	148.44	O.K	O.K
3306	-	CIM1	9.82	0.70	10.52	15.00	0.60	41.80	0.25	1.0	4.24	148.44	O.K	O.K
3343	-	CIM1	19.58	0.70	20.28	15.00	0.60	41.80	0.49	1.0	4.24	148.44	O.K	O.K
2819	-	CIM1	24.76	0.70	25.46	15.00	0.60	41.80	0.61	1.0	4.24	148.44	O.K	O.K

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R



Observaciones:

Cant. Total: 54 Pilotes

Vol. Total: 229.02 m³

PROYECTO:

CENTRO CRECER CAMPO ALEGRE BLOQUE 1

FECHA:
ago-18

INGENIERO:

IVÁN MAURICIO GUEVARA

N.P:
P-18-490

CÁLCULO DE PILOTES CARGAS GRAVITACIONALES + SISMO

Longitud del Pilote (L): 15.00 m

 $f'c = 21 \text{ MPa}$

Porcentaje de Carga (%): 100%

 $f_y = 420 \text{ MPa}$

NUDO	LOC EJE	Combo	Carga [P]	P.P Cim	Carga T	Prof m	ϕf	Cp.	Cant.		Vol. (m³)	Pmax		
			(Ton)	(Ton)	(Ton)		(m)		(Ton)	(Pil.)		(und.)	(Ton)	(Ton)
3374	-	CIM2-7	59.37	2.27	61.64	15.00	0.60	41.80	1.47	2.0	8.48	148.44	O.K	O.K
3375	-	CIM2-7	82.61	3.45	86.06	15.00	0.60	41.80	2.06	3.0	12.72	148.44	O.K	O.K
3376	-	CIM2-7	78.70	3.45	82.15	15.00	0.60	41.80	1.97	3.0	12.72	148.44	O.K	O.K
3377	-	CIM2-7	82.58	3.45	86.03	15.00	0.60	41.80	2.06	3.0	12.72	148.44	O.K	O.K
3378	-	CIM2-7	81.05	3.45	84.50	15.00	0.60	41.80	2.02	3.0	12.72	148.44	O.K	O.K
3379	-	CIM2-7	56.80	2.27	59.07	15.00	0.60	41.80	1.41	2.0	8.48	148.44	O.K	O.K
3380	-	CIM2-7	107.71	3.45	111.16	15.00	0.60	41.80	2.66	3.0	12.72	148.44	O.K	O.K
3381	-	CIM2-7	133.03	5.10	138.13	15.00	0.60	41.80	3.30	4.0	16.96	148.44	O.K	O.K
3382	-	CIM2-7	82.17	3.45	85.62	15.00	0.60	41.80	2.05	3.0	12.72	148.44	O.K	O.K
3383	-	CIM2-7	118.39	5.10	123.49	15.00	0.60	41.80	2.95	4.0	16.96	148.44	O.K	O.K
3384	-	CIM2-7	146.45	5.10	151.55	15.00	0.60	41.80	3.63	4.0	16.96	148.44	O.K	O.K
3385	-	CIM2-7	108.43	3.45	111.88	15.00	0.60	41.80	2.68	3.0	12.72	148.44	O.K	O.K
3302	-	CIM2-7	76.70	3.45	80.15	15.00	0.60	41.80	1.92	3.0	12.72	148.44	O.K	O.K
3303	-	CIM2-7	91.21	3.45	94.66	15.00	0.60	41.80	2.26	3.0	12.72	148.44	O.K	O.K
3288	-	CIM2-7	72.72	2.27	74.99	15.00	0.60	41.80	1.79	2.0	8.48	148.44	O.K	O.K
3289	-	CIM2-7	96.70	3.45	100.15	15.00	0.60	41.80	2.40	3.0	12.72	148.44	O.K	O.K
3304	-	CIM2-7	76.54	3.45	79.99	15.00	0.60	41.80	1.91	3.0	12.72	148.44	O.K	O.K
3306	-	CIM2-7	9.14	0.70	9.84	15.00	0.60	41.80	0.24	1.0	4.24	148.44	O.K	O.K
3343	-	CIM2-7	17.90	0.70	18.60	15.00	0.60	41.80	0.44	1.0	4.24	148.44	O.K	O.K
2819	-	CIM2-7	22.67	0.70	23.37	15.00	0.60	41.80	0.56	1.0	4.24	148.44	O.K	O.K

COMBINACIONES

CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R

1	2	3	4	5	6	7	8	9	10	11	12	
	3374	3375	3376	3377	3378	3379				2708	2709	
	3380	3381	3382	3383	3384	3385				1698	1699	
	3302	3303		3288	3289	3304				1696	1697	
3045	3046	3047	2881	2882	2883	2959	2960	2856		1714	1715	1711
3050	3049	3048	2886	2885	2884	2963	2962	2961	1717	1716	1715	

Observaciones:

Cant. Total:

54 Pilotes

Vol. Total:

229.02 m³

PROYECTO:

CENTRO CRECER CAMPO ALEGRE BLOQUE 1

FECHA:
ago-18

INGENIERO:

IVÁN MAURICIO GUEVARA

N.P:
P-18-490

CHEQUEO DE PILOTES CARGAS GRAVITACIONALES + SISMO

Longitud del Pilote (L): 15.00 m

$f'c = 21 \text{ MPa}$

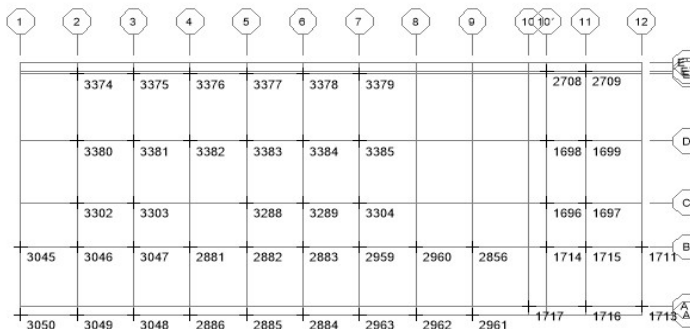
Porcentaje de Carga (%): 100%

$f_y = 420 \text{ MPa}$


NUDO	LOC EJE	Combo	P.P Cim (Ton)	Carga [P] (Ton)	Pmax (Ton)		Prof m	φf (m)	Cp. (Ton)	Cant.		combo	Carga [P] (Ton)	Pmax (Ton)	
										(Pil.)	(und.)				
3374	-	CIM8-9	2.27	62.8	195.94	O.K	15.00	0.60	41.80	1.52	2.00	CIM10-11	73.2	207.82	O.K
3375	-	CIM8-9	3.45	87.2	195.94	O.K	15.00	0.60	41.80	2.15	3.00	CIM10-11	101.3	207.82	O.K
3376	-	CIM8-9	3.45	83.0	195.94	O.K	15.00	0.60	41.80	2.04	3.00	CIM10-11	96.6	207.82	O.K
3377	-	CIM8-9	3.45	87.7	195.94	O.K	15.00	0.60	41.80	2.16	3.00	CIM10-11	101.5	207.82	O.K
3378	-	CIM8-9	3.45	86.3	195.94	O.K	15.00	0.60	41.80	2.12	3.00	CIM10-11	99.8	207.82	O.K
3379	-	CIM8-9	2.27	60.5	195.94	O.K	15.00	0.60	41.80	1.46	2.00	CIM10-11	70.3	207.82	O.K
3380	-	CIM8-9	3.45	114.0	195.94	O.K	15.00	0.60	41.80	2.78	3.00	CIM10-11	132.3	207.82	O.K
3381	-	CIM8-9	5.10	140.3	195.94	O.K	15.00	0.60	41.80	3.47	4.00	CIM10-11	162.6	207.82	O.K
3382	-	CIM8-9	3.45	86.5	195.94	O.K	15.00	0.60	41.80	2.13	3.00	CIM10-11	100.7	207.82	O.K
3383	-	CIM8-9	5.10	126.1	195.94	O.K	15.00	0.60	41.80	3.14	4.00	CIM10-11	145.2	207.82	O.K
3384	-	CIM8-9	5.10	157.1	195.94	O.K	15.00	0.60	41.80	3.86	4.00	CIM10-11	180.3	207.82	O.K
3385	-	CIM8-9	3.45	115.9	195.94	O.K	15.00	0.60	41.80	2.81	3.00	CIM10-11	133.9	207.82	O.K
3302	-	CIM8-9	3.45	82.5	195.94	O.K	15.00	0.60	41.80	2.02	3.00	CIM10-11	94.9	207.82	O.K
3303	-	CIM8-9	3.45	97.9	195.94	O.K	15.00	0.60	41.80	2.39	3.00	CIM10-11	112.7	207.82	O.K
3288	-	CIM8-9	2.27	78.9	195.94	O.K	15.00	0.60	41.80	1.91	2.00	CIM10-11	90.2	207.82	O.K
3289	-	CIM8-9	3.45	104.3	195.94	O.K	15.00	0.60	41.80	2.56	3.00	CIM10-11	119.5	207.82	O.K
3304	-	CIM8-9	3.45	82.6	195.94	O.K	15.00	0.60	41.80	2.03	3.00	CIM10-11	94.8	207.82	O.K
3306	-	CIM8-9	0.70	9.9	195.94	O.K	15.00	0.60	41.80	0.25	1.00	CIM10-11	11.3	207.82	O.K
3343	-	CIM8-9	0.70	19.7	195.94	O.K	15.00	0.60	41.80	0.49	1.00	CIM10-11	22.3	207.82	O.K
2819	-	CIM8-9	0.70	24.9	195.94	O.K	15.00	0.60	41.80	0.61	1.00	CIM10-11	28.1	207.82	O.K


COMBINACIONES

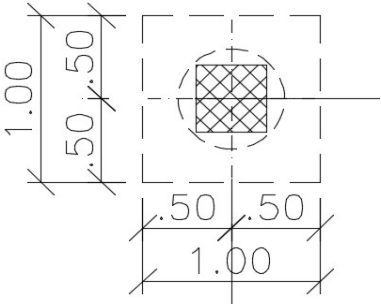
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R




Observaciones:

			PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 1								FECHA:	
			INGENIERO:	IVÁN MAURICIO GUEVARA								N.P: ago-18	
P-18-490													
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	2819		CM+CV	24.76	0	0	0	1	24.76	24.76	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	0.00	0.00	24.76	0.70	0.00	0.00	0.0000	0.0000	1.00	0.00	0.00	25.46	25.46
CAPACIDAD DEL PILOTE													41.8
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	3288		CM+CV	77.77	0	0	0	2	77.77	77.77	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	-0.75	0.00	77.77	2.27	0.00	0.00	1.1250	0.0000	2.00	0.00	0.00	40.02	40.02
2	0.75	0.00								0.00	0.00	40.02	40.02
CAPACIDAD DEL PILOTE													41.8
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	3385		CM+CV	114.04	0	0	0	3	114.04	114.04	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	0.00	0.87	114.04	3.45	0	0	1.1250	1.1267	3	0.00	0.00	39.16	39.16
2	0.75	-0.43								0.00	0.00	39.16	39.16
3	-0.75	-0.43								0.00	0.00	39.16	39.16
CAPACIDAD DEL PILOTE													41.8
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	3384		CM+CV	156.43	0	0	0	4	156.43	156.43	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	-0.75	0.75	156.43	5.10	0	0	2.2500	2.2500	4	0.00	0.00	39.11	39.11
2	0.75	0.75								0.00	0.00	39.11	39.11
3	-0.75	-0.75								0.00	0.00	39.11	39.11
4	0.75	-0.75								0.00	0.00	39.11	39.11
CAPACIDAD DEL PILOTE													41.8

	PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 1	FECHA:	ago-18
	INGENIERO:	IVÁN MAURICIO GUEVARA	N.P:	P-18-490

DISEÑO DE DADOS RÍGIDOS MEDIANTE EL MÉTODO DE BIELAS Y TIRANTE										
<p style="text-align: center;">DADO D-1</p> <div style="display: flex; justify-content: space-between;"> <div> <p> $f'c = 28 \text{ MPa}$ $f_y = 420 \text{ MPa}$ Recubrim.(d') = 0.075 m $\rho_{min} = 0.002$ $B = 1.00 \text{ m}$ $L = 1.00 \text{ m}$ Diam Pilote = 0.60 m $B \text{ Col} = 0.40 \text{ m}$ $H \text{ Col} = 0.40 \text{ m}$ Dist Pil a borde 0.15 m </p> <p>REFUERZO INFERIOR</p> </div> <div>  </div> </div>										
ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
			18	38.19	0.40	0.10	0.00	0.21	45	0.21
h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm²	ρ	Asmin mm²	Barras #5	S cm
0.29	0.70	0.63	12.96	Tux	3.06	80.83	0.00013	1250.00	7#5	15.92
				Tuy	3.06	80.83	0.00013	1250.00	7#5	15.92
REFUERZO SUPERIOR								Paralelo L	7#5 @ 15	
								Paralelo B	7#5 @ 15	
ρ min Ret. y frag.	Asmin mm²	Barras #5	S cm							
0.00180	1125.00	6#5	17.69	CHEQ.APLAST.						
0.00180	1125.00	6#5	17.69	495.04 O.K						
Paralelo a L		6#5 @ 15								
Paralelo a B		6#5 @ 15								
Observaciones:										

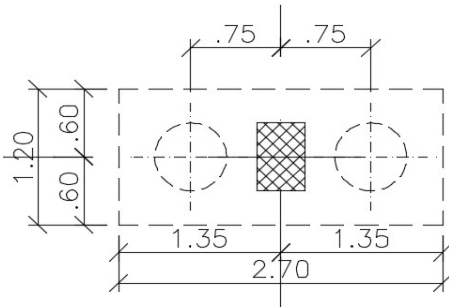
	PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 1	FECHA:	ago-18
	INGENIERO:	IVÁN MAURICIO GUEVARA	N.P:	P-18-490

DISEÑO DE DADOS RÍGIDOS MEDIANTE EL MÉTODO DE BIELAS Y TIRANTE

DADO D-2

$f'c = 28 \text{ MPa}$
 $f_y = 420 \text{ MPa}$
Recubrim.(d') = 0.075 m
 $\rho_{min} = 0.002$
 $B = 2.70 \text{ m}$
 $L = 1.20 \text{ m}$
Diam Pilote = 0.60 m
 $B \text{ Col} = 0.40 \text{ m}$
 $H \text{ Col} = 0.60 \text{ m}$
Dist Pil a borde 0.30 m

REFUERZO INFERIOR



ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
		3288	2	60.03	0.60	0.15	1.50	0.54	45	0.54


h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm ²	ρ	Asmin mm ²	Barras #5	S cm
0.62	0.70	0.63	51.94	Tux	57.63	1524.53	0.00090	3375.00	17#5	15.92
				Tuy	14.41	381.13	0.00051	1500.00	8#5	15.92

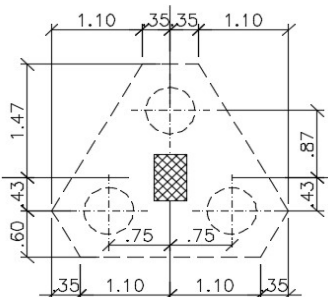
REFUERZO SUPERIOR


ρ_{min} Ret. y frag.	Asmin mm ²	Barras #5	S cm
0.00180	3037.50	16#5	17.69
0.00180	1350.00	7#5	17.69
Paralelo a L		16#5 @ 15	
Paralelo a B		7#5 @ 15	

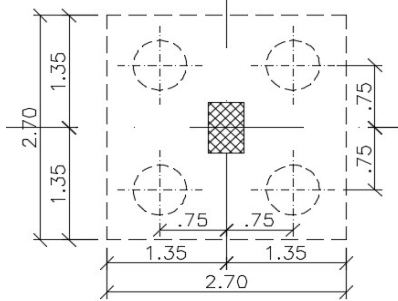
CHEQ.APLAST. 742.56 O.K

Observaciones:

	PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 1	FECHA:	ago-18
	INGENIERO:	IVÁN MAURICIO GUEVARA	N.P:	P-18-490

DISEÑO DE DADOS RÍGIDOS MEDIANTE EL MÉTODO DE BIELAS Y TIRANTE										
DADO D-3										
f'c = 28 MPa fy = 420 MPa Recubrim.(d') = 0.075 m ρmin = 0.002 B = 2.90 m L = 2.50 m Diam Pilote = 0.60 m B Col= 0.40 m H Col= 0.60 m Dist Pil a borde 0.30 m										
REFUERZO INFERIOR										
ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
		3385	3	58.75	0.60	0.15	1.50	0.65	40	0.55
h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm ²	ρ	Asmin mm ²	Barras #5	S cm
0.62	0.70	0.63	61.28	Tux	65.79	1740.61	0.00096	3625.00	19#5	15.92
				Tuy	47.00	1243.29	0.00080	3125.00	16#5	15.92
REFUERZO SUPERIOR								Paralelo L	19#5 @ 15	
								Paralelo B	16#5 @ 15	
ρ min Ret. y frag.	Asmin mm ²	Barras #5	S cm							
0.00180	3262.50	17#5	17.69	CHEQ.APLAST.						
0.00180	2812.50	15#5	17.69	742.56 O.K						
Paralelo a L		17#5 @ 15								
Paralelo a B		15#5 @ 15								
Observaciones:										

	PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 1	FECHA:	ago-18
	INGENIERO:	IVÁN MAURICIO GUEVARA	N.P:	P-18-490

DISEÑO DE DADOS RÍGIDOS MEDIANTE EL MÉTODO DE BIELAS Y TIRANTE											
<p style="text-align: center;">DADO D-4</p> <div style="display: flex; justify-content: space-between;"> <div> <p> $f'c = 28 \text{ MPa}$ $f_y = 420 \text{ MPa}$ Recubrim.(d') = 0.075 m $\rho_{min} = 0.002$ $B = 2.70 \text{ m}$ $L = 2.70 \text{ m}$ Diam Pilote = 0.60 m $B \text{ Col} = 0.40 \text{ m}$ $H \text{ Col} = 0.60 \text{ m}$ Dist Pil a borde 0.30 m </p> <p>REFUERZO INFERIOR</p> </div> <div>  </div> </div>											
ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m	
		3384	4	58.66	0.60	0.15	1.50	0.64	45	0.63	
h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm²	ρ	Asmin mm²	Barras #5	S cm	
0.70	0.70	0.63	59.73	Tux	56.31	1489.81	0.00088	3375.00	17#5	15.92	
				Tuy	56.31	1489.81	0.00088	3375.00	17#5	15.92	
REFUERZO SUPERIOR									Paralelo L 18#5 @ 15		
									Paralelo B 18#5 @ 15		
ρ min Ret. y frag.	Asmin mm²	Barras #5	S cm								
0.00180	3037.50	16#5	17.69	CHEQ.APLAST.							
0.00180	3037.50	16#5	17.69	742.56 O.K							
Paralelo a L		16#5 @ 15									
Paralelo a B		16#5 @ 15									
Observaciones:											

PROYECTO:

CENTRO CRECER CAMPO ALEGRE BLOQUE 2

FECHA:
ago-18

INGENIERO:

IVÁN MAURICIO GUEVARA

N.P:
P-18-490

CÁLCULO DE PILOTES CARGAS GRAVITACIONALES

Longitud del Pilote (L): 15.00 m

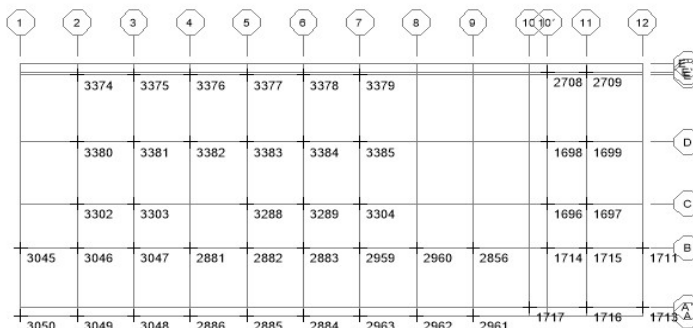
 $f'c = 21 \text{ MPa}$

Porcentaje de Carga (%): 100%

 $f_y = 420 \text{ MPa}$

NUDO	LOC EJE	Combo	Carga [P] (Ton)	P.P Cim (Ton)	Carga T (Ton)	Prof m	ϕf (m)	Cp. (Ton)	Cant.		Vol. (m³)	Pmax (Ton)		
									(Pil.)	(und.)				
3045	-	CIM1	53.59	2.27	55.86	15.00	0.60	41.80	1.34	2.0	8.48	148.44	O.K	O.K
3050	-	CIM1	50.40	2.27	52.67	15.00	0.60	41.80	1.26	2.0	8.48	148.44	O.K	O.K
3046	-	CIM1	98.92	3.45	102.37	15.00	0.60	41.80	2.45	3.0	12.72	148.44	O.K	O.K
3049	-	CIM1	94.75	3.45	98.20	15.00	0.60	41.80	2.35	3.0	12.72	148.44	O.K	O.K
3047	-	CIM1	67.01	2.27	69.28	15.00	0.60	41.80	1.66	2.0	8.48	148.44	O.K	O.K
3048	-	CIM1	47.52	2.27	49.79	15.00	0.60	41.80	1.19	2.0	8.48	148.44	O.K	O.K
2881	-	CIM1	74.22	2.27	76.49	15.00	0.60	41.80	1.83	2.0	8.48	148.44	O.K	O.K
2886	-	CIM1	47.43	2.27	49.70	15.00	0.60	41.80	1.19	2.0	8.48	148.44	O.K	O.K
2882	-	CIM1	96.88	3.45	100.33	15.00	0.60	41.80	2.40	3.0	12.72	148.44	O.K	O.K
2885	-	CIM1	86.51	3.45	89.96	15.00	0.60	41.80	2.15	3.0	12.72	148.44	O.K	O.K
2883	-	CIM1	67.23	2.27	69.50	15.00	0.60	41.80	1.66	2.0	8.48	148.44	O.K	O.K
2884	-	CIM1	47.59	2.27	49.86	15.00	0.60	41.80	1.19	2.0	8.48	148.44	O.K	O.K
2959	-	CIM1	66.26	2.27	68.53	15.00	0.60	41.80	1.64	2.0	8.48	148.44	O.K	O.K
2963	-	CIM1	47.58	2.27	49.85	15.00	0.60	41.80	1.19	2.0	8.48	148.44	O.K	O.K
2960	-	CIM1	98.85	3.45	102.30	15.00	0.60	41.80	2.45	3.0	12.72	148.44	O.K	O.K
2962	-	CIM1	86.52	3.45	89.97	15.00	0.60	41.80	2.15	3.0	12.72	148.44	O.K	O.K
2856	-	CIM1	74.30	2.27	76.57	15.00	0.60	41.80	1.83	2.0	8.48	148.44	O.K	O.K
2961	-	CIM1	47.59	2.27	49.86	15.00	0.60	41.80	1.19	2.0	8.48	148.44	O.K	O.K

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R


Observaciones:
Cant. Total:

42 Pilotes

Vol. Total:

178.13 m³

PROYECTO:

CENTRO CRECER CAMPO ALEGRE BLOQUE 2

FECHA:
ago-18

INGENIERO:

IVÁN MAURICIO GUEVARA

N.P:
P-18-490

CÁLCULO DE PILOTES CARGAS GRAVITACIONALES + SISMO

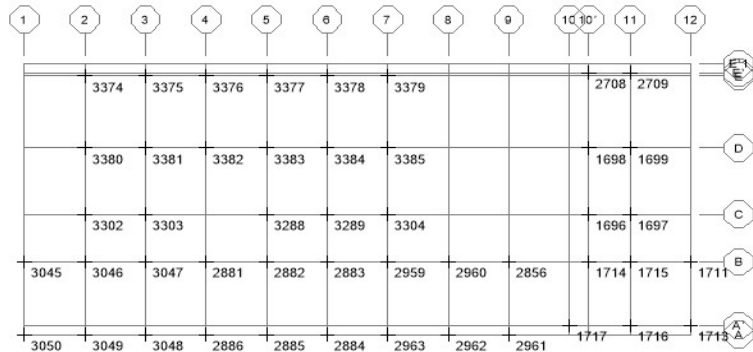
Longitud del Pilote (L): 15.00 m

 $f'c = 21 \text{ MPa}$
 $f_y = 420 \text{ MPa}$

Porcentaje de Carga (%): 100%

NUDO	LOC EJE	Combo	Carga [P]	P.P Cim	Carga T	Prof m	φf (m)	Cp. (Ton)	Cant.		Vol. (m³)	Pmax (Ton)		
			(Ton)	(Ton)	(Ton)				(Pil.)	(und.)				
3045	-	CIM2-7	50.98	2.27	53.25	15.00	0.60	41.80	1.27	2.0	8.48	148.44	O.K	O.K
3050	-	CIM2-7	48.58	2.27	50.85	15.00	0.60	41.80	1.22	2.0	8.48	148.44	O.K	O.K
3046	-	CIM2-7	93.52	3.45	96.97	15.00	0.60	41.80	2.32	3.0	12.72	148.44	O.K	O.K
3049	-	CIM2-7	91.09	3.45	94.54	15.00	0.60	41.80	2.26	3.0	12.72	148.44	O.K	O.K
3047	-	CIM2-7	63.70	2.27	65.97	15.00	0.60	41.80	1.58	2.0	8.48	148.44	O.K	O.K
3048	-	CIM2-7	46.94	2.27	49.21	15.00	0.60	41.80	1.18	2.0	8.48	148.44	O.K	O.K
2881	-	CIM2-7	69.54	2.27	71.81	15.00	0.60	41.80	1.72	2.0	8.48	148.44	O.K	O.K
2886	-	CIM2-7	45.60	2.27	47.87	15.00	0.60	41.80	1.15	2.0	8.48	148.44	O.K	O.K
2882	-	CIM2-7	90.74	3.45	94.19	15.00	0.60	41.80	2.25	3.0	12.72	148.44	O.K	O.K
2885	-	CIM2-7	82.40	3.45	85.85	15.00	0.60	41.80	2.05	3.0	12.72	148.44	O.K	O.K
2883	-	CIM2-7	63.17	2.27	65.44	15.00	0.60	41.80	1.57	2.0	8.48	148.44	O.K	O.K
2884	-	CIM2-7	45.75	2.27	48.02	15.00	0.60	41.80	1.15	2.0	8.48	148.44	O.K	O.K
2959	-	CIM2-7	62.30	2.27	64.57	15.00	0.60	41.80	1.54	2.0	8.48	148.44	O.K	O.K
2963	-	CIM2-7	45.74	2.27	48.01	15.00	0.60	41.80	1.15	2.0	8.48	148.44	O.K	O.K
2960	-	CIM2-7	92.55	3.45	96.00	15.00	0.60	41.80	2.30	3.0	12.72	148.44	O.K	O.K
2962	-	CIM2-7	82.41	3.45	85.86	15.00	0.60	41.80	2.05	3.0	12.72	148.44	O.K	O.K
2856	-	CIM2-7	69.68	2.27	71.95	15.00	0.60	41.80	1.72	2.0	8.48	148.44	O.K	O.K
2961	-	CIM2-7	45.74	2.27	48.01	15.00	0.60	41.80	1.15	2.0	8.48	148.44	O.K	O.K

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R


Observaciones:
Cant. Total:

42 Pilotes

Vol. Total:

178.13 m³

PROYECTO:

CENTRO CRECER CAMPO ALEGRE BLOQUE 2

FECHA:
ago-18

INGENIERO:

IVÁN MAURICIO GUEVARA

N.P:
P-18-490

CHEQUEO DE PILOTES CARGAS GRAVITACIONALES + SISMO

Longitud del Pilote (L): 15.00 m

$f'c = 21 \text{ MPa}$

$f_y = 420 \text{ MPa}$

Porcentaje de Carga (%): 100%


NUDO	LOC EJE	Combo	P.P Cim (Ton)	Carga [P] (Ton)	Pmax (Ton)		Prof m	φf (m)	Cp. (Ton)	Cant.		combo	Carga [P] (Ton)	Pmax (Ton)	
										(Pil.)	(und.)				
3045	-	CIM8-9	2.27	54.6	195.94	O.K	15.00	0.60	41.80	1.34	2.00	CIM10-11	63.1	207.82	O.K
3050	-	CIM8-9	2.27	51.5	195.94	O.K	15.00	0.60	41.80	1.26	2.00	CIM10-11	59.9	207.82	O.K
3046	-	CIM8-9	3.45	99.5	195.94	O.K	15.00	0.60	41.80	2.45	3.00	CIM10-11	114.9	207.82	O.K
3049	-	CIM8-9	3.45	95.4	195.94	O.K	15.00	0.60	41.80	2.35	3.00	CIM10-11	111.4	207.82	O.K
3047	-	CIM8-9	2.27	67.8	195.94	O.K	15.00	0.60	41.80	1.66	2.00	CIM10-11	78.5	207.82	O.K
3048	-	CIM8-9	2.27	48.6	195.94	O.K	15.00	0.60	41.80	1.19	2.00	CIM10-11	57.5	207.82	O.K
2881	-	CIM8-9	2.27	75.2	195.94	O.K	15.00	0.60	41.80	1.83	2.00	CIM10-11	86.2	207.82	O.K
2886	-	CIM8-9	2.27	48.4	195.94	O.K	15.00	0.60	41.80	1.19	2.00	CIM10-11	56.2	207.82	O.K
2882	-	CIM8-9	3.45	97.5	195.94	O.K	15.00	0.60	41.80	2.40	3.00	CIM10-11	111.9	207.82	O.K
2885	-	CIM8-9	3.45	87.3	195.94	O.K	15.00	0.60	41.80	2.15	3.00	CIM10-11	101.2	207.82	O.K
2883	-	CIM8-9	2.27	68.2	195.94	O.K	15.00	0.60	41.80	1.66	2.00	CIM10-11	78.3	207.82	O.K
2884	-	CIM8-9	2.27	48.5	195.94	O.K	15.00	0.60	41.80	1.19	2.00	CIM10-11	56.4	207.82	O.K
2959	-	CIM8-9	2.27	67.3	195.94	O.K	15.00	0.60	41.80	1.64	2.00	CIM10-11	77.2	207.82	O.K
2963	-	CIM8-9	2.27	48.5	195.94	O.K	15.00	0.60	41.80	1.19	2.00	CIM10-11	56.4	207.82	O.K
2960	-	CIM8-9	3.45	99.5	195.94	O.K	15.00	0.60	41.80	2.45	3.00	CIM10-11	114.2	207.82	O.K
2962	-	CIM8-9	3.45	87.3	195.94	O.K	15.00	0.60	41.80	2.15	3.00	CIM10-11	101.2	207.82	O.K
2856	-	CIM8-9	2.27	75.4	195.94	O.K	15.00	0.60	41.80	1.83	2.00	CIM10-11	86.4	207.82	O.K
2961	-	CIM8-9	2.27	48.5	195.94	O.K	15.00	0.60	41.80	1.19	2.00	CIM10-11	56.4	207.82	O.K


COMBINACIONES

CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R

1	2	3	4	5	6	7	8	9	10	11	12	
		3374	3375	3376	3377	3378	3379			2708	2709	
		3380	3381	3382	3383	3384	3385			1698	1699	
		3302	3303		3288	3289	3304			1696	1697	
3045	3046	3047	2881	2882	2883	2959	2960	2856		1714	1715	1711
3050	3049	3048	2886	2885	2884	2963	2962	2961		1717	1716	1713

Observaciones:

			PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 2								FECHA:	
			INGENIERO:	IVÁN MAURICIO GUEVARA								N.P:	
													jul-18
													P-18-490
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	2856		CM+CV	74.30	0	0	0	2	74.30	74.30	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	-0.75	0.00	74.30	2.27	0.00	0.00	1.1250	0.0000	2.00	0.00	0.00	38.28	38.28
2	0.75	0.00								0.00	0.00	38.28	38.28
CAPACIDAD DEL PILOTE													41.8
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	3046		CM+CV	98.92	0	0	0	3	98.92	98.92	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	0.00	0.87	98.92	3.45	0	0	1.1250	1.1267	3	0.00	0.00	34.12	34.12
2	0.75	-0.43								0.00	0.00	34.12	34.12
3	-0.75	-0.43								0.00	0.00	34.12	34.12
CAPACIDAD DEL PILOTE													41.8

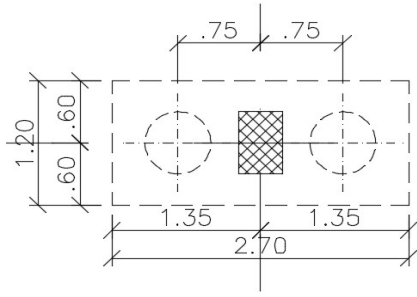
	PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 2	FECHA:	ago-18
	INGENIERO:	IVÁN MAURICIO GUEVARA	N.P:	P-18-490

DISEÑO DE DADOS RÍGIDOS MEDIANTE EL MÉTODO DE BIELAS Y TIRANTE

DADO D-2

$f'c = 28 \text{ MPa}$
 $f_y = 420 \text{ MPa}$
 $\text{Recubrim. (d')} = 0.075 \text{ m}$
 $\rho_{\min} = 0.002$
 $B = 2.70 \text{ m}$
 $L = 1.20 \text{ m}$
 $\text{Diam Pilote} = 0.60 \text{ m}$
 $B \text{ Col} = 0.40 \text{ m}$
 $H \text{ Col} = 0.60 \text{ m}$
 $\text{Dist Pil a borde} = 0.30 \text{ m}$

REFUERZO INFERIOR



ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
			10	57.43	0.60	0.15	1.50	0.54	45	0.54

h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm ²	ρ	Asmin mm ²	Barras #5	S cm
0.62	0.70	0.63	49.69	Tux	55.13	1458.44	0.00086	3375.00	17#5	15.92
				Tuy	13.78	364.61	0.00049	1500.00	8#5	15.92

Paralelo L: 18#5 @ 15
 Paralelo B: 8#5 @ 15

REFUERZO SUPERIOR

ρ_{\min} Ret. y frag.	Asmin mm ²	Barras #5	S cm
0.00180	3037.50	16#5	17.69
0.00180	1350.00	7#5	17.69

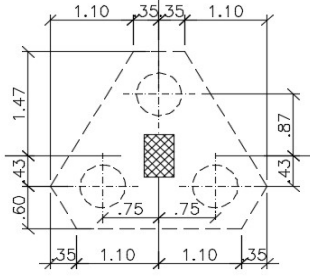
Paralelo a L: 16#5 @ 15
 Paralelo a B: 7#5 @ 15

Observaciones:

DADO D-3

$f'c = 28 \text{ MPa}$
 $f_y = 420 \text{ MPa}$
 $\text{Recubrim. (d')} = 0.075 \text{ m}$
 $\rho_{\min} = 0.002$
 $B = 2.90 \text{ m}$
 $L = 2.50 \text{ m}$
 $\text{Diam Pilote} = 0.60 \text{ m}$
 $B \text{ Col} = 0.40 \text{ m}$
 $H \text{ Col} = 0.60 \text{ m}$
 $\text{Dist Pil a borde} = 0.30 \text{ m}$

REFUERZO INFERIOR



ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
			4	51.19	0.60	0.15	1.50	0.65	40	0.55

h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm ²	ρ	Asmin mm ²	Barras #5	S cm
0.62	0.70	0.63	53.39	Tux	57.33	1516.61	0.00084	3625.00	19#5	15.92
				Tuy	40.95	1083.29	0.00069	3125.00	16#5	15.92

Paralelo L: 19#5 @ 15
 Paralelo B: 16#5 @ 15

REFUERZO SUPERIOR

ρ_{\min} Ret. y frag.	Asmin mm ²	Barras #5	S cm
0.00180	3262.50	17#5	17.69
0.00180	2812.50	15#5	17.69

Paralelo a L: 17#5 @ 15
 Paralelo a B: 15#5 @ 15

Observaciones:

PROYECTO:

CENTRO CRECER CAMPO ALEGRE BLOQUE 3

FECHA:
ago-18

INGENIERO:

IVÁN MAURICIO GUEVARA

N.P:
P-18-490

CÁLCULO DE PILOTES CARGAS GRAVITACIONALES

Longitud del Pilote (L): 15.00 m

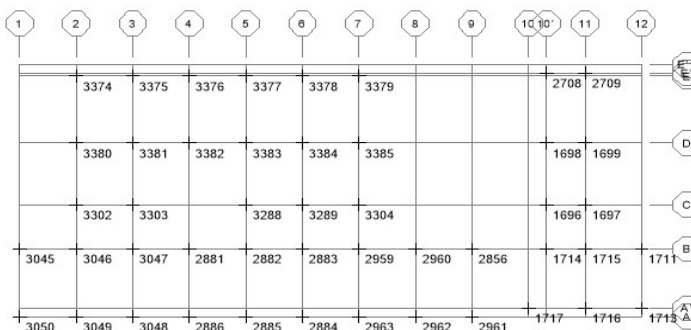
 $f'c = 21 \text{ MPa}$

Porcentaje de Carga (%): 100%

 $f_y = 420 \text{ MPa}$

NUDO	LOC EJE	Combo	Carga [P] (Ton)	P.P Cim (Ton)	Carga T (Ton)	Prof m	ϕ_f (m)	Cp. (Ton)	Cant.		Vol. (m³)	Pmax (Ton)	
									(Pil.)	(und.)		O.K	O.K
2708	-	CIM1	86.99	3.45	90.44	15.00	0.60	41.80	2.16	3.0	12.72	148.44	O.K
2709	-	CIM1	43.55	2.27	45.82	15.00	0.60	41.80	1.10	2.0	8.48	148.44	O.K
1698	-	CIM1	143.50	5.10	148.60	15.00	0.60	41.80	3.56	4.0	16.96	148.44	O.K
1699	-	CIM1	91.99	3.45	95.44	15.00	0.60	41.80	2.28	3.0	12.72	148.44	O.K
1696	-	CIM1	135.05	5.10	140.15	15.00	0.60	41.80	3.35	4.0	16.96	148.44	O.K
1697	-	CIM1	99.98	3.45	103.43	15.00	0.60	41.80	2.47	3.0	12.72	148.44	O.K
1714	-	CIM1	131.57	5.10	136.67	15.00	0.60	41.80	3.27	4.0	16.96	148.44	O.K
1715	-	CIM1	128.51	5.10	133.61	15.00	0.60	41.80	3.20	4.0	16.96	148.44	O.K
1711	-	CIM1	47.42	2.27	49.69	15.00	0.60	41.80	1.19	2.0	8.48	148.44	O.K
1717	-	CIM1	74.63	2.27	76.90	15.00	0.60	41.80	1.84	2.0	8.48	148.44	O.K
1716	-	CIM1	125.88	5.10	130.98	15.00	0.60	41.80	3.13	4.0	16.96	148.44	O.K
1713	-	CIM1	50.99	2.27	53.26	15.00	0.60	41.80	1.27	2.0	8.48	148.44	O.K

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R


Observaciones:
Cant. Total: 37 Pilotes
Vol. Total: 156.92 m³

PROYECTO:

CENTRO CRECER CAMPO ALEGRE BLOQUE 3

FECHA:
ago-18

INGENIERO:

IVÁN MAURICIO GUEVARA

N.P:
P-18-490

CHEQUEO DE PILOTES CARGAS GRAVITACIONALES + SISMO

Longitud del Pilote (L): 15.00 m

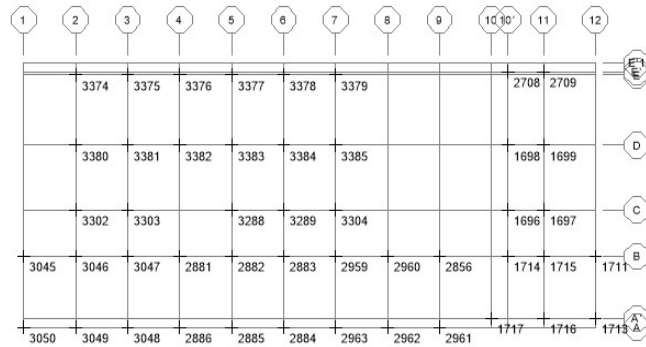
$f'c = 21 \text{ MPa}$

Porcentaje de Carga (%): 100%


$f_y = 420 \text{ MPa}$


NUDO	LOC EJE	Combo	P.P Cim (Ton)	Carga [P] (Ton)	Pmax (Ton)	Prof m	φf (m)	Cp. (Ton)	Cant.		combo	Carga [P] (Ton)	Pmax (Ton)		
									(Pil.)	(und.)					
2708	-	CIM8-9	3.45	95.1	195.94	O.K	15.00	0.60	41.80	2.16	3.00	CIM10-11	111.6	207.82	O.K
2709	-	CIM8-9	2.27	52.2	195.94	O.K	15.00	0.60	41.80	1.10	2.00	CIM10-11	63.6	207.82	O.K
1698	-	CIM8-9	5.10	151.8	195.94	O.K	15.00	0.60	41.80	3.56	4.00	CIM10-11	177.0	207.82	O.K
1699	-	CIM8-9	3.45	100.2	195.94	O.K	15.00	0.60	41.80	2.28	3.00	CIM10-11	119.2	207.82	O.K
1696	-	CIM8-9	5.10	144.5	195.94	O.K	15.00	0.60	41.80	3.35	4.00	CIM10-11	168.8	207.82	O.K
1697	-	CIM8-9	3.45	109.2	195.94	O.K	15.00	0.60	41.80	2.47	3.00	CIM10-11	129.3	207.82	O.K
1714	-	CIM8-9	5.10	140.7	195.94	O.K	15.00	0.60	41.80	3.27	4.00	CIM10-11	165.3	207.82	O.K
1715	-	CIM8-9	5.10	136.8	195.94	O.K	15.00	0.60	41.80	3.20	4.00	CIM10-11	160.6	207.82	O.K
1711	-	CIM8-9	2.27	50.2	195.94	O.K	15.00	0.60	41.80	1.19	2.00	CIM10-11	58.6	207.82	O.K
1717	-	CIM8-9	2.27	80.5	195.94	O.K	15.00	0.60	41.80	1.84	2.00	CIM10-11	95.4	207.82	O.K
1716	-	CIM8-9	5.10	130.4	195.94	O.K	15.00	0.60	41.80	3.13	4.00	CIM10-11	152.2	207.82	O.K
1713	-	CIM8-9	2.27	53.4	195.94	O.K	15.00	0.60	41.80	1.27	2.00	CIM10-11	62.3	207.82	O.K

COMBINACIONES	
CIM1	CM+CV
CIM2	CM+0.7SX/R
CIM3	CM+0.7SY/R
CIM4	CM+0.75CV+0.525SX/R
CIM5	CM+0.75CV+0.525SY/R
CIM6	0.6CM+0.7SX/R
CIM7	0.6CM+0.7SY/R
CIM8	CM+CV+0.7SX/R
CIM9	CM+CV+0.7SY/R
CIM10	1.2CM+CV+1.0SX/R
CIM11	1.2CM+CV+1.0SY/R



Observaciones:

		PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 3								FECHA:		
		INGENIERO:	IVÁN MAURICIO GUEVARA								N.P: P-18-490		
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	1717		CM+CV	74.63	0	0	0	2	74.63	74.63	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	-0.75	0.00	74.63	2.27	0.00	0.00	1.1250	0.0000	2.00	0.00	0.00	38.45	38.45
2	0.75	0.00								0.00	0.00	38.45	38.45
CAPACIDAD DEL PILOTE													41.8
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	1697		CM+CV	99.98	0	0	0	3	99.98	99.98	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	0.00	0.87	99.98	3.45	0	0	1.1250	1.1267	3	0.00	0.00	34.48	34.48
2	0.75	-0.43								0.00	0.00	34.48	34.48
3	-0.75	-0.43								0.00	0.00	34.48	34.48
CAPACIDAD DEL PILOTE													41.8
ELEMENTO	Point	EJE	Load	FZ	MX	MY	MZ	# PILOTES	100%F	100%FZ	100%MX	100%MY	O.K
	1698		CM+CV	143.50	0	0	0	4	143.50	143.50	0	0	
PILOTE #	EJE X	EJE Y	FZ Total	W Dado	MX	MY	lequ X	lequ Y	CANT. PILOTES	F POR MX	F POR MY	F POR FZ	F TOTAL
1	-0.75	0.75	143.50	5.10	0	0	2.2500	2.2500	4	0.00	0.00	35.88	35.88
2	0.75	0.75								0.00	0.00	35.88	35.88
3	-0.75	-0.75								0.00	0.00	35.88	35.88
4	0.75	-0.75								0.00	0.00	35.88	35.88
CAPACIDAD DEL PILOTE													41.8

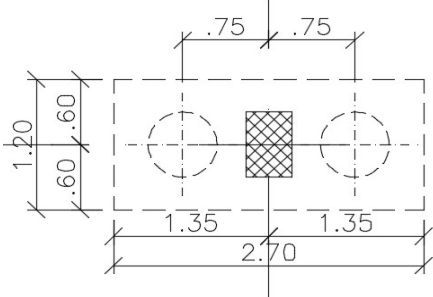
	PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 3	FECHA:	ago-18
	INGENIERO:	IVÁN MAURICIO GUEVARA	N.P:	P-18-490

DISEÑO DE DADOS RÍGIDOS MEDIANTE EL MÉTODO DE BIELAS Y TIRANTE

DADO D-2

$f'_c = 28 \text{ MPa}$
 $f_y = 420 \text{ MPa}$
 $\text{Recubrim. (d')} = 0.075 \text{ m}$
 $\rho_{\min} = 0.002$
 $B = 2.70 \text{ m}$
 $L = 1.20 \text{ m}$
 $\text{Diam Pilote} = 0.60 \text{ m}$
 $B \text{ Col} = 0.40 \text{ m}$
 $H \text{ Col} = 0.60 \text{ m}$
 $\text{Dist Pil a borde} = 0.30 \text{ m}$

REFUERZO INFERIOR



ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
			2	57.67	0.60	0.15	1.50	0.54	45	0.54

h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm ²	ρ	Asmin mm ²	Barras #5	S cm
0.62	0.70	0.63	49.91	Tux	55.37	1464.72	0.00087	3375.00	17#5	15.92
				Tuy	13.84	366.18	0.00049	1500.00	8#5	15.92

REFUERZO SUPERIOR

ρ_{\min} Ret. y frag.	Asmin mm ²	Barras #5	S cm
0.00180	3037.50	16#5	17.69
0.00180	1350.00	7#5	17.69
Paralelo a L		16#5 @ 15	
Paralelo a B		7#5 @ 15	

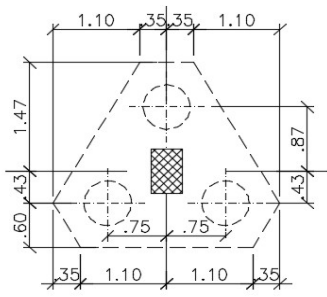
Paralelo L	18#5 @ 15
Paralelo B	8#5 @ 15

Observaciones:

DADO D-3

$f'_c = 28 \text{ MPa}$
 $f_y = 420 \text{ MPa}$
 $\text{Recubrim. (d')} = 0.075 \text{ m}$
 $\rho_{\min} = 0.002$
 $B = 2.90 \text{ m}$
 $L = 2.50 \text{ m}$
 $\text{Diam Pilote} = 0.60 \text{ m}$
 $B \text{ Col} = 0.40 \text{ m}$
 $H \text{ Col} = 0.60 \text{ m}$
 $\text{Dist Pil a borde} = 0.30 \text{ m}$

REFUERZO INFERIOR




ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
			3	51.72	0.60	0.15	1.50	0.65	40	0.55

h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm ²	ρ	Asmin mm ²	Barras #5	S cm
0.62	0.70	0.63	53.94	Tux	57.92	1532.31	0.00085	3625.00	19#5	15.92
				Tuy	41.37	1094.51	0.00070	3125.00	16#5	15.92

REFUERZO SUPERIOR

ρ_{\min} Ret. y frag.	Asmin mm ²	Barras #5	S cm
0.00180	3262.50	17#5	17.69
0.00180	2812.50	15#5	17.69
Paralelo a L		17#5 @ 15	
Paralelo a B		15#5 @ 15	

Paralelo L	19#5 @ 15
Paralelo B	16#5 @ 15

	PROYECTO:	CENTRO CRECER CAMPO ALEGRE BLOQUE 3	FECHA:	ago-18
	INGENIERO:	IVÁN MAURICIO GUEVARA	N.P:	P-18-490

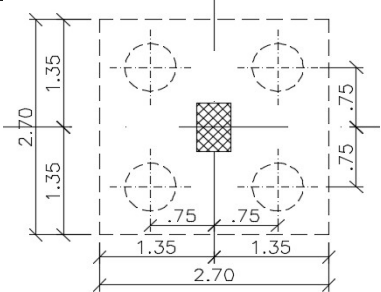
DISEÑO DE DADOS RÍGIDOS MEDIANTE EL MÉTODO DE BIELAS Y TIRANTE

Observaciones:

DADO D-4

$f'c = 28 \text{ MPa}$
 $f_y = 420 \text{ MPa}$
 $\text{Recubrim.}(d') = 0.075 \text{ m}$
 $\rho_{\min} = 0.002$
 $B = 2.70 \text{ m}$
 $L = 2.70 \text{ m}$
 $\text{Diam Pilote} = 0.60 \text{ m}$
 $B \text{ Col} = 0.40 \text{ m}$
 $H \text{ Col} = 0.60 \text{ m}$
 $\text{Dist Pil a borde} = 0.30 \text{ m}$

REFUERZO INFERIOR



ELEMENTO	EJE	Point	PILOTE #	CARGA (Pu) Ton	Dcol m	Dcol / 4 m	Dist entre Pil m	Distancia An m	Ángulo °	d calculado m
			4	53.81	0.60	0.15	1.50	0.64	45	0.63

h calculado m	h m	d m	Tu Ton	Desc. Tu	Ton	As mm ²	ρ	Asmin mm ²	Barras #5	S cm
0.70	0.70	0.63	54.79	Tux	51.66	1366.67	0.00081	3375.00	17#5	15.92
				Tuy	51.66	1366.67	0.00081	3375.00	17#5	15.92

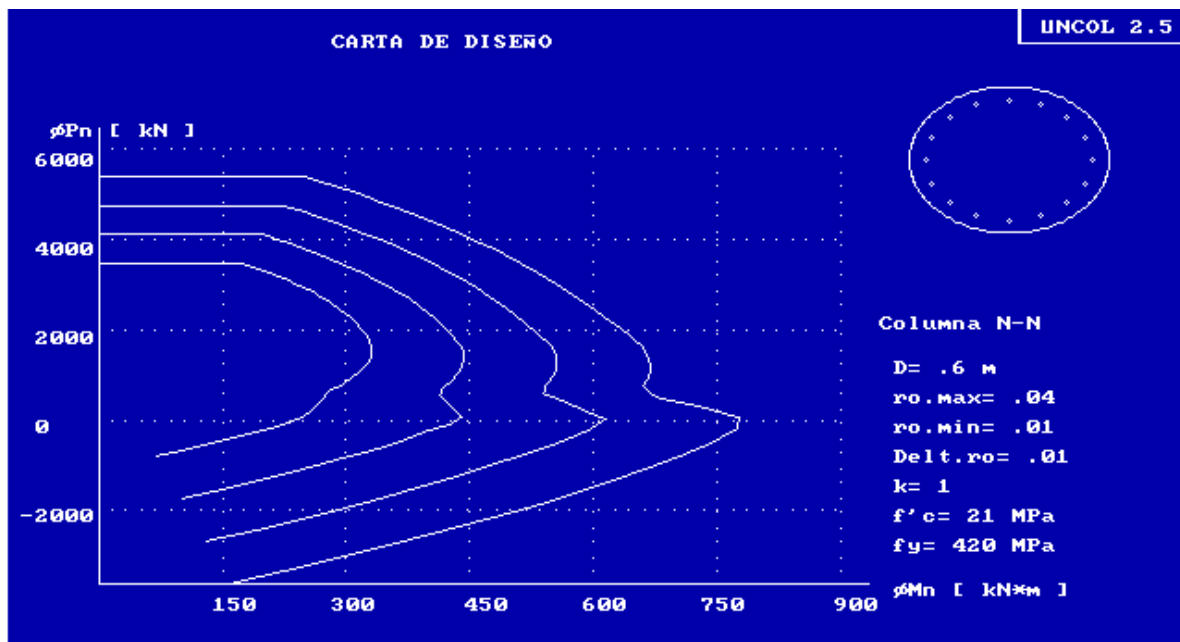
REFUERZO SUPERIOR

ρ_{\min} Ret. y frag.	Asmin mm ²	Barras #5	S cm
0.00180	3037.50	16#5	17.69
0.00180	3037.50	16#5	17.69
Paralelo a L		16#5 @ 15	
Paralelo a B		16#5 @ 15	

CHEQ.APLAST.
742.56 O.K

Paralelo L		18#5 @ 15	
Paralelo B		18#5 @ 15	

Observaciones:



***** Cuantía mínima *****

COLUMNA N-N		UNCOL 2.5
Diámetro = .6 m	$d' = .05 \text{ m}$	
$f'_c = 21 \text{ MPa}$	$f_y = 420 \text{ MPa}$	
$P_u = 392.48 \text{ kN}$	$M_{ux} = 0 \text{ kN*m}$	
$P_{máx} = 3942.32 \text{ kN}$ $\phi P_n = 392.48 \text{ kN}$ $ro = .01$		
$\phi M_n = 278.99 \text{ kN*m}$ $A_s \text{ total} = .002827 \text{ m}^2$		

Presione una tecla para continuar

Se Requieren 28.27 cm^2 , Por Lo cual, se suministran 10 barras de $\frac{3}{4}$ de pulgada (28.4 cm^2)

CAPITULO 14
DISEÑO DE NO ESTRUCTURALES

CENTRO CRECER BLOQUE 1



PROYECTO: CENTRO CRECER BLOQUE 1	FECHA: 29/06/2018
	No. Proy.: P-490

CALCULO DE a_x (ACELERACION EN EL PUNTO DE SOPORTE)

$$h_{eq} = 0.75 * h_n = 0.75 * 3.60 = 2.70 \text{ m}$$

NIVEL	h_x	h_{eq}	A_s	S_a	a_x
NE+0.10	0.10 m	3.41 m	0.15	0.45	0.16
NE+4.55	4.55 m	3.41 m	0.15	0.45	0.59

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

MURO ANTEPECHOS H<1.20 m

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x \cdot a_p}{R_p} \cdot g \cdot M_p > \frac{A \cdot a \cdot I}{2} \cdot g \cdot M_p \quad \text{en donde:}$$

GRADO DE DESEMPEÑO = SUPERIOR

aceleracion en el punto de soporte del elemento

NE+0.10

$$a_x = 0.16$$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$a_p = 2.50 \quad \text{Considerando el caso en que la mampostería esta solo anclada abajo}$$

Coefficiente de capacidad de disipación de energia del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$R_p = 3.00 \quad \text{Anclaje tipo Dúctil}$$

Masa del elemento no estructural

Tipo de muro: Muro de fachada

$$\gamma = 1.80 \text{ Ton/m}^3$$

$$\text{Espesor del muro: } 0.12 \text{ m}$$

$$\text{Distanciamiento columneta: } 2.50 \text{ m}$$

$$\text{Altura libre del muro: } 1.20 \text{ m}$$

$$M_p = 0.07 \text{ Ton} \cdot \text{s/m}$$

Análisis Sismico

$$A_a = A_m = 0.15$$

$$I = 1.25$$

$$F_p = \frac{0.16 \times 2.50}{3.00} \times 9.81 \times 0.07 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.07$$

$$F_p = 0.09 > 0.06075$$

$$M = F_p \times L/2 = 0.05 \text{ Ton} \cdot \text{m}$$

$$V = F_p = 0.09 \text{ Ton}$$

Materiales

$$\text{Concreto } 125 \text{ kg/cm}^2$$

$$\text{Acero } 4200 \text{ kg/cm}^2$$

$$\begin{aligned} * \phi V_c &= 0.85 \times 0.53 \times \sqrt{f'_c} \times b \times h = 0.54 \text{ Ton} \quad \text{ok!} \\ * \text{Diseño para: } & b = 9 \text{ cm} \quad d = 6 \text{ cm} \end{aligned}$$

$$* \text{Cuantía del Analisis: } = 0.0035$$

$$* A_s = 0.17 \text{ cm}^2 \quad 1\# 3 \text{ cada } 2.50 \text{ m}$$

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

MUROS DIVISORIOS

NE+0.10

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x a_p}{R_p} g M_p > \frac{A a I}{2} g M_p \quad \text{en donde:}$$

aceleración en el punto de soporte del elemento

NE+0.10

ax = 0.16

Amplificación dinámica del elemento no estructural
(se determina de las Tablas A.9.5-1 de la NSR-10).

ap = 1.00 Muro divisorios de altura total

Capacidad de disipación de energía en el rango inelástico del elemento no estructural
(se determina de las Tablas A.9.5-1 de la NSR-10).

Rp = 3.00 Anclaje Ductil Grado de desempeño : SUPERIOR

Masa del elemento no estructural

Tipo de muro: Muro divisorios

$\gamma = 1.80 \text{ Ton/m}^3$

Espesor del muro: 0.12 m

Distanciamiento columneta: 2.50 m

Altura libre del muro: 3.05 m

Mp = 0.17 Ton -s/m

Análisis Sísmico

Aa= 0.15

I= 1.25

GRUPO DE USO: III

$$F_p = \frac{0.16 \times 1.00}{3.0} \times 9.81 \times 0.17 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.17$$

Fp= 0.09 > 0.15

M= Fp x L/4 = 0.12 Ton-m

V= Fp/2 = 0.08 Ton

Materiales

concreto 125 kg/cm²

Acero 4200 kg/cm²

* $\phi V_c = 0.85 \times 0.53 \times \sqrt{f'_c} \times b \times h = 1.15 \text{ Ton}$ ok!
 * Diseño para: b = 12 cm d = 9.5 cm
 * Cuantía del Análisis: = 0.0032
 * As = 0.37 cm² 1#3 cada 2.50 m

Chequeo para la varilla superior

$\phi = 1/2"$

Vacio superior 5 cm

V= 0.338 Ton Ok

DISÑO DE ELEMENTOS NO ESTRUCTURALES

TUBERIA DE DRENAJE DE DIAMETRO 6"

NE+4.55

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x \cdot a_p}{R_p} \cdot g \cdot M_p > \frac{A \cdot a \cdot I}{2} \cdot g \cdot M_p \quad \text{en donde:}$$

aceleracion en el punto de soporte del elemento

NE+4.55

$$a_x = 0.59$$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$a_p = 2.50 \quad \text{Muro de fachada altura total}$$

Capacidad de disipación de energía en el rango inelástico del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$R_p = 3.00 \quad \text{Anclaje tipo Dúctiles}$$

Masa del elemento no estructural

Tipo de muro: TUBERIA

Peso de tubería por metro: 3.5 kg/m

Distanciamiento entre sopotes: 1.20 m

Peso de agua interna del tubo: 18 kg/m

$$\gamma = 1.40 \text{ Ton/m}^3$$

Espesor del muro: 0.12 m

Distanciamiento columneta: 1.20 m

Altura libre del muro: 3.05 m

$$M_p = 0.003 \text{ Ton} \cdot \text{s/m}$$

Análisis Sísmico

$$A_a = A_m = 0.15$$

$$I_e = 1.25$$

$$F_p = \frac{0.59 \times 2.50}{3.0} \times 9.81 \times 0.00 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.00$$

$$F_p = 0.01 > 0.00$$

$$M = F_p \times L = 0.004 \text{ Ton} \cdot \text{m}$$

$$V = F_p = 0.01 \text{ Ton}$$

Materiales

CONCRETO 210 kg/cm²

Acero var. Roscada: 2530 kg/cm²

- * anclaje tipo HDI resistencia al corte: 550kg > 100 kg Ok
- * anclaje tipo HDI resistencia tensión: 460kg > 21.0 kg Ok
- * varilla 3/8" rosca resistencia al corte: 1077kg > 100 kg Ok
- * varilla 3/8" rosca resistencia tensión: 1077kg > 21.0 kg Ok

CENTRO CRECER BLOQUE 2



PROYECTO:

CENTRO CRECER CALANDAIMA BLOQUE 2

FECHA:

1/07/2018

INGENIERO:

IVÁN MAURICIO GUEVARA R.

No. Proy.:

P-490

CALCULO DE a_x (ACELERACION EN EL PUNTO DE SOPORTE)

$$h_{eq} = 0.75 * h_n = 0.75 * 3.60 = 2.70 \text{ m}$$

NIVEL	h_x	h_{eq}	A_s	S_a	a_x
NE+0.10	0.10 m	3.11 m	0.15	0.45	0.16
NE+4.15	4.15 m	3.11 m	0.15	0.45	0.59

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

MURO ANTEPECHOS H<1.20 m

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x \cdot a_p}{R_p} \cdot g \cdot M_p > \frac{A \cdot a \cdot l}{2} \cdot g \cdot M_p \quad \text{en donde:}$$

GRADO DE DESEMPEÑO = SUPERIOR

aceleracion en el punto de soporte del elemento

NE+0.10

$$a_x = 0.16$$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$a_p = 2.50 \quad \text{Considerando el caso en que la mampostería esta solo anclada abajo}$$

Coefficiente de capacidad de disipación de energia del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$R_p = 3.00 \quad \text{Anclaje tipo Dúctil}$$

Masa del elemento no estructural

Tipo de muro: Muro de fachada

$$\gamma = 1.80 \quad \text{Ton/m}^3$$

$$\text{Espesor del muro: } 0.12 \text{ m}$$

$$\text{Distanciamiento columneta: } 2.50 \text{ m}$$

$$\text{Altura libre del muro: } 1.20 \text{ m}$$

$$M_p = 0.07 \text{ Ton} \cdot \text{s/m}$$

Análisis Sísmico

$$A_a = A_m = 0.15$$

$$l = 1.25$$

$$F_p = \frac{0.16 \times 2.50}{3.00} \times 9.81 \times 0.07 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.07$$

$$F_p = 0.09 > 0.06075$$

$$M = F_p \times L/2 = 0.05 \text{ Ton} \cdot \text{m}$$

$$V = F_p = 0.09 \text{ Ton}$$

Materiales

$$\text{Concreto } 125 \text{ kg/cm}^2$$

$$\text{Acero } 4200 \text{ kg/cm}^2$$

$$* \phi V_c = 0.85 \times 0.53 \times \sqrt{f_c} \times b \times h = 0.54 \text{ Ton} \quad \text{ok!}$$

$$* \text{Diseño para: } b = 9 \text{ cm} \quad d = 6 \text{ cm}$$

$$* \text{Cuantía del Analisis: } = 0.0036$$

$$* A_s = 0.17 \text{ cm}^2 \quad 1\# 3 \text{ cada } 2.50 \text{ m}$$

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

MUROS DIVISORIOS NE+0.10

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x \cdot a_p}{R_p} \cdot g \cdot M_p > \frac{A \cdot a \cdot I}{2} \cdot g \cdot M_p \quad \text{en donde:}$$

aceleración en el punto de soporte del elemento

NE+0.10

$a_x = 0.16$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$a_p = 1.00$ Muro divisorios de altura total

Capacidad de disipación de energía en el rango inelástico del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$R_p = 3.00$ Anclaje Ductil Grado de desempeño : SUPERIOR

Masa del elemento no estructural

Tipo de muro: Muro divisorios

$\gamma = 1.80 \text{ Ton/m}^3$

Espesor del muro: 0.12 m

Distanciamiento columneta: 2.50 m

Altura libre del muro: 3.05 m

$M_p = 0.17 \text{ Ton} \cdot \text{s/m}$

Análisis Sísmico

$A_a = 0.15$

$I = 1.25$ GRUPO DE USO: III

$$F_p = \frac{0.16 \times 1.00}{3.0} \times 9.81 \times 0.17 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.17$$

$F_p = 0.09 > 0.15$

$M = F_p \times L/4 = 0.12 \text{ Ton} \cdot \text{m}$

$V = F_p/2 = 0.08 \text{ Ton}$

Materiales

concreto 125 kg/cm²

Acero 4200 kg/cm²

* $\phi V_c = 0.85 \times 0.53 \times \sqrt{f'_c} \times b \times h = 1.15 \text{ Ton}$ ok!

* Diseño para: $b = 12 \text{ cm}$ $d = 9.5 \text{ cm}$

* Cuantía del Análisis: = 0.0032

* $A_s = 0.37 \text{ cm}^2$ 1#3 cada 2.50 m

Chequeo para la varilla superior

$\phi = 1/2"$

Vacio superior 5 cm

$V = 0.338 \text{ Ton}$ Ok

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

TUBERIA DE DRENAJE DE DIAMETRO 6"

NE+4.15

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x \cdot a_p}{R_p} \cdot g \cdot M_p > \frac{A \cdot a \cdot I}{2} \cdot g \cdot M_p \quad \text{en donde:}$$

aceleracion en el punto de soporte del elemento

NE+4.15

$$a_x = 0.59$$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$a_p = 2.50 \quad \text{Muro de fachada altura total}$$

Capacidad de disipación de energía en el rango inelástico del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$R_p = 3.00 \quad \text{Anclaje tipo Dúctiles}$$

Masa del elemento no estructural

Tipo de muro: TUBERIA

Peso de tubería por metro: 3.5 kg/m

Distanciamiento entre sopotes: 1.20 m

Peso de agua interna del tubo: 18 kg/m

$$\gamma = 1.40 \text{ Ton/m}^3$$

Espesor del muro: 0.12 m

Distanciamiento columneta: 1.20 m

Altura libre del muro: 3.05 m

$$M_p = 0.003 \text{ Ton} \cdot \text{s/m}$$

Análisis Sísmico

$$A_a = A_m = 0.15$$

$$I = 1.25$$

$$F_p = \frac{0.59 \times 2.50}{3.0} \times 9.81 \times 0.00 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.00$$

$$F_p = 0.01 > 0.00$$

$$M = F_p \times L = 0.004 \text{ Ton} \cdot \text{m}$$

$$V = F_p = 0.01 \text{ Ton}$$

Materiales

CONCRETO 210 kg/cm²

Acero var. Roscada: 2530 kg/cm²

- * anclaje tipo HDI resistencia al corte: 550kg > 100 kg Ok
- * anclaje tipo HDI resistencia tension: 460kg > 21.0 kg Ok
- * varilla 3/8" roscada resistencia al corte: 1077kg > 100 kg Ok
- * varilla 3/8" roscada resistencia tension: 1077kg > 21.0 kg Ok

CENTRO CRECER BLOQUE 3



PROYECTO:

CENTRO CRECER - BLOQUE 3

FECHA:

1/07/2018

INGENIERO:

IVÁN MAURICIO GUEVARA R.

No. Proy.:

P-18-490

CALCULO DE a_x (ACELERACION EN EL PUNTO DE SOPORTE)

$$h_{eq} = 0.75 * h_n = 0.75 * 3.60 = 2.70 \text{ m}$$

NIVEL	h_x	h_{eq}	A_s	S_a	a_x
NE+0.10	0.00 m	6.26 m	0.15	0.45	0.15
NE+4.25	4.15 m	6.26 m	0.00	0.45	0.30
NE+8.45	8.35 m	6.26 m	0.15	0.45	0.59

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

MURO ANTEPECHOS H<1.20 m

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x \cdot a_p}{R_p} \cdot g \cdot M_p > \frac{A \cdot a \cdot l}{2} \cdot g \cdot M_p \quad \text{en donde:}$$

GRADO DE DESEMPEÑO = SUPERIOR

aceleracion en el punto de soporte del elemento

NE+0.10

$$a_x = 0.15$$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$a_p = 2.50 \quad \text{Considerando el caso en que la mampostería esta solo anclada abajo}$$

Coefficiente de capacidad de disipación de energia del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$R_p = 3.00 \quad \text{Anclaje tipo Dúctil}$$

Masa del elemento no estructural

Tipo de muro: Muro de fachada

$$\gamma = 1.80 \quad \text{Ton/m}^3$$

Espesor del muro: 0.12 m

Distanciamiento columneta: 2.50 m

Altura libre del muro: 1.20 m

$$M_p = 0.07 \quad \text{Ton} \cdot \text{s/m}$$

Análisis Sísmico

$$A_a = A_m = 0.15$$

$$I = 1.25$$

$$F_p = \frac{0.15 \times 2.50}{3.00} \times 9.81 \times 0.07 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.07$$

$$F_p = 0.08 > 0.06075$$

$$M = F_p \times L/2 = 0.05 \quad \text{Ton} \cdot \text{m}$$

$$V = F_p = 0.08 \quad \text{Ton}$$

Materiales

Concreto 125 kg/cm²

Acero 4200 kg/cm²

$$\begin{aligned} * \phi V_c &= 0.85 \times 0.53 \times \sqrt{f'_c} \times b \times h = 0.54 \quad \text{Ton} \quad \text{ok!} \\ * \text{Diseño para:} & \quad b = 9 \quad \text{cm} \quad d = 6 \quad \text{cm} \\ * \text{Cuantía del Analisis:} & = 0.0033 \\ * A_s & = 0.16 \quad \text{cm}^2 \quad 1\# 3 \text{ cada } 2.5 \text{ m} \end{aligned}$$

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

MUROS DIVISORIOS NE+0.10

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x a_p}{R_p} g M_p > \frac{A a I}{2} g M_p \quad \text{en donde:}$$

aceleracion en el punto de soporte del elemento

NE+0.10

$$a_x = 0.15$$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$a_p = 1.00 \quad \text{Muro divisorios de altura total}$$

Capacidad de disipación de energía en el rango inelástico del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$R_p = 3.00 \quad \text{Anclaje Ductil} \quad \text{Grado de desempeño : SUPERIOR}$$

Masa del elemento no estructural

Tipo de muro: **Muro divisorios**

$$\gamma = 1.80 \text{ Ton/m}^3$$

$$\text{Espesor del muro: } 0.12 \text{ m}$$

$$\text{Distanciamiento columneta: } 2.50 \text{ m}$$

$$\text{Altura libre del muro: } 3.05 \text{ m}$$

$$M_p = 0.17 \text{ Ton-s/m}$$

Análisis Sísmico

$$A_a = 0.15$$

$$I = 1.25 \quad \text{GRUPO DE USO: III}$$

$$F_p = \frac{0.15 \times 1.00}{3.0} \times 9.81 \times 0.17 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.17$$

$$F_p = 0.08 > 0.15$$

$$M = F_p \times L/4 = 0.12 \text{ Ton-m}$$

$$V = F_p/2 = 0.08 \text{ Ton}$$

Materiales

$$\text{concreto } 125 \text{ kg/cm}^2$$

$$\text{Acero } 4200 \text{ kg/cm}^2$$

$$* \phi V_c = 0.85 \times 0.53 \times \sqrt{f'_c} \times b \times h = 1.15 \text{ Ton} \quad \text{ok!}$$

$$* \text{Diseño para: } b = 12 \text{ cm} \quad d = 9.5 \text{ cm}$$

$$* \text{Cuantía del Análisis: } = 0.0032$$

$$* A_s = 0.37 \text{ cm}^2 \quad 1\#3 \text{ cada } 2.50 \text{ m}$$

Chequeo para la varilla superior

$$\phi = 1/2"$$

$$\text{Vacío superior } 5 \text{ cm}$$

$$V = 0.338 \text{ Ton} \quad \text{Ok}$$

DISÑO DE ELEMENTOS NO ESTRUCTURALES

TUBERIA DE DRENAJE DE DIAMETRO 6"

NE+8.45

Las fuerzas sísmicas de diseño (Fp) se calculan así:

$$F_p = \frac{a_x \cdot a_p}{R_p} \cdot g \cdot M_p > \frac{A \cdot a \cdot l}{2} \cdot g \cdot M_p \quad \text{en donde:}$$

aceleracion en el punto de soporte del elemento

NE+8.45

$$a_x = 0.59$$

Amplificación dinámica del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$a_p = 2.50 \quad \text{Muro de fachada altura total}$$

Capacidad de disipación de energía en el rango inelástico del elemento no estructural

(se determina de las Tablas A.9.5-1 de la NSR-10).

$$R_p = 3.00 \quad \text{Anclaje tipo Dúctiles}$$

Masa del elemento no estructural

Tipo de muro: TUBERIA

Peso de tubería por metro: 3.5 kg/m

Distanciamiento entre sopotes: 1.20 m

Peso de agua interna del tubo: 18 kg/m

$$\gamma = 1.40 \text{ Ton/m}^3$$

Espesor del muro: 0.12 m

Distanciamiento columneta: 1.20 m

Altura libre del muro: 3.05 m

$$M_p = 0.003 \text{ Ton} \cdot \text{s/m}$$

Análisis Sísmico

$$A_a = A_m = 0.15$$

$$I = 1.25$$

$$F_p = \frac{0.59 \times 2.50}{3.0} \times 9.81 \times 0.00 > \frac{0.15 \times 1.25}{2} \times 9.81 \times 0.00$$

$$F_p = 0.01 > 0.00$$

$$M = F_p \times L = 0.004 \text{ Ton} \cdot \text{m}$$

$$V = F_p = 0.01 \text{ Ton}$$

Materiales

CONCRETO 210 kg/cm²

Acero var. Roscada: 2530 kg/cm²

- * anclaje tipo HDI resistencia al corte: 550kg > 100 kg Ok
- * anclaje tipo HDI resistencia tesion: 460kg > 21.0 kg Ok
- * varilla 3/8" roscada resistencia al corte: 1077kg > 100 kg Ok
- * varilla 3/8" roscada resistencia tension: 1077kg > 21.0 kg Ok

**CUBIERTE ENTRE EJES B Y C
CENTRO CRECER**

CAPITULO 1

EVALUACIÓN DE CARGAS



PROYECTO:	CENTRO CRECER CUBIERTA EJES B Y C	FECHA:	1/07/2017
INGENIERO:	IVAN MAURICIO GUEVARA R.	N.P :	P-490

CUBIERTA METALICA

EVALUACION DE CARGAS

Carga Muerta Adicional (CM)

Cubierta	5	Kg/m ²
Tuberia Contra Incendios	12	Kg/m ²
Iluminacion	3	Kg/m ²
	<u>20</u>	Kg/m ²

Carga Viva (CV)

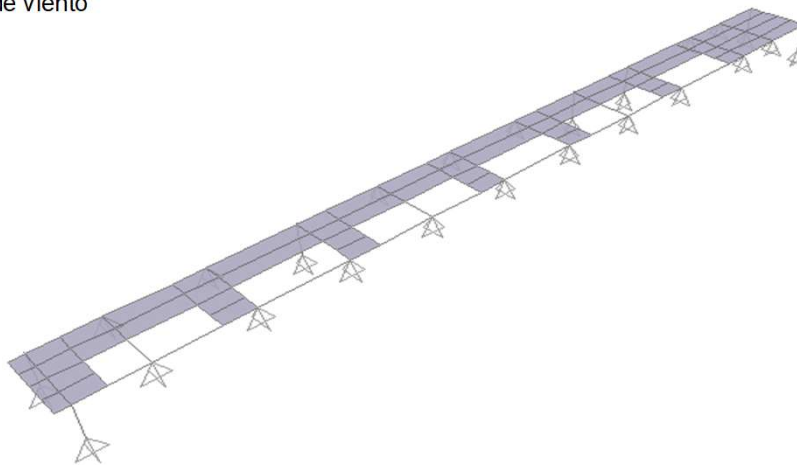
50	Kg/m ²
----	-------------------

Carga Granizo (G)

100	Kg/m ²
-----	-------------------

Carga De Viento (W)

Según Analisis de viento



Carga= 40.0 Kg/m²

CAPITULO 2

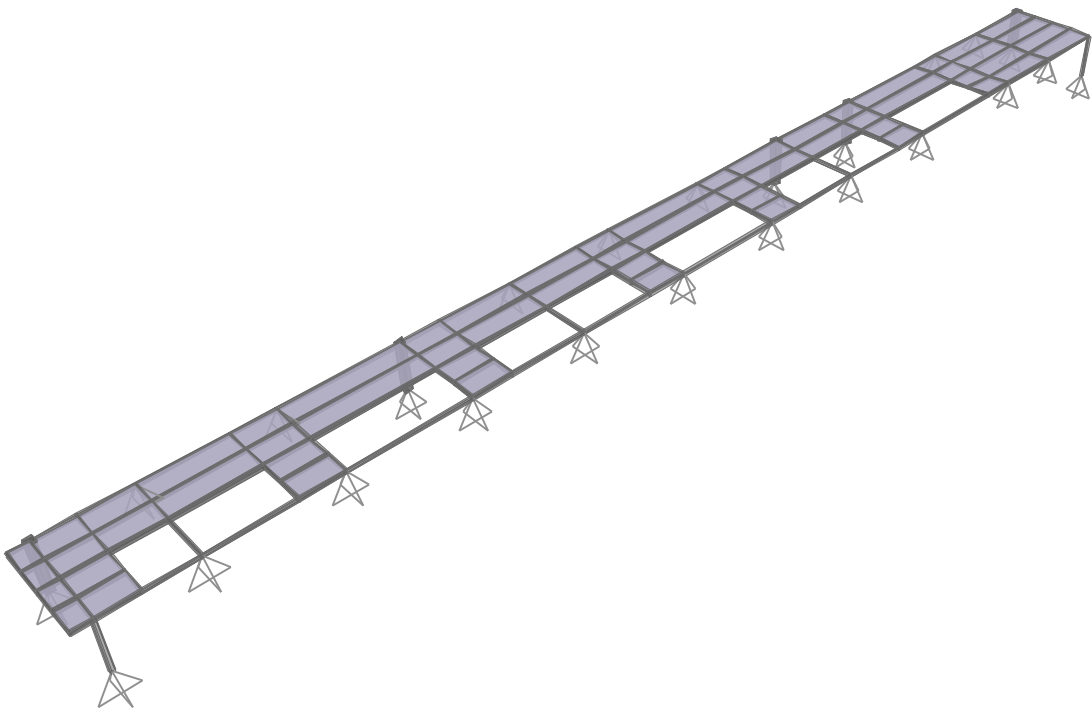
ESTRUCTURACION

2.1 MODELO

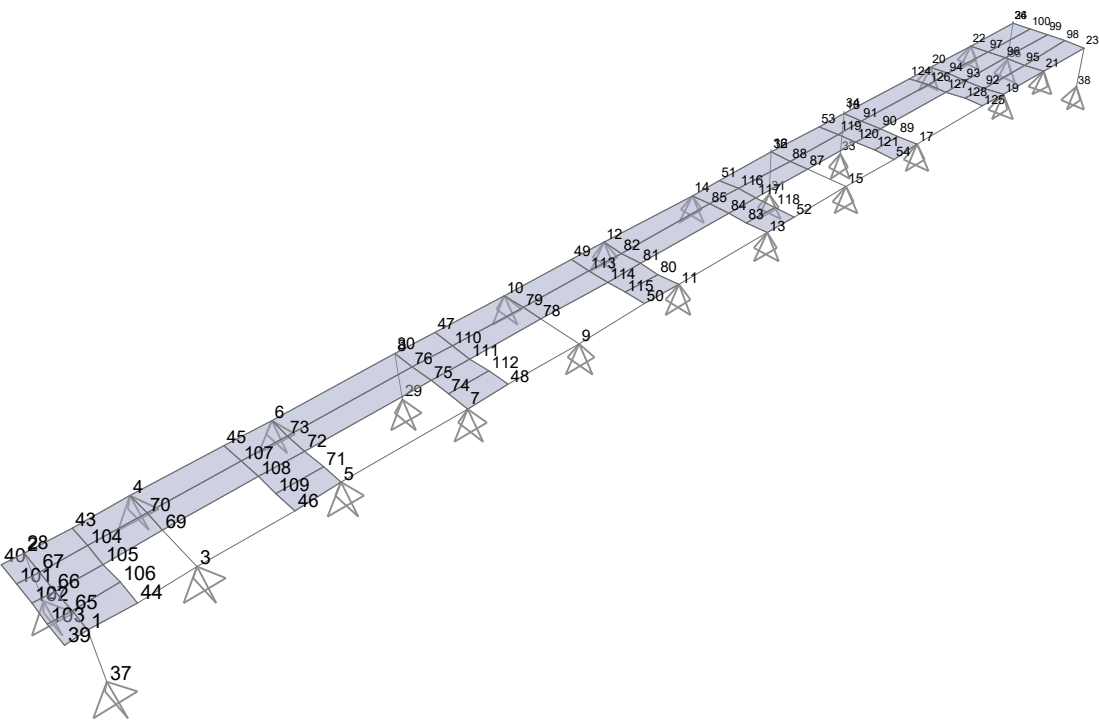
El modelo de la estructura fue hecho con el software SAP 2000 versión 14.1.0. En este programa se hizo una combinación de herramientas utilizando elementos tipo Frame para la simulación de las vigas.

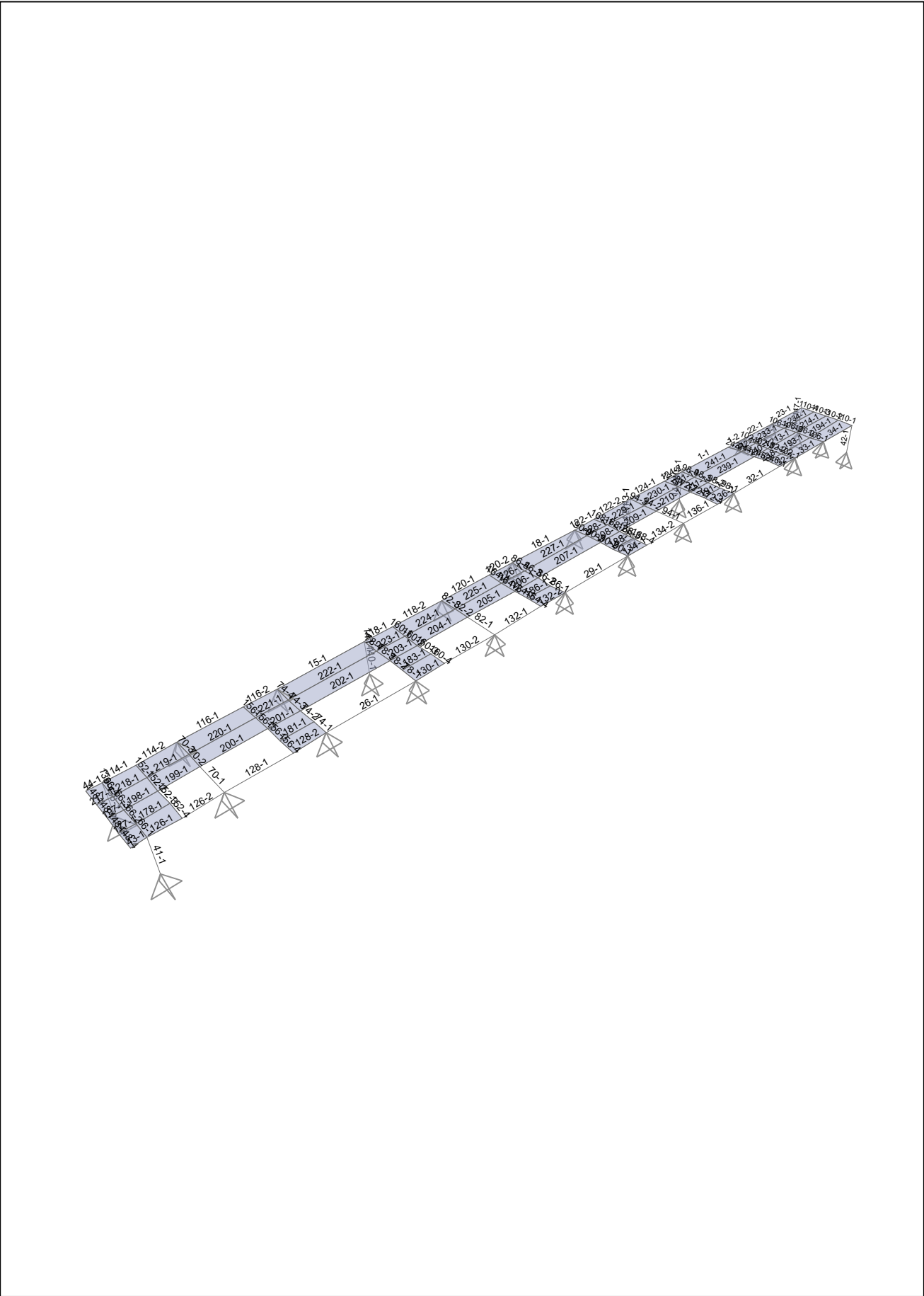
Los apoyos de las vigas son apoyos simples.

El sistema de cargas de la estructura es estático para cargas muertas y vivas.

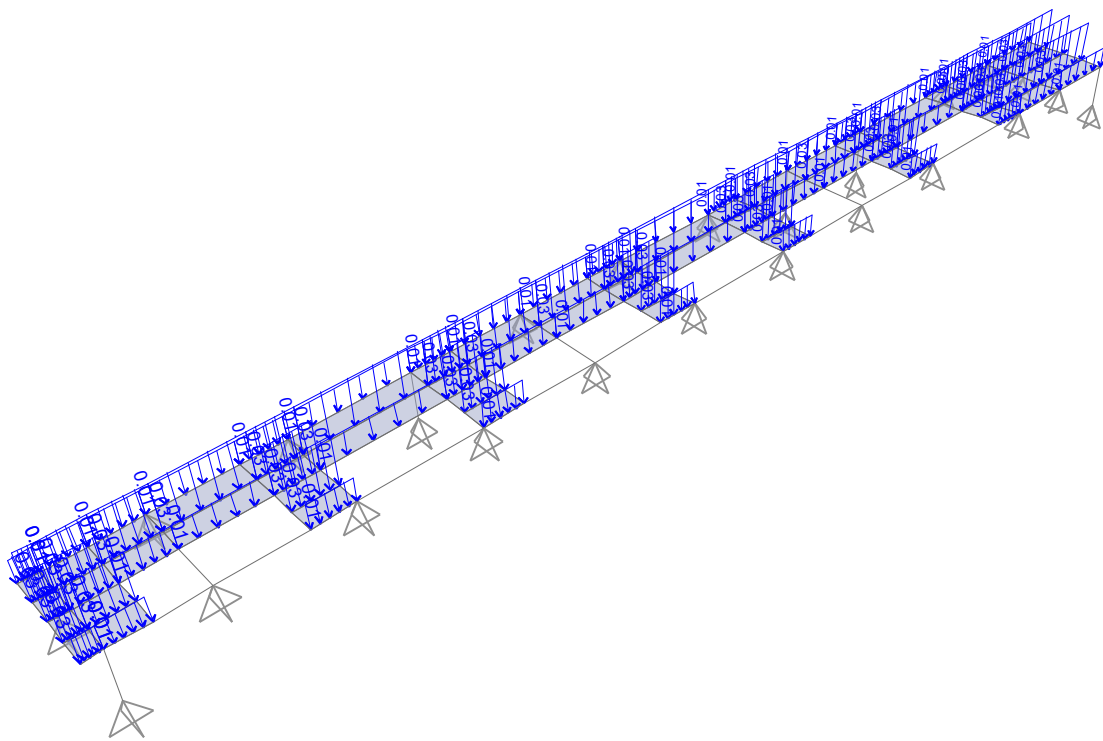


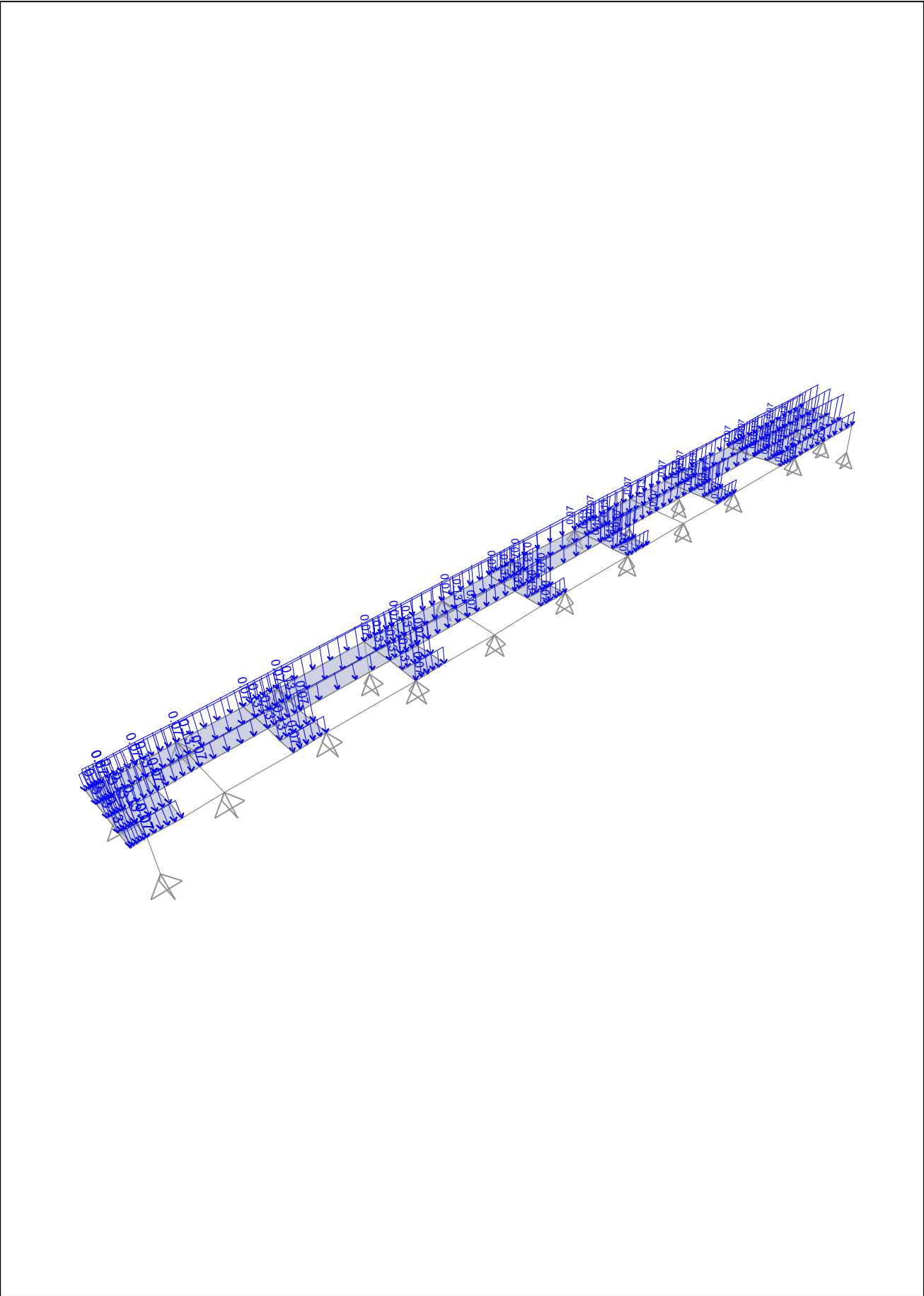
2.2 NUDOS Y CARGAS

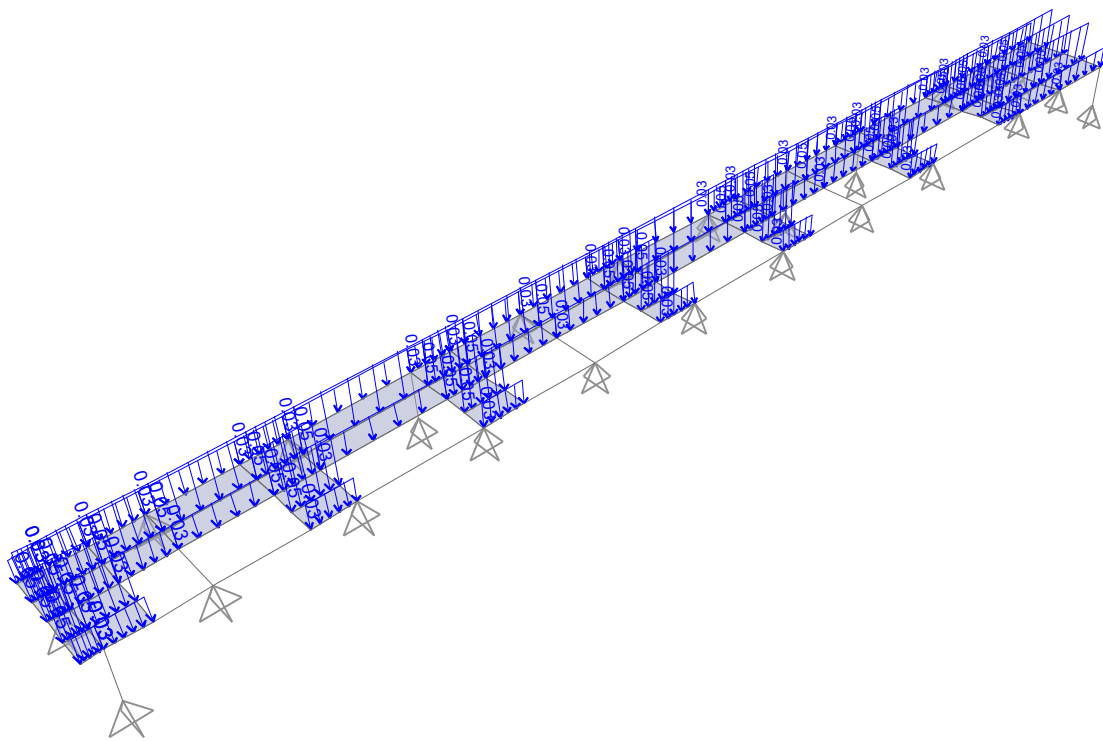












CAPITULO 3 COMBINACIONES



PROYECTO:

CENTRO CRECER CUBIERTA EJES B Y C

FECHA:

1/07/2017

INGENIERO:

IVAN MAURICIO GUEVARA R.

N.P.:

P-490

ANALISIS ESTRUCTURA EDIFICIO

DATOS DE ENTRADA

COMBINACIONES DE CARGAS

1. 1.40 C.M.
2. 1.20 C.M. + 1.60 C.V.
3. 1.20 C.M. + 1.60 C.V. + 0.50 W
4. 1.20 C.M. + 1.60 C.V. - 0.50 W
5. 1.20 C.M. + 0.50 C.V. + 1.00 W
6. 1.20 C.M. + 0.50 C.V. - 1.00 W
7. 0.90 C.M. + 1.00 W
8. 0.90 C.M. - 1.00 W

C.M. = Carga Muerta
C.V. = Carga Viva
W = Carga de viento

CAPITULO 4

DISEÑO ESTRUCTURAL

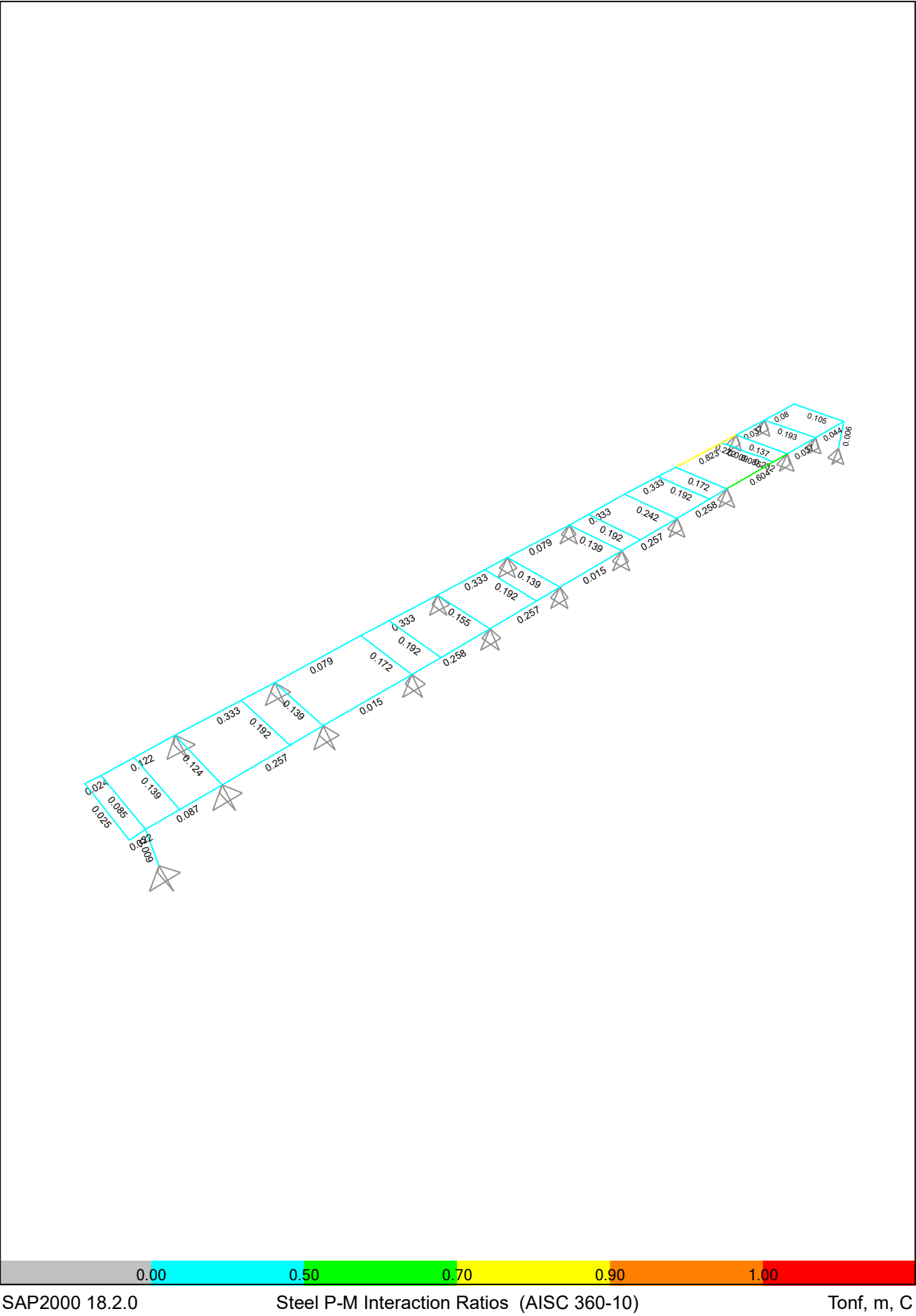


Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2					
Frame	DesignSect	DesignType	Status	Ratio	RatioType
15	IPE200	Beam	No Messages	0.079306	PMM
18	IPE200	Beam	No Messages	0.079131	PMM
22	IPE200	Beam	No Messages	0.03659	PMM
23	IPE200	Beam	No Messages	0.079574	PMM
26	IPE200	Beam	No Messages	0.01458	PMM
29	IPE200	Beam	No Messages	0.01458	PMM
32	IPE200	Beam	No Messages	0.603682	PMM
33	IPE200	Beam	No Messages	0.03659	PMM
34	IPE200	Beam	No Messages	0.044423	PMM
41	HE200A	Column	No Messages	0.008693	PMM
42	HE200A	Column	No Messages	0.006387	PMM
43	IPE200	Beam	No Messages	0.021794	PMM
44	IPE200	Beam	No Messages	0.023667	PMM
66	IPE200	Brace	No Messages	0.08457	PMM
70	IPE200	Brace	No Messages	0.124447	PMM
74	IPE200	Brace	No Messages	0.13925	PMM
78	IPE200	Brace	No Messages	0.1717	PMM
82	IPE200	Brace	No Messages	0.155484	PMM
86	IPE200	Brace	No Messages	0.139246	PMM
90	IPE200	Brace	No Messages	0.139249	PMM
94	IPE200	Brace	No Messages	0.242435	PMM
98	IPE200	Brace	No Messages	0.171687	PMM
102	IPE200	Brace	No Messages	0.137149	PMM
106	IPE200	Brace	No Messages	0.19289	PMM
110	IPE200	Brace	No Messages	0.104569	PMM
114	IPE200	Beam	No Messages	0.122147	PMM
116	IPE200	Beam	No Messages	0.333263	PMM
118	IPE200	Beam	No Messages	0.332953	PMM
120	IPE200	Beam	No Messages	0.333263	PMM
122	IPE200	Beam	No Messages	0.333197	PMM
124	IPE200	Beam	No Messages	0.33288	PMM
126	IPE200	Beam	No Messages	0.086965	PMM
128	IPE200	Beam	No Messages	0.257371	PMM
130	IPE200	Beam	No Messages	0.257712	PMM
132	IPE200	Beam	No Messages	0.257372	PMM
134	IPE200	Beam	No Messages	0.257416	PMM
136	IPE200	Beam	No Messages	0.257762	PMM
148	IPE200	Brace	No Messages	0.025307	PMM
152	IPE200	Brace	No Messages	0.139215	PMM
156	IPE200	Brace	No Messages	0.191921	PMM
160	IPE200	Brace	No Messages	0.19226	PMM
164	IPE200	Brace	No Messages	0.19192	PMM
168	IPE200	Brace	No Messages	0.191963	PMM
172	IPE200	Brace	No Messages	0.192313	PMM
243	IPE200	Brace	No Messages	0.221901	PMM
244	IPE200	Brace	No Messages	0.00863	PMM
245	IPE200	Brace	No Messages	0.085264	PMM
246	IPE200	Brace	No Messages	0.232113	PMM

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2					
Frame	DesignSect	DesignType	Status	Ratio	RatioType
1	IPE200	Beam	No Messages	0.823368	PMM

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 2 of 2

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 2 of 2				
Frame	Combo	Location	ErrMsg	WarnMsg
		m		
15	COMB3	0.	No Messages	No Messages
18	COMB3	6.25	No Messages	No Messages
22	COMB3	4.25	No Messages	No Messages
23	COMB2	2.325	No Messages	No Messages
26	COMB1	6.25	No Messages	No Messages
29	COMB1	6.25	No Messages	No Messages
32	COMB2	6.25	No Messages	No Messages
33	COMB3	4.25	No Messages	No Messages
34	COMB3	0.	No Messages	No Messages
41	COMB3	0.	No Messages	No Messages
42	COMB3	0.	No Messages	No Messages
43	COMB3	0.	No Messages	No Messages
44	COMB3	0.	No Messages	No Messages
66	COMB3	0.	No Messages	No Messages
70	COMB3	5.30094	No Messages	No Messages
74	COMB3	5.30094	No Messages	No Messages
78	COMB3	3.97571	No Messages	No Messages
82	COMB3	5.30094	No Messages	No Messages
86	COMB3	5.30094	No Messages	No Messages
90	COMB3	5.30094	No Messages	No Messages
94	COMB3	3.97571	No Messages	No Messages
98	COMB3	3.97571	No Messages	No Messages
102	COMB3	5.30094	No Messages	No Messages
106	COMB3	5.30094	No Messages	No Messages
110	COMB3	5.30094	No Messages	No Messages
114	COMB2	1.82	No Messages	No Messages
116	COMB2	4.1	No Messages	No Messages
118	COMB2	2.15	No Messages	No Messages
120	COMB2	4.1	No Messages	No Messages
122	COMB2	2.15	No Messages	No Messages
124	COMB2	4.1	No Messages	No Messages
126	COMB3	0.	No Messages	No Messages
128	COMB2	4.1	No Messages	No Messages
130	COMB2	2.15	No Messages	No Messages
132	COMB2	4.1	No Messages	No Messages
134	COMB2	2.15	No Messages	No Messages
136	COMB2	4.1	No Messages	No Messages
148	COMB3	0.	No Messages	No Messages
152	COMB3	1.32524	No Messages	No Messages
156	COMB3	3.97571	No Messages	No Messages
160	COMB3	3.97571	No Messages	No Messages
164	COMB3	3.97571	No Messages	No Messages
168	COMB3	3.97571	No Messages	No Messages
172	COMB3	3.97571	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 2 of 2				
Frame	Combo	Location	ErrMsg	WarnMsg
		m		
243	COMB3	1.32524	No Messages	No Messages
244	COMB3	1.32524	No Messages	No Messages
245	COMB3	1.32524	No Messages	No Messages
246	COMB3	0.	No Messages	No Messages
1	COMB3	8.25	No Messages	No Messages

Proyecto: _____ Fecha: _____

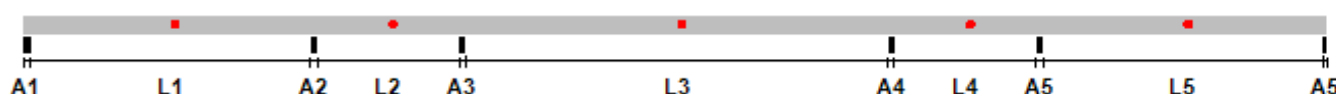
Ingeniero: _____ Firma: _____

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

REPORTE DE CORREAS

PHR C con atiesador 203 x 67 x 19 (2.50 mm)
con $F_y = 35.15 \text{ Kg/mm}^2$ cada 1.00 m con arriostramiento cada $L/2$.

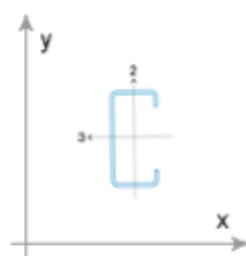
SECCION LONGITUDINAL



L1	4.15 m
L2	2.10 m
L3	6.25 m
L4	2.10 m
L5	4.15 m
A1	0.10 m
A2	0.10 m
A3	0.10 m
A4	0.10 m
A5	0.10 m
A6	0.05 m

CONFIGURACION	
TIPO DE CARGA	DISTRIBUIDA
Carga muerta	20.00 Kg/m ²
Peso propio correa	7.03 Kg/m
Carga viva	50.00 Kg/m ²
Carga granizo	100.00 Kg/m ²
Viento compresión (Perpendicular)	40.00 Kg/m ²
Viento succión (Perpendicular)	-40.00 Kg/m ²
Pendiente sección transversal	1° = 1.7460%

SECCION TRANSVERSAL



$L = 1.00 \text{ m}$



Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

REPORTES DE DISEÑO

REPORTE FLEXION				
	Apoyos		Interiores	
Ejes locales	3	2	3	2
Resistente (Kgf.m)	1710.6665	323.6093	1323.3861	312.8738
Calculado (Kgf.m)	580.1351	2.1304	580.1354	3.1668

REPORTE CORTANTE		
Ejes locales	2	3
Resistente (Kgf)	7029.3320	5209.7456
Calculado (Kgf)	672.9117	4.9841

REPORTE DEFLEXION		
Deflexiones máximas	Instantanea	Permanente
Admisible (m)	0.0235	0.0000
Calculado (m)	0.0033	0.0000

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

COMBINACIONES DE CARGA

No	Muerta	Viva	Granizo	Viento compresión	Viento succión
1	1.4000	0.0000	0.0000	0.0000	0.0000
2	1.2000	0.5000	0.0000	0.0000	0.0000
3	1.2000	0.0000	0.5000	0.0000	0.0000
4	1.2000	1.6000	0.0000	0.5000	0.0000
5	1.2000	0.0000	1.6000	0.5000	0.0000
6	1.2000	1.6000	0.0000	0.0000	0.5000
7	1.2000	0.0000	1.6000	0.0000	0.5000
8	1.2000	0.5000	0.0000	0.0000	1.0000
9	1.2000	0.0000	0.5000	0.0000	1.0000
10	1.2000	0.5000	0.0000	1.0000	0.0000
11	1.2000	0.0000	0.5000	1.0000	0.0000
12	0.9000	0.0000	0.0000	0.0000	1.0000
13	0.9000	0.0000	0.0000	1.0000	0.0000

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____

Fecha: _____

Ingeniero: _____

Firma: _____

REACCIONES - EJES GLOBALES (Kgf-m)

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

APOYO 1		
Combinacion	Rx	Ry
Muerta	-0.4749	49.6137
Viva de Cub.	-0.8784	91.7754
Granizo	-1.7569	183.5507
Viento Comp.	-1.2816	73.4213
Viento Succion	0.0000	0.0000
Comb. 1	-0.6648	69.4592
Comb. 2	-1.0091	105.4242
Comb. 3	-1.4483	151.3118
Comb. 4	-2.6162	243.0877
Comb. 5	-4.0217	389.9283
Comb. 6	-1.9754	206.3771
Comb. 7	-3.3809	353.2176
Comb. 8	-1.0091	105.4242
Comb. 9	-1.4483	151.3118
Comb. 10	-2.2907	178.8455
Comb. 11	-2.7299	224.7332
Comb. 12	-0.4274	44.6524
Comb. 13	-1.7090	118.0737

APOYO 2		
Combinacion	Rx	Ry
Muerta	-0.4760	76.5793
Viva de Cub.	-0.8805	141.6562
Granizo	-1.7611	283.3123
Viento Comp.	-1.9780	113.3200
Viento Succion	0.0000	0.0000
Comb. 1	-0.6664	107.2111
Comb. 2	-1.0115	162.7233
Comb. 3	-1.4517	233.5514
Comb. 4	-2.9691	375.2051
Comb. 5	-4.3779	601.8550
Comb. 6	-1.9801	318.5451
Comb. 7	-3.3889	545.1949
Comb. 8	-1.0115	162.7233
Comb. 9	-1.4517	233.5514
Comb. 10	-2.9895	276.0433
Comb. 11	-3.4298	346.8714
Comb. 12	-0.4284	68.9214
Comb. 13	-2.4064	182.2414

APOYO 3		
Combinacion	Rx	Ry
Muerta	-1.0704	133.9160
Viva de Cub.	-1.9800	247.7174
Granizo	-3.9600	495.4347
Viento Comp.	-3.4591	198.1714
Viento Succion	0.0000	0.0000
Comb. 1	-1.4985	187.4824
Comb. 2	-2.2745	284.5579
Comb. 3	-3.2645	408.4165
Comb. 4	-6.1820	656.1327
Comb. 5	-9.3500	1052.4803
Comb. 6	-4.4525	557.0470
Comb. 7	-7.6205	953.3948
Comb. 8	-2.2745	284.5579
Comb. 9	-3.2645	408.4165
Comb. 10	-5.7336	482.7292
Comb. 11	-6.7236	606.5879
Comb. 12	-0.9633	120.5244
Comb. 13	-4.4224	318.6957

APOYO 4		
Combinacion	Rx	Ry
Muerta	-1.0771	134.2831
Viva de Cub.	-1.9925	248.3965
Granizo	-3.9850	496.7929
Viento Comp.	-3.4686	198.7147
Viento Succion	0.0000	0.0000
Comb. 1	-1.5080	187.9964
Comb. 2	-2.2888	285.3380
Comb. 3	-3.2851	409.5363
Comb. 4	-6.2149	657.9315
Comb. 5	-9.4029	1055.3658
Comb. 6	-4.4806	558.5742
Comb. 7	-7.6686	956.0085
Comb. 8	-2.2888	285.3380
Comb. 9	-3.2851	409.5363
Comb. 10	-5.7574	484.0527
Comb. 11	-6.7537	608.2510
Comb. 12	-0.9694	120.8548
Comb. 13	-4.4380	319.5695

APOYO 5		
Combinacion	Rx	Ry
Muerta	-0.4667	75.8173
Viva de Cub.	-0.8633	140.2467
Granizo	-1.7265	280.4933
Viento Comp.	-1.9583	112.1923
Viento Succion	0.0000	0.0000
Comb. 1	-0.6533	106.1443
Comb. 2	-0.9916	161.1041
Comb. 3	-1.4233	231.2275
Comb. 4	-2.9204	371.4716
Comb. 5	-4.3016	595.8663
Comb. 6	-1.9412	315.3755
Comb. 7	-3.3224	539.7701
Comb. 8	-0.9916	161.1041
Comb. 9	-1.4233	231.2275
Comb. 10	-2.9500	273.2964
Comb. 11	-3.3816	343.4197
Comb. 12	-0.4200	68.2356
Comb. 13	-2.3783	180.4279

APOYO 6		
Combinacion	Rx	Ry
Muerta	-0.4729	49.3717
Viva de Cub.	-0.8748	91.3275
Granizo	-1.7497	182.6550
Viento Comp.	-1.2753	73.0631
Viento Succion	0.0000	0.0000
Comb. 1	-0.6621	69.1203
Comb. 2	-1.0049	104.9097
Comb. 3	-1.4424	150.5735
Comb. 4	-2.6049	241.9015
Comb. 5	-4.0046	388.0255
Comb. 6	-1.9673	205.3700
Comb. 7	-3.3670	351.4940
Comb. 8	-1.0049	104.9097
Comb. 9	-1.4424	150.5735
Comb. 10	-2.2803	177.9728
Comb. 11	-2.7177	223.6366
Comb. 12	-0.4256	44.4345
Comb. 13	-1.7010	117.4976

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

FUERZAS INTERNAS - EJES LOCALES (Kgf-m)

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

APOYO 1				
Combinacion	R2	R3	M2	M3
Muerta	0.3911	49.6145	0.0000	0.0000
Viva de Cub.	0.7234	91.7767	0.0000	-2.5391E-05
Granizo	1.4468	183.5534	0.0000	-5.0781E-05
Viento Comp.	0.0000	73.4325	0.0000	-1.9531E-06
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	0.5475	69.4603	0.0000	0.0000
Comb. 2	0.8310	105.4257	0.0000	-1.2695E-05
Comb. 3	1.1927	151.3141	0.0000	-2.5391E-05
Comb. 4	1.6267	243.0964	0.0000	-4.1602E-05
Comb. 5	2.7841	389.9391	0.0000	-8.2227E-05
Comb. 6	1.6267	206.3801	0.0000	-4.0625E-05
Comb. 7	2.7841	353.2228	0.0000	-8.1250E-05
Comb. 8	0.8310	105.4257	0.0000	-1.2695E-05
Comb. 9	1.1927	151.3141	0.0000	-2.5391E-05
Comb. 10	0.8310	178.8582	0.0000	-1.4648E-05
Comb. 11	1.1927	224.7466	0.0000	-2.7344E-05
Comb. 12	0.3520	44.6530	0.0000	0.0000
Comb. 13	0.3520	118.0855	0.0000	-1.9531E-06

APOYO 2				
Combinacion	R2	R3	M2	M3
Muerta	0.8606	76.5760	0.1287	-33.2160
Viva de Cub.	1.5918	141.6500	0.2382	-61.4428
Granizo	3.1837	283.2999	0.4763	-122.8855
Viento Comp.	0.0000	113.3373	0.0000	-49.1617
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	1.2048	107.2064	0.1802	-46.5024
Comb. 2	1.8286	162.7162	0.2736	-70.5805
Comb. 3	2.6245	233.5412	0.3926	-101.3019
Comb. 4	3.5796	375.1998	0.5355	-162.7484
Comb. 5	6.1266	601.8397	0.9166	-261.0569
Comb. 6	3.5796	318.5311	0.5355	-138.1676
Comb. 7	6.1266	545.1711	0.9166	-236.4760
Comb. 8	1.8286	162.7162	0.2736	-70.5805
Comb. 9	2.6245	233.5412	0.3926	-101.3019
Comb. 10	1.8286	276.0534	0.2736	-119.7423
Comb. 11	2.6245	346.8784	0.3926	-150.4636
Comb. 12	0.7745	68.9184	0.1159	-29.8944
Comb. 13	0.7745	182.2556	0.1159	-79.0561

APOYO 3				
Combinacion	R2	R3	M2	M3
Muerta	1.2669	133.9143	0.2992	-73.6916
Viva de Cub.	2.3436	247.7142	0.5535	-136.3145
Granizo	4.6871	495.4284	1.1071	-272.6289
Viento Comp.	0.0000	198.2015	0.0000	-109.0682
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	1.7737	187.4800	0.4189	-103.1682
Comb. 2	2.6921	284.5542	0.6359	-156.5871
Comb. 3	3.8639	408.4113	0.9126	-224.7444
Comb. 4	5.2700	656.1406	1.2447	-361.0671
Comb. 5	9.0197	1052.4833	2.1304	-579.1702
Comb. 6	5.2700	557.0399	1.2447	-306.5330
Comb. 7	9.0197	953.3826	2.1304	-524.6362
Comb. 8	2.6921	284.5542	0.6359	-156.5871
Comb. 9	3.8639	408.4113	0.9126	-224.7444
Comb. 10	2.6921	482.7558	0.6359	-265.6553
Comb. 11	3.8639	606.6129	0.9126	-333.8125
Comb. 12	1.1402	120.5228	0.2693	-66.3224
Comb. 13	1.1402	318.7244	0.2693	-175.3906

APOYO 4				
Combinacion	R2	R3	M2	M3
Muerta	1.2666	134.2815	0.2992	-73.8144
Viva de Cub.	2.3429	248.3934	0.5535	-136.5415
Granizo	4.6858	496.7868	1.1069	-273.0831
Viento Comp.	0.0000	198.7450	0.0000	-109.2498
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	1.7732	187.9941	0.4189	-103.3401
Comb. 2	2.6914	285.3345	0.6358	-156.8480
Comb. 3	3.8628	409.5312	0.9125	-225.1188
Comb. 4	5.2686	657.9398	1.2446	-361.6686
Comb. 5	9.0172	1055.3693	2.1301	-580.1351
Comb. 6	5.2686	558.5673	1.2446	-307.0437
Comb. 7	9.0172	955.9968	2.1301	-525.5101
Comb. 8	2.6914	285.3345	0.6358	-156.8480
Comb. 9	3.8628	409.5312	0.9125	-225.1188
Comb. 10	2.6914	484.0795	0.6358	-266.0978
Comb. 11	3.8628	608.2762	0.9125	-334.3686
Comb. 12	1.1399	120.8533	0.2693	-66.4329
Comb. 13	1.1399	319.5983	0.2693	-175.6828

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

FUERZAS INTERNAS - EJES LOCALES (Kgf-m)

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

APOYO 5				
Combinacion	R2	R3	M2	M3
Muerta	0.8566	75.8139	0.1275	-32.6161
Viva de Cub.	1.5845	140.2404	0.2358	-60.3331
Granizo	3.1690	280.4807	0.4716	-120.6663
Viento Comp.	0.0000	112.2094	0.0000	-48.2738
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	1.1992	106.1395	0.1785	-45.6625
Comb. 2	1.8202	161.0969	0.2709	-69.3059
Comb. 3	2.6124	231.2171	0.3888	-99.4724
Comb. 4	3.5631	371.4660	0.5303	-159.8092
Comb. 5	6.0984	595.8506	0.9076	-256.3422
Comb. 6	3.5631	315.3613	0.5303	-135.6723
Comb. 7	6.0984	539.7458	0.9076	-232.2053
Comb. 8	1.8202	161.0969	0.2709	-69.3059
Comb. 9	2.6124	231.2171	0.3888	-99.4724
Comb. 10	1.8202	273.3063	0.2709	-117.5797
Comb. 11	2.6124	343.4265	0.3888	-147.7463
Comb. 12	0.7709	68.2325	0.1147	-29.3545
Comb. 13	0.7709	180.4419	0.1147	-77.6283

APOYO 6				
Combinacion	R2	R3	M2	M3
Muerta	0.3888	49.3724	-1.5259E-07	-3.5156E-05
Viva de Cub.	0.7192	91.3289	1.2207E-07	-3.1250E-05
Granizo	1.4384	182.6577	2.4414E-07	-6.2500E-05
Viento Comp.	0.0000	73.0742	0.0000	-2.7344E-05
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	0.5443	69.1213	-2.1362E-07	-4.9219E-05
Comb. 2	0.8261	104.9113	-1.2207E-07	-5.7813E-05
Comb. 3	1.1857	150.5757	-6.1035E-08	-7.3438E-05
Comb. 4	1.6172	241.9102	1.2207E-08	-1.0586E-04
Comb. 5	2.7679	388.0363	2.0752E-07	-1.5586E-04
Comb. 6	1.6172	205.3730	1.2207E-08	-9.2188E-05
Comb. 7	2.7679	351.4992	2.0752E-07	-1.4219E-04
Comb. 8	0.8261	104.9113	-1.2207E-07	-5.7813E-05
Comb. 9	1.1857	150.5757	-6.1035E-08	-7.3438E-05
Comb. 10	0.8261	177.9855	-1.2207E-07	-8.5156E-05
Comb. 11	1.1857	223.6499	-6.1035E-08	-1.0078E-04
Comb. 12	0.3499	44.4351	-1.3733E-07	-3.1641E-05
Comb. 13	0.3499	117.5094	-1.3733E-07	-5.8984E-05

Proyecto: _____ Fecha: _____

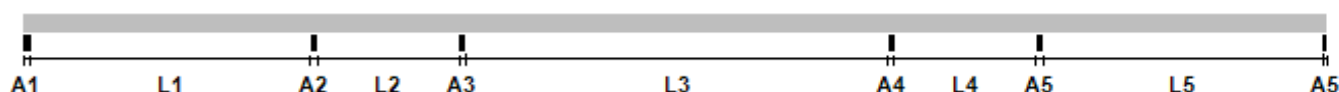
Ingeniero: _____ Firma: _____

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

REPORTE DE CORREAS

PHR C con atiesador 355 x 110 x 25 (2.50 mm)
con $F_y = 35.15 \text{ Kg/mm}^2$ cada 1.00 m sin arriostramiento interior.

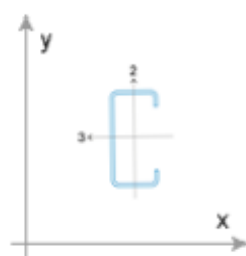
SECCION LONGITUDINAL



L1	4.15 m
L2	2.10 m
L3	6.25 m
L4	2.10 m
L5	4.15 m
A1	0.10 m
A2	0.10 m
A3	0.10 m
A4	0.10 m
A5	0.10 m
A6	0.05 m

CONFIGURACION	
TIPO DE CARGA	DISTRIBUIDA
Carga muerta	20.00 Kg/m ²
Peso propio correa	11.87 Kg/m
Carga viva	50.00 Kg/m ²
Carga granizo	100.00 Kg/m ²
Viento compresión (Perpendicular)	40.00 Kg/m ²
Viento succión (Perpendicular)	-40.00 Kg/m ²
Pendiente sección transversal	1° = 1.7460%

SECCION TRANSVERSAL



$L = 1.00 \text{ m}$



Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

REPORTES DE DISEÑO

REPORTE FLEXION				
	Apoyos		Interiores	
Ejes locales	3	2	3	2
Resistente (Kgf.m)	4472.5342	853.2190	2405.3330	768.4172
Calculado (Kgf.m)	596.0068	9.4499	596.0070	9.4499

REPORTE CORTANTE		
Ejes locales	2	3
Resistente (Kgf)	4371.0239	9517.8047
Calculado (Kgf)	691.3215	10.9611

REPORTE DEFLEXION		
Deflexiones máximas	Instantanea	Permanente
Admisible (m)	0.0235	0.0000
Calculado (m)	0.0006	0.0000

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

COMBINACIONES DE CARGA

No	Muerta	Viva	Granizo	Viento compresión	Viento succión
1	1.4000	0.0000	0.0000	0.0000	0.0000
2	1.2000	0.5000	0.0000	0.0000	0.0000
3	1.2000	0.0000	0.5000	0.0000	0.0000
4	1.2000	1.6000	0.0000	0.5000	0.0000
5	1.2000	0.0000	1.6000	0.5000	0.0000
6	1.2000	1.6000	0.0000	0.0000	0.5000
7	1.2000	0.0000	1.6000	0.0000	0.5000
8	1.2000	0.5000	0.0000	0.0000	1.0000
9	1.2000	0.0000	0.5000	0.0000	1.0000
10	1.2000	0.5000	0.0000	1.0000	0.0000
11	1.2000	0.0000	0.5000	1.0000	0.0000
12	0.9000	0.0000	0.0000	0.0000	1.0000
13	0.9000	0.0000	0.0000	1.0000	0.0000

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____

Fecha: _____

Ingeniero: _____

Firma: _____

REACCIONES - EJES GLOBALES (Kgf-m)

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

APOYO 1		
Combinacion	Rx	Ry
Muerta	-5.9598E-08	58.5135
Viva de Cub.	3.5032E-08	91.7907
Granizo	7.0064E-08	183.5813
Viento Comp.	-1.2816	73.4214
Viento Succion	0.0000	0.0000
Comb. 1	-1.5774E-07	81.9189
Comb. 2	-3.1559E-08	116.1115
Comb. 3	-1.4021E-07	162.0069
Comb. 4	-0.6408	253.7919
Comb. 5	-0.6408	400.6570
Comb. 6	2.1042E-08	217.0813
Comb. 7	2.3129E-07	363.9463
Comb. 8	-3.1559E-08	116.1115
Comb. 9	-1.4021E-07	162.0069
Comb. 10	-1.2816	189.5329
Comb. 11	-1.2816	235.4282
Comb. 12	-6.1369E-08	52.6621
Comb. 13	-1.2816	126.0835

APOYO 2		
Combinacion	Rx	Ry
Muerta	8.4768E-08	90.3109
Viva de Cub.	3.0590E-07	141.6716
Granizo	6.1180E-07	283.3431
Viento Comp.	-1.9780	113.3200
Viento Succion	0.0000	0.0000
Comb. 1	-3.3074E-09	126.4353
Comb. 2	3.6549E-07	179.2089
Comb. 3	6.5159E-07	250.0446
Comb. 4	-0.9890	391.7076
Comb. 5	-0.9890	618.3821
Comb. 6	3.2486E-07	335.0476
Comb. 7	7.8080E-07	561.7221
Comb. 8	3.6549E-07	179.2089
Comb. 9	6.5159E-07	250.0446
Comb. 10	-1.9780	292.5289
Comb. 11	-1.9780	363.3646
Comb. 12	2.0884E-08	81.2798
Comb. 13	-1.9780	194.5998

APOYO 3		
Combinacion	Rx	Ry
Muerta	2.8557E-07	157.9336
Viva de Cub.	1.4231E-08	247.7520
Granizo	2.8462E-08	495.5040
Viento Comp.	-3.4591	198.1714
Viento Succion	0.0000	0.0000
Comb. 1	5.5400E-07	221.1071
Comb. 2	4.1294E-07	313.3963
Comb. 3	3.1482E-07	437.2723
Comb. 4	-1.7295	685.0092
Comb. 5	-1.7295	1081.4124
Comb. 6	2.3660E-07	585.9235
Comb. 7	4.9474E-07	982.3267
Comb. 8	4.1294E-07	313.3963
Comb. 9	3.1482E-07	437.2723
Comb. 10	-3.4591	511.5677
Comb. 11	-3.4591	635.4437
Comb. 12	2.7806E-07	142.1403
Comb. 13	-3.4591	340.3116

APOYO 4		
Combinacion	Rx	Ry
Muerta	2.4661E-07	158.3666
Viva de Cub.	2.6179E-07	248.4312
Granizo	5.2357E-07	496.8625
Viento Comp.	-3.4686	198.7147
Viento Succion	0.0000	0.0000
Comb. 1	4.5737E-07	221.7133
Comb. 2	3.3577E-07	314.2556
Comb. 3	5.9982E-07	438.4712
Comb. 4	-1.7343	686.8873
Comb. 5	-1.7343	1084.3772
Comb. 6	1.0739E-06	587.5299
Comb. 7	1.1311E-07	985.0199
Comb. 8	3.3577E-07	314.2556
Comb. 9	5.9982E-07	438.4712
Comb. 10	-3.4686	512.9703
Comb. 11	-3.4686	637.1859
Comb. 12	3.3406E-07	142.5300
Comb. 13	-3.4686	341.2447

APOYO 5		
Combinacion	Rx	Ry
Muerta	1.7594E-07	89.4122
Viva de Cub.	-1.8787E-07	140.2617
Granizo	-3.7573E-07	280.5235
Viento Comp.	-1.9583	112.1923
Viento Succion	0.0000	0.0000
Comb. 1	2.0143E-07	125.1770
Comb. 2	7.3807E-08	177.4255
Comb. 3	1.1303E-07	247.5564
Comb. 4	-0.9792	387.8095
Comb. 5	-0.9792	612.2283
Comb. 6	4.2399E-08	331.7134
Comb. 7	-9.5916E-07	556.1322
Comb. 8	7.3807E-08	177.4255
Comb. 9	1.1303E-07	247.5564
Comb. 10	-1.9583	289.6178
Comb. 11	-1.9583	359.7487
Comb. 12	1.7305E-07	80.4710
Comb. 13	-1.9583	192.6633

APOYO 6		
Combinacion	Rx	Ry
Muerta	-2.1805E-08	58.2280
Viva de Cub.	-1.4558E-07	91.3428
Granizo	-2.9116E-07	182.6856
Viento Comp.	-1.2753	73.0631
Viento Succion	0.0000	0.0000
Comb. 1	-1.1048E-09	81.5192
Comb. 2	-3.1630E-08	115.5450
Comb. 3	2.1750E-08	161.2164
Comb. 4	-0.6377	252.5536
Comb. 5	-0.6377	398.7021
Comb. 6	-2.1700E-07	216.0220
Comb. 7	-5.8738E-07	362.1705
Comb. 8	-3.1630E-08	115.5450
Comb. 9	2.1750E-08	161.2164
Comb. 10	-1.2753	188.6081
Comb. 11	-1.2753	234.2795
Comb. 12	9.7977E-09	52.4052
Comb. 13	-1.2753	125.4683

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

FUERZAS INTERNAS - EJES LOCALES (Kgf-m)

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

APOYO 1				
Combinacion	R2	R3	M2	M3
Muerta	1.0212	58.5046	-1.8311E-07	0.0000
Viva de Cub.	1.6020	91.7767	0.0000	0.0000
Granizo	3.2039	183.5534	0.0000	0.0000
Viento Comp.	0.0000	73.4325	0.0000	-7.8125E-06
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	1.4297	81.9064	-2.5635E-07	0.0000
Comb. 2	2.0264	116.0938	-2.1973E-07	0.0000
Comb. 3	2.8274	161.9822	-2.1973E-07	0.0000
Comb. 4	3.7886	253.7645	-2.1973E-07	-3.9063E-06
Comb. 5	6.3517	400.6071	-2.1973E-07	-3.9063E-06
Comb. 6	3.7886	217.0482	-2.1973E-07	0.0000
Comb. 7	6.3517	363.8909	-2.1973E-07	0.0000
Comb. 8	2.0264	116.0938	-2.1973E-07	0.0000
Comb. 9	2.8274	161.9822	-2.1973E-07	0.0000
Comb. 10	2.0264	189.5264	-2.1973E-07	-7.8125E-06
Comb. 11	2.8274	235.4147	-2.1973E-07	-7.8125E-06
Comb. 12	0.9191	52.6541	-1.6479E-07	0.0000
Comb. 13	0.9191	126.0867	-1.6479E-07	-7.8125E-06

APOYO 2				
Combinacion	R2	R3	M2	M3
Muerta	1.5761	90.2971	0.6837	-39.1677
Viva de Cub.	2.4725	141.6500	1.0725	-61.4428
Granizo	4.9450	283.3000	2.1450	-122.8856
Viento Comp.	0.0000	113.3373	0.0000	-49.1617
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	2.2066	126.4160	0.9571	-54.8348
Comb. 2	3.1276	179.1816	1.3567	-77.7227
Comb. 3	4.3639	250.0065	1.8929	-108.4441
Comb. 4	5.8474	391.6652	2.5364	-169.8906
Comb. 5	9.8034	618.3052	4.2524	-268.1991
Comb. 6	5.8474	334.9966	2.5364	-145.3098
Comb. 7	9.8034	561.6365	4.2524	-243.6182
Comb. 8	3.1276	179.1816	1.3567	-77.7227
Comb. 9	4.3639	250.0065	1.8929	-108.4441
Comb. 10	3.1276	292.5188	1.3567	-126.8844
Comb. 11	4.3639	363.3438	1.8929	-157.6058
Comb. 12	1.4185	81.2674	0.6153	-35.2510
Comb. 13	1.4185	194.6047	0.6153	-84.4127

APOYO 3				
Combinacion	R2	R3	M2	M3
Muerta	2.7563	157.9096	1.5168	-86.8959
Viva de Cub.	4.3239	247.7142	2.3794	-136.3145
Granizo	8.6477	495.4285	4.7588	-272.6290
Viento Comp.	0.0000	198.2016	0.0000	-109.0682
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	3.8589	221.0734	2.1235	-121.6543
Comb. 2	5.4695	313.3486	3.0098	-172.4324
Comb. 3	7.6315	437.2057	4.1995	-240.5896
Comb. 4	10.2258	684.9351	5.6271	-376.9124
Comb. 5	17.1440	1081.2778	9.4341	-595.0156
Comb. 6	10.2258	585.8343	5.6271	-322.3783
Comb. 7	17.1440	982.1771	9.4341	-540.4815
Comb. 8	5.4695	313.3486	3.0098	-172.4324
Comb. 9	7.6315	437.2057	4.1995	-240.5896
Comb. 10	5.4695	511.5502	3.0098	-281.5005
Comb. 11	7.6315	635.4073	4.1995	-349.6578
Comb. 12	2.4807	142.1186	1.3651	-78.2063
Comb. 13	2.4807	340.3202	1.3651	-187.2745

APOYO 4				
Combinacion	R2	R3	M2	M3
Muerta	2.7639	158.3425	1.5193	-87.0407
Viva de Cub.	4.3357	248.3934	2.3833	-136.5416
Granizo	8.6714	496.7868	4.7667	-273.0831
Viento Comp.	0.0000	198.7450	0.0000	-109.2499
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	3.8694	221.6795	2.1270	-121.8570
Comb. 2	5.4845	314.2077	3.0148	-172.7196
Comb. 3	7.6524	438.4044	4.2065	-240.9904
Comb. 4	10.2538	686.8129	5.6365	-377.5403
Comb. 5	17.1910	1084.2423	9.4499	-596.0068
Comb. 6	10.2538	587.4404	5.6365	-322.9153
Comb. 7	17.1910	984.8699	9.4499	-541.3819
Comb. 8	5.4845	314.2077	3.0148	-172.7196
Comb. 9	7.6524	438.4044	4.2065	-240.9904
Comb. 10	5.4845	512.9527	3.0148	-281.9695
Comb. 11	7.6524	637.1494	4.2065	-350.2403
Comb. 12	2.4875	142.5082	1.3674	-78.3366
Comb. 13	2.4875	341.2532	1.3674	-187.5865

Memorias de Cálculo

PROGRAMA DE DISEÑO Y CÁLCULO ESTRUCTURAL ARQUIMET 2.0

Proyecto: _____ Fecha: _____

Ingeniero: _____ Firma: _____

FUERZAS INTERNAS - EJES LOCALES (Kgf-m)

Elementos calculados con el programa de diseño Arquimet 2.0 de ACESCO

APOYO 5				
Combinacion	R2	R3	M2	M3
Muerta	1.5605	89.3986	0.6713	-38.4604
Viva de Cub.	2.4479	140.2404	1.0531	-60.3331
Granizo	4.8958	280.4807	2.1062	-120.6663
Viento Comp.	0.0000	112.2094	0.0000	-48.2739
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	2.1846	125.1580	0.9399	-53.8445
Comb. 2	3.0965	177.3985	1.3322	-76.3190
Comb. 3	4.3205	247.5186	1.8587	-106.4856
Comb. 4	5.7892	387.7676	2.4906	-166.8224
Comb. 5	9.7058	612.1522	4.1756	-263.3554
Comb. 6	5.7892	331.6629	2.4906	-142.6855
Comb. 7	9.7058	556.0475	4.1756	-239.2185
Comb. 8	3.0965	177.3985	1.3322	-76.3190
Comb. 9	4.3205	247.5186	1.8587	-106.4856
Comb. 10	3.0965	289.6078	1.3322	-124.5929
Comb. 11	4.3205	359.7281	1.8587	-154.7594
Comb. 12	1.4044	80.4587	0.6042	-34.6143
Comb. 13	1.4044	192.6681	0.6042	-82.8882

APOYO 6				
Combinacion	R2	R3	M2	M3
Muerta	1.0162	58.2191	4.2725E-07	-1.9531E-05
Viva de Cub.	1.5942	91.3289	9.7656E-07	2.7344E-05
Granizo	3.1883	182.6578	1.9531E-06	5.4688E-05
Viento Comp.	0.0000	73.0742	0.0000	1.5625E-05
Viento Succion	0.0000	0.0000	0.0000	0.0000
Comb. 1	1.4227	81.5068	5.9814E-07	-2.7344E-05
Comb. 2	2.0165	115.5274	1.0010E-06	-9.7656E-06
Comb. 3	2.8136	161.1918	1.4893E-06	3.9062E-06
Comb. 4	3.7701	252.5263	2.0752E-06	2.8125E-05
Comb. 5	6.3207	398.6525	3.6377E-06	7.1875E-05
Comb. 6	3.7701	215.9892	2.0752E-06	2.0313E-05
Comb. 7	6.3207	362.1154	3.6377E-06	6.4063E-05
Comb. 8	2.0165	115.5274	1.0010E-06	-9.7656E-06
Comb. 9	2.8136	161.1918	1.4893E-06	3.9062E-06
Comb. 10	2.0165	188.6016	1.0010E-06	5.8594E-06
Comb. 11	2.8136	234.2661	1.4893E-06	1.9531E-05
Comb. 12	0.9146	52.3972	3.8452E-07	-1.7578E-05
Comb. 13	0.9146	125.4714	3.8452E-07	-1.9531E-06

Current Date: 1/07/2017 3:46 p. m.

Units system: Metric

File name: F:\TRABAJO\GAL-18-490-DSB-CENTRO CRECER\490-MEMORIAS\CUBIERTA ENTRE EJES B Y C\CONEXIONES\CONEXIONES.cnx\

Steel connections

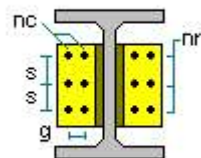
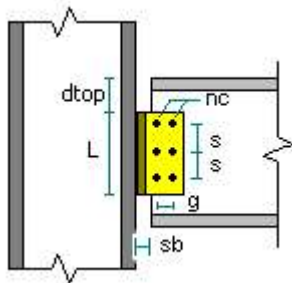
Data

Connection name : DA_BCF_L 3x3x1/4_2B3/4
Connection ID : 1V

Family: Viga - Ala de columna (BCF)
Type: Angle(s)
Description: IPE 200 A HEA 200

DATOS GENERALES

Conector



MIEMBROS

Viga

General

Sección de viga : IPE 200
Material de viga : A992 Gr50
Angulo de sesgo horizontal (°) : 0
Angulo de inclinación vertical (°) : 0
Excentricidad horizontal : 0 cm
sb: Holgura de la viga : 1 cm

Copado

dct: Altura copado superior : 0 cm
ct: Largo copado superior : 0 cm
dcb: Altura copado inferior : 0 cm
cb: Largo copado inferior : 0 cm

Columna

General

Sección de soporte : EN_HE 200 A
Material de soporte : A992 Gr50
Es extremo de columna : No

ANGULAR

Conector

Sección de angular	:	L 3-1_2X3-1_2X1_4
Material	:	A36
El lado corto del angular esta sobre la viga	:	Si
Se considera angular doble	:	Si
Despeje	:	0.318 cm
L: Longitud de angular	:	13.7 cm

Lado de la viga

Ubicación del angular respecto a la viga	:	Centro
dtop: Distancia al tope de viga	:	7.62 cm
Tipo de conexión	:	Empernada
Pernos	:	1/2" A325 N
nc: Columnas de pernos	:	1
nr: Filas de pernos	:	2
s: Separación longitudinal entre pernos	:	5.7 cm
Lev: Distancia vertical al borde	:	4 cm
Leh: Distancia horizontal al borde	:	4 cm
Tipo de hueco en viga	:	Standard (STD)
Tipo de hueco en angular	:	Standard (STD)

Lado del soporte

Tipo de conexión	:	Empernada
Pernos	:	1/2" A325 N
nc: Columnas de pernos	:	1
nr: Filas de pernos	:	2
s: Separación longitudinal entre pernos	:	5.7 cm
Lev: Distancia vertical al borde	:	4 cm
Leh: Distancia horizontal al borde	:	4 cm
Tipo de hueco en soporte	:	Standard (STD)
Tipo de hueco en angular	:	Standard (STD)

Current Date: 1/07/2017 3:47 p. m.

Units system: Metric

File name: F:\TRABAJO\GAL-18-490-DSB-CENTRO CRECER\490-MEMORIAS\CUBIERTA ENTRE EJES B Y C\CONEXIONES\CONEXIONES.cnx\

Steel connections

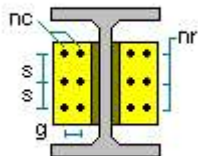
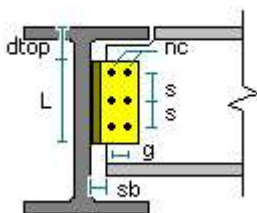
Data

Connection name : DA_BG_L 3x3x1/4_2B3/4
Connection ID : 2V

Family: Viga - Viga maestra (BG)
Type: Angle(s)
Description: IPE 200 A IPE 200

DATOS GENERALES

Conector



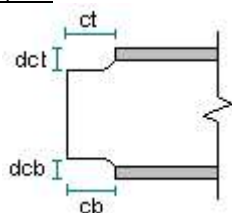
MIEMBROS

Viga

General

Sección de viga : IPE 200
Material de viga : A992 Gr50
Alineación de la viga respecto a la viga maestra : Superior
Angulo de sesgo horizontal (°) : 0
Angulo de inclinación vertical (°) : 0
Excentricidad horizontal : 0 cm
sb: Holgura de la viga : 1 cm

Copado



dct: Altura copado superior	:	2 cm
ct: Largo copado superior	:	4 cm
dcb: Altura copado inferior	:	2 cm
cb: Largo copado inferior	:	4 cm

Viga maestra

General

Sección de soporte	:	IPE 200
Material de soporte	:	A992 Gr50

ANGULAR

Conector

Sección de angular	:	L 3-1_2X3-1_2X1_4
Material	:	A36
El lado corto del angular esta sobre la viga	:	Si
Se considera angular doble	:	Si
Despeje	:	0.318 cm
L: Longitud de angular	:	12 cm

Lado de la viga

Ubicación del angular respecto a la viga	:	Centro
dtop: Distancia al tope de viga	:	6.35 cm
Tipo de conexión	:	Empernada
Pernos	:	1/2" A325 N
nc: Columnas de pernos	:	1
nr: Filas de pernos	:	2
s: Separación longitudinal entre pernos	:	5 cm
Lev: Distancia vertical al borde	:	3.5 cm
Leh: Distancia horizontal al borde	:	3.5 cm
Tipo de hueco en viga	:	Standard (STD)
Tipo de hueco en angular	:	Standard (STD)

Lado del soporte

Tipo de conexión	:	Empernada
Pernos	:	1/2" A325 N
nc: Columnas de pernos	:	1
nr: Filas de pernos	:	2
s: Separación longitudinal entre pernos	:	5 cm
Lev: Distancia vertical al borde	:	3.5 cm
Leh: Distancia horizontal al borde	:	3.5 cm
Tipo de hueco en soporte	:	Standard (STD)
Tipo de hueco en angular	:	Standard (STD)

Current Date: 1/07/2017 3:48 p. m.

Units system: Metric

File name: F:\TRABAJO\GAL-18-490-DSB-CENTRO CRECER\490-MEMORIAS\CUBIERTA ENTRE EJES B Y C\CONEXIONES\CONEXIONES.cnx\

Steel connections

Results

Connection name : DA_BG_L 3x3x1/4_2B3/4
Connection ID : 2V

Family: Viga - Viga maestra (BG)
Type: Angle(s)
Description: IPE 200 A IPE 200
Código de diseño: AISC 360-10 LRFD

SOLICITACIONES

Descripción	Ru [Ton]	Pu [Ton]	Tipo de carga
D	0.21	0.40	Design
L	0.88	0.80	Design
SX	0.00	0.00	Design
SY	0.00	0.00	Design
CMB1	1.66	1.76	Design
CMB2	1.13	1.28	Design
CMB3	1.13	1.28	Design
CMB4	1.13	1.28	Design
CMB5	1.13	1.28	Design
CMB6	1.13	1.28	Design
CMB7	1.13	1.28	Design
CMB8	1.13	1.28	Design
CMB9	1.13	1.28	Design
CMB10	0.18	0.36	Design
CMB11	0.18	0.36	Design
CMB12	0.18	0.36	Design
CMB13	0.18	0.36	Design
CMB14	0.18	0.36	Design
CMB15	0.18	0.36	Design
CMB16	0.18	0.36	Design
CMB17	0.18	0.36	Design

CONSIDERACIONES GEOMÉTRICAS

Dimensions	Unit	Value	Min. value	Max. value	Sta.	References
<u>Angular</u>						
Longitud	[cm]	12.00	7.95	15.90	✓	p. 10-8
<u>Angular (lado Viga)</u>						
Distancia vertical al borde	[cm]	3.50	1.90	--	✓	Tables J3.4, J3.5
Distancia horizontal al borde	[cm]	3.50	1.90	--	✓	Tables J3.4, J3.5
Separación vertical entre pernos	[cm]	5.00	3.39	13.44	✓	Sec. J3.3, Sec. J3.5
Espesor	[cm]	0.63	--	1.59	✓	p. 10-9
<u>Angular (lado Soporte)</u>						
Distancia vertical al borde	[cm]	3.50	1.90	--	✓	Tables J3.4, J3.5

Distancia horizontal al borde	[cm]	3.50	1.90	--	✓	Tables J3.4, J3.5
Separación vertical entre pernos	[cm]	5.00	3.39	13.44	✓	Sec. J3.3, Sec. J3.5
<u>Viga</u>						
Longitud de copado superior	[cm]	4.00	--	40.00	✓	
Profundidad del copado superior	[cm]	2.00	--	4.00	✓	
Longitud del copado inferior	[cm]	4.00	--	40.00	✓	
Profundidad del copado inferior	[cm]	2.00	--	4.00	✓	
Distancia vertical al borde	[cm]	5.50	1.90	--	✓	Tables J3.4, J3.5
Distancia horizontal al borde	[cm]	4.39	1.90	--	✓	Tables J3.4,

VERIFICACIÓN DE DISEÑO

Verification	Unit	Capacity	Demand	Ctrl EQ	Ratio	References
<u>Angular (lado Viga)</u>						
Corte en los pernos	[Ton]	14.40	2.42	CMB1	0.17	Tables (7-1..14)
Aplastamiento de pernos por corte	[Ton]	23.68	1.66	CMB1	0.07	Eq. J3-6
Corte a fluencia	[Ton]	23.14	1.66	CMB1	0.07	Eq. J4-3
Corte a rotura	[Ton]	20.57	1.66	CMB1	0.08	Eq. J4-4
Bloque de corte	[Ton]	22.81	1.66	CMB1	0.07	Eq. J4-5
Aplastamiento de pernos por axial	[Ton]	23.68	1.76	CMB1	0.07	Eq. J3-6
Bloque de corte por axial	[Ton]	23.38	1.76	CMB1	0.08	Eq. J4-5
Fluencia a tensión del lado del angular	[Ton]	34.72	1.76	CMB1	0.05	Eq. J4-1
Rotura a tensión del lado del angular	[Ton]	34.28	1.76	CMB1	0.05	Eq. J4-2
<u>Angular (lado Soporte)</u>						
Corte en los pernos	[Ton]	14.40	1.66	CMB1	0.12	Tables (7-1..14)
Aplastamiento de pernos por corte	[Ton]	23.68	1.66	CMB1	0.07	p. 7-18, Sec. J3.10
Corte a fluencia	[Ton]	23.14	1.66	CMB1	0.07	Eq. J4-3
Corte a rotura	[Ton]	20.57	1.66	CMB1	0.08	Eq. J4-4
Bloque de corte	[Ton]	22.81	1.66	CMB1	0.07	Eq. J4-5
Tracción resultante por fuerzas de palanca	[Ton]	2.86	1.76	CMB1	0.62	p. 9-11, p. 9-10
<u>Viga</u>						
Aplastamiento de pernos por corte	[Ton]	11.70	1.66	CMB1	0.14	Eq. J3-6
Corte a fluencia	[Ton]	18.90	1.66	CMB1	0.09	Eq. J4-3
Corte a rotura	[Ton]	14.77	1.66	CMB1	0.11	Eq. J4-4
Aplastamiento de pernos por axial	[Ton]	11.70	1.76	CMB1	0.15	Eq. J3-6
Bloque de corte por axial	[Ton]	14.33	1.76	CMB1	0.12	Eq. J4-5
Bloque de corte	[Ton]	16.20	1.66	CMB1	0.10	Eq. J4-5
Flexión en fluencia	[Ton]	15.12	1.66	CMB1	0.11	p. 9-6
Flexión a rotura	[Ton]	16.38	1.66	CMB1	0.10	p. 9-6
Pandeo local del alma	[Ton]	15.12	1.66	CMB1	0.11	p. 9-8, p. 9-7
<u>Soporte</u>						
Aplastamiento de pernos por corte	[Ton]	23.40	1.66	CMB1	0.07	Eq. J3-6
Relación de resistencia crítica global		0.62				

Steel connections

Results

Connection name : DA_BCF_L 3x3x1/4_2B3/4
Connection ID : 1V

Family: Viga - Ala de columna (BCF)
Type: Angle(s)
Description: IPE 200 A HEA 200
Código de diseño: AISC 360-10 LRFD

SOLICITACIONES

Descripción	Ru [Ton]	Pu [Ton]	Tipo de carga
D	0.21	0.00	Design
L	0.88	0.01	Design
SX	0.00	0.00	Design
SY	0.00	0.00	Design
CMB1	1.66	0.03	Design
CMB2	1.13	0.02	Design
CMB3	1.13	0.02	Design
CMB4	1.13	0.02	Design
CMB5	1.13	0.02	Design
CMB6	1.13	0.02	Design
CMB7	1.13	0.02	Design
CMB8	1.13	0.02	Design
CMB9	1.13	0.02	Design
CMB10	0.18	0.00	Design
CMB11	0.18	0.00	Design
CMB12	0.18	0.00	Design
CMB13	0.18	0.00	Design
CMB14	0.18	0.00	Design
CMB15	0.18	0.00	Design
CMB16	0.18	0.00	Design
CMB17	0.18	0.00	Design

CONSIDERACIONES GEOMÉTRICAS

Dimensions	Unit	Value	Min. value	Max. value	Sta.	References
<u>Angular</u>						
Longitud	[cm]	13.70	7.95	15.90	✓	p. 10-8
<u>Angular (lado Viga)</u>						
Distancia vertical al borde	[cm]	4.00	1.90	--	✓	Tables J3.4, J3.5
Distancia horizontal al borde	[cm]	4.00	1.90	--	✓	Tables J3.4, J3.5
Separación vertical entre pernos	[cm]	5.70	3.39	13.44	✓	Sec. J3.3, Sec. J3.5
Espesor	[cm]	0.63	--	1.59	✓	p. 10-9
<u>Angular (lado Soporte)</u>						
Distancia vertical al borde	[cm]	4.00	1.90	--	✓	Tables J3.4, J3.5

Distancia horizontal al borde	[cm]	4.00	1.90	--	✓	Tables J3.4, J3.5
Separación vertical entre pernos	[cm]	5.70	3.39	15.24	✓	Sec. J3.3, Sec. J3.5
<u>Viga</u>						
Distancia horizontal al borde	[cm]	3.89	1.90	--	✓	Tables J3.4, J3.5
<u>Soporte</u>						
Distancia horizontal al borde	[cm]	4.83	1.90	--	✓	Tables J3.4, J3.5

VERIFICACIÓN DE DISEÑO

Verification	Unit	Capacity	Demand	Ctrl EQ	Ratio	References
<u>Angular (lado Viga)</u>						
Corte en los pernos	[Ton]	14.40	1.66	CMB1	0.12	Tables (7-1..14)
Aplastamiento de pernos por corte	[Ton]	23.68	1.66	CMB1	0.07	Eq. J3-6
Corte a fluencia	[Ton]	26.42	1.66	CMB1	0.06	Eq. J4-3
Corte a rotura	[Ton]	24.53	1.66	CMB1	0.07	Eq. J4-4
Bloque de corte	[Ton]	26.48	1.66	CMB1	0.06	Eq. J4-5
Aplastamiento de pernos por axial	[Ton]	23.68	0.03	CMB1	0.00	Eq. J3-6
Bloque de corte por axial	[Ton]	27.55	0.03	CMB1	0.00	Eq. J4-5
Fluencia a tensión del lado del angular	[Ton]	39.63	0.03	CMB1	0.00	Eq. J4-1
Rotura a tensión del lado del angular	[Ton]	40.88	0.03	CMB1	0.00	Eq. J4-2
<u>Angular (lado Soporte)</u>						
Corte en los pernos	[Ton]	14.40	1.66	CMB1	0.12	Tables (7-1..14)
Aplastamiento de pernos por corte	[Ton]	23.68	1.66	CMB1	0.07	p. 7-18, Sec. J3.10
Corte a fluencia	[Ton]	26.42	1.66	CMB1	0.06	Eq. J4-3
Corte a rotura	[Ton]	24.53	1.66	CMB1	0.07	Eq. J4-4
Bloque de corte	[Ton]	26.48	1.66	CMB1	0.06	Eq. J4-5
Tracción resultante por fuerzas de palanca	[Ton]	3.75	0.03	CMB1	0.01	p. 9-11, p. 9-10
<u>Viga</u>						
Aplastamiento de pernos por corte	[Ton]	11.70	1.66	CMB1	0.14	Eq. J3-6
Corte a fluencia	[Ton]	23.62	1.66	CMB1	0.07	Eq. J4-3
Aplastamiento de pernos por axial	[Ton]	11.70	0.03	CMB1	0.00	Eq. J3-6
Bloque de corte por axial	[Ton]	14.79	0.03	CMB1	0.00	Eq. J4-5
<u>Soporte</u>						
Aplastamiento de pernos por corte	[Ton]	41.79	1.66	CMB1	0.04	Eq. J3-6
Relación de resistencia crítica global						
		0.14				

Current Date: 1/07/2017 3:48 p. m.

Units system: Metric

File name: F:\TRABAJO\GAL-18-490-DSB-CENTRO CRECER\490-MEMORIAS\CUBIERTA ENTRE EJES B Y C\CONEXIONES\CONEXIONES.cnx\

Steel connections

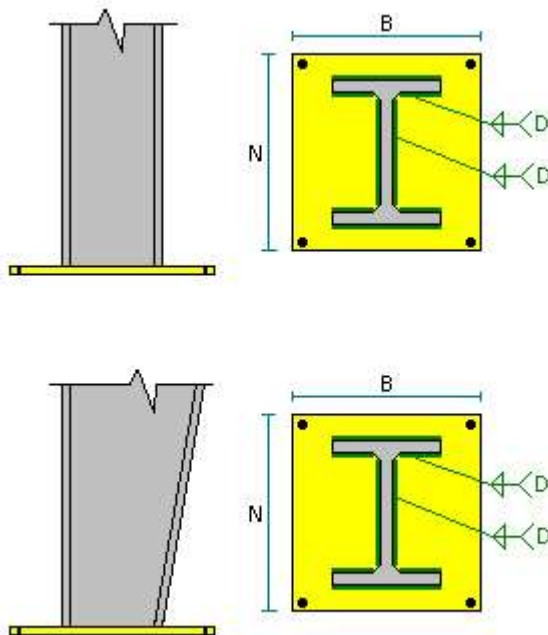
Data

Connection name : Pinned BP
Connection ID : 3

Family: Columna - Base (CB)
Type: Base plate
Description: HEA 200 A VIGA

DATOS GENERALES

Conector



MIEMBROS

Columna

Tipo de columna : Miembro prismático
Sección : EN_HE 200 A
Material : A992 Gr50
Excentricidad longitudinal : 0 cm

CONECTOR

Placa base

Tipo de conexión : No rigidizada
Posición respecto al apoyo : Centro
N: Dimensión longitudinal : 25 cm
B: Dimensión transversal : 25 cm
Espesor : 1.29 cm
Material : A36

Soldadura de la columna	:	E70XX
Solo soldadura exterior en las alas	:	No
D: Tamaño de soldadura a la columna (1/16 in)	:	5
Sobreescribir relación A2/A1	:	No
Incluir llave de corte	:	No
<u>Soporte</u>		
Con pedestal	:	No
Dimensión longitudinal	:	40 cm
Dimensión transversal	:	100 cm
Espesor	:	60 cm
Material	:	Concrete
Incluir lechada	:	No
<u>Ancla</u>		
Posición de las anclas	:	Posición longitudinal
Número de filas por lado	:	1
Número anclas por fila	:	2
Distancia longitudinal al borde de la placa	:	8 cm
Distancia transversal al borde de la placa	:	5 cm
Tipo de ancla	:	Gancho L
Incluir tuerca de seguridad	:	No
Ancla	:	1/2"
Profundidad efectiva de embebido	:	25 cm
Longitud total	:	27.97 cm
Material	:	F1554 Gr36
Fy	:	2.53 T/cm2
Fu	:	4.08 T/cm2
Concreto agrietado	:	No
Acero frágil	:	No
Anclas soldadas a la placa	:	No
<u>Refuerzo para ancla</u>		
Tipo de refuerzo	:	Primaria
Refuerzo para tensión	:	No
Refuerzo para corte	:	No

Current Date: 1/07/2017 3:48 p. m.

Units system: Metric

File name: F:\TRABAJO\GAL-18-490-DSB-CENTRO CRECER\490-MEMORIAS\CUBIERTA ENTRE EJES B Y C\CONEXIONES\CONEXIONES.cnx\

Steel connections

Results

Connection name : Pinned BP
Connection ID : 3

Family: Columna - Base (CB)
Type: Base plate
Description: HEA 200 A VIGA
Código de diseño: AISC 360-10 LRFD, ACI 318-08

SOLICITACIONES

Descripción	Pu [Ton]	Mu22 [Ton*m]	Mu33 [Ton*m]	Vu2 [Ton]	Vu3 [Ton]	Tipo de carga
D	0.40	0.00	0.00	0.00	0.00	Design
L	0.80	0.00	0.00	0.00	0.00	Design
SX	0.00	0.00	0.00	0.00	0.00	Design
SY	0.00	0.00	0.00	0.00	0.00	Design
CMB1	1.76	0.00	0.00	0.00	0.00	Design
CMB2	1.28	0.00	0.00	0.00	0.00	Design
CMB3	1.28	0.00	0.00	0.00	0.00	Design
CMB4	1.28	0.00	0.00	0.00	0.00	Design
CMB5	1.28	0.00	0.00	0.00	0.00	Design
CMB6	1.28	0.00	0.00	0.00	0.00	Design
CMB7	1.28	0.00	0.00	0.00	0.00	Design
CMB8	1.28	0.00	0.00	0.00	0.00	Design
CMB9	1.28	0.00	0.00	0.00	0.00	Design
CMB10	0.36	0.00	0.00	0.00	0.00	Design
CMB11	0.36	0.00	0.00	0.00	0.00	Design
CMB12	0.36	0.00	0.00	0.00	0.00	Design
CMB13	0.36	0.00	0.00	0.00	0.00	Design
CMB14	0.36	0.00	0.00	0.00	0.00	Design
CMB15	0.36	0.00	0.00	0.00	0.00	Design
CMB16	0.36	0.00	0.00	0.00	0.00	Design
CMB17	0.36	0.00	0.00	0.00	0.00	Design

Diseño en el eje mayor Placa base (AISC 360-10 LRFD)

CONSIDERACIONES GEOMÉTRICAS

Dimensions	Unit	Value	Min. value	Max. value	Sta.	References
<u>Placa base</u>						
Distancia del ancla al borde	[cm]	4.37	0.64	--	✓	
Tamaño de soldadura	[1/16in]	5	3	--	✓	table J2.4

VERIFICACIÓN DE DISEÑO

Verification	Unit	Capacity	Demand	Ctrl EQ	Ratio	References
<u>Base de concreto</u>						
Aplastamiento por axial	[kg/m2]	2486041.00	0.00	D	0.00	DG1 3.1.1;
<u>Placa base</u>						
Flexión en fluencia (interfaz de aplastamiento)	[Ton*m/m]	0.95	0.00	D	0.00	DG1 Eq. 3.3.13
Flexión en fluencia (interfaz de tensión)	[Ton*m/m]	0.95	0.22	CMB1	0.23	DG1 Eq. 3.3.13
<u>Columna</u>						
Resistencia de la soldadura	[Ton/m]	186.45	5.51	CMB1	0.03	p. 8-9, Sec. J2.5, Sec. J2.4, DG1 p. 35
Resistencia de la soldadura a corte método elástico	[Ton/m]	124.30	0.00	D	0.00	p. 8-9, Sec. J2.5, Sec. J2.4
Resistencia de la soldadura a axial método elástico	[Ton/m]	186.45	2.46	CMB1	0.01	p. 8-9, Sec. J2.5, Sec. J2.4
Relación	0.23					

**Eje mayor
Anclas**
CONSIDERACIONES GEOMÉTRICAS

Dimensions	Unit	Value	Min. value	Max. value	Sta.	References
<u>Anclas</u>						
Espaciamiento entre anclas	[cm]	9.00	5.08	--		Sec. D.8.1
Recubrimiento de concreto	[cm]	14.87	7.62	--		Sec. 7.7.1
Longitud efectiva	[cm]	26.27	--	58.73		

VERIFICACIÓN DE DISEÑO

Verification	Unit	Capacity	Demand	Ctrl EQ	Ratio	References
Tensión en anclas	[Ton]	2.80	0.44	CMB1	0.16	Eq. D-3
Arrancamiento de ancla en tensión	[Ton]	8.18	0.44	CMB1	0.05	Eq. D-4, Sec. D.4.1.1
Arrancamiento de grupo de anclas en tensión	[Ton]	9.81	1.76	CMB1	0.18	Eq. D-5, Sec. D.4.1.1
Extracción por deslizamiento de ancla en tensión	[Ton]	1.80	0.44	CMB1	0.24	Sec. D.4.1.1
Corte en el ancla	[Ton]	1.46	0.00	D	0.00	Eq. D-20, DG1 Sec 3.5.1
Arrancamiento de ancla a corte	[Ton]	6.32	0.00	D	0.00	Sec. D.4.1.1
Desprendimiento de ancla a corte	[Ton]	16.35	0.00	D	0.00	Eq. D-4, Sec. D.4.1.1
Desprendimiento de grupo de anclas a corte	[Ton]	19.62	0.00	D	0.00	Eq. D-5, Sec. D.4.1.1
Relación	0.24					

**Eje menor
Anclas**
CONSIDERACIONES GEOMÉTRICAS

Dimensions	Unit	Value	Min. value	Max. value	Sta.	References
<u>Anclas</u>						
Espaciamiento entre anclas	[cm]	9.00	5.08	--		Sec. D.8.1
Recubrimiento de concreto	[cm]	14.87	7.62	--		Sec. 7.7.1
Longitud efectiva	[cm]	26.27	--	58.73		

VERIFICACIÓN DE DISEÑO

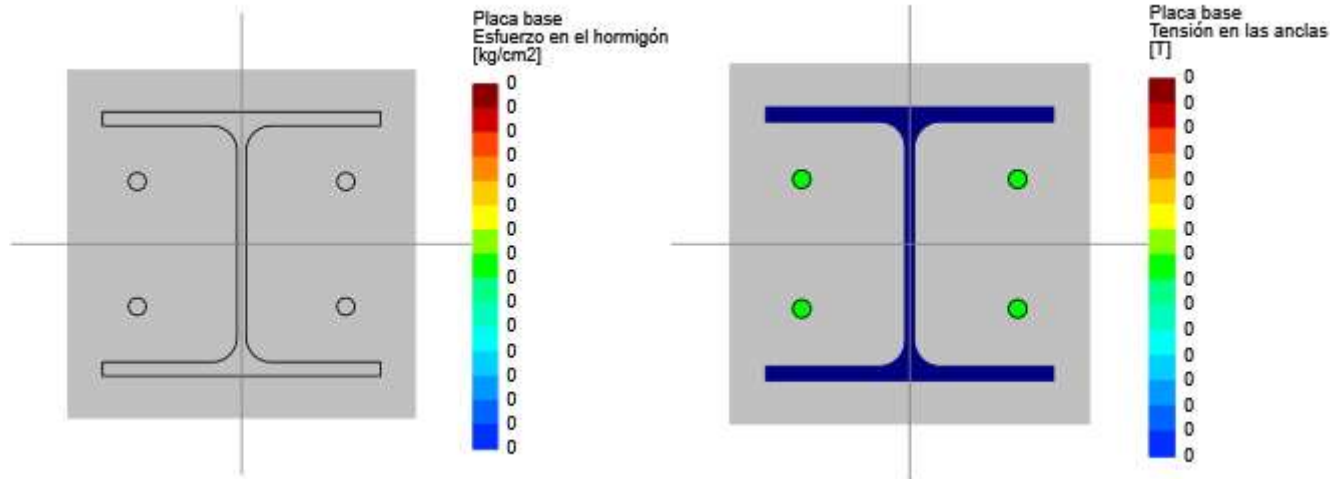
Verification	Unit	Capacity	Demand	Ctrl EQ	Ratio	References
Tensión en anclas	[Ton]	2.80	0.44	CMB1	0.16	DG1 3.1.1
Arrancamiento de ancla en tensión	[Ton]	8.18	0.44	CMB1	0.05	Eq. D-4, Sec. D.4.1.1
Arrancamiento de grupo de anclas en tensión	[Ton]	9.81	1.76	CMB1	0.18	Eq. D-5, Sec. D.4.1.1
Extracción por deslizamiento de ancla en tensión	[Ton]	1.80	0.44	CMB1	0.24	Sec. D.4.1.1
Corte en el ancla	[Ton]	1.46	0.00	D	0.00	Eq. D-20, DG1 Sec 3.5.1
Arrancamiento de ancla a corte	[Ton]	3.42	0.00	D	0.00	Sec. D.4.1.1
Desprendimiento de ancla a corte	[Ton]	16.35	0.00	D	0.00	Eq. D-4, Sec. D.4.1.1
Desprendimiento de grupo de anclas a corte	[Ton]	19.62	0.00	D	0.00	Eq. D-5, Sec. D.4.1.1
Relación		0.24				

Relación de resistencia crítica global

0.24

Eje mayor

Máxima compresión (SX)

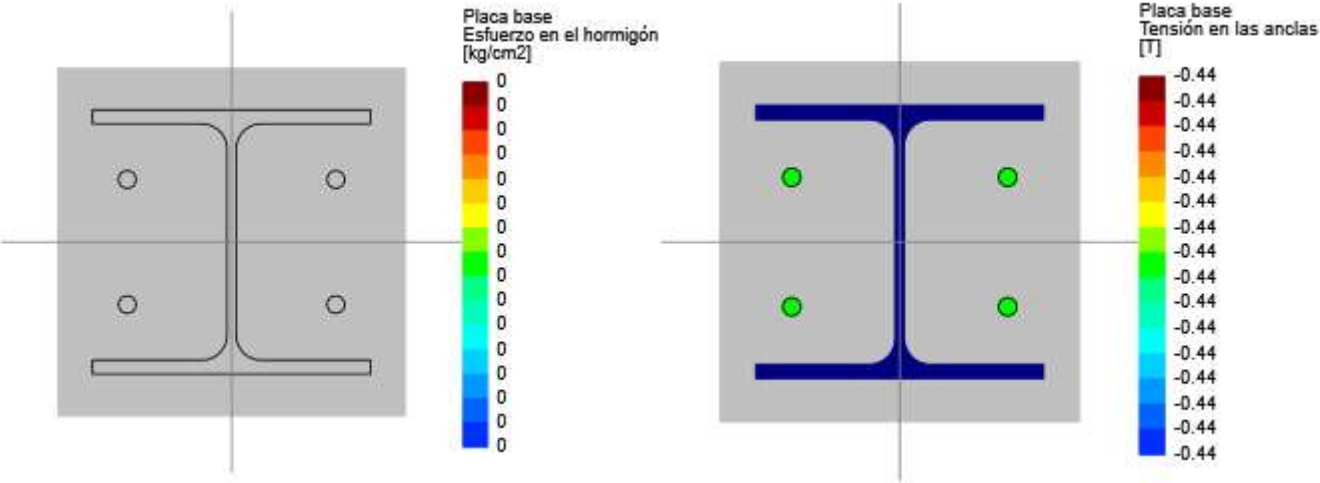


Máximo esfuerzo en el concreto	0.00	[kg/cm²]
Mínimo esfuerzo en el concreto	0.00	[kg/cm²]
Máxima tensión en las anclas	0.00	[Ton]
Mínima tensión en las anclas	0.00	[Ton]
Ángulo del eje neutro	0.00	
Longitud de aplastamiento	0.00	[cm]

Tensiones en anclas

Ancla	Transversal [cm]	Longitudinal [cm]	Corte [Ton]	Tensión [Ton]
1	-7.50	-4.50	0.00	0.00
2	-7.50	4.50	0.00	0.00
3	7.50	4.50	0.00	0.00
4	7.50	-4.50	0.00	0.00

Máxima tensión (CMB1)



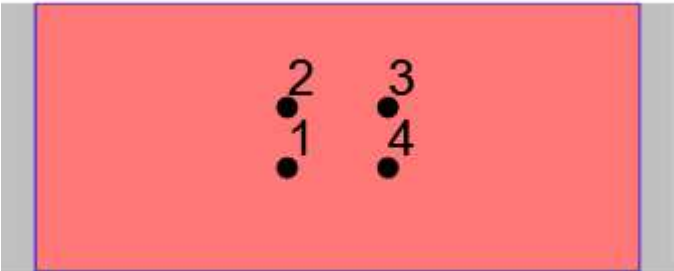
Máximo esfuerzo en el concreto	0.00	[kg/cm2]
Mínimo esfuerzo en el concreto	0.00	[kg/cm2]
Máxima tensión en las anclas	0.44	[Ton]
Mínima tensión en las anclas	0.44	[Ton]
Ángulo del eje neutro	0.00	
Longitud de aplastamiento	-1E32	[cm]

Tensiones en anclas

Ancla	Transversal [cm]	Longitudinal [cm]	Corte [Ton]	Tensión [Ton]
1	-7.50	-4.50	0.00	0.44
2	-7.50	4.50	0.00	0.44
3	7.50	4.50	0.00	0.44
4	7.50	-4.50	0.00	0.44

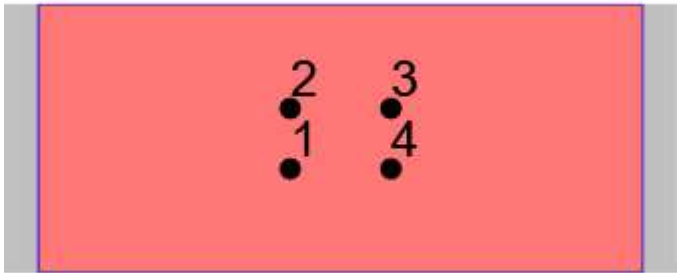
Eje mayor

Resultados para arrancamiento en tensión (CMB1)



Grupo	Área [cm2]	Tensión [Ton]	Anclas
1	3600.00	1.76	1, 2, 3, 4

Resultados para arrancamiento en tensión (CMB1)



Grupo	Área [cm2]	Tensión [Ton]	Anclas
1	3600.00	1.76	1, 2, 3, 4

CONEXIÓN SIMPLE VIGA METÁLICA A VIGA CONCRETO
TIPO ANGULO DOBLE

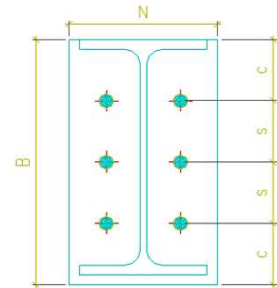
Archivo:
Fecha:
Hoja: 1 de 1
Version :

1. Solicitaciones:

V_u : 37387.12 (N)

Materiales

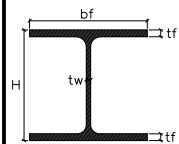
Viga	A36	$F_y =$	25.3 kg/mm ²	$F_u =$	40.2 kg/mm ²
Angulo	A-36	$F_y =$	25.3 kg/mm ²	$F_u =$	40.2 kg/mm ²
Pernos	A-325	$R_n =$	33.7 kg/mm ²		
Soldadura	E-70				



2. Geometría:

Vigas:

IPE200



H (mm):	200	Ix (cm⁴):	1940	Sx (cm³):	194
bf (mm):	100	Iy (cm⁴):	142	Zx (cm³):	209.7
tw (mm):	5.6				
tf (mm):	8.5				

3. ESFUERZO MAXIMO DE DISEÑO:

Pernos

Son (por fila): 1 $\phi = 1/2"$ Área = 127 mm²
Pernos a cortante: 2
Pernos aplastamiento: 2

ANGULOS

L3 1/2 x3 1/2 x1/4 L= 137.0 mm t= 6.4 mm

DISEÑO DE PERNOS

Cortante:	$\Sigma \phi P_v =$	62705.1 N	>	37387.12 N	ok
Aplastamiento en viga:	$\Sigma \phi P_p =$	38596.8 N	>	37387.12 N	ok
Fluencia a cortante en la viga:	$\Sigma \phi P_r =$	170016.0 N	>	37387.12 N	ok

DISEÑO DE ANGULOS

Distancia horizontal al borde:

C=	40	mm	S=	57	mm
Agv=	508	mm ²	Agt=	508	mm ²
Anv=	417	mm ²	Ant=	417	mm ²

Aplastamiento:	$\Sigma \phi P_p =$	116709.4 N	>	37387.12 N	ok
Fluencia a cortante:	$\Sigma \phi P_r =$	237705.1 N	>	37387.12 N	ok
Fractura a cortante:	$\Sigma \phi P_{fr} =$	281923.4 N	>	37387.12 N	ok
Bloque de cortante:	$\Sigma \phi P_b =$	171877.9 N	>	37387.12 N	ok

SOLDADURA DE LA VIGA A LA PLATINA

SOLDADURA = E70 XX d= 6 mm Fw= 935.361 N/mm
L₁ = 40 mm L soldadura 83 mm **ok**

OBSERVACIONES:

APROBO:
EJECUTO:

ANCLAJE IPE 200 MENSULA A CONCRETO

SOLICITACIONES:

V_u : 37387.12 N

MATERIALES:

Viga	A-36	$F_y = 25.49 \text{ kg/mm}^2$ 250008.87 kN/m ²	$F_u = 41.81 \text{ kg/mm}^2$ 410014.98 kN/m ²
Platina	A-36	$F_y = 25.49 \text{ kg/mm}^2$ 250008.87 kN/m ²	$F_u = 41.81 \text{ kg/mm}^2$ 410014.98 kN/m ²
Pernos	A-325	$R_n = 57.00 \text{ kg/mm}^2$ 558999.00 kN/m ²	
Soldadura	E-70XX		

GEOMETRÍA:

Vigas:

<div style="border: 1px solid black; padding: 2px; display: inline-block;">IPE200</div>	H (mm):	200.00	$I_x \text{ (mm}^4\text{):}$	19400000.0	$S_x \text{ (mm}^3\text{):}$	1940000.0
	$b_f \text{ (mm):}$	100.00	$I_y \text{ (mm}^4\text{):}$	1420000.0	$Z_x \text{ (mm}^3\text{):}$	2097000.0
	$t_w \text{ (mm):}$	5.60				
	$t_f \text{ (mm):}$	8.50				

ESFUERZO MAXIMO DE DISEÑO:

Pernos

Son: 3.00 $\phi = 1/2"$ Área = 126.68 mm²
Pernos a cortante: 4.00
Pernos aplastamiento: 4.00

Platina

N= 260.00 mm B= 350.00 mm t= 12.70 mm

DISEÑO DE PERNOS:

Cortante: $\Sigma \phi P_v = 125410.10 \text{ N}$ > 37387.12 N **OK**

DISEÑO DE PLATINA:

Distancia horizontal al borde:

C =	40.00 mm	S =	60.00 mm
$A_{gv} =$	2540.00 mm ²	$A_{gt} =$	1016.00 mm ²
$A_{nv} =$	1995.65 mm ²	$A_{nt} =$	834.55 mm ²

Aplastamiento:	$\Sigma \phi P_p = 48551.59 \text{ N}$	>	37387.12 N	OK
Fluencia a cortante:	$\Sigma \phi P_f = 61190.61 \text{ N}$	>	37387.12 N	OK
Fractura a cortante:	$\Sigma \phi P_{fr} = 71110.04 \text{ N}$	>	37387.12 N	OK
Bloque de cortante:	$\Sigma \phi P_b = 56971.24 \text{ N}$	>	37387.12 N	OK

SOLDADURA DE LA VIGA A LA PLATINA:


SOLDADURA = E70 XX d= 6.00 mm Fw= 42.19 kg/mm² = 413718.102 kN/m²


$L_1 = 47.34 \text{ mm}$ $L_{\text{soldadura}} = 100.00 \text{ mm}$ **OK**

CENTRO CRECER**Columna C-15**

Nivel Col/vig	H libre m	B m	H m	f'c MPa	M 3-3 ton*m	M 2-2 ton*m	P ton	Cuantía	Mn 3-3 ton*m	Mn 2-2 ton*m	Col/Vig 3-3	2-2
NE+3.20	3.10	.40	.40	28	2.51	-0.89	-79.47	8/#6 #5 (1.2%)	11.02	11.01		
					-2.14	2.46		8/#6 #5 (1.2%)	11.01	11.02		

CENTRO CRECER TANQUE DE ALMACENAMIENTO

	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA:	03/07/2018																					
	INGENIERO:	Iván M. Guevara R.	N.P :	P-18-490																					
1. ANÁLISIS SÍSMICO																									
1.1. DEFINICIÓN DE MOVIMIENTO SÍSMICO DEL DISEÑO																									
a.-	Ubicación del proyecto:	Carrera 88 No. 6A-36, Bogota D.C																							
b.-	Zona de amenaza sísmica:	Intermedia																							
c.-	Valor de A_a :	$A_a = 0.15$																							
d.-	Valor de A_v :	$A_v = 0.20$																							
e.-	Región:	R-4																							
f.-	Tipo de perfil de suelo:	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>F_a</th> <th>F_v</th> </tr> </thead> <tbody> <tr><td>A</td><td></td><td></td></tr> <tr><td>B</td><td></td><td></td></tr> <tr><td>C</td><td></td><td></td></tr> <tr><td>D</td><td></td><td></td></tr> <tr><td>E</td><td></td><td></td></tr> <tr><td>F</td><td>0.95</td><td>2.10</td></tr> </tbody> </table>				F_a	F_v	A			B			C			D			E			F	0.95	2.10
	F_a	F_v																							
A																									
B																									
C																									
D																									
E																									
F	0.95	2.10																							
g.-	Grupo de uso	III																							
h.-	Coefficiente de importancia:	$I = 1.25$																							
i.-	Coefficiente de amortig. crítico	C.C.A: 5%																							
j.-	Espectro de diseño:	Elástico																							
Observaciones:				Revisó: _____ Ejecutó: _____																					
1.2. CARACTERÍSTICAS DE LOS MATERIALES Y DE LA ESTRUCTURA																									
Estructuras que se salen del alcance del reglamento - Estructuras ambientales																									
a.-	Sistema estructural:	Estructura para Contención de Líquidos																							
b.-	Material:	Concreto																							
c.-	Capacidad de disipación de energía:	No Aplica																							
d.-	Coefficiente de capacidad básica de modificación de respuesta:	$R_o = 2.0$ (NSR-10, Tabla A-1.3-1)																							
e.-	Número de estructuras:	1																							
f.-	Número de niveles:	1																							
Observaciones:				Revisó: _____ Ejecutó: _____																					

	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA:
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490

2. GEOMETRÍA

Placa Inferior			
Espesor	Ancho	Longitud	Cant.
tpi= 0.30 m	B= 9.90 m	L= 7.05 m	x1
Placa Superior			
Espesor	Ancho	Longitud	
tps= 0.25 m	B= 9.90 m	L= 7.05 m	x1
Accesos: 0.25 m	1.20 m	1.20 m	-x1
Muros			
Espesor	Altura	Longitud	
tm= 0.30 m	H= 3.25 m	L= 32.70 m	x1
tm= 0.25 m	H= 3.25 m	L= 18.00 m	x1
tm= 0.25 m	H= 2.25 m	L= 3.90 m	x1
Agua			
Altura de lámina de agua	H=	2.50 m	

3. DATOS GEOTÉCNICOS

Pesos específico tierras: $\gamma = 2.00 \text{ T/m}^3$

Parámetros de empujes de tierras: $\phi = 30.00^\circ$

Coefficiente de empuje activo: $k_a = 0.333$

Coefficiente de empuje en reposo: $K_0 = 0.500$

Coefficiente de empuje activo dinámico:

$A_a = 0.15 \text{ g}$	$\phi = 30.00^\circ$
$K_h = 0.225$	$i = 0.00^\circ$
$K_v = 0.09$	$\delta = 15.00^\circ$
	$\beta = 0.00^\circ$

$$\theta = \arctan\left(\frac{K_h}{1 - K_v}\right)$$

$$\psi = \left[1 + \frac{\sin(\phi + \delta) \cdot \sin(\phi - \theta - i)}{\cos(\delta + \beta + \theta) \cdot \cos(i - \beta)} \right]^2$$

$$K_{AE} = \frac{\cos^2(\phi - \theta - \beta)}{\Psi \cos \theta \cdot \cos^2 \beta \cdot \cos(\delta + \beta + \theta)}$$

$$E_{AE} = \frac{1}{2} \gamma_{\text{Terreno}} H_1^2 (1 - K_v) K_{AE}$$

$\theta = 13.89^\circ$	$\cos(\delta + \beta + \theta) = 0.88$
$\phi + \delta = 45.00^\circ$	$\cos(i - \beta) = 1.00$
$\phi - \theta - i = 16.11^\circ$	$\cos^2(\phi - \theta - i) = 0.92$
$\delta + \beta + \theta = 28.89^\circ$	$\cos(\theta) = 0.97$
$i - \beta = 0.00^\circ$	$\cos^2(\beta) = 1.00$
$\sin(\phi + \delta) = 0.71$	$\Psi = 2.17$
$\sin(\phi - \theta - i) = 0.28$	

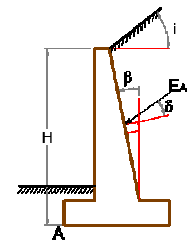
$$K_{AE} = 0.500$$


Capacidad portante del suelo: $\sigma_{Adm} = 41.00 \text{ T/m}^2$


Deformación admisible del suelo: $\delta_{Adm} = 1.00 \text{ cm}$

Módulo de reacción vertical del suelo: $K_v = 700.00 \text{ T/m}^3$

Altura del relleno: $H_s = 3.55 \text{ m}$



	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490

4. EVALUACIÓN DE CARGAS			
4.1. CARGAS LATERALES			
EMPUJE DE TIERRA (REPOSO)			
Altura del relleno =	3.55 m		
gamma_s HK_0 =	3.55 T/m^2	34.8 kN/m^2	
EMPUJE PRESIÓN HIDROSTÁTICA			
Altura de lámina de agua =	2.50 m		
gamma_w H =	2.50 T/m^2	24.5 kN/m^2	
EMPUJE DINÁMICO DE TIERRA			
Altura del relleno =	3.55 m		
Empuje activo: E_a =	2.37 T/m^2	23.2 kN/m^2	
Empuje activo dinámico: E_AE =	3.23 T/m^2	31.7 kN/m^2	
Sobre-presión dinámica: Delta E_AE =	0.87 T/m^2	8.5 kN/m^2	

4.2. CARGAS VERTICALES			
PESO PROPIO DE LA ESTRUCTURA			
W Placa Inf. =	50.25 T		
W Placa Sup. =	41.01 T		
W Muros =	116.88 T		
Presión en el terreno en Condición de Servicio:		Área de Contacto =	69.80 m^2
Placa Inf. =	0.72 T/m^2	7.1 kN/m^2	
Placa Sup. =	0.59 T/m^2	5.8 kN/m^2	
Muros =	1.67 T/m^2	16.4 kN/m^2	
Equipos =	0.10 T/m^2	1.0 kN/m^2	
Agua =	2.50 T/m^2	24.5 kN/m^2	
Carga Viva =	0.20 T/m^2	2.0 kN/m^2	
Presión Total:	5.78 T/m^2	56.7 kN/m^2	
Esfuerzo actuante sobre el suelo:		5.78 T/m^2	
Capacidad portante del suelo:		41.00 T/m^2	OK
Deformación del suelo:		0.83 cm	
Deformación admisible del suelo:		1.00 cm	OK

CÁLCULO DE FUERZAS HIDRODINÁMICAS

Normas de Diseño: ACI 350.3-06, AIS 180-13

Dirección de análisis: X

a) Materiales:

$$\begin{aligned} f'_c &= 28.0 \text{ MPa} & E_c &= 2487006.23 \text{ T/m}^2 \\ F_y &= 420.0 \text{ MPa} & \gamma_c &= 2.40 \text{ T/m}^3 \end{aligned}$$

b) Geometría de la estructura para contención del líquido:

Geometría: Rectangular

$$\begin{aligned} L &= 9.90 \text{ m} & H_L &= 2.50 \text{ m} & H_w &= 3.50 \text{ m} \\ B &= 7.05 \text{ m} & \gamma_L &= 1.00 \text{ T/m}^3 & t_w &= 0.25 \text{ m} \end{aligned}$$

c) Parámetros Sísmicos:
Localización: Carrera 88 No. 6A-36, Bogotá
Perfil de suelo: F

Grupo: III
 $I = 1.25$

$$\begin{aligned} A_a &= 0.15 & F_a &= 0.95 & T_c &= 1.277 \text{ s} \\ A_v &= 0.20 & F_v &= 2.10 & T_L &= 5.040 \text{ s} \end{aligned}$$

Factores de modificación: $R_i = 3.00$ $R_c = 1.00$
d) Presión hidrostática: $q_{hy} = 2.50 \text{ T/m}^2$

Presión hidrodinámica por efectos de la aceleración vertical::

$$\ddot{u}_v = 0.07 \quad p_{vy} = 0.18 \text{ T/m}^2$$

e) Cálculo del peso de los muros del depósito:

$$L_{\text{muros}} = 54.60 \text{ m} \quad W_w = 114.66 \text{ T} \quad W'_w = 4.23 \text{ T/m}$$

 Coef. de masa efectiva: $\epsilon = 0.502$
f) Cálculo de los pesos equivalentes de líquido acelerado:

 Peso del líquido: $W_L = 174.49 \text{ T}$

 Peso impulsivo (W_i) y altura de aplicación (h_i):

$$L/H_L = 3.96 \quad W_i = 50.77 \text{ T} \quad h_i = 0.94 \text{ m}$$

 Peso convectivo (W_c) y altura de aplicación (h_c):

$$H_L/L = 0.25 \quad W_c = 120.92 \text{ T} \quad h_c = 1.31 \text{ m}$$

g) Periodo y frecuencia de los pesos impulsivo y convectivo:

Periodo impulsivo: $m = 0.58 \text{ T-s}^2/\text{m}$ $C_w = \text{N/A}$
 $k = 5135.1 \text{ T/m}^2$ $C_i = \text{N/A}$
 $\omega_i = 94.00 \text{ rad/s}$ $T_i = 0.067 \text{ s}$

Periodo convectivo:
 $\lambda = 4.5332$ $\omega_c = 1.44 \text{ rad/s}$ $T_c = 4.361 \text{ s}$

h) Factores de amplificación espectral:

Aceleración espectral de la componente impulsiva: $C_i = S_{aim} = 0.4453$
Aceleración espectral de la componente convectiva: $C_c = S_{aco} = 0.2167$

i) Oleaje inducido por el sismo:

$\delta_s = 1.13 \text{ m}$, altura de la ola inducida por el sismo

j) Fuerzas laterales dinámicas:

Fuerza lateral de inercia de la aceleración muro: $P_w = 8.55 \text{ T}$
Fuerza lateral de inercia de un muro acelerado (\perp): $P'_w = 0.32 \text{ T}$
Fuerza lateral impulsiva total: $P_i = 7.54 \text{ T}$
Fuerza lateral convectiva total: $P_c = 26.20 \text{ T}$

k) Distribución vertical de las fuerzas dinámicas:

No. de muros equivalentes a la dirección de análisis: 5.0

Fuerza lateral de inercia debida a W_w : $P_{wy} = 0.315 \text{ T/m}$

Fuerza lateral impulsiva debido a W_i : $y = 2.50\text{m}$: $P_{iy} = 0.151 \text{ T/m}$
 $y = 0.00\text{m}$: $P_{iy} = 1.055 \text{ T/m}$

Fuerza lateral convectiva debido a W_c : $y = 2.50\text{m}$: $P_{cy} = 2.410 \text{ T/m}$
 $y = 0.00\text{m}$: $P_{cy} = 1.783 \text{ T/m}$

l) Distribución horizontal de las presiones dinámicas sobre el muro:

Nivel	y (m)	$p_{wy} \text{ (T/m}^2\text{)}$	$p_{iy} \text{ (T/m}^2\text{)}$	$p_{cy} \text{ (T/m}^2\text{)}$	$p_{vy} \text{ (T/m}^2\text{)}$	$p_y \text{ (T/m}^2\text{)}$
H_w	3.50	0.045				0.045
H_L	2.50	0.045	0.021	0.342	0.000	0.348
Fondo	0.00	0.045	0.150	0.253	0.178	0.365

CÁLCULO DE FUERZAS HIDRODINÁMICAS

Normas de Diseño: ACI 350.3-06, AIS 180-13

Dirección de análisis: Y

a) Materiales:

$$\begin{aligned} f'_c &= 28.0 \text{ MPa} & E_c &= 2487006.23 \text{ T/m}^2 \\ F_y &= 420.0 \text{ MPa} & \gamma_c &= 2.40 \text{ T/m}^3 \end{aligned}$$

b) Geometría de la estructura para contención del líquido:

Geometría: Rectangular

$$\begin{aligned} L &= 9.90 \text{ m} & H_L &= 2.50 \text{ m} & H_w &= 3.50 \text{ m} \\ B &= 7.05 \text{ m} & \gamma_L &= 1.00 \text{ T/m}^3 & t_w &= 0.25 \text{ m} \end{aligned}$$

c) Parámetros Sísmicos:

Localización: Carrera 88 No. 6A-36, Bogotá
Perfil de suelo: F

Grupo: III
I = 1.25

$$\begin{aligned} A_a &= 0.15 & F_a &= 0.95 & T_c &= 1.277 \text{ s} \\ A_v &= 0.20 & F_v &= 2.10 & T_L &= 5.040 \text{ s} \end{aligned}$$

Factores de modificación: $R_i = 3.00$ $R_c = 1.00$

d) Presión hidrostática: $q_{hy} = 2.50 \text{ T/m}^2$

Presión hidrodinámica por efectos de la aceleración vertical::

$$\ddot{u}_v = 0.07 \quad p_{vy} = 0.18 \text{ T/m}^2$$

e) Cálculo del peso de los muros del depósito:

$$L_{\text{muros}} = 54.60 \text{ m} \quad W_w = 114.66 \text{ T} \quad W'_w = 5.94 \text{ T/m}$$

Coef. de masa efectiva: $\epsilon = 0.603$

f) Cálculo de los pesos equivalentes de líquido acelerado:

Peso del líquido: $W_L = 174.49 \text{ T}$

Peso impulsivo (W_i) y altura de aplicación (h_i):

$$B/H_L = 2.82 \quad W_i = 70.38 \text{ T} \quad h_i = 0.94 \text{ m}$$

Peso convectivo (W_c) y altura de aplicación (h_c):

$$H_L/B = 0.35 \quad W_c = 104.93 \text{ T} \quad h_c = 1.37 \text{ m}$$

g) Periodo y frecuencia de los pesos impulsivo y convectivo:

Periodo impulsivo: $m = 0.58 \text{ T-s}^2/\text{m}$ $C_w = \text{N/A}$
 $k = 5104.5 \text{ T/m}^2$ $C_i = \text{N/A}$
 $\omega_i = 94.11 \text{ rad/s}$ $T_i = 0.067 \text{ s}$

Periodo convectivo:
 $\lambda = 5.0040$ $\omega_c = 1.88 \text{ rad/s}$ $T_c = 3.334 \text{ s}$

h) Factores de amplificación espectral:

Aceleración espectral de la componente impulsiva: $C_i = S_{aim} = 0.4453$
Aceleración espectral de la componente convectiva: $C_c = S_{aco} = 0.2835$

i) Oleaje inducido por el sismo:

$\delta_s = 1.05 \text{ m}$, altura de la ola inducida por el sismo

j) Fuerzas laterales dinámicas:

Fuerza lateral de inercia de la aceleración muro: $P_w = 10.26 \text{ T}$
Fuerza lateral de inercia de un muro acelerado (\perp): $P'_w = 0.53 \text{ T}$
Fuerza lateral impulsiva total: $P_i = 10.45 \text{ T}$
Fuerza lateral convectiva total: $P_c = 29.74 \text{ T}$

k) Distribución vertical de las fuerzas dinámicas:

No. de muros equivalentes a la dirección de análisis: 3.0


Fuerza lateral de inercia debida a W_w : $P_{wy} = 0.532 \text{ T/m}$


Fuerza lateral impulsiva debido a W_i : $y = 2.50\text{m}$: $P_{iy} = 0.348 \text{ T/m}$
 $y = 0.00\text{m}$: $P_{iy} = 2.438 \text{ T/m}$


Fuerza lateral convectiva debido a W_c : $y = 2.50\text{m}$: $P_{cy} = 5.072 \text{ T/m}$
 $y = 0.00\text{m}$: $P_{cy} = 2.859 \text{ T/m}$

l) Distribución horizontal de las presiones dinámicas sobre el muro:

Nivel	y (m)	$p_{wy} \text{ (T/m}^2\text{)}$	$p_{iy} \text{ (T/m}^2\text{)}$	$p_{cy} \text{ (T/m}^2\text{)}$	$p_{vy} \text{ (T/m}^2\text{)}$	$p_y \text{ (T/m}^2\text{)}$
H_w	3.50	0.054				0.054
H_L	2.50	0.054	0.035	0.512	0.000	0.520
Fondo	0.00	0.054	0.246	0.289	0.178	0.453

	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO					FECHA:
	INGENIERO:	Iván M. Guevara R.					N.P : P-18-490
5. COMBINACIONES DE CARGA PARA MUROS Y LOSAS							
COMBO 1:	1.4 C.M.			+ 1.4 PHNF	+ 1.6 EMP		
COMBO 2:	1.4 C.M.	+	1.4 PA	+ 1.4 PHNF	+ 0.9 EMP		
COMBO 3:	1.2 C.M.	+		+ 1.2 PHNF	+ 1.6 EMP	+ 1.6 C.V.	
COMBO 4:	1.2 C.M.	+	1.2 PA	+ 1.2 PHNF	+ 0.9 EMP	+ 1.6 C.V.	
COMBO 5:	1.2 C.M.	+		+ 1.2 PHNF	+ 1.6 EMP	+ 1.0 C.V.	
COMBO 6:	1.2 C.M.	+	1.2 PA	+ 1.2 PHNF	+ 0.9 EMP	+ 1.0 C.V.	
COMBO 7:	1.2 C.M.	+		+ 1.2 PHNF	+ 1.6 EMP	+ 1.0 C.V. + 1.0 SISMO X	
COMBO 8:	1.2 C.M.	+		+ 1.2 PHNF	+ 1.6 EMP	+ 1.0 C.V. + 1.0 SISMO Y	
COMBO 9:	1.2 C.M.	+	1.2 PA	+ 1.2 PHNF	+ 0.9 EMP	+ 1.0 C.V. + 1.0 SISMO X	
COMBO 10:	1.2 C.M.	+	1.2 PA	+ 1.2 PHNF	+ 0.9 EMP	+ 1.0 C.V. + 1.0 SISMO Y	
COMBO 11:	0.9 C.M.			+ 0.9 PHNF	+ 1.6 EMP		
COMBO 12:	0.9 C.M.	+	0.9 PA	+ 0.9 PHNF	+ 0.9 EMP		
COMBO 13:	0.9 C.M.	+		+ 0.9 PHNF	+ 1.6 EMP	+ 1.0 SISMO X	
COMBO 14:	0.9 C.M.	+		+ 0.9 PHNF	+ 1.6 EMP	+ 1.0 SISMO Y	
COMBO 15:	0.9 C.M.	+	0.9 PA	+ 0.9 PHNF	+ 0.9 EMP	+ 1.0 SISMO X	
COMBO 16:	0.9 C.M.	+	0.9 PA	+ 0.9 PHNF	+ 0.9 EMP	+ 1.0 SISMO Y	
COMBO 17:	1.4 C.M.	+	1.4 PA				
COMBO 18:	1.2 C.M.	+	1.2 PA	+		+ 1.6 C.V.	
COMBO 19:	1.0 C.M.	+	1.0 PA	+ 1.0 PHNF	+ 1.0 EMP	+ 0.7 SISMO X	
COMBO 20:	1.0 C.M.	+	1.0 PA	+ 1.0 PHNF	+ 1.0 EMP	+ 0.7 SISMO Y	
COMBO 21:	1.0 C.M.	+	1.0 PA	+ 1.0 PHNF	+ 1.0 EMP	+ 0.75 C.V. + 0.53 SISMO X	
COMBO 22:	1.0 C.M.	+	1.0 PA	+ 1.0 PHNF	+ 1.0 EMP	+ 0.75 C.V. + 0.53 SISMO Y	
EDISEÑO E:	COMBO 1 ; COMBO 2 ; COMBO 3 ; COMBO 4 ; COMBO 5 ; COMBO 6 ; COMBO 11 ; COMBO 12 ; COMBO 17 ; COMBO 18						
ESERVICIO E:	1.0 C.M. + 1.0 PA + 1.0 PHNF + 1.0 EMP + 1.0 C.V.						
EDISEÑO S:	COMBO 7 ; COMBO 8 ; COMBO 9 ; COMBO 10 ; COMBO 13 ; COMBO 14 ; COMBO 15 ; COMBO 16						
ESERVICIO S:	COMB 19 ; COMB 20 ; COMB 21 ; COMB 22						
C.M.	= Carga Muerta						
PA	= Presión hidrostática y peso de agua						
PHNF	= Presión hidrostática de nivel freático						
EMP	= Empuje lateral de tierra						
C.V.	= Carga viva						
SISMO	= Empuje dinámico de Tierras; Carga sísmica por Peso Propio; y fuerzas Hidrodinámicas						
EDISEÑO E	= Envoltente diseño SIN SISMO						
ESERVICIO E	= Envoltente de servicio SIN SISMO						
EDISEÑO S	= Envoltente diseño CON SISMO						
ESERVICIO S	= Envoltente de servicio CON SISMO						

	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490
6. DISEÑO ESTRUCTURAL			
6.1. REFUERZO PLACA INFERIOR e=0.30m			
h = 30 cm b = 100 cm d = 22.5 cm	fy = 4200 kg/cm ² f'c = 280 kg/cm ² Condición Ambiental: normal	Es = 2039400.00 kg/cm ² Ec = 252671.33 kg/cm ² n = 8	
<u>CORTANTE V13</u> $\phi V_c = 16.96$ ton $V_u = 7.11$ ton cumple		<u>CORTANTE V23</u> $\phi V_c = 16.96$ ton $V_u = 7.01$ ton cumple	
<u>MOMENTO (+) M11</u> Cargas Estáticas: $M_u = 2.28$ T-m $M_s = 1.82$ T-m coef. durab. $s_d = 2.16$ Cargas de Sismo: $M_u = 2.87$ T-m $M_s = 1.85$ T-m Resistencia Requerida: $M_n = 5.46$ T-m Por lo tanto: $\rho = 0.002921$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 6.57$ cm ² /m		<u>MOMENTO (+) M22</u> Cargas Estáticas: $M_u = 1.67$ T-m $M_s = 0.60$ T-m coef. durab. $s_d = 1.00$ Cargas de Sismo: $M_u = 1.71$ T-m $M_s = 1.11$ T-m Resistencia Requerida: $M_n = 1.90$ T-m Por lo tanto: $\rho = 0.001001$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 4.50$ cm ² /m	
Varilla = # 5 Área varilla = 1.99 cm ² Sep. Varilla = 20 cm $A_{ssuministrado} = 9.95$ cm ² /m		Varilla = # 5 Área varilla = 1.99 cm ² Sep. Varilla = 20 cm $A_{ssuministrado} = 9.95$ cm ² /m	
<u>Chequeo a flexión servicio MOMENTO (+) M11</u> $M_s = 1.85$ T-m $A_s = 9.95$ cm ² /m $\rho = 0.004422$ $k = 0.23$ $j = 0.92$ $j d = 20.75$ cm $f_s = 896.22$ kg/cm ² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1826.57$ kg/cm ² cumple		<u>Chequeo a flexión servicio MOMENTO (+) M22</u> $M_s = 1.11$ T-m $A_s = 9.95$ cm ² /m $\rho = 0.004422$ $k = 0.23$ $j = 0.92$ $j d = 20.75$ cm $f_s = 537.73$ kg/cm ² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1826.57$ kg/cm ² cumple	
SE COLOCARÁ REFUERZO #5 C/ 20cm		SE COLOCARÁ REFUERZO #5 C/ 20cm	

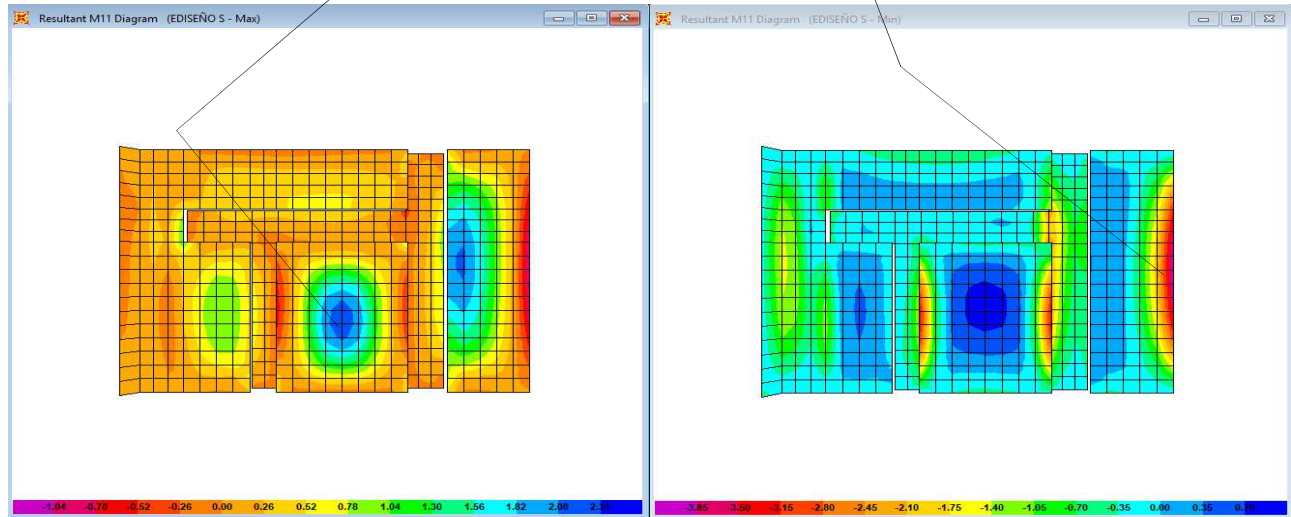
	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490

<u>MOMENTO (-) M11</u>				<u>MOMENTO (-) M22</u>																			
Cargas Estáticas:	Mu =	2.85	T-m	Cargas Estáticas:	Mu =	2.28	T-m																
	Ms =	1.94	T-m		Ms =	2.40	T-m																
coef. durab.	s _d =	1.84		coef. durab.	s _d =	2.84																	
Cargas de Sismo:	Mu =	-3.33	T-m	Cargas de Sismo:	Mu =	-2.72	T-m																
	Ms =	2.00	T-m		Ms =	1.97	T-m																
Resistencia Requerida:	Mn =	5.82	T-m	Resistencia Requerida:	Mn =	7.20	T-m																
Por lo tanto:	ρ =	0.003119		Por lo tanto:	ρ =	0.003883																	
	ρ _{min} =	0.001500			ρ _{min} =	0.001500																	
	AS _{REQUERIDO} =	7.02	cm ² /m		AS _{REQUERIDO} =	8.74	cm ² /m																
Varilla = # 5 Área varilla= 1.99 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 9.95 cm ² /m				Varilla = # 5 Área varilla= 1.99 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 9.95 cm ² /m																			
<u>Chequeo a flexión servicio MOMENTO (-) M11</u> Ms = 2.00 T-m As = 9.95 cm ² /m ρ = 0.004422 k = 0.23 j = 0.92 jd = 20.75 cm fs = 968.88 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1826.57 kg/cm ² cumple				<u>Chequeo a flexión servicio MOMENTO (-) M22</u> Ms = 2.40 T-m As = 9.95 cm ² /m ρ = 0.004422 k = 0.23 j = 0.92 jd = 20.75 cm fs = 1162.66 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1826.57 kg/cm ² cumple																			
SE COLOCARÁ REFUERZO #5 C/ 20cm				SE COLOCARÁ REFUERZO #5 C/ 20cm																			
<u>MOMENTO DE AGRIETAMIENTO POR FLEXIÓN</u>																							
fr =	33.47	kg/cm ²		<table><tr><td>Carga</td><td>AS_{suministrado} cm²/m</td><td>></td><td>AS_{cr} ?</td></tr><tr><td>M11(+)</td><td>9.95</td><td>cumple</td></tr><tr><td>M11(-)</td><td>9.95</td><td>cumple</td></tr><tr><td>M22(+)</td><td>9.95</td><td>cumple</td></tr><tr><td>M22(-)</td><td>9.95</td><td>cumple</td></tr></table>				Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?	M11(+)	9.95	cumple	M11(-)	9.95	cumple	M22(+)	9.95	cumple	M22(-)	9.95	cumple
Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?																				
M11(+)	9.95	cumple																					
M11(-)	9.95	cumple																					
M22(+)	9.95	cumple																					
M22(-)	9.95	cumple																					
yt =	15.00	cm																					
Ig =	225000.00	cm ⁴																					
Mcr =	5.02	T-m																					
ρ _{cr} =	0.002681																						
AS _{cr} =	6.03	cm ² /m																					

M11

Mu= 2.87 Ton.m
Ms= 1.85 Ton.m

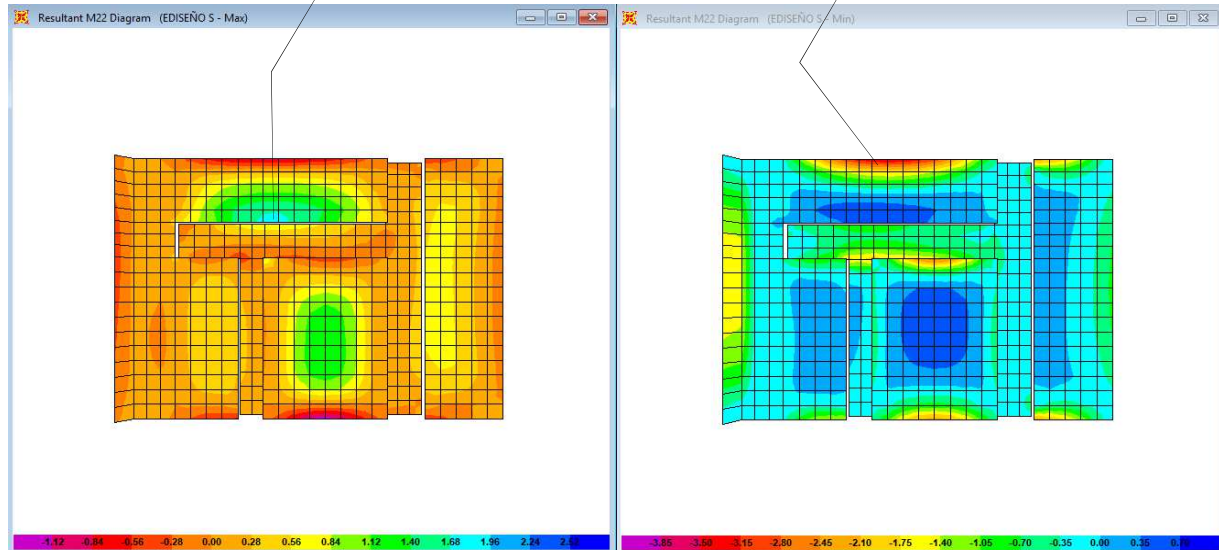
Mu= -3.33 Ton.m
Ms= -2.00 Ton.m



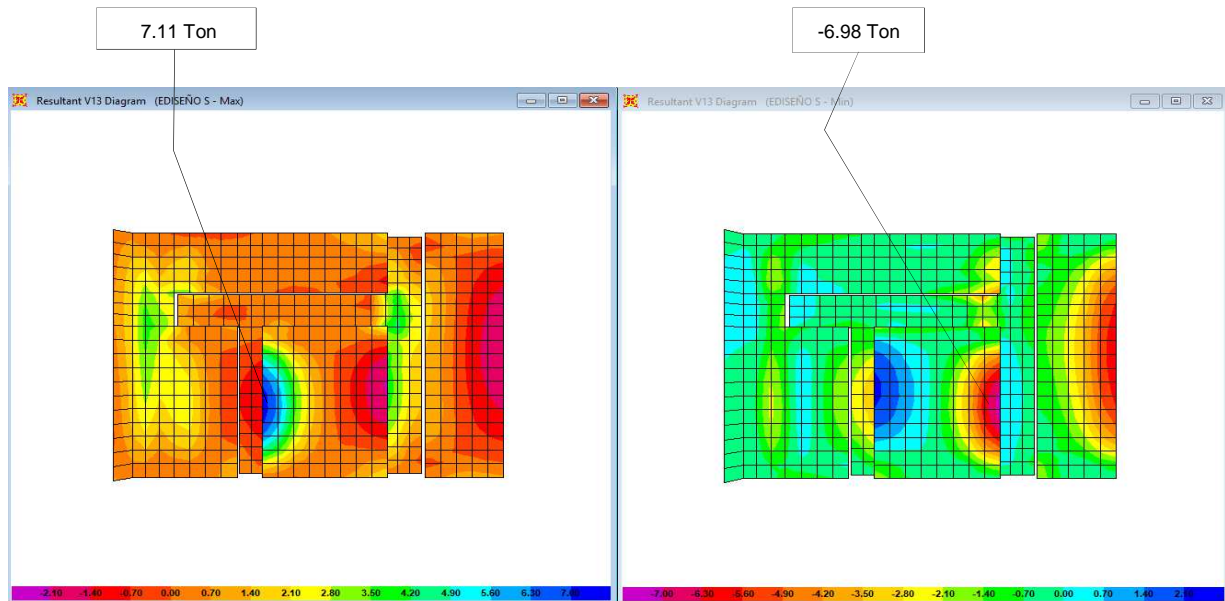
M22

Mu= 1.71 Ton.m
Ms= 1.11 Ton.m

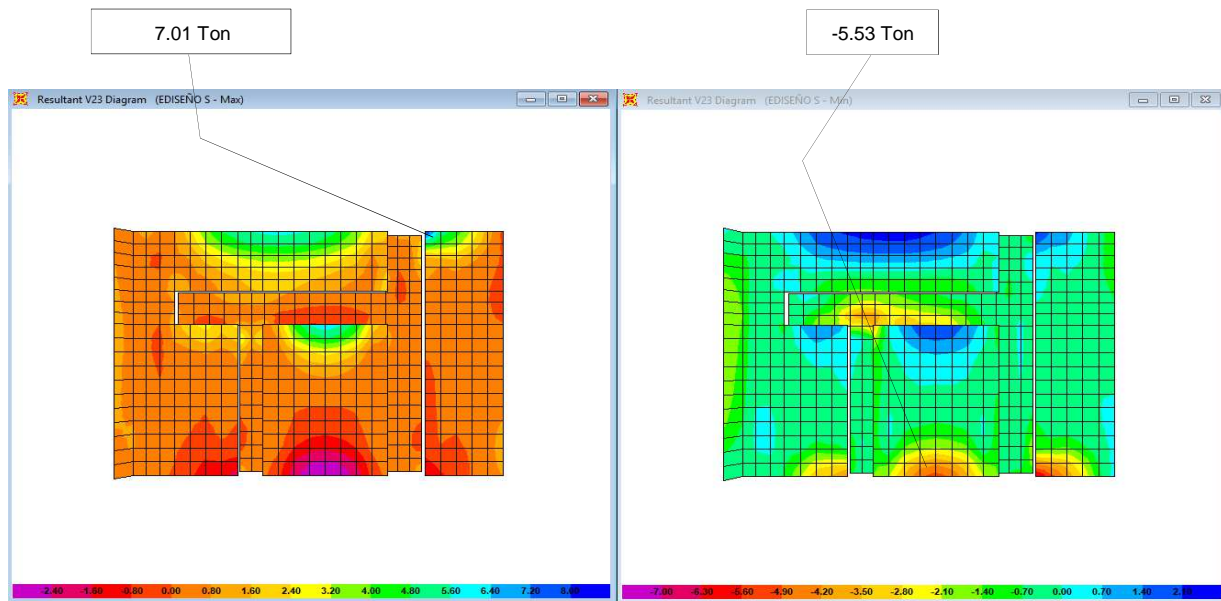
Mu= -2.72 Ton.m
Ms= -1.97 Ton.m





V13



V23



	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490
6. DISEÑO ESTRUCTURAL			
6.2. REFUERZO PLACA SUPERIOR e=0.25m			
h = 25 cm b = 100 cm d = 20.0 cm	fy = 4200 kg/cm² f'c = 280 kg/cm² Condición Ambiental: normal	Es = 2039400.00 kg/cm² Ec = 252671.33 kg/cm² n = 8	
<u>CORTANTE V13</u> $\phi V_c = 15.08$ ton $V_u = 2.21$ ton cumple		<u>CORTANTE V23</u> $\phi V_c = 15.08$ ton $V_u = 2.20$ ton cumple	
<u>MOMENTO (+) M11</u> Cargas Estáticas: $M_u = 0.86$ T-m $M_s = 0.43$ T-m coef. durab. $s_d = 1.35$ Cargas de Sismo: $M_u = 0.53$ T-m $M_s = 0.36$ T-m Resistencia Requerida: $M_n = 1.29$ T-m Por lo tanto: $\rho = 0.000859$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 4.00$ cm²/m		<u>MOMENTO (+) M22</u> Cargas Estáticas: $M_u = 0.65$ T-m $M_s = 0.35$ T-m coef. durab. $s_d = 1.45$ Cargas de Sismo: $M_u = 0.39$ T-m $M_s = 0.29$ T-m Resistencia Requerida: $M_n = 1.05$ T-m Por lo tanto: $\rho = 0.000698$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 4.00$ cm²/m	
Varilla = # 4 Área varilla = 1.29 cm² Sep. Varilla = 20 cm $A_{ssuministrado} = 6.45$ cm²/m		Varilla = # 4 Área varilla = 1.29 cm² Sep. Varilla = 20 cm $A_{ssuministrado} = 6.45$ cm²/m	
<u>Chequeo a flexión servicio MOMENTO (+) M11</u> $M_s = 0.43$ T-m $A_s = 6.45$ cm²/m $\rho = 0.003225$ $k = 0.20$ $j = 0.93$ $j d = 18.64$ cm $f_s = 357.60$ kg/cm² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1839.21$ kg/cm² cumple		<u>Chequeo a flexión servicio MOMENTO (+) M22</u> $M_s = 0.35$ T-m $A_s = 6.45$ cm²/m $\rho = 0.003225$ $k = 0.20$ $j = 0.93$ $j d = 18.64$ cm $f_s = 291.07$ kg/cm² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1839.21$ kg/cm² cumple	
SE COLOCARÁ REFUERZO #4 C/ 20cm		SE COLOCARÁ REFUERZO #4 C/ 20cm	

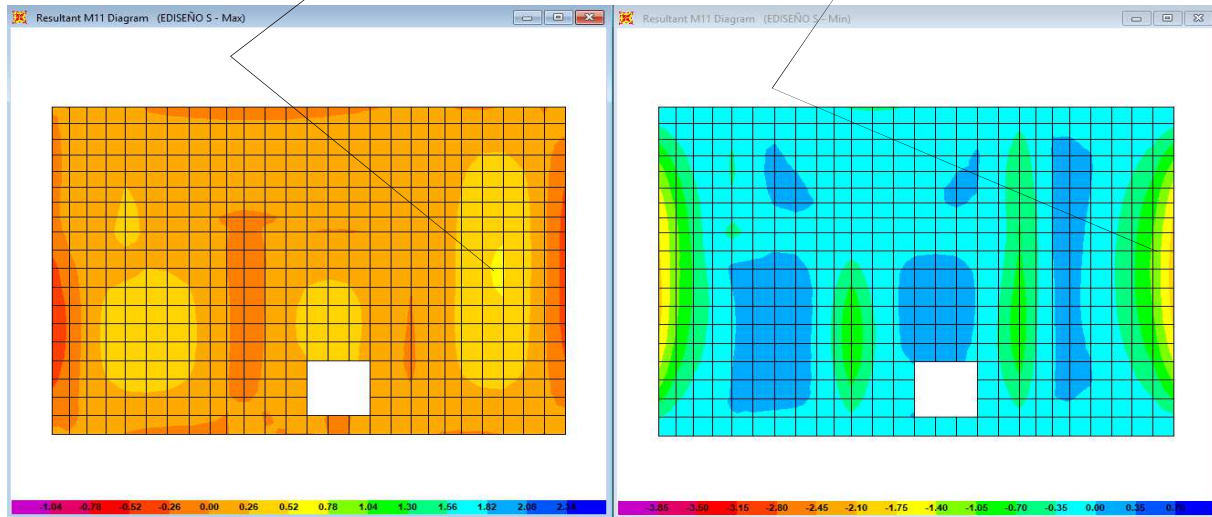
	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490

<u>MOMENTO (-) M11</u>				<u>MOMENTO (-) M22</u>																			
Cargas Estáticas:	Mu =	1.23	T-m	Cargas Estáticas:	Mu =	1.21	T-m																
	Ms =	0.80	T-m		Ms =	0.60	T-m																
coef. durab.	s _d =	1.76		coef. durab.	s _d =	1.34																	
Cargas de Sismo:	Mu =	-1.63	T-m	Cargas de Sismo:	Mu =	-1.45	T-m																
	Ms =	0.79	T-m		Ms =	0.72	T-m																
Resistencia Requerida:	Mn =	2.40	T-m	Resistencia Requerida:	Mn =	1.80	T-m																
Por lo tanto:	ρ =	0.001608		Por lo tanto:	ρ =	0.001202																	
	ρ _{min} =	0.001500			ρ _{min} =	0.001500																	
	AS _{REQUERIDO} =	4.00	cm ² /m		AS _{REQUERIDO} =	4.00	cm ² /m																
Varilla = # 4 Área varilla= 1.29 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 6.45 cm ² /m				Varilla = # 4 Área varilla= 1.29 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 6.45 cm ² /m																			
<u>Chequeo a flexión servicio MOMENTO (-) M11</u> Ms = 0.80 T-m As = 6.45 cm ² /m ρ = 0.003225 k = 0.20 j = 0.93 jd = 18.64 cm fs = 665.31 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1839.21 kg/cm ² cumple				<u>Chequeo a flexión servicio MOMENTO (-) M22</u> Ms = 0.72 T-m As = 6.45 cm ² /m ρ = 0.003225 k = 0.20 j = 0.93 jd = 18.64 cm fs = 598.78 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1839.21 kg/cm ² cumple																			
SE COLOCARÁ REFUERZO #4 C/ 20cm				SE COLOCARÁ REFUERZO #4 C/ 20cm																			
<u>MOMENTO DE AGRIETAMIENTO POR FLEXIÓN</u>																							
fr =	33.47	kg/cm ²		<table><tr><td>Carga</td><td>AS_{suministrado} cm²/m</td><td>></td><td>AS_{cr} ?</td></tr><tr><td>M11(+)</td><td>6.45</td><td>cumple</td></tr><tr><td>M11(-)</td><td>6.45</td><td>cumple</td></tr><tr><td>M22(+)</td><td>6.45</td><td>cumple</td></tr><tr><td>M22(-)</td><td>6.45</td><td>cumple</td></tr></table>				Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?	M11(+)	6.45	cumple	M11(-)	6.45	cumple	M22(+)	6.45	cumple	M22(-)	6.45	cumple
Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?																				
M11(+)	6.45	cumple																					
M11(-)	6.45	cumple																					
M22(+)	6.45	cumple																					
M22(-)	6.45	cumple																					
yt =	12.50	cm																					
Ig =	130208.33	cm ⁴																					
Mcr =	3.49	T-m																					
ρ _{cr} =	0.002350																						
AS _{cr} =	4.70	cm ² /m																					

M11

Mu= 0.53 Ton.m
Ms= 0.36 Ton.m

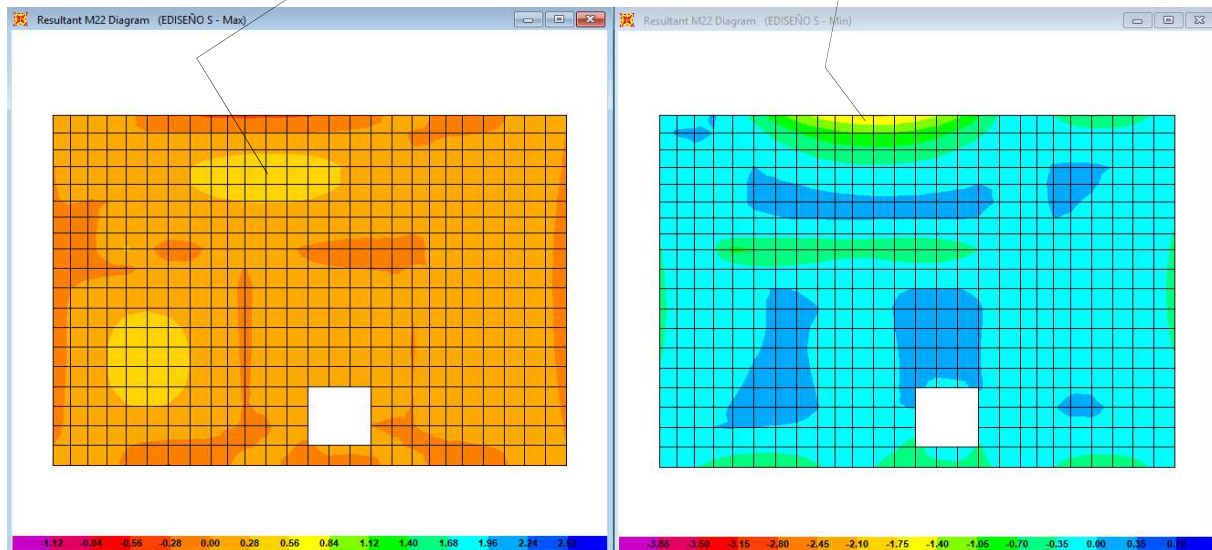
Mu= -1.63 Ton.m
Ms= -0.79 Ton.m



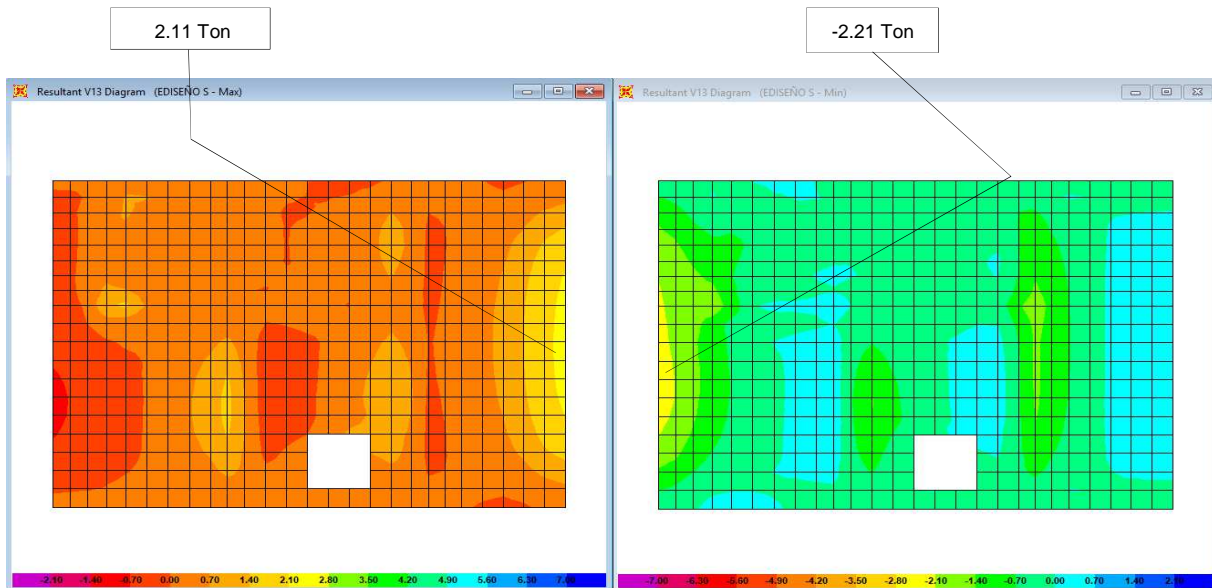
M22

Mu= 0.39 Ton.m
Ms= 0.29 Ton.m

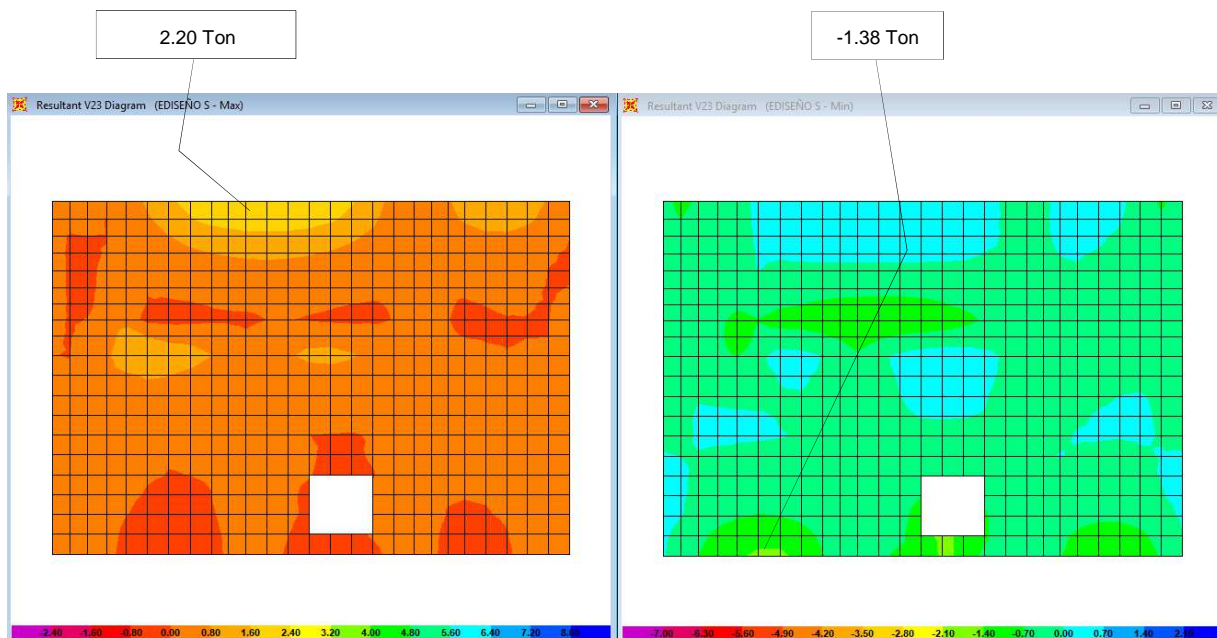
Mu= -1.45 Ton.m
Ms= -0.72 Ton.m





V13



V23



	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490
6. DISEÑO ESTRUCTURAL			
6.3. REFUERZO MUROS EXTERNOS e=0.25m			
h = 30 cm b = 100 cm d = 22.5 cm	fy = 4200 kg/cm² f'c = 280 kg/cm² Condición Ambiental: normal	Es = 2039400.00 kg/cm² Ec = 252671.33 kg/cm² n = 8	
<u>CORTANTE V13</u> $\phi V_c = 16.96$ ton $V_u = 4.31$ ton cumple		<u>CORTANTE V23</u> $\phi V_c = 16.96$ ton $V_u = 7.05$ ton cumple	
<u>MOMENTO (+) M11</u> Cargas Estáticas: $M_u = 0.90$ T-m $M_s = 0.14$ T-m coef. durab. $s_d = 1.00$ Cargas de Sismo: $M_u = 1.25$ T-m $M_s = 0.45$ T-m Resistencia Requerida: $M_n = 1.39$ T-m Por lo tanto: $\rho = 0.000730$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 4.50$ cm²/m		<u>MOMENTO (+) M22</u> Cargas Estáticas: $M_u = 1.89$ T-m $M_s = 0.40$ T-m coef. durab. $s_d = 1.00$ Cargas de Sismo: $M_u = 2.65$ T-m $M_s = 1.00$ T-m Resistencia Requerida: $M_n = 2.94$ T-m Por lo tanto: $\rho = 0.001558$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 4.50$ cm²/m	
Varilla = # 4 Área varilla = 1.29 cm² Sep. Varilla = 20 cm $A_{ssuministrado} = 6.45$ cm²/m		Varilla = # 4 Área varilla = 1.29 cm² Sep. Varilla = 20 cm $A_{ssuministrado} = 6.45$ cm²/m	
<u>Chequeo a flexión servicio MOMENTO (+) M11</u> $M_s = 0.45$ T-m $A_s = 6.45$ cm²/m $\rho = 0.002867$ $k = 0.19$ $j = 0.94$ $j d = 21.05$ cm $f_s = 331.42$ kg/cm² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1839.21$ kg/cm² cumple		<u>Chequeo a flexión servicio MOMENTO (+) M22</u> $M_s = 1.00$ T-m $A_s = 6.45$ cm²/m $\rho = 0.002867$ $k = 0.19$ $j = 0.94$ $j d = 21.05$ cm $f_s = 736.50$ kg/cm² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1839.21$ kg/cm² cumple	
SE COLOCARÁ REFUERZO #4 C/ 20cm		SE COLOCARÁ REFUERZO #4 C/ 20cm	

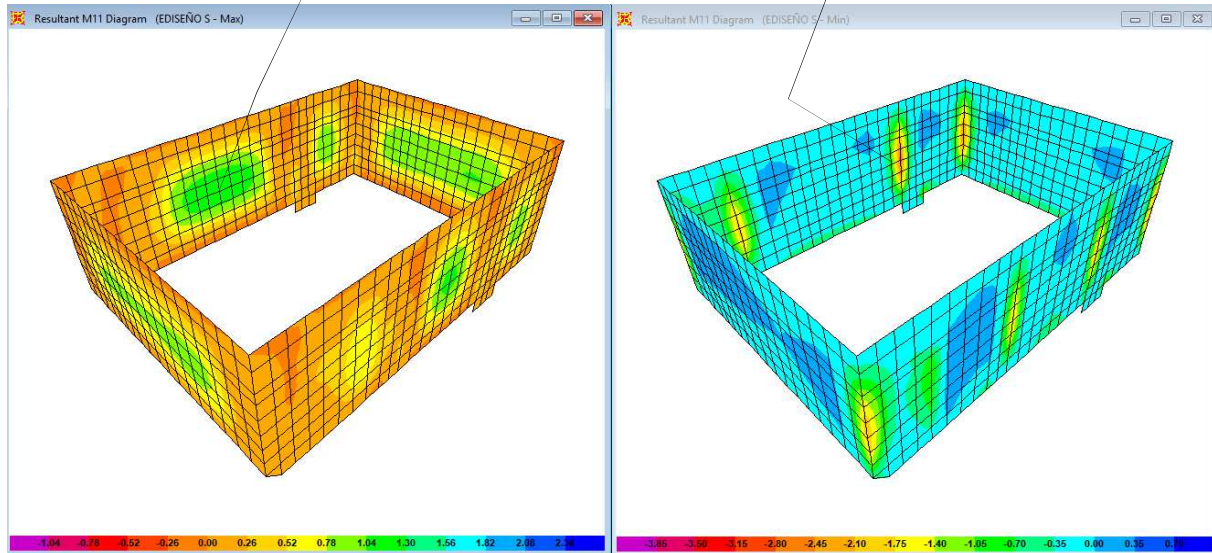
	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490

<u>MOMENTO (-) M11</u>				<u>MOMENTO (-) M22</u>																			
Cargas Estáticas:	Mu =	1.48	T-m	Cargas Estáticas:	Mu =	2.45	T-m																
	Ms =	0.16	T-m		Ms =	1.12	T-m																
coef. durab.	s _d =	1.00		coef. durab.	s _d =	1.23																	
Cargas de Sismo:	Mu =	-2.57	T-m	Cargas de Sismo:	Mu =	-2.94	T-m																
	Ms =	1.07	T-m		Ms =	1.41	T-m																
Resistencia Requerida:	Mn =	2.86	T-m	Resistencia Requerida:	Mn =	3.36	T-m																
Por lo tanto:	ρ =	0.001510		Por lo tanto:	ρ =	0.001781																	
	ρ _{min} =	0.001500			ρ _{min} =	0.001500																	
	AS _{REQUERIDO} =	4.50	cm ² /m		AS _{REQUERIDO} =	4.50	cm ² /m																
Varilla = # 4 Área varilla= 1.29 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 6.45 cm ² /m				Varilla = # 5 Área varilla= 1.99 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 9.95 cm ² /m																			
<u>Chequeo a flexión servicio MOMENTO (-) M11</u> Ms = 1.07 T-m As = 6.45 cm ² /m ρ = 0.002867 k = 0.19 j = 0.94 jd = 21.05 cm fs = 788.05 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1839.21 kg/cm ² cumple				<u>Chequeo a flexión servicio MOMENTO (-) M22</u> Ms = 1.41 T-m As = 9.95 cm ² /m ρ = 0.004422 k = 0.23 j = 0.92 jd = 20.75 cm fs = 683.06 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1826.57 kg/cm ² cumple																			
SE COLOCARÁ REFUERZO #4 C/ 20cm				SE COLOCARÁ REFUERZO #5 C/ 20cm																			
<u>MOMENTO DE AGRIETAMIENTO POR FLEXIÓN</u>																							
fr =	33.47	kg/cm ²		<table><tr><td>Carga</td><td>AS_{suministrado} cm²/m</td><td>></td><td>AS_{cr} ?</td></tr><tr><td>M11(+)</td><td>6.45</td><td>cumple</td></tr><tr><td>M11(-)</td><td>6.45</td><td>cumple</td></tr><tr><td>M22(+)</td><td>6.45</td><td>cumple</td></tr><tr><td>M22(-)</td><td>9.95</td><td>cumple</td></tr></table>				Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?	M11(+)	6.45	cumple	M11(-)	6.45	cumple	M22(+)	6.45	cumple	M22(-)	9.95	cumple
Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?																				
M11(+)	6.45	cumple																					
M11(-)	6.45	cumple																					
M22(+)	6.45	cumple																					
M22(-)	9.95	cumple																					
yt =	15.00	cm																					
Ig =	225000.00	cm ⁴																					
Mcr =	5.02	T-m																					
ρ _{cr} =	0.002681																						
AS _{cr} =	6.03	cm ² /m																					

M11

Mu= 1.25 Ton.m
Ms= 0.45 Ton.m

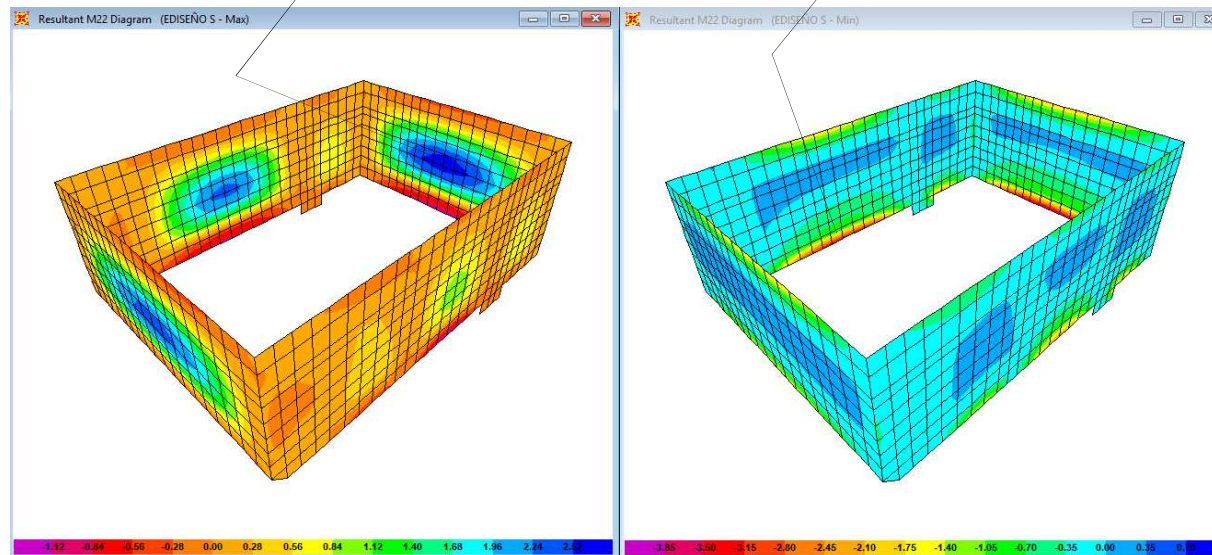
Mu= -2.57 Ton.m
Ms= -1.07 Ton.m



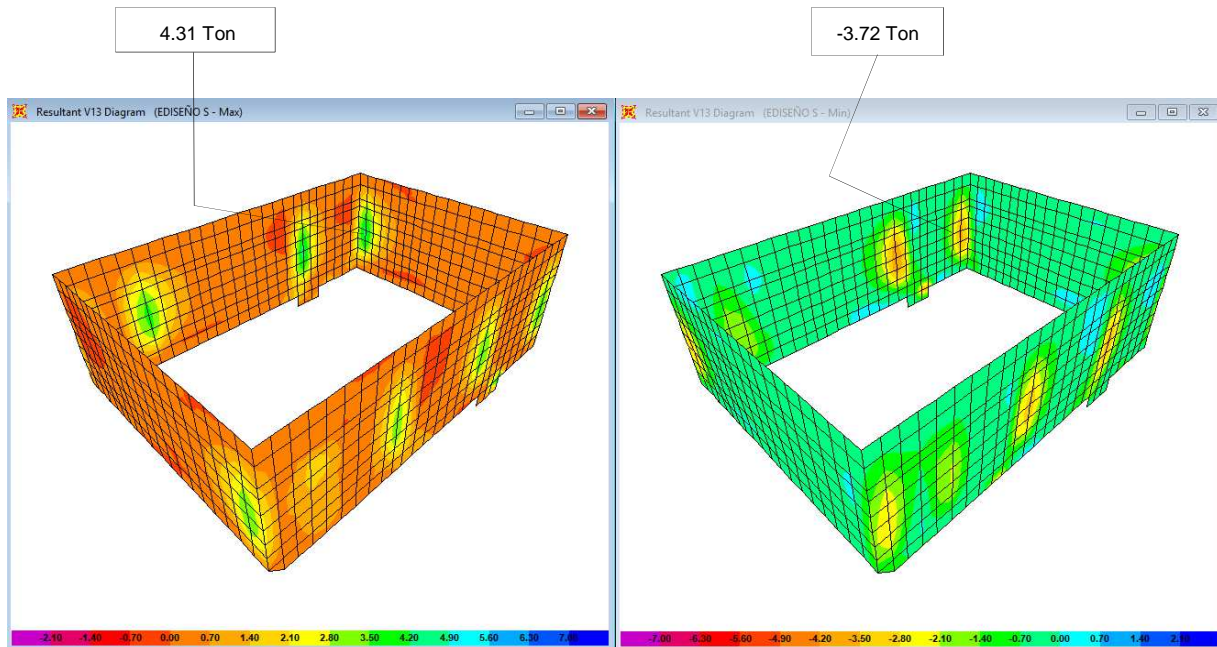
M22

Mu= 2.65 Ton.m
Ms= 1.00 Ton.m

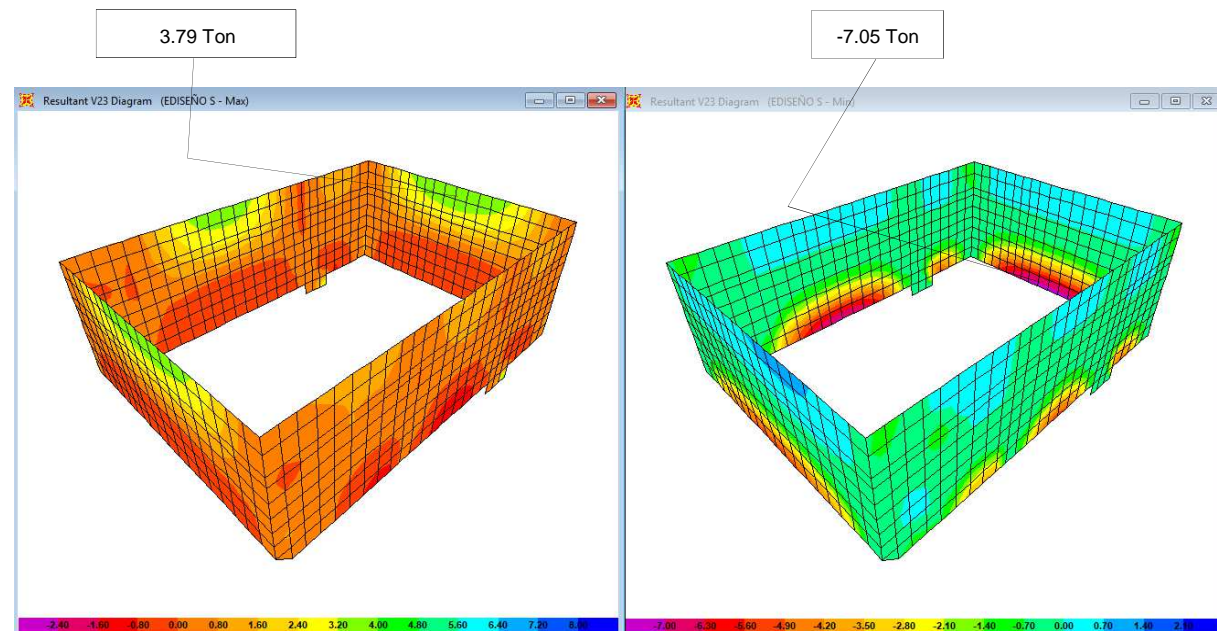
Mu= -2.94 Ton.m
Ms= -1.41 Ton.m





V13



V23



	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490
6. DISEÑO ESTRUCTURAL			
6.5. REFUERZO MURO INTERNO e=0.25m			
h = 25 cm b = 100 cm d = 20.0 cm	fy = 4200 kg/cm² f'c = 280 kg/cm² Condición Ambiental: normal	Es = 2039400.00 kg/cm² Ec = 252671.33 kg/cm² n = 8	
<u>CORTANTE V13</u> $\phi V_c = 15.08$ ton $V_u = 4.35$ ton cumple		<u>CORTANTE V23</u> $\phi V_c = 15.08$ ton $V_u = 3.31$ ton cumple	
<u>MOMENTO (+) M11</u> Cargas Estáticas: $M_u = 1.25$ T-m $M_s = 0.85$ T-m coef. durab. $s_d = 1.84$ Cargas de Sismo: $M_u = 1.38$ T-m $M_s = 1.39$ T-m Resistencia Requerida: $M_n = 2.55$ T-m Por lo tanto: $\rho = 0.001710$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 4.00$ cm²/m		<u>MOMENTO (+) M22</u> Cargas Estáticas: $M_u = 0.82$ T-m $M_s = 0.44$ T-m coef. durab. $s_d = 1.45$ Cargas de Sismo: $M_u = 1.15$ T-m $M_s = 0.79$ T-m Resistencia Requerida: $M_n = 1.32$ T-m Por lo tanto: $\rho = 0.000879$ $\rho_{min} = 0.001500$ $A_{sREQUERIDO} = 4.00$ cm²/m	
Varilla = # 4 Área varilla = 1.29 cm² Sep. Varilla = 20 cm $A_{ssuministrado} = 6.45$ cm²/m		Varilla = # 4 Área varilla = 1.29 cm² Sep. Varilla = 20 cm $A_{ssuministrado} = 6.45$ cm²/m	
<u>Chequeo a flexión servicio MOMENTO (+) M11</u> $M_s = 1.39$ T-m $A_s = 6.45$ cm²/m $\rho = 0.003225$ $k = 0.20$ $j = 0.93$ $jd = 18.64$ cm $f_s = 1155.98$ kg/cm² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1839.21$ kg/cm² cumple		<u>Chequeo a flexión servicio MOMENTO (+) M22</u> $M_s = 0.79$ T-m $A_s = 6.45$ cm²/m $\rho = 0.003225$ $k = 0.20$ $j = 0.93$ $jd = 18.64$ cm $f_s = 656.99$ kg/cm² Condición Ambiental: normal $\beta = 1.35$ $s = 20.00$ cm $f_{smax} = 1839.21$ kg/cm² cumple	
SE COLOCARÁ REFUERZO #4 C/ 20cm		SE COLOCARÁ REFUERZO #4 C/ 20cm	

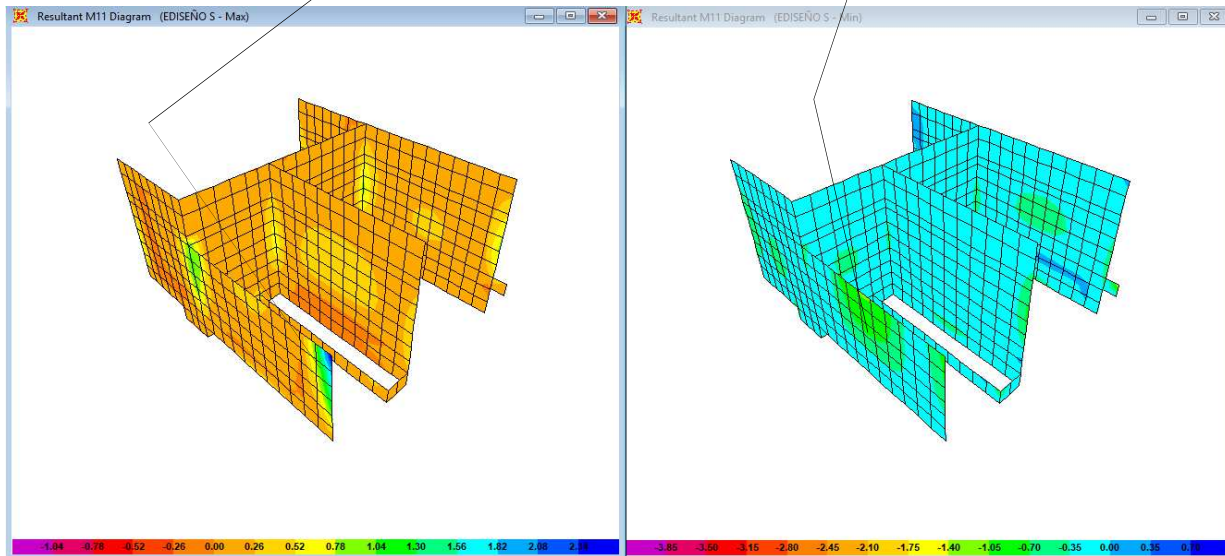
	PROYECTO:	CENTRO CRECER TANQUE DE ALMACENAMIENTO	FECHA: 03/07/2018
	INGENIERO:	Iván M. Guevara R.	N.P : P-18-490

<u>MOMENTO (-) M11</u>				<u>MOMENTO (-) M22</u>																							
Cargas Estáticas:	Mu =	0.76	T-m	Cargas Estáticas:	Mu =	1.87	T-m																				
	Ms =	0.56	T-m		Ms =	1.35	T-m																				
coef. durab.	s _d =	1.99		coef. durab.	s _d =	1.95																					
Cargas de Sismo:	Mu =	-1.00	T-m	Cargas de Sismo:	Mu =	-1.96	T-m																				
	Ms =	0.97	T-m		Ms =	1.95	T-m																				
Resistencia Requerida:	Mn =	1.68	T-m	Resistencia Requerida:	Mn =	4.05	T-m																				
Por lo tanto:	ρ =	0.001121		Por lo tanto:	ρ =	0.002738																					
	ρ _{min} =	0.001500			ρ _{min} =	0.001500																					
	AS _{REQUERIDO} =	4.00	cm ² /m		AS _{REQUERIDO} =	5.48	cm ² /m																				
Varilla = # 4 Área varilla= 1.29 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 6.45 cm ² /m				Varilla = # 4 Área varilla= 1.29 cm ² Sep. Varilla= 20 cm AS _{suministrado} = 6.45 cm ² /m																							
<u>Chequeo a flexión servicio MOMENTO (-) M11</u> Ms = 0.97 T-m As = 6.45 cm ² /m ρ = 0.003225 k = 0.20 j = 0.93 jd = 18.64 cm fs = 806.69 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1839.21 kg/cm ² cumple				<u>Chequeo a flexión servicio MOMENTO (-) M22</u> Ms = 1.95 T-m As = 6.45 cm ² /m ρ = 0.003225 k = 0.20 j = 0.93 jd = 18.64 cm fs = 1621.70 kg/cm ² Condición Ambiental: normal β= 1.35 s= 20.00 cm fsmax= 1839.21 kg/cm ² cumple																							
SE COLOCARÁ REFUERZO #4 C/ 20cm				SE COLOCARÁ REFUERZO #4 C/ 20cm																							
<u>MOMENTO DE AGRIETAMIENTO POR FLEXIÓN</u>																											
fr =	33.47	kg/cm ²		<table><tr><td>Carga</td><td>AS_{suministrado} cm²/m</td><td>></td><td>AS_{cr} ?</td></tr><tr><td>M11(+)</td><td>6.45</td><td></td><td>cumple</td></tr><tr><td>M11(-)</td><td>6.45</td><td></td><td>cumple</td></tr><tr><td>M22(+)</td><td>6.45</td><td></td><td>cumple</td></tr><tr><td>M22(-)</td><td>6.45</td><td></td><td>cumple</td></tr></table>				Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?	M11(+)	6.45		cumple	M11(-)	6.45		cumple	M22(+)	6.45		cumple	M22(-)	6.45		cumple
Carga	AS _{suministrado} cm ² /m	>	AS _{cr} ?																								
M11(+)	6.45		cumple																								
M11(-)	6.45		cumple																								
M22(+)	6.45		cumple																								
M22(-)	6.45		cumple																								
yt =	12.50	cm																									
Ig =	130208.33	cm ⁴																									
Mcr =	3.49	T-m																									
ρ _{cr} =	0.002350																										
AS _{cr} =	4.70	cm ² /m																									

M11

Mu= 1.38 Ton.m
Ms= 1.39 Ton.m

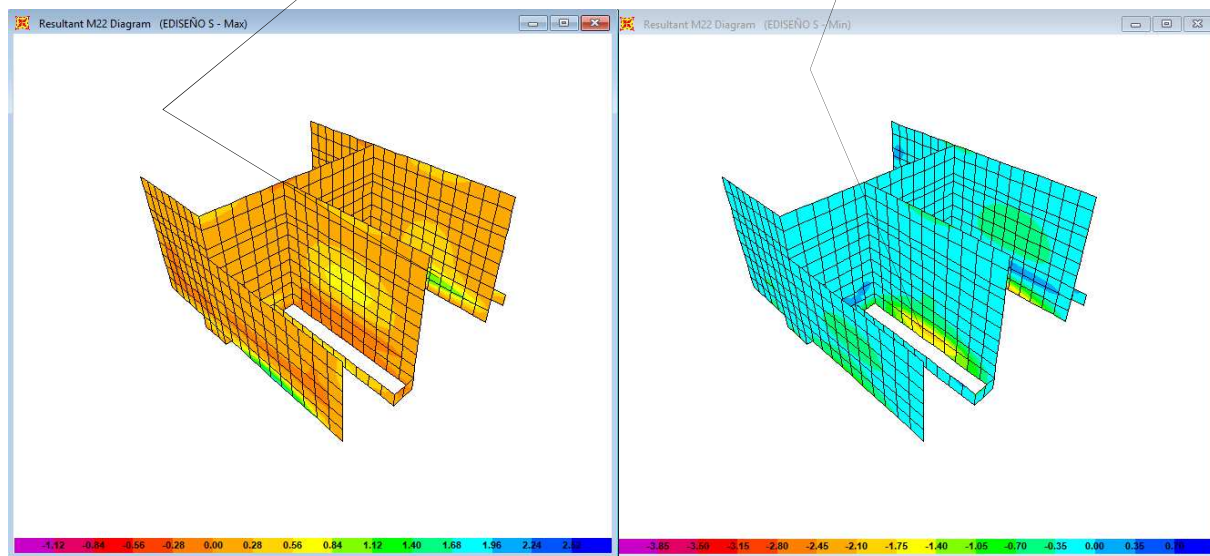
Mu= -1.00 Ton.m
Ms= -0.97 Ton.m



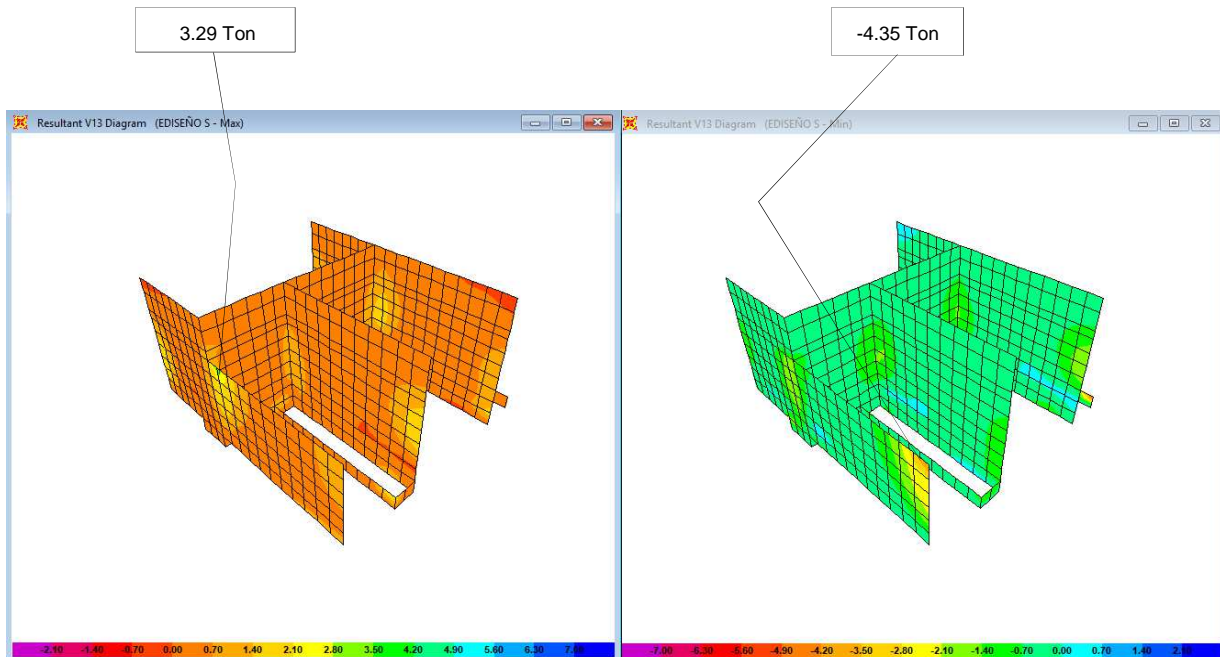
M22

Mu= 1.15 Ton.m
Ms= 0.79 Ton.m

Mu= -1.96 Ton.m
Ms= -1.95 Ton.m



V13



V23

