



CONSULTORIA PARA LA REALIZACIÓN DE ESTUDIOS TÉCNICOS Y DISEÑOS PARA LA AMPLIACIÓN DEL CENTRO DE ASOMENORES EN TURBACO BOLIVAR, DEL PROGRAMA DE RESPONSABILIDAD PENAL PARA ADOLESCENTES DEL INSTITUTO COLOMBIANO DE BIENESTAR FAMILIAR (TURBACO - BOLÍVAR)  
CONTRATO 2123655



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RESPONSABLE TÉCNICA

No.	FECHA	MODIFICACIONES	ELABORÓ
0	D / M / A.		
1			
2			
3			
4			

No. PROYECTO FONADE

VERSIÓN ESCALA 1:100

CONTENIDO CENTRO DE ASOMENORES EN TURBACO MUROS

MUNICIPIO TURBACO DEPARTAMENTO BOLIVAR

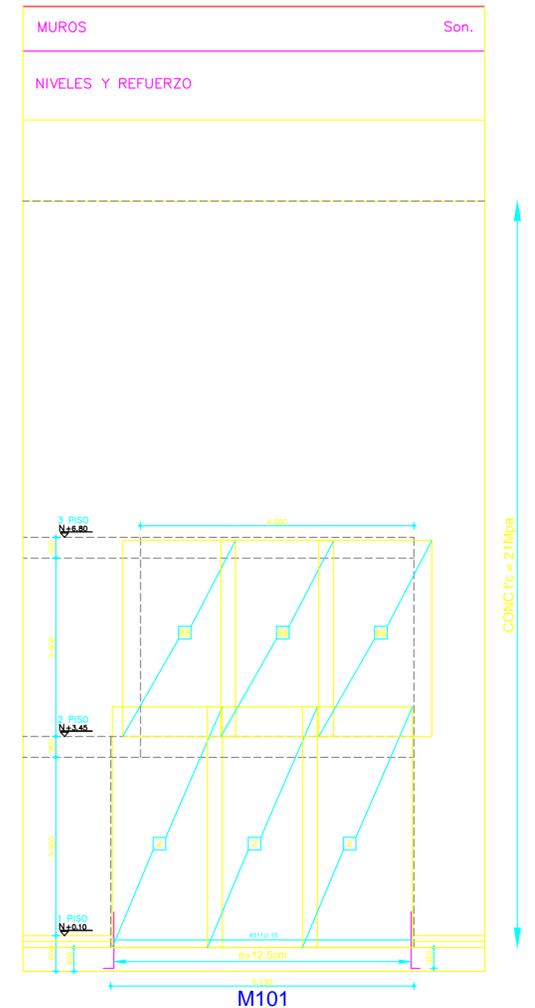
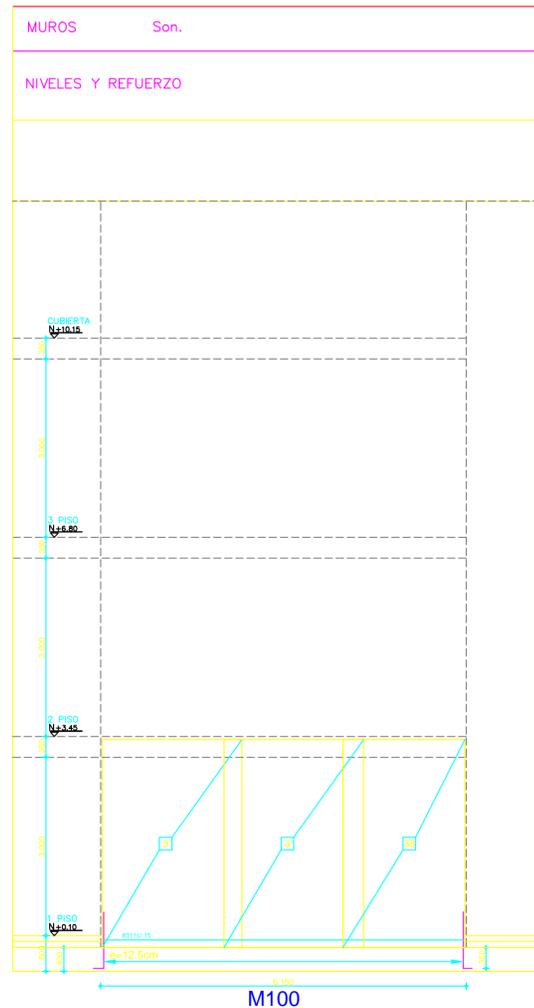
PLANO EST 34 de . MAYO DE 2013

CUADRO DE MALLAS PARA REFUERZO DE MUROS

TIPO	Dimensiones A	B	Refuerzo Horizontal	Refuerzo Vertical
1	3.50	2.20	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
2	4.05	1.85	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
3	3.50	2.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
4	4.05	2.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
5	4.05	1.80	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
6	4.05	1.30	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
7	4.05	1.45	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
8	3.50	1.25	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
9	4.05	1.55	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
10	4.05	1.65	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
11	4.05	2.15	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
12	4.05	1.75	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
13	4.05	2.10	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
14	4.05	1.95	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
15	4.05	1.75	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
16	4.05	2.00	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
17	3.50	1.80	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
18	4.05	2.15	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
19	3.50	2.10	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
20	3.50	2.20	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
21	3.50	1.40	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
22	3.50	1.20	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
23	4.05	1.20	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
24	3.50	1.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
25	3.50	0.40	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
26	4.05	1.25	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
27	4.05	1.40	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
28	4.05	1.90	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
29	4.05	1.50	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
30	4.05	1.60	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
31	3.50	0.50	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
32	3.50	1.15	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
33	3.50	0.75	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
34	3.50	1.95	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
36	4.05	1.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
37	4.05	1.70	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
38	3.50	2.05	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
39	3.50	1.85	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
40	1.60	2.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
41	1.60	1.25	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
42	3.50	2.30	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
43	3.50	1.45	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
44	3.50	1.50	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
45	3.50	1.55	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
46	3.50	1.90	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
47	3.50	1.30	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
48	3.50	0.70	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
49	4.05	0.90	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
52	3.50	0.80	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
56	3.85	2.20	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
57	3.30	2.20	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
58	3.85	1.95	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
59	3.30	1.95	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
60	3.85	2.25	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
61	3.30	0.90	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
62	3.30	1.45	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
63	3.85	2.00	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
64	3.30	2.00	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
65	3.85	2.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
66	3.85	1.80	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
67	3.30	2.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
68	3.30	1.80	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
69	3.85	1.30	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
70	3.30	1.30	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
75	3.85	1.55	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
76	3.30	1.55	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
77	3.85	1.95	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
78	3.30	1.95	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
79	3.85	1.75	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
80	3.30	1.75	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
81	3.85	2.15	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
82	3.30	2.15	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
83	3.85	1.85	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
84	3.30	1.85	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
85	3.85	1.40	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
86	3.30	1.40	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
87	3.85	1.90	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
88	3.30	1.90	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
89	3.85	1.10	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
90	3.30	1.10	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
91	3.85	1.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
92	3.30	1.35	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
93	3.85	2.10	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
94	3.30	2.10	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
95	3.85	1.50	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
96	3.30	1.50	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
97	3.85	1.25	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
98	3.30	1.25	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
99	3.85	1.80	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15

CUADRO DE MALLAS PARA REFUERZO DE MUROS

TIPO	Dimensiones A	B	Refuerzo Horizontal	Refuerzo Vertical
100	3.30	1.80	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
102	3.30	2.30	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
104	3.30	1.00	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
105	3.30	0.70	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
106	3.30	1.00	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
107	3.30	0.70	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
108	3.30	0.85	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
109	4.05	0.85	2Ø 5.5 mm c/15	2Ø 5.5 mm c/15
5A	4.05	1.80	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
4A	4.05	2.35	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
16A	4.05	2.00	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
63A	3.85	2.00	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
64A	3.30	2.00	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
65A	3.85	2.35	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
66A	3.85	1.80	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
67A	3.30	2.35	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
68A	3.30	1.80	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
3A	3.50	2.35	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15
15A	4.05	1.75	2Ø 7.0 mm c/15	2Ø 7.0 mm c/15



**ESPECIFICACIONES**

2# 425

CONCRETO: f<sub>c</sub> = p.s.i 3000

ACERO: f<sub>y</sub> = 60.000 p.s.i (Ø >= 38" / f<sub>y</sub> = 34.000 p.s.i (Ø 14")

NOMENCLATURA REFUERZO		
N° MALLA	ANCHO	LONGITUD
2	14	10
3	38	15
4	12	20
5	38	25
6	34	30
7	78	35
8	1	40