



ACEROS OCOTLAN®
UN MUNDO DE ACERO

CATÁLOGO DE **PRODUCTOS**

 333 9680 608

 acerosocotlan.mx

LO QUE HACE
FUERTE
A MÉXICO

ENCUÉTRANOS EN

ACEROS OCOTLAN JALISCO

ACATLÁN
ACEROS ARANDAS
AJIJIC
ALTOS ARANDAS
ALTOS MATRIZ
ATOTONILCO
AUTLÁN
AYOTLÁN
AZAHARES
CAZ FERRETERÍA
CEDI FERRO
CEDI LAGOS DE MORENO
CENTRAL ACEROS OCOTLÁN
CHAPALA
CIUDAD GUZMAN
CIUDAD GUZMAN (LIBRAMIENTO)
COCULA
DEGOLLADO
EL MIRADOR
EL SALTO
GDL PERIFÉRICO
GDL. MATRIZ
JAUJA
JESUS MARÍA
LA BARCA
LA JALISCO
LAGOS DE MORENO
OCOTLÁN ECONÓMICOS
OCOTLÁN MADERO
PITILLAL
PONCITLÁN
PTO. VALLARTA AEROPUERTO
PTO. VALLARTA MATRIZ
PTO. VALLARTA IXTAPA
SAN FRANCISCO
SAN MIGUEL EL ALTO
TEPATITLÁN 1a
TEPATITLÁN 2a
TESISTAN
TONALÁ

ZAPOTLANEJO
ZULA MATRIZ

ACEROS OCOTLAN BAJA CALIFORNIA

5 Y 10
CEDI TIJUANA
ENSENADA
JARDÍN DORADO
MEXICALI

ACEROS OCOTLAN MICHOACÁN

LA PIEDAD
LÁZARO CÁRDENAS
MORELIA
SAHUAYO

ACEROS OCOTLAN NAYARIT

BUCERÍAS
IXTLÁN
TEPIC

ACEROS OCOTLAN NUEVO LEÓN

APODACA
LÁMINAS DEL NORTE

ACEROS OCOTLAN YUCATÁN

MÉRIDA

ACEROS OCOTLAN CDMX

MIGUEL HIDALGO

ACEROS OCOTLAN COAHUILA

TORREÓN JUMBO
TORREÓN ANNA
TORREÓN DEPORTIVA
TORREÓN MÉXICO
TORREÓN FONSECA
MATAMOROS

AV **ESTRUCTURALES**

VIGA IPR
VIGA IPS
ÁNGULOS APS
HSS
POLÍN A.R.

AV **CORRUGADO**

VARILLA CORRUGADA
ALAMBRÓN
CASTILLOS
MALLAS
PULIDOS

AV **COMERCIALES**

REDONDOS
CUADRADOS
ÁNGULOS
TEE Y ZETA
PULIDOS
POLÍN COMERCIAL
POLÍN MON-TEN

AV **TUBERÍA**

C-30 / C-40 / G-50
GALVANIZADA
DE CONDUCCIÓN
ZINTRO
P.T.R.
TUBULAR

AV **PLANOS**

PLACA A-36
PLACA G-50
ANTIDERRAPANTE
LÁMINA NEGRA
LÁMINA GALVANIZADA

LO QUE HACE
FUERTE
A MÉXICO

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ALAMBRE RECOCIDO

No.	Diámetro		Peso	
	mm	pulg	kg/m	rollo (kg)
15	1.83	0.0720	0.021	50.00
16	1.59	0.0625	0.016	50.00
17	1.21	0.0475	0.008	50.00

ALAMBRÓN

Diámetro		Peso kg/m	Área Nom mm
mm	pulg		
5.55	0.218	.0250	26.8
6.35	1/4"	0.248	31.7
7.94	5/16"	0.388	49.5
9.53	3/8"	0.559	71.3

Especificación: NMX-B365 y ASTM A-510

ALAMBRE GALVANIZADO SUAVE

Calibre	Diámetro (mm)	Metros por rollo
12.5	2.44	27
14.5	1.85	47
16	1.57	65
18	1.22	110
20	0.84	230
22	0.71	321

* Rollos 1 kg capa de zinc uniforme
 * Identificador de calibre en cada rollo
 * Cajas con 20 rollos
 * Especificación: ASTM A-641

ALAMBRE DE PÚAS

Denominación	Características	Peso por rollo (kg)	Largo (m)	Resistencia (kg)	Marca
Vaquero I	2 alambres galvanizados trenzados cal 15.5	14.0	300	454	De Acero
		16.7	360		
Corcel III	púa de 4 puntas cal 16.5 separación entre púas 5" rendimiento 21.3 m/kg	14.8	300	454	De Acero
		17.7	360		
		18.8	400		
		23.5	500		
Bronco	2 alambres galvanizados trenzados cal 12.5	20	216	431	De Acero
		30	324		
Nacional	púa de 4 puntas cal 14.5 separación entre púas 5" rendimiento 10.8 m/kg	34	368	431	Aceros Nacionales
Potrero		34	368		
Novillo		30	300		
Bravo		34	368		
		30	300		Alambres Potosí

Cumple con la norma ASTM A-121





Dimensiones		Peso			
pulgadas	mm	kg/m	largo	kg/pza	lbs/pie
1/8" x 3/4"	3.2 x 19.0	0.88	6.10	5.37	0.60
1/8" x 1"	3.2 x 25.4	1.19	6.10	7.26	0.80
1/8" x 1 1/4"	3.2 x 31.7	1.50	6.10	9.15	1.00
1/8" x 1 1/2"	3.2 x 38.1	1.83	6.10	11.16	1.20
1/8" x 1 3/4"	3.2 x 44.5	2.14	6.10	13.05	1.44
1/8" x 2"	3.2 x 50.8	2.46	6.10	15.01	1.70
5/32" x 1 1/2"	4.06 x 38.1	2.28	6.10	13.908	1.53
5/32" x 2"	4.06 x 50.8	3.09	6.10	18.949	2.07
5/32" x 2 1/2"	4.06 x 63.5	3.92	6.10	23.912	2.63
3/16" x 1"	4.8 x 25.4	1.73	6.10	10.55	1.20
3/16" x 1 1/4"	4.8 x 31.7	2.20	6.10	13.42	1.50
3/16" x 1 1/2"	4.8 x 38.1	2.68	6.10	16.35	1.80
3/16" x 1 3/4"	4.8 x 44.5	3.15	6.10	19.215	2.11
3/16" x 2"	4.8 x 50.8	3.63	6.10	22.14	2.40
3/16" x 2 1/2"	4.8 x 63.5	4.61	6.10	28.12	3.10
3/16" x 3"	4.8 x 76.2	5.52	12.20	67.36	3.71
3/16" x 3 1/2"	4.8 x 88.9	6.55	6.10	39.955	4.40
1/4" x 1"	6.3 x 25.4	2.22	6.10	13.54	1.50
1/4" x 1 1/4"	6.3 x 31.7	2.86	6.10	17.45	1.90
1/4" x 1 1/2"	6.3 x 38.1	3.48	6.10	21.23	2.30
1/4" x 1 3/4"	6.3 x 44.5	4.12	6.10	25.13	2.77
1/4" x 2"	6.3 x 50.8	4.75	6.10	28.98	3.20
1/4" x 2 1/2"	6.3 x 63.6	6.10	6.10	37.21	4.09
1/4" x 3"	6.3 x 76.2	7.29	12.20	88.94	4.90
1/4" x 3 1/2"	6.3 x 88.9	8.63	12.20	105.29	5.80
1/4" x 4"	6.3 x 101.6	9.82	12.20	119.8	6.60
5/16" x 2"	7.9 x 50.8	5.83	6.10	35.56	3.91
5/16" x 2 1/2"	7.9 x 63.5	7.44	6.10	45.38	5.00
5/16" x 3"	7.9 x 76.2	9.08	12.20	110.78	6.10
5/16" x 3 1/2"	7.9 x 88.9	10.71	12.20	130.66	7.20
5/16" x 4"	7.9 x 101.6	12.20	12.20	148.84	8.20
5/16" x 5"	7.9 x 127	15.47	6.10	94.367	10.39
3/8" x 2"	9.5 x 50.8	6.99	6.10	42.64	4.69
3/8" x 2 1/2"	9.5 x 63.5	8.78	6.10	53.56	5.90
3/8" x 3"	9.5 x 76.1	10.72	12.20	130.78	7.20
3/8" x 3 1/2"	9.5 x 88.9	12.64	12.20	154.33	8.50
3/8" x 4"	9.5 x 101.6	14.58	12.20	177.88	9.80
3/8" x 5"	9.5 x 127	18.30	6.10	111.63	12.28
3/8" x 6"	9.5 x 152.4	22.17	12.20	270.47	14.90
3/8" x 6" x 4"	9.5 x 152.4 x 101.6	18.30	12.20	223.26	12.30
7/16" x 3 1/2"	11.11 x 88.9	14.58	12.20	177.88	9.80
7/16" x 4"	11.11 x 101.6	16.81	12.20	205.08	11.30
7/16" x 5"	11.11 x 127	21.28	6.10	129.808	14.29
7/16" x 6"	11.11 x 152.4	25.59	12.20	312.32	17.20
1/2" x 2 1/2"	12.7 x 63.5	11.83	6.10	72.16	7.95
1/2" x 3"	12.7 x 76.2	13.99	12.20	170.68	9.40
1/2" x 3 1/2"	12.7 x 88.9	16.51	12.20	201.42	11.10
1/2" x 4"	12.7 x 101.6	19.05	12.20	232.41	12.80
1/2" x 5"	12.7 x 127	24.11	6.10	147.071	16.19
1/2" x 6"	12.7 x 152.4	29.17	12.20	355.87	19.60
1/2" x 6" x 4"	12.7 x 152.4 x 101.6	24.11	12.20	294.14	16.20
5/8" x 4"	15.9 x 101.6	23.38	12.20	285.24	15.71
5/8" x 6"	15.9 x 152.4	36.01	12.20	439.32	24.20
5/8" x 6" x 4"	15.9 x 152.4 x 101.6	29.76	12.20	363.07	20.00
3/4" x 4"	19.0 x 101.6	27.53	12.20	335.87	18.50
3/4" x 6"	19.0 x 152.4	42.71	12.20	521.06	28.70
3/4" x 6" x 4"	19.0 x 152.4 x 101.6	35.12	12.20	428.46	23.60

Peralte		Peso		Dimensiones									
				A		B		C					
				Patín		Esp. Patín		Esp. Patín					
pulg	mm	kg/m	kg/pza	pulg	mm	pulg	mm	pulg	mm	pulg	mm		
3"	76.2	5.20	63.44	1.410	35.81	0.254	6.45	0.125	3.18	0.254	6.45	0.125	3.18
3"	76.2	6.10	74.42	1.410	35.80	0.273	6.93	0.170	4.30	0.273	6.93	0.170	4.30
4"	101.6	6.69	81.62	1.580	40.23	0.220	5.60	0.174	4.42	0.220	5.60	0.174	4.42
4"	101.6	8.04	98.09	1.580	40.23	0.296	7.52	0.184	4.67	0.296	7.52	0.184	4.67
5"	127.5	9.97	121.63	1.750	44.45	0.320	8.13	0.190	4.83	0.320	8.13	0.190	4.83
5"	127.5	13.39	163.36	1.885	47.88	0.320	8.13	0.325	8.26	0.320	8.13	0.325	8.26
6"	152.4	12.20	148.84	1.920	48.77	0.343	8.71	0.200	5.08	0.343	8.71	0.200	5.08
6"	152.4	15.63	190.64	2.034	51.66	0.343	8.71	0.314	7.98	0.343	8.71	0.314	7.98
6"	152.4	19.35	236.03	2.157	54.79	0.343	8.71	0.437	11.10	0.343	8.71	0.437	11.10
8"	203.2	17.11	208.74	2.260	57.40	0.390	9.91	0.220	5.59	0.390	9.91	0.220	5.59
8"	203.2	20.46	249.61	2.343	59.51	0.390	9.91	0.303	7.70	0.390	9.91	0.303	7.70
8"	203.2	27.90	340.38	2.527	64.19	0.390	9.91	0.487	12.37	0.390	9.91	0.487	12.37
10"	254.0	22.77	277.79	2.600	66.04	0.436	11.07	0.240	6.10	0.436	11.07	0.240	6.10
10"	254.0	29.76	363.07	2.739	69.57	0.436	11.07	0.379	9.63	0.436	11.07	0.379	9.63
10"	254.0	37.20	453.84	2.886	73.30	0.436	11.07	0.526	13.36	0.436	11.07	0.526	13.36
10"	254.0	44.64	544.61	3.033	77.04	0.436	11.07	0.673	17.09	0.436	11.07	0.673	17.09
12"	304.8	30.80	375.76	2.942	74.73	0.501	12.73	0.282	7.16	0.501	12.73	0.282	7.16
12"	304.8	37.20	453.84	3.047	77.39	0.501	12.73	0.387	9.83	0.501	12.73	0.387	9.83
12"	304.8	44.64	544.61	3.170	80.52	0.501	12.73	0.510	12.95	0.501	12.73	0.510	12.95

LONGITUD ESTÁNDAR 12.20 M
CUMPLEN CON LA NORMA ASTM A-36

CASTILLOS ARMEX GRADO 6000

Características de las Armaduras de Fabricación Estándar

Geometría	Tipo	Diámetro de la varilla		Sección de concreto (cm)	Sección de armadura (cm)	Peso x pieza de 6.00mt
		Longitud mm	Escribos mm			
	12*2	6.35	4.115	12 X variable	8	3.48
	15*2	6.35	4.115	15 X variable	11	3.58
	10*10*3	6.35	4.115	10 x 10	6 x 6	5.46
	12*12*3	6.35	4.115	12 x 12	8 x 8	5.80
	15*15*3	6.35	4.115	15 x 15	11 x 11	5.25
	12*12*4	6.35	4.115	12 x 12	8 x 8	6.02
	15*15*4	6.35	4.115	15 x 15	11 x 11	6.91
	15*15*4*5/16"	7.94	5.723	15 x 15	11 x 11	12.35
	15*15*4 1/32"	9.00	5.723	15 x 15	11 x 11	13.00
	12*20*4	6.35	4.115	12 x 20	8 x 16	7.29
	15*10*4	6.35	4.115	15 x 10	11 x 6	7.55
	15*20*4	6.35	4.115	15 x 20	11 x 16	8.34
	15*25*4	6.35	4.115	15 x 25	11 x 21	7.66
	15*30*4	6.35	4.115	15 x 30	11 x 26	8.04
	15*20*4*5/16"	7.94	5.723	15 x 20	11 x 16	12.95
	15*25*4*5/16"	7.94	5.723	15 x 25	11 x 21	13.56
	15*30*4*5/16"	7.94	5.723	15 x 30	11 x 26	14.16
	15*20*4 1/32"	9.00	5.723	15 x 20	11 x 16	14.00
15*25*4 1/32"	9.00	5.723	15 x 25	11 x 21	15.50	
15*30*4 1/32"	9.00	5.723	15 x 30	11 x 21	16.00	

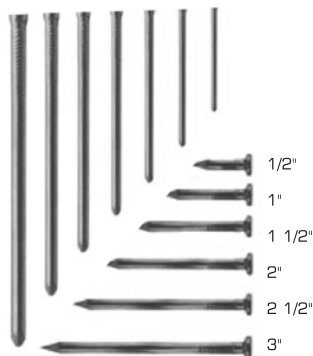
NOTA: PREGUNTE POR CASTILLO DE 3/8" Y ESCALERILLA.

CLAVO ESTÁNDAR CON CABEZA

Largo		Calibre	Clavos por kg
pulg	mm		
3/4"	20	14.5	2,362
1"	25	14.5	1,425
1 1/4"	31	14.5	1,195
1 1/2"	38	14.5	1,030
2"	51	12.5	440
2 1/2"	63	11	245
3"	76	10	170
3 1/2"	89	8	99
4"	101	7	73
5"	127	6	51
6"	152	5	35
7"	178	1	17
8"	203	5/16"	11

CAJA DE 25KG

CAJA CON 25 BOLSAS DE 1KG



CLAVO PARA CONCRETO

Largo		Calibre	Clavos por kg
pulg	mm		
1"	25	8	335
1 1/2"	38	8	232
2"	51	8	177
2 1/2"	63	8	143
3"	76	8	120
3 1/2"	89	8	104
4"	101.6	7	77

CAJA DE 25KG

CAJA CON 25 BOLSAS DE 1KG

CLAVO TOMATERO

Largo		Calibre	Clavos por kg
pulg	mm		
1 1/4"	32	14.5	1,095
1 3/8"	35	14.5	1,105
1 5/8"	41	14.5	970

GRAPAS

Calibre	Longitud	Grapas/kg	Tipo
9	1"	248	Corrugada
9	1 1/4"	203	Negra
8	1"	198	Negra "V"
8	1 1/4"	172	Negra "V"
9	1"	248	Corrugada
9	1 1/4"	203	Galvanizada
9	1 1/2"	160	Galvanizada
10	1"	285	Corcel III
10	1 1/4"	231	Corcel III

GRAPA NEGRA CAJA CON 25KG

GRAPA GALVANIZADA CAJA CON 25KG

CAJA CON 25 BOLSAS DE 1KG

TEE Y ZETA DE FIERRO

Dimensiones		Peso		
pulgadas	mm	kg/m	largo	kg/pza
1/8 x 1"	3.2 x 25.4	1.32	6.10	8.05

CUADRADOS

Dimensiones		Área de la Selección		Peso			
mm	pulgadas	mm	pulg2	kg/m	largo	kg/pza	lb/pie
9.5	3/8"	90.73	0.141	0.712	6.10	4.34	0.478
12.7	1/2"	161.29	0.250	1.266	6.10	7.72	0.851
15.9	5/8"	252.02	0.399	1.978	6.10	12.07	1.329
19.1	3/4"	362.90	0.563	2.849	6.10	17.38	1.915
22.2	7/8"	493.95	0.766	3.877	6.10	23.65	2.605
25.4	1"	645.16	1.000	5.065	6.10	30.90	3.404
28.6	1 1/8"	816.53	1.266	6.410	6.10	39.10	4.308
31.8	1 1/4"	1008.07	1.563	7.913	6.10	48.27	5.318
34.9	1 3/8"	1219.77	1.891	9.575	6.10	58.41	6.434
38.1	1 1/2"	1451.62	2.250	11.395	6.10	69.51	7.657
44.5	1 3/4"	1975.80	3.065	15.510	6.10	94.61	10.423
50.8	2"	2580.65	4.000	20.258	6.10	123.57	13.613

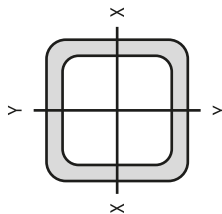
REDONDOS

Diámetro		Área de la Selección		Área Neta	Peso			
mm	pulgadas	mm	pulg2	cm2	kg/m	largo	kg/pza	lb/pie
6.3	1/4"	31.7	0.049	0.17	0.25	6.10	1.52	0.167
7.9	5/16"	49.5	0.077	0.19	0.39	6.10	2.37	0.261
9.5	3/8"	71.3	0.110	0.44	0.56	6.10	3.41	0.376
12.7	1/2"	126.7	0.196	0.81	0.99	6.10	6.06	0.668
15.9	5/8"	197.9	0.307	1.30	1.55	6.10	9.47	1.043
19.1	3/4"	285.0	0.442	2.01	2.24	6.10	13.63	1.502
22.2	7/8"	387.9	0.601	2.71	3.05	6.10	18.57	2.046
25.4	1"	206.7	0.785	3.55	3.97	6.10	24.24	2.669
28.6	1 1/8"	641.3	0.994	4.46	5.02	6.10	30.63	3.375
31.8	1 1/4"	791.7	1.227	5.73	6.21	6.10	37.87	4.172
34.9	1 3/8"	658.0	1.485	6.80	7.51	6.10	45.84	5.049
38.1	1 1/2"	1140.1	1.767	8.35	9.00	6.10	54.90	6.048
41.3	1 5/8"	1338.0	2.074	9.77	10.49	6.10	63.99	7.049
44.5	1 3/4"	1551.8	2.405	11.25	12.17	6.10	74.24	8.178
44.7	1 7/8"	1781.3	2.761	13.21	13.37	6.10	81.56	9.388
50.8	2"	2026.8	3.142	14.83	15.89	6.10	96.93	10.678

*EL GRADO DE LOS SÓLIDOS SON A36. **COTIZA CON TU EJECUTIVO DE VENTA.

HSS CUADRADO

Dimensiones		Peso (kg/m)						
pulg (A X B)	mm (A X B)	Espesor						
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"
4" X 4"	101.6 X 101.6	9.61	14.02	18.17	22.07	25.7	32.19	
4 1/2" X 4 1/2"	114.3 X 114.3	10.86	15.92	20.7	25.24	29.5	37.25	
5" X 5"	127.0 X 127.0	12.13	17.81	23.25	28.39	33.29	42.31	
5 1/2" X 5 1/2"	139.7 X 139.7		19.72	25.77	31.56	37.1		
6" X 6"	152.4 X 152.4		21.62	28.3	34.73	40.89	52.44	63.1
7" X 7"	177.8 X 177.8		25.42	33.36	41.06	48.48	62.58	
7 1/2" X 7 1/2"	190.5 X 190.5		27.31	35.89	44.23	52.28	67.64	
8" X 8"	203.2 X 203.2		29.21	38.42	47.38	56.09	72.7	88.4
9" X 9"	228.6 X 228.6		33.01	43.5	53.72	63.68	82.83	
10" X 10"	254.0 X 254.0		36.8	48.56	60.05	71.28	92.95	113.8
12" X 12"	304.8 X 304.8		44.41	58.68	72.71	86.46	113.2	139.1
14" X 14"	355.6 X 355.6				85.36	101.66	133.46	166.82
16" X 16"	406.4 X 406.4				98.03	116.85	153.73	189.01



HSS RECTANGULAR

Dimensiones		Peso (kg/m)					
pulg (A X B)	mm (A X B)	Espesor					
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
5" X 3"	127.0 X 76.2	9.61	14.02	18.17	22.07	25.7	32.19
6" X 2"	152.4 X 50.8	9.61	14.02	18.17	22.07	25.7	32.19
5" X 4"	127.0 X 101.6	10.86	15.92	20.7	25.24	29.5	37.25
6" X 3"	152.4 X 76.2	10.86	15.92	20.7	25.24	29.5	37.25
7" X 2"	177.8 X 50.8	10.86	15.92	20.7	25.24	29.5	37.25
6" X 4"	152.4 X 101.6	12.13	17.81	23.25	28.39	33.29	42.31
7" X 3"	177.8 X 76.2	12.13	17.81	23.25	28.39	33.29	42.31
8" X 2"	203.2 X 50.8	12.13	17.81	23.25	28.39	33.29	42.31
6" X 5"	152.4 X 127.0		19.72	25.77	31.56	37.1	52.44
7" X 4"	177.8 X 101.6		19.72	25.77	31.56	37.1	52.44
8" X 3"	203.2 X 76.2		19.72	25.77	31.56	37.1	52.44
7" X 5"	177.8 X 127.0		21.62	28.3	34.73	40.89	52.44
8" X 4"	203.2 X 101.6		21.62	28.3	34.73	40.89	62.58
9" X 3"	228.6 X 76.2		21.62	28.3	34.73	40.89	62.58
10" X 2"	254.0 X 50.8		21.62	28.3	34.73	40.89	62.58
8" X 6"	203.2 X 152.4		25.42	33.36	41.06	48.48	62.58
9" X 5"	228.6 X 127.0		25.42	33.36	41.06	48.48	67.64
10" X 4"	254.0 X 101.6		25.42	33.36	41.06	48.48	67.64
12" X 2"	304.8 X 50.8		25.42	33.36	41.06	48.48	67.64
8" X 7"	203.2 X 177.8		27.31	35.89	44.23	52.28	67.64
9" X 6"	228.6 X 152.4		27.31	35.89	44.23	52.28	72.7
10" X 5"	254.0 X 127.0		27.31	35.89	44.23	52.28	72.7
12" X 3"	304.8 X 76.2		27.31	35.89	44.23	52.28	72.7
9" X 7"	228.6 X 177.8		29.21	38.42	47.38	56.09	82.83
10" X 6"	254.0 X 152.4		29.21	38.42	47.38	56.09	82.83
12" X 4"	304.8 X 101.6		29.21	38.42	47.38	56.09	82.83
10" X 8"	254.0 X 203.2		33.01	43.5	53.72	63.68	92.95
12" X 6"	304.8 X 152.4		33.01	43.5	53.72	63.68	92.95
14" X 4"	355.6 X 101.6		33.01	43.5	53.72	63.68	92.95
12" X 8"	304.8 X 203.2		36.8	48.56	60.05	71.28	113.2
14" X 6"	355.6 X 152.4		36.8	48.56	60.05	71.28	113.2
16" X 4"	406.4 X 101.6		36.8	48.56	60.05	71.28	113.2
14" X 10"	355.6 X 254.0		44.41	58.68	72.71	86.46	113.2
16" X 8"	406.4 X 203.2		44.41	58.68	72.71	86.46	133.46
18" X 6"	457.2 X 152.4		44.41	58.68	72.71	86.46	133.46
20" X 4"	508.0 X 101.6		44.41	58.68	72.71	86.46	153.73
16" x 12"	406.4 X 304.8				85.36	101.66	
20" x 8"	508.0 X 203.2				85.36	101.66	
20" x 12"	508.0 X 304.8				98.03	116.85	

Perfil	Calibre	Peso kg/m ²	Compresión superior momento positivo			Compresión superior momento negativo			Acciones permisibles		
			I+ cm4/mt	S+ cm3/mt	MMAX+ kg-m	I- cm4/mt	S- cm3/mt	MMAX- kg-m	Valor máximo kg/mt	Reacciones máximas	
										Apoyo exterior kg/mt	Apoyo interior kg/mt
RN-100/35	26	4.69	10.57	4.42	68.95	6.86		57.41	1065	161	201
	24	5.42	12.76	5.38	83.93	8.21		69.73	1452	208	317
	22	7.60	18.53	8.05	125.58	12.53		110.92	2449	379	772
R-72	30	2.44	2.90	1.73	26.98	2.02		24.34	742	147	181
	28	2.97	3.93	2.41	37.60	2.66		32.92	1279	208	330
	26	3.52	4.93	3.07	47.89	3.38		42.59	1846	279	515
	24	4.06	5.81	3.65	56.94	4.14		50.70	2372	359	731
	22	5.70	8.33	5.34	83.30	6.78		76.44	3393	680	1157
R-101	28	3.46	3.93	2.41	37.60	2.66		32.92	1279	208	330
	26	4.69	4.93	3.07	47.89	3.38		42.59	1846	279	515
	24	5.42	5.81	3.65	56.94	4.14		50.70	2372	359	731
	22	7.60	8.33	5.34	83.30	6.78		73.44	3393	680	1557
O-725	30	2.44	1.84	1.90	29.64	ancho efectivo 71.46 cm ancho total 79.71 cm					
	28	2.97	2.28	2.35	36.68						
	26	3.52	2.74	2.82	44.00						
	24	4.06	3.20	3.30	51.50						
O-100	28	3.96	2.28	2.35	36.66	ancho efectivo 98.28 cm (cubiertas) ancho efectivo 103.22 cm (muros) ancho total 106.36 cm					
	26	4.69	2.74	2.82	44.00						
	24	5.42	3.20	3.30	51.50						
SECC-25	24	5.42	45.11	11.93		50.54	ancho efectivo 91.44 cm				
	22	7.60	69.54	19.22		72.31					
	20	9.06	86.34	24.54		86.81					
	18	11.96	114.63	35.25		114.63					
R-90	26	5.21	81.48	8.92	ancho efectivo 90.00 cm ancho total 95.55 cm						
	24	6.02	100.07	11.26							
	22	8.44	155.93	18.39							

NOTA:
FABRICAMOS LÁMINA RN-100/35, R-72, R-101, SECC-25 A MEDIDAS ESPECIALES.

LÁMINA NEGRA

Espesor			Peso en kilogramos					kg/m2	
Cálibre	pulg	mm	3" X 6"	3" X 8"	3" X 10"	4" X 8"	4" X 10"		
3	0.2391	6.0731	79.699	106.265	132.832	141.687	177.109	47.660	Rolada en caliente
4	0.2242	5.6947	74.732	99.643	124.554	132.858	166.072	44.690	
5	0.2092	5.3137	69.732	92.977	116.221	123.969	154.961	41.700	
6	0.1943	4.9352	64.766	86.354	107.934	115.139	143.924	38.730	
7	0.1793	4.5542	59.766	79.688	99.610	106.251	132.813	35.740	
8	0.1644	4.1758	54.799	73.066	91.332	97.421	121.776	32.770	
9	0.1495	3.7973	49.833	66.444	83.055	88.591	110.739	29.800	
10	0.1345	3.4163	44.833	59.777	74.721	79.703	99.628	26.810	
1/8"	0.1250	3.1750	41.666	55.555	69.444	74.073	92.591	24.916	
11	0.1196	3.0378	39.866	53.155	66.444	70.878	88.591	23.840	
12	0.1046	2.6568	34.866	46.488	58.110	61.984	77.481	20.850	
13	0.0897	2.2784	29.900	39.866	49.833	53.155	66.444	17.880	
14	0.0747	1.8974	24.900	33.200	41.499	44.266	55.333	14.890	
15	0.0673	1.7094	22.433	29.911	37.388	39.881	49.851	13.415	
16	0.0598	1.5189	19.933	26.577	33.222	35.437	44.296	11.920	
17	0.0538	1.3665	17.933	23.911	29.889	31.881	39.851	10.724	
18	0.0478	1.2141	15.933	21.244	26.555	28.326	35.407	9.528	
19	0.0418	1.0617	13.933	18.578	23.222	24.770	30.963	8.332	
20	0.0359	0.9119	11.967	15.955	19.944	21.274	26.592	7.156	
21	0.0329	0.8357	10.967	14.622	18.278	19.496	24.370	6.558	
22	0.0299	0.7595	9.967	13.289	16.611	17.718	22.148	5.960	
23	0.0269	0.6833	8.967	11.955	14.944	15.941	19.926	5.362	
24	0.0239	0.6071	7.967	10.622	13.278	14.163	17.703	4.764	
25	0.0209	0.5309	6.967	9.289	11.611	12.385	15.481	4.166	
26	0.0179	0.4547	5.967	7.955	9.944	10.607	13.259	3.568	
27	0.0164	0.4166	5.467	7.289	9.111	9.718	12.148	3.269	
28	0.0149	0.3785	4.967	6.622	8.278	8.830	11.037	2.970	
29	0.0135	0.3429	4.500	6.000	7.500	8.000	10.000	2.691	
30	0.0120	0.3048	4.000	5.333	6.667	7.111	8.889	2.392	

LÁMINA Y PLACA ANTIDERRAPANTE

Espesor		Peso teóricos			
Cálibre	pulg	3" X 8"	4" X 8"	3" X 10"	4" X 10"
1/4"	0.250	122.58	163.44	145.00	195.00
3/16"	0.188	94.82	126.43	119.00	155.00
10	0.134	74.13	98.84	79.50	105.00
1/8"	0.125	67.06	89.42		
11	0.119	64.57	86.09		
12	0.104	57.14	76.19	63.00	86.00
13	0.089	48.98	65.31		
14	0.074	40.83	54.43	49.00	64.50

*LOS PESOS PUEDEN VARIAR VS EL ESPESOR.

CARACTERÍSTICAS DE LA MALLA ELECTROSOLDADA DE FABRICACIÓN ESTÁNDAR

Tipo	Diámetro del alambre (mm)	Área de acero (cm ² /m)	Peso (kg/m ²)	Peso (kg/hoja)	Tipo de rollo
6x6 2/2	6.67	2.292	3.64	54.59	*
6x4 3/3	6.19	1.971	3.14	47.11	*
6x6 4/4	5.72	1.686	2.72	40.81	(A)
6x6 6/6	4.88	1.227	1.98	26.69	(A)
6x6 8/8	4.11	0.871	1.41	21.01	(A)
6x6 10/10	3.43	0.606	0.97	14.54	(A)
8x8 8/8	4.12	0.665	1.06	*	(A)

ALAMBRE GALVANIZADO FERRETERO

Tipo	Calibre	Diámetro (mm)	Tensión	Peso (kg/rollo)
GALVANIZADOS	10.5	3.15	55,00 - 75,000 lb/pulg ² 3,900 - 5,200 kg/cm ²	25 kg y 100 kg
	12.5	2.43		
	14.5	1.85		
	16	1.57		
PVC	10.5	3.25	55,00 - 75,000 lb/pulg ² 3,900 - 5,200 kg/cm ²	25 kg y 100 kg

PLAFÓN

Aberturas (mm)	Ancho (mt)	Calibre de la lámina	Diseño	Largo (mt)
5 X 11	0.91	26	500, 600 Y 700	22
8 X 25	0.91	26	500	22

MALLA MOSQUITERA LIGERA

Aberturas X pulg ²	Altura (cm)	Diámetro del alambre (mm)	Longitud rollos (mt)
60	0.23	30	18 X 14
75	0.23	30	18 X 14
90	0.23	30	18 X 14
105	0.23	30	18 X 14
120	0.23	30	18 X 14

MALLA MOSQUITERA GALVANIZADA REFORZADA

Aberturas X pulg ²	Altura (cm)	Diámetro del alambre (mm)	Longitud rollos (mt)
60	0.28	10 y 30	18 X 14
75	0.28	10 y 30	18 X 14
90	0.28	10 y 30	18 X 14
105	0.28	10 y 30	18 X 14
120	0.28	10 y 30	18 X 14

PANEL ESTRUCTURAL

Espesor	Largo	Ancho	Color	Uso
2"	1.22	2.44	Blanco	Muro
3"	1.22	2.44	Blanco	Muro
2"	1.22	2.44	Amarillo	Muro / Techo
3"	1.22	2.44	Amarillo	Muro / Techo
4"	1.22	2.44		

CRIBA DE GRANO DE PLATA LIGERA

Medida Comercial	Claro abertura (mm)	Diámetro del alambre (mm)	Peso apro. por rollo 30 mt (kg)	Kg Zinc por rollo 30 mt	Largo (mt)	Ancho (mt)
2 X 2	11.7	0.94	29.1	8.6	30	0.91
3 X 3	7.7	0.7	25.1	8.4	30	0.91
4 X 4	5.7	0.55	23.6	9.4	30	0.91
5 X 5	4.5	0.5	23.1	8.8	30	0.91
6 X 6	3.7	0.44	20.5	8	30	0.91
8 X 8	2.7	0.37	23.1	9.5	30	0.91

MALLA DE PÁJARO

Aberturas (mm)	Altura (mt)	Calibre	Largo (mt)
13	0.9	23	20 y 45
20	1.20, 1.50, 1.75	22	45
25	1.00, 1.50, 1.75	22	45
38	1.50, 1.75	20	45
50	1.50, 1.75	20	45

CONCERTINA COMERCIAL

Peso x rollo	Rendimiento x rollo	Calibre	Diámetro
3 kg	8 mt	24	18"

* FABRICADA ESPECIALMENTE PARA LA PROTECCIÓN EN BARDAS O CERCAS, SE UTILIZA EN RESIDENCIAS, DEPORTIVOS, AEROPUERTOS, PROTECCIÓN DE GANADO, CENTROS DE READAPTACIÓN, HOSPITALES, ESCUELAS, BODEGAS, ETC.

* ES UN PRODUCTO GALVANIZADO EN ROLLOS CON CUCHILLAS TIPO ARPÓN CON FILOS DE BISTURIL.

* PARA SU FÁCIL MANEJO Y PROTECCIÓN SE EMPACA EN CAJAS DE CARTÓN.

MALLA BORREGUERA

Altura (mm)	Calibre alambre superior e inferior	Calibre alambre intermedio	Abertura (cm)
1	11	14.5	15
1.2	11	14.5	15
1.4	11	14.5	15
1.67	11	14.5	15
2	11	14.5	15
2.5	11	14.5	15

MULTIMALLA FERRETERA

Abertura (cm)	Calibre	Altura (mt)	Largo (mt)	Acabado
5X5, 5X10	12.5	1.00, 1.22	20	Galvanizada
5X5, 5X10	14	1.00, 1.22	20	Galvanizada
7.5	10.5	1.22	20	Galvanizada
5X5	10.5	1.22	20	Galvanizada
2.5X5	14	1.00	20	Galvanizada
2.5X5	14	1.22	20	Galvanizada

MALLA CRIBA ORNAMENTAL GALVANIZADA

Abertura (mm)	Altura (mt)	Calibre	Largo (mt)	Acabado
50 X 50	1	10.5	10	Galvanizada
25 X 25	1	10.5	10	Galvanizada
38 X 38	1	10.5	10	Galvanizada

POLÍN MON-TEN

Descripción	Cal	Peso		Dimensión			Área (cm ²)	Eje X - X				Eje Y - Y			Factor Columna
		kg/ml	kg/pz	d mm	t pulg	R mm		lx cm ⁴	Sx cm ³	rx cm	ly cm ⁴	Sy cm ³	ry cm	x mm	
3" X 1 1/2"	12	3.60	21.60	19	2.66	9.5	4.54	38.5	10.1	2.9	4.16	9.56	1.45	1.51	*
3" X 1 1/2"	14	2.40	14.40	19	0.0747	6.4	3.23	28	7.22	2.92	7	2.99	1.46	14.99	0.98
3" X 1 1/2"	16	1.99	11.94	19	1.52	9.5									
4" X 2"	10	5.85	23.40	19	0.1345	6.4	7.30	113	22.15	3.93	25	7.66	1.84	18.35	1.00
4" X 2"	12	4.55	18.20	19	0.1046	6.4	5.78	91	17.86	3.96	20	6.3	1.88	18.36	0.97
4" X 2"	14	3.29	13.16	19	0.0747	6.4	4.19	67	13.22	4.00	15	4.76	1.92	18.37	0.91
4" X 2"	16	2.72	16.32	19	1.52	9.5								1.82	
5" X 2"	10	6.56	32.80	19	0.1345	6.4	8.17	192	30.25	4.85	27	7.89	1.82	16.58	0.97
5" X 2"	12	5.08	25.40	19	0.1046	6.4	6.45	154	24.29	4.89	22	6.49	1.86	16.58	0.92
5" X 2"	14	3.68	18.40	19	0.0747	6.4	4.68	114	17.90	4.93	17	4.89	1.89	16.57	0.84
6" X 2"	10	7.38	44.28	19	0.1345	6.4	9.04	298	39.12	5.74	29	8.06	1.78	15.15	0.92
6" X 2"	12	5.82	34.92	19	0.1046	6.4	7.13	239	31.31	5.79	24	6.62	1.82	15.13	0.85
6" X 2"	14	4.21	25.26	19	0.0747	6.4	5.16	175	23.00	5.83	18	4.99	1.86	15.11	0.77
6" X 2 1/2"	10	7.95	47.70	19	0.1345	6.4	9.90	346	45.44	5.91	50	11.54	2.25	19.89	0.93
6" X 2 1/2"	12	6.18	37.08	19	0.1046	6.4	7.80	276	36.27	5.95	41	9.39	2.29	19.90	0.87
6" X 2 1/2"	14	4.46	26.76	19	0.0747	6.4	5.64	203	26.54	5.99	31	7.02	2.33	19.90	0.79
7" X 2 3/4"	10	9.00	63.00	22	0.1345	6.4	11.41	542	60.94	6.89	72	14.89	2.51	21.62	0.88
7" X 2 3/4"	12	6.99	48.93	19	0.1046	6.4	8.81	424	47.64	6.93	55	11.12	2.49	20.76	0.82
7" X 2 3/4"	14	5.04	35.28	19	0.0747	6.4	6.36	309	34.37	6.97	41	8.27	2.53	20.76	0.74
8" X 2 3/4"	10	9.82	78.56	22	0.1345	6.4	12.28	744	73.19	7.78	75	15.11	2.47	20.21	0.83
8" X 2 3/4"	12	7.72	61.76	19	0.1046	6.4	9.49	580	57.10	7.82	57	11.28	2.45	19.38	0.77
8" X 2 3/4"	14	5.57	44.56	19	0.0747	6.4	6.85	423	41.16	7.86	42	8.39	2.49	19.37	0.69

FABRICAMOS POLÍN A MEDIDAS ESPECIALES.

NOTAS:

- * PESOS TÈORICOS CALCULADOS SEGÙN PERALTE DEL POLÍN.
- * POLÍN DE 3" CALCULADO A 6 MTS.
- * POLÍN DE 4" SE SURTE TAMBIÈN EN 4, 5 Y 6 MTS.
- * POLÍN DE 5" SE SURTE TAMBIÈN EN 5 Y 6 MTS.

POLÍN MON-TEN

Descripción	Cal	Peso		Dimensión			Área (cm ²)	Eje X - X			Eje Y - Y			Factor Columna	
		kg/ml	kg/pz	d mm	t pulg	R mm		lx cm ⁴	Sx cm ³	rx cm	ly cm ⁴	Sy cm ³	r cm		x mm
8" X 3"	10	10.14	81.12	22	0.1345	6.4	12.71	787	77.45	7.87	93	17.34	2.71	22.53	0.84
8" X 3"	12	7.89	63.12	22	0.1046	6.4	9.98	625	61.47	7.91	75	14.00	2.74	22.52	0.78
8" X 3"	14	5.63	45.04	19	0.0747	6.4	7.09	448	42.80	7.95	52	9.62	2.72	21.67	0.69
9" X 2 3/4"	10	10.52	94.68	22	0.1345	6.4	13.15	985	86.18	8.66	78	15.29	2.43	18.99	0.79
9" X 2 3/4"	12	8.26	74.34	19	0.1046	6.4	10.16	767	67.14	8.69	59	11.42	2.41	18.18	0.72
9" X 2 3/4"	14	5.96	53.64	19	0.0747	6.4	7.33	559	48.36	8.73	44	8.49	2.45	18.16	0.65
9" X 3 1/2"	10	11.78	106.02	25	0.1345	6.4	14.65	1167	102.10	8.92	150	24.02	3.19	26.65	0.81
9" X 3 1/2"	12	9.12	82.08	22	0.1046	6.4	11.33	911	79.09	8.96	114	18.07	3.17	25.79	0.75
9" X 3 1/2"	14	6.56	59.04	19	0.0747	6.4	8.05	652	53.19	9.00	80	12.45	3.15	24.91	0.63
10" X 2 3/4"	10	11.22	112.20	22	0.1345	6.4	14.01	1269	99.92	9.52	80	15.44	2.39	17.92	0.75
10" X 2 3/4"	12	8.80	88.00	19	0.1046	6.4	10.84	987	77.75	9.55	61	11.53	2.37	17.13	0.68
10" X 2 3/4"	14	6.34	63.40	19	0.0747	6.4	7.81	719	55.97	9.59	45	8.58	2.41	17.09	0.61
10" X 3 1/2"	10	12.37	123.70	25	0.1345	6.4	15.52	1495	117.74	9.82	155	24.29	3.16	25.26	0.77
10" X 3 1/2"	12	9.62	96.20	22	0.1046	6.4	12.01	1165	91.12	9.85	118	18.28	3.13	24.42	0.71
10" X 3 1/2"	14	6.87	68.70	19	0.0747	6.4	8.53	833	61.37	9.88	82	12.59	3.11	23.55	0.60
12" X 3 1/2"	10	13.74	137.40	25	0.1345	6.4	17.26	2308	151.37	11.56	163	24.73	3.08	22.88	0.71
12" X 3 1/2"	12	10.64	106.40	22	0.1046	6.4	13.36	1796	117.02	11.59	124	18.61	3.05	22.07	0.64
12" X 3 1/2"	14	7.57	75.70	19	0.0747	6.4	9.50	1282	79.06	11.62	87	12.82	3.02	21.25	0.54

FABRICAMOS POLÍN A MEDIDAS ESPECIALES.

NOTAS:

* PESOS TEÓRICOS CALCULADOS SEGÚN PERALTE DEL POLÍN.

* POLÍN DE 3" CALCULADO A 6 MTS.

* POLÍN DE 4" SE SURTE TAMBIÉN EN 4, 5 Y 6 MTS.

* POLÍN DE 5" SE SURTE TAMBIÉN EN 5 Y 6 MTS.

PLACA

Dimensiones		Peso (kg) Espesor																						
		3"	2 1/2"	2 1/4"	2"	1 3/4"	1 5/8"	1 1/2"	1 3/8"	1 1/4"	1 1/8"	1"	7/8"	3/4"	11/16"	5/8"	9/16"	1/2"	7/16"	3/8"	5/16"	1/4"	3/16"	
pies	metros	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3x10	0.914 x 3.05																							
3x20	0.914 x 6.10																							
4x10	1.22 x 3.05																							
4x20	1.22 x 6.10																							
5x10	1.52 x 3.05	2809	2341	2107	1873	1638	1521	1404	1287	1170	1053	936	819	702	643	585	526	468	409	351	293	234	176	106
5x20	1.52 x 6.10	5617	4681	4213	3745	3276	3042	2808	2574	2340	2106	1872	1638	1404	1286	1170	1052	936	818	702	585	468	352	211
6x10	1.83 x 3.05	3370	2809	2528	2247	1966	1826	1685	1545	1404	1264	1124	983	843	772	702	632	562	491	421	351	281	211	
6x20	1.83 x 6.10	6740	5617	5055	4494	3932	3651	3370	3089	2808	2528	2247	1966	1685	1543	1404	1263	1123	982	842	702	562	422	
7x10	2.14 x 3.05	3932	3277	2949	2621	2294	2130	1966	1802	1639	1475	1311	1147	983	901	819	737	656	573	469	409	328	246	
7x20	2.14 x 6.10	7864	6553	5898	5242	4587	4259	3932	3604	3277	2949	2621	2294	1966	1801	1638	1473	1311	1146	938	818	655	492	
8x10	2.44 x 3.05	4494	3745	3370	2996	2621	2434	2247	2060	1873	1685	1498	1311	1124	1029	896	842	749	655	562	468	375	281	
8x20	2.44 x 6.10	8987	7489	6740	5991	5242	4868	4493	4119	3745	3370	2996	2621	2247	2056	1872	1684	1498	1310	1123	935	749	562	
10x20	3.05 x 6.10	11234	9361	8424	7489	6553	6085	5617	5149	4681	4213	3745	3276	2808	2572	2340	2105	1872	1637	1404	1169	936	703	

MEDIDAS Y PESOS TEÓRICOS PTR RECTANGULAR

Dimensiones pulgadas (mm)	Color	Espesor			Peso		Longitud 6.10 mt	
		cal	pulg	mm	kg/mt	kg/pza	pzas/paq	kg/paq
1" x 1" (25.4 x 25.4)	Azul	14	0.075	1.90	1.46	8.91	96	855
	Naranja	12	0.105	2.70	1.99	12.14	96	1165
	Blanco	11	0.120	3.00	2.24	13.66	96	1311
	Verde	10	0.135	3.40	2.49	15.19	96	1458
1 1/4" x 1 1/4" (31.75 x 31.75)	Azul	14	0.075	1.90	1.87	11.41	80	912
	Naranja	12	0.105	2.70	2.57	15.68	80	1254
	Blanco	10	0.135	3.40	3.20	19.52	80	1561
	Verde	16	0.060	1.524	1.48	9.01	100	901
1 1/2" x 1 1/2" (38.1 x 38.1)	Azul	14	0.075	1.90	2.27	13.85	64	886
	Naranja	12	0.105	2.70	3.12	19.03	64	1219
	Blanco	11	0.120	3.00	3.50	21.35	64	1366
	Verde	10	0.135	3.40	3.91	23.85	64	1526
3/16" x 3/16" (4.8 x 4.8) 2" x 2" (50.8 x 50.8) 1/4" x 1/4" (6.35 x 6.35)	Azul	14	0.075	1.90	3.02	18.42	54	995
	Naranja	12	0.105	2.70	4.18	25.50	54	1376
	Blanco	11	0.120	3.00	4.75	28.98	54	1564
	Verde	10	0.135	3.40	5.31	32.39	54	1748
2 1/2" x 2 1/2" (64 x 64) 1/4" x 1/4" (6.35 x 6.35)	Azul	14	0.075	1.90	3.80	23.18	36	834
	Naranja	12	0.105	2.70	5.27	32.15	36	1157
	Blanco	11	0.120	3.00	5.80	35.38	36	1273
	Verde	10	0.135	3.40	6.17	37.64	36	1354
		9	0.148	3.80	6.75	41.18	36	1481
		8	0.165	4.20	7.44	45.38	36	1633
	Rojo	3/16"	0.188	4.80	8.31	50.69	36	1824
3" x 3" (76 x 76) 1/4" x 1/4" (6.35 x 6.35)	Azul	14	0.075	1.90	4.35	26.54	30	793
	Blanco	11	0.120	3.00	7.06	43.07	30	1291
		10	0.135	3.40	7.54	45.99	30	1379
	Verde	9	0.148	3.80	8.25	50.33	30	1509
		8	0.165	4.20	9.10	55.51	30	1664
	Rojo	3/16"	0.188	4.80	10.21	62.28	30	1967
3 1/2" x 3 1/2" (89 x 89)	Azul	14	0.075	1.90	5.11	31.17	20	623
	Blanco	11	0.120	3.00	8.32	50.75	20	1014
		10	0.135	3.40	8.89	54.23	20	1084
	Verde	9	0.148	3.80	9.73	59.35	20	1186
		8	0.165	4.20	10.76	65.64	20	1312
	Rojo	3/16"	0.188	4.80	12.11	73.87	20	1476
		5	0.220	5.70	13.97	85.22	20	1703
4" x 4" (102 x 102)	Azul	14	0.075	1.90	5.87	35.81	20	716
	Blanco	11	0.120	3.00	9.60	58.56	20	1170
		10	0.135	3.40	10.24	62.46	20	1248
	Verde	9	0.148	3.80	11.24	68.56	20	1370
		8	0.165	4.20	12.44	75.88	20	1517
	Rojo	3/16"	0.188	4.80	14.00	85.40	20	1707
		5	0.220	5.70	16.19	98.76	20	1974
4 1/2" x 4 1/2" (114 x 114)	Azul	14	0.075	1.90	6.63	40.44	16	647
	Blanco	11	0.120	3.00	10.24	62.46	16	999
		10	0.135	3.40	11.52	70.27	16	1124
	Verde	9	0.148	3.80	13.02	79.42	16	1270
		8	0.165	4.20	14.03	85.58	16	1368
	Rojo	3/16"	0.188	4.80	15.90	96.99	16	1551
		5	0.220	5.70	18.40	112.24	16	1795
	Azul	1/4"	0.250	6.40	20.67	126.09	16	2016
5" x 5" (127 x 127)	Azul	14	0.075	1.90	7.39	45.08	9	405
	Blanco	11	0.120	3.00	12.13	73.99	9	666
		10	0.135	3.40	13.18	80.40	9	723
	Verde	9	0.148	3.80	14.22	86.74	9	780
		8	0.165	4.20	16.13	98.39	9	885
	Rojo	3/16"	0.188	4.80	17.79	108.52	9	976
		5	0.220	5.70	20.66	126.03	9	1133
	Azul	1/4"	0.250	6.40	23.21	141.58	9	1273

MEDIDAS Y PESOS TEÓRICOS PTR RECTANGULAR

Dimensiones pulgadas (mm)	Color	Espesor			Peso		Longitud 6.10 mt		
		cal	pulg	mm	kg/mt	kg/pza	pzas/paq	kg/paq	
2" x 1" (50.8 x 25.4)	Azul	14	0.075	1.90	2.40	14.64	72	1054	
	Azul	14	0.075	1.90	3.01	18.36	80	1468	
2 1/2" x 1 1/2" (64 x 38.1)	Naranja	12	0.105	2.70	4.16	25.38	80	2029	
	Azul	14	0.075	1.90	3.38	20.62	40	825	
3" x 1 1/2" (76.2 x 38.1)	Azul	14	0.075	1.90	3.38	20.62	40	825	
	Azul	14	0.075	1.90	3.80	23.18	36	834	
3" x 2" (76 x 50.8)	Naranja	12	0.105	2.70	5.27	32.15	36	1157	
	Blanco	11	0.120	3.00	5.80	35.38	36	1273	
	Verde	10	0.135	3.40	6.17	37.64	36	1354	
		9	0.148	3.80	6.75	41.18	36	1481	
		8	0.165	4.20	7.44	45.38	36	1633	
		Rojo	3/16"	0.188	4.80	8.31	50.69	36	1824
		Azul	14	0.075	1.90	4.17	25.44	96	2441
4" x 1 1/2" (101.6 x 38.1)	Azul	14	0.075	1.90	4.17	25.44	96	2441	
		14	0.075	1.90	4.35	26.54	30	793	
	Blanco	11	0.120	3.00	7.06	43.07	30	1291	
		10	0.135	3.40	7.54	45.99	30	1379	
	Verde	9	0.148	3.80	8.25	50.33	30	1509	
		8	0.165	4.20	9.10	55.51	30	1664	
		Rojo	3/16"	0.188	4.80	10.21	62.28	30	1967
4" x 3" (102 x 76)		14	0.075	1.90	5.11	31.17	20	623	
	Blanco	11	0.120	3.00	8.32	50.75	20	1014	
		10	0.135	3.40	8.89	54.23	20	1084	
	Verde	9	0.148	3.80	9.73	59.35	20	1186	
		8	0.165	4.20	10.76	65.64	20	1312	
	Rojo	3/16"	0.188	4.80	12.11	73.87	20	1476	
		5	0.220	5.70	13.97	85.22	20	1703	
	Azul	1/4"	0.250	6.40	15.62	95.28	20	1904	
5" x 3" (127 x 76)		14	0.075	1.90	5.87	35.81	20	716	
	Blanco	11	0.120	3.00	9.60	58.56	20	1170	
		10	0.135	3.40	10.24	62.46	20	1248	
	Verde	9	0.148	3.80	11.24	68.56	20	1370	
		8	0.165	4.20	12.24	75.88	20	1517	
	Rojo	3/16"	0.188	4.80	14.00	85.40	20	1707	
		5	0.220	5.70	16.19	98.76	20	1974	
	Azul	1/4"	0.250	6.40	18.15	110.72	20	2213	
6" x 3" (152 x 76)		14	0.075	1.90	6.63	40.44	16	647	
	Blanco	11	0.120	3.00	10.24	62.46	16	999	
		10	0.135	3.40	11.52	70.27	16	1124	
	Verde	9	0.148	3.80	13.02	79.42	16	1270	
		8	0.165	4.20	14.03	85.58	16	1368	
	Rojo	3/16"	0.188	4.80	15.90	96.99	16	1551	
		5	0.220	5.70	18.40	112.24	16	1795	
	Azul	1/4"	0.250	6.40	20.67	126.09	16	2016	
6" x 4" (152 x 102)		14	0.075	1.90	7.39	45.08	9	405	
	Blanco	11	0.120	3.00	12.13	73.99	9	666	
		10	0.135	3.40	13.18	80.40	9	723	
	Verde	9	0.148	3.80	14.22	86.74	9	780	
		8	0.165	4.20	16.13	98.39	9	885	
	Rojo	3/16"	0.188	4.80	17.79	108.52	9	976	
		5	0.220	5.70	20.66	126.03	9	1133	
	Azul	1/4"	0.250	6.40	23.21	141.58	9	1273	

NOTAS:

* TODAS LAS MEDIDAS SE FABRICAN CON ACERO DE CALIDAD COMERCIAL.

* MEDIDAS MAYORES DE 2" Y CALIBRES MÁS GROSOS QUE CALIBRE 12 SE OFRECEN EN ESPECIFICACIÓN ASTM A-500 GRADO B.

SOLERA COMERCIAL

Dimensiones				Peso (kg/m)	
pulgadas		milímetros		kg/mt	kg/pza
Espesor	Ancho	Espesor	Ancho		
1/8"	1/2"	3.2	12.7	0.32	1.92
	3/4"		19.1	0.47	2.82
	1"		25.4	0.63	3.78
	1 1/4"		31.8	0.79	4.74
	1 1/2"		38.1	0.95	5.70
3/16"	2"	4.8	50.8	1.27	7.62
	1/2"		12.7	0.47	2.82
	3/4"		19.0	0.71	4.26
	1"		25.4	0.95	5.70
	1 1/4"		31.8	1.19	7.14
1/4"	1 1/2"	6.3	38.1	1.42	8.52
	2"		50.8	1.90	11.40
	1/2"		12.7	0.63	3.78
	3/4"		19.0	0.95	5.70
	1"		25.4	1.27	7.62
	1 1/4"		31.8	1.58	9.48
	1 1/2"		38.1	1.90	11.40
	2"		50.8	2.53	15.18
	2 1/2"		63.5	3.17	19.02
5/16"	3"	7.9	76.2	3.80	23.18
	3 1/2"		88.9	4.43	26.58
	4"		101.6	5.06	30.87
	2"		50.8	3.17	19.02
	2 1/2"		63.5	3.96	23.76
3/8"	3"	9.5	76.2	4.75	28.50
	3 1/2"		88.9	6.67	40.64
	4"		101.6	7.60	45.60
	6"		152.4	11.36	69.29
	1 1/2"		38.1	2.85	17.10
	2"		50.8	3.80	22.80
1/2"	2 1/2"	12.7	63.5	4.75	28.50
	3"		76.2	5.70	34.20
	3 1/2"		88.9	6.67	40.64
	4"		101.6	7.60	45.60
	6"		152.4	15.18	92.59
	2"		50.8	5.06	30.36
5/8"	2 1/2"	15.9	63.5	6.33	38.70
	3"		76.2	7.60	45.60
	3 1/2"		88.9	8.86	53.16
	4"		101.6	10.13	61.78
3/4"	6"	19.0	152.4	15.18	92.59
	3"		76.2	11.40	69.40
	3 1/2"		88.9	13.33	81.32
	4"		101.6	15.19	92.67
	6"		152.4	22.76	138.83
1"	8"	25.4	203.2	30.47	185.88
	3"		76.2	15.19	91.14
	4"		101.6	20.26	121.56
	6"		152.4	30.35	185.13
	8"		203.2	40.63	247.84

TUBO CÉDULA 30

Cédula	Diámetro Nominal		Diámetro Ext.	Espesor			Peso	Longitud 6.00 mt		6.00 mt	6.00 mt
	pulg	mm	pulg	Calibre	pulg	mm	kg/m	pzas/paq	kg/paq	kgs/pza	kgs/pza
30	1/2"	12.7	0.840	14	0.075	1.90	0.91	127	736	5.46	5.55
	3/4"	19.0	1.050	14	0.075	1.90	1.16	91	675	6.96	7.08
	1"	25.0	1.315	14	0.075	1.90	1.56	91	857	9.36	9.52
	1 1/4"	32.0	1.660	13	0.090	2.30	2.35	61	865	14.10	14.34
	1 1/2"	38.0	1.900	13	0.090	2.30	2.71	61	997	16.26	16.53
	2"	51.0	2.375	12	0.105	2.70	3.96	61	1457	23.76	24.16
	2 1/2"	64.0	2.875	12	0.105	2.70	4.84	37	1080	29.04	29.52
	3"	76.0	3.500	11	0.120	3.00	6.75	24	978	40.50	41.18
	4"	102.0	4.500	11	0.120	3.00	8.74	19	1002	52.44	53.31

TUBO CÉDULA 40

Cédula	Diámetro Nominal		Diámetro Ext.	Espesor			Peso	Longitud 6.40 mt		
	pulg	mm	pulg	Calibre	pulg	mm	kg/m	pzas/paq	kg/paq	kg/pzas
40	1/2"	12.7	0.840	12	0.105	2.70	1.27	127	1041	8.13
	3/4"	19.0	1.050	12	0.105	2.70	1.68	91	973	10.75
	1"	25.0	1.315	10	0.135	3.40	2.65	91	1544	16.96
	1 1/4"	32.0	1.660	10	0.135	3.40	3.49	61	1363	22.34
	1 1/2"	38.0	1.900	9	0.148	3.80	4.37	61	1709	27.97
	2"	51.0	2.375	9	0.148	3.80	5.55	61	2167	32.52
	2 1/2"	64.0	2.875	3/16"	0.188	4.80	8.43	37	1997	53.95
	3"	76.0	3.500	5	0.220	5.70	12.25	24	1882	78.40
	4"	102.0	4.500	5	0.220	5.70	15.98	19	1944	102.27
	6"	168.0	6.625		0.280	7.10	29.65	7	1329	189.76

TUBERÍA PARA CONDUCCIÓN DE FLUIDOS

Diámetro Nominal	Diámetro Externo		Espesor		CED. No.	kg/m	kgs./pza	Presión de Prueba ASTM-120		Presión de Prueba ASTM-53	
	pulg	mm	pulg	mm				lbs./pulg ²	kg/cm ²	lbs./pulg ²	kg/cm ²
1/2"	13	0.840	21.3	2.77	40	1.27	8.13	700	50	700	50
	13	0.840	21.3	3.73	80	1.62	10.37	850	60	850	60
3/4"	19	1.050	26.7	2.87	40	1.69	10.82	700	50	700	50
	19	1.050	26.7	3.38	80	2.20	14.08	850	60	850	60
1"	25	1.315	33.4	3.38	40	2.50	16.00	700	50	700	50
	25	1.315	33.4	4.55	80	3.24	20.74	850	60	850	60
1 1/4"	32	1.660	42.2	3.56	40	3.39	21.70	1000	70	1200	85
	32	1.660	42.2	4.85	80	4.47	28.61	1500	105	1800	127
1 1/2"	38	1.900	48.3	3.68	40	4.05	25.92	1000	70	1200	85
	38	1.900	48.3	5.08	80	5.41	34.62	1500	105	1800	127
2"	50	2.375	60.3	3.91	40	5.44	34.82	1000	70	2300	162
	50	2.375	60.3	5.54	80	7.48	47.87	1500	105	2500	176
2 1/2"	64	2.875	73.0	5.16	40	8.63	55.23	1000	70	2500	176
	64	2.875	73.0	4.06	X	6.90	44.16	1000	70	1950	137
3"	76	3.500	88.9	5.49	40	11.29	72.26	1000	70	2220	156
	76	3.500	88.9	4.32	X	9.00	57.60	1000	70	1930	136
4"	102	4.500	114.3	6.02	40	16.05	102.72	1200	85	1900	134
	102	4.500	114.3	4.78	X	12.91	82.62	1000	70	1500	105

TUBO ESTRUCTURAL LONGITUD ESTÁNDAR 12.20 MT

Diámetro Nominal	Espesor de Pared		Cédula	Peso (kg/m)	
6"	3/16"	0.188	40	19.35	
	1/4"	0.250		25.55	
		0.280		28.22	
	3/8"	0.375		37.20	
	1/2"	0.500		48.73	
8"	3/16"	0.188	20	25.37	
	1/4"	0.250		33.57	
		0.277	30	36.51	
	5/16"	0.312	40	41.14	
		0.322		42.65	
	3/8"	0.375		49.10	
		0.438	80	56.94	
1/2"	0.500	64.64			
10"	3/16"	0.188	60	31.76	
	1/4"	0.250		20	42.09
		0.307		30	51.03
		0.365		40	60.50
		0.500		60	81.55
12"	3/16"	0.188	40	37.77	
	1/4"	0.250		20	50.11
		0.330		30	65.35
		0.406		40	79.65
	1/2"	0.500			97.46
14"	3/16"	0.188	40	41.52	
	1/4"	0.250		10	55.11
	5/16"	0.312		20	67.74
	3/8"	0.375		30	81.08
		0.438		40	94.30
	1/2"	0.500			107.39
16"	3/16"	0.188	40	47.54	
	1/4"	0.250		10	63.13
	5/16"	0.312		20	77.63
	3/8"	0.375		30	92.98
	1/2"	0.500		40	123.30
18"	1/4"	0.250	40	71.12	
	3/8"	0.375		104.84	
	1/2"	0.500		139.15	
20"	1/4"	0.250	40	79.16	
	3/8"	0.375		20	116.78
	1/2"	0.500		30	155.12
24"	1/4"	0.250	40	94.53	
	3/8"	0.375		20	141.12
	1/2"	0.500			187.06

NOTAS:

* LA TUBERÍA PARA USO ESTRUCTURAL SE FABRICA BAJO LAS NORMAS
 ASTM A-120, ASTM A-53 Y API 5L GR. B Y X-42.

PERFILES TUBULARES

Denominación	Problemasa Pint./Galv	Regioyifesa Pint./Galv	Arco Metal Pint./Galv	Imasa Mex Galvanizado	Peso (largo std. 6.0 m)				Atados pzas/paq	Atados 18 (kg/paq)
					18 (kg/m)	18 (kg/pza)	20 (kg/m)	20 (kg/pza)		
Tubular 1/2" x 1/2"	C050	212	AC050	ZC050	0.47	2.82	0.35	2.10	20	56.4
Tubular 3/4" x 3/4"	C075	210	AC075	ZC075	0.67	4.02	0.53	3.18	20	80.4
Tubular 1" x 1"	C100	121	AC100	ZC100	0.93	5.58	0.72	4.32	20	111.6
Tubular 1 1/4" x 1 1/4"	C125	208	AC125	ZC125	1.21	7.26	0.91	5.46	10	72.6
Tubular 1 1/2" x 1 1/2"	C150	207	AC150	ZC150	1.47	8.82	1.10	6.60	10	88.2
Tubular 1 3/4" x 1 3/4"	C175	230	AC175	ZC175	1.71	10.26	1.28	7.68	1	10.3
Tubular 2" x 2"	C200	307	AC200	ZC200	1.95	11.70	1.46	8.76	8	93.6
Tubular 1/2" x 3/8"	R050	*	*	*	0.38	2.28			20	45.6
Tubular 1" x 1/2"	R100	215	AR100	ZR100	0.70	4.20	0.53	3.18	20	84.0
Tubular 1 1/4" x 3/4"	R125	228	AR125	ZR125	0.96	5.76	0.72	4.32	10	57.6
Tubular 1 1/2" x 1/2"	*	128	*	*	0.94	5.64			100	564.0
Tubular 1 1/2" x 1"	*	229	AR229	*	1.20	7.20			100	720.0
Tubular 1 3/4" x 3/4"	R175	230	AR175	ZR175	1.20	7.20	0.92	5.52	10	72.0
Tubular 2" x 1"	R200	216	AR200	ZR200	1.47	8.82	1.11	6.66	8	70.6
Tubular 2 1/4" x 3/4"	R225	209	AR225	ZR225	1.47	8.82	1.10	6.60	10	88.2
Tubular 2 1/2" x 1 1/4"	R249	241	AR249	ZR249	1.86	11.16	1.39	8.34	8	89.3
Tubular 2 1/2" x 1 1/2"	R250	368	AR250	ZR250	1.95	11.70	1.46	8.76	1	11.7
Tubular 3" x 1 1/4"	*	223	*	*	2.00	12.00	1.45	8.70	50	600.0
Tubular 3" x 1 1/2"	R300	322	AR300	ZR300	2.12	12.72	1.60	9.60	6	76.3
Tubular 4" x 1 1/2"	R400	422	AR400	ZR400	2.70	16.20	2.00	12.00	4	64.8

* EL TUBULAR SE MANEJA EN CALIBRE 18 O CALIBRE 20.

(*) PRODUCTOS CON ASTERISCO NO LOS FABRICA DICHOS PROVEEDOR.

* EL TABLERO SE FABRICA EN LARGO CONTINUAR O ANCHO CONTINUAR (ACANALADO A LO LARGO O ANCHO).

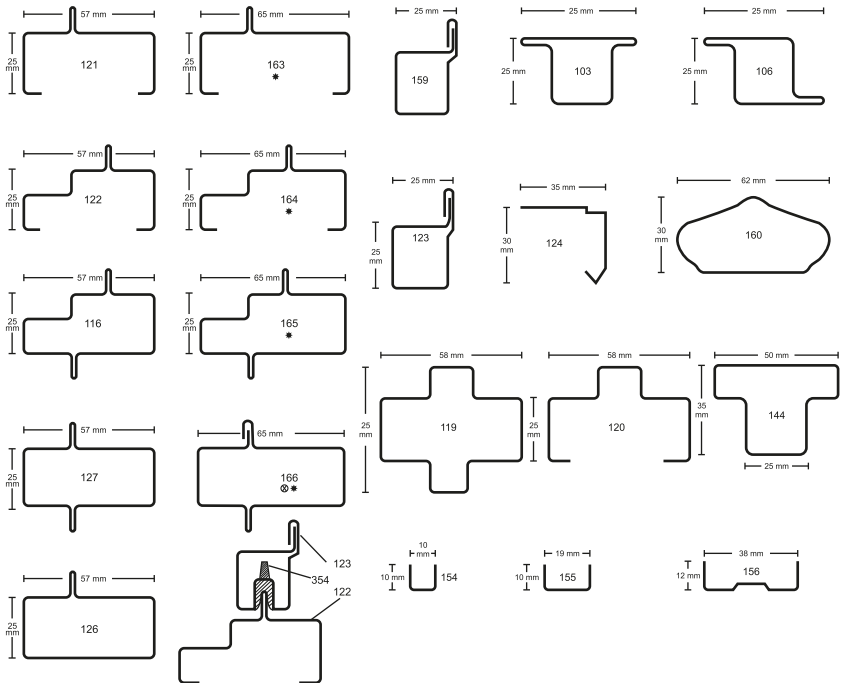
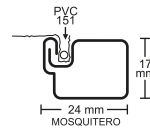
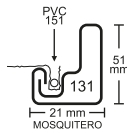
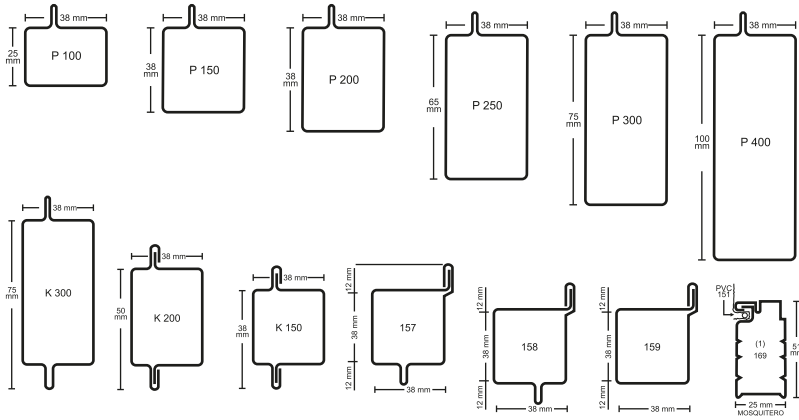
PERFILES TUBULARES

Denominación	Prolamsa Pint./Galv	Regiopytsa Pint./Galv	Arco Metal Pint./Galv	Imsa Mex Galvanizado	Peso (largo std. 6.0 m)				Atados	
					18 (kg/m)	18 (kg/pza)	20 (kg/m)	20 (kg/pza)	pzas/paq	18 (kg/paq)
Tubular R25	P100	236	AP100	ZP100	1.40	8.40	1.01	6.06	8	67.2
Tubular R40	P150	234	AP150	ZP150	1.61	9.66	1.23	7.38	8	77.3
Tubular R50	P200	261	AP200	ZP200	1.90	11.40	1.41	8.46	8	91.2
Tubular R60	P250	268	AP250	ZP250	2.10	12.60	1.58	9.48	6	75.6
Tubular R75	P300	310	AP300	ZP300	2.35	14.10	1.73	10.38	6	84.6
Tubular R100	P400	410	AP400	ZP400	2.81	16.86	2.11	12.66	4	67.4
Tubular MH25	*	237	AK100	*	1.50	9.00	1.16	6.96	100	900.0
Tubular MH40	K150	235	AK150	ZP015	1.90	11.40	1.34	8.04	9	102.6
Tubular MH50	K200	238	AK200	ZP020	2.40	14.40	1.71	10.26	10	144.0
Tubular MH75	K300	239	AK300	ZP030	2.61	15.66	1.91	11.46	10	156.6
Tubular T40 E	159	301	A159	*	1.80	10.80	1.40	8.40	6	64.8
Tubular 121	121	204	A121	ZV121	1.40	8.40	0.95	5.70	8	67.2
Tubular 126	126	243	AP126	ZV126	1.80	10.80	1.31	7.86	8	86.4
Tubular 127	127	242	AK127	ZV127	1.91	11.46	1.51	9.06	5	57.3
Tubular RL	101	201	A101	ZV101	1.30	7.80	0.91	5.46	10	78.0
Tubular RL CORR	123	205	A123	ZV123	1.40	8.40	1.04	6.24	10	84.0
Tubular RL MOSQ	131	101	*	ZV131			0.67	4.02	20	80.4
Tubular ML	103	219	A103	ZV103	1.50	9.00	1.07	6.42	10	90.0
Tubular ZETA	106	233	A106	ZV106	1.50	9.00	1.01	6.06	10	90.0
Tubular TEE	144	224	A144	ZV144	1.61	9.66	1.21	7.26	20	193.2
Tubular Junquillo 3/8	154	114	A154	ZV154	0.25	1.50	0.20	1.20	50	75.0
Tubular Junquillo 3/4	155	117	*	*			0.30	1.80	50	90.0
Tubular Pasamanos	160	225	A160	pasamanos	1.50	9.00	1.12	6.72	10	90.0
Tubular Riel 1400	1400	127	A1400	ZP1400			1.22	7.32	4	29.3
Tubular Riel 1500	1500	227	A1500	ZP1500	3.00	18.00		15.00	4	72.0
Tubular Zercha	*	*	A30		0.46	2.76	2.50		50	138.0
Tubular D60	171	131	A171	ZD171			0.90	5.40	10	54.0
Tubular DD60	170	132	A170	ZD170			1.60	9.60	10	96.0
Tubular Tablero 3x3 pies	149	149	Tab C CH	ZT149			6.70	6.06	25	1005.0
Tubular Tablero 3x6 pies	149	149	Tab C CH	ZT150			6.70	12.26	25	1005.0
Tubular Tablero 3x8 pies	149	149	Tab C CH	ZT151			6.70	16.34	25	1005.0
Tubular Tablero 3x10 pies	149	149	Tab C CH	ZT152	1.40	8.40	6.70	20.43	25	1005.0
Tubular M225	M225	112	A129	ZM225	2.10	12.60	1.10	6.60	8	67.2
Tubular Jamba lados desiguales	M525	145	A167	ZM225	2.30	13.80	1.60	9.60	7	88.2
Tubular Jamba lados iguales	M600	146	A130	*					7	96.6

* EL TUBULAR SE MANEJA EN CALIBRE 18 O CALIBRE 20.

(*) PRODUCTOS CON ASTERISCO NO LOS FABRICA DICHO PROVEEDOR.

EL TABLERO SE FABRICA EN LARGO CONTINUAR O ANCHO CONTINUAR (ACANALADO A LO LARGO O ANCHO).



VARILLA CORRUGADA ALTA RESISTENCIA

No.	Diámetro Nominal		Área Nominal		Peso Unitario			Perímetro	pzs x tonelada largo std 12 mt
	mm	pulg	mm ²	pulg ²	kg/m	kg/pz	lb/pie		
2.5	7.9	5/16"	49	0.08	0.384	4.608	0.261	24.8	217
3	9.5	3/8"	71	0.11	0.557	6.684	0.376	29.8	150
4	12.7	1/2"	127	0.20	0.996	11.952	0.668	39.9	84
5	15.9	5/8"	199	0.31	1.560	18.720	1.043	50.0	53
6	19.1	3/4"	287	0.44	2.250	27.000	1.502	60.0	37
7	22.2	7/8"	387	0.60	3.034	36.408	2.044	39.7	27
8	25.4	1"	507	0.79	3.975	47.700	2.670	79.8	21
9	28.6	1 1/8"	642	0.99	5.033	60.396	3.381	89.8	17
10	31.8	1 1/4"	794	1.23	6.225	74.700	4.172	99.9	13
11	34.9	1 3/8"	957	1.48	7.503	90.036	5.049	109.6	11
12	38.1	1 1/2"	1140	1.77	8.938	107.260	6.008	119.7	9

* VARILLA CORRUGADA GRADO 42 ASTM A-615
 * LIMITE DE FLUENCIA MINIMA 4200 KG/CM2
 * RESISTENCIA A LA TENSION MINIMA 5300/CM2

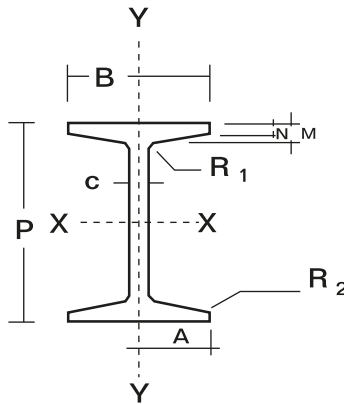
VARILLA CORRUGADA G-6000

No.	Diámetro Nominal		Área Nominal		Peso Unitario			Fuerza Aplicable (kg)	pzs x tonelada largo std 6 mt
	mm	pulg	mm ²	pulg ²	kg/m	kg/pz	lb/pie		
	7.94	5/16"	49.5	0.08	0.388	2.33	0.26	2970	421
	6.35	1/4"	31.7	0.05	0.248	1.49	0.16	1900	672
	4.76	3/16"	17.8	0.03	0.14	0.84	0.91	1069	1151
	3.97	5/32"	12.4	0.02	0.097	0.58	0.61	742	1661

* VARILLA CORRUGADA GRADO 6000
 * LIMITE DE FLUENCIA MINIMA 6000 KG/CM2

VIGA I.P.S.

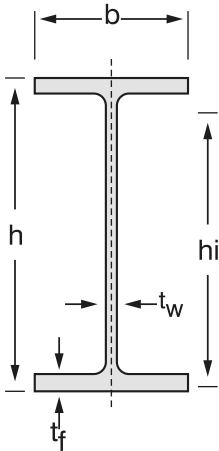
Peralte		Peso	Área	Eje X-X			Eje Y-Y			
mm	pulg			kg/m	cm2	l	r	s	l	r
				cm4	cm	cm3	cm4	cm	cm3	
76.2	3	8.49	10.52	103.30	3.12	27.1	19.1	1.35	6.5	
100.0	4L	8.34	10.60	171.00	4.01	34.2	12.2	1.07	4.8	
101.6	4	11.46	14.26	249.30	4.17	48.9	32.1	1.50	9.5	
127.0	5	14.88	18.52	503.30	5.21	79.3	52.1	1.65	13.4	
152.4	6	18.60	23.29	906.80	6.25	119.0	77.0	1.83	18.2	
177.8	7	22.78	28.90	1506.80	7.26	169.5	112.3	1.98	24.2	
203.2	8	27.38	34.39	2367.20	8.31	233.0	157.3	2.13	31	



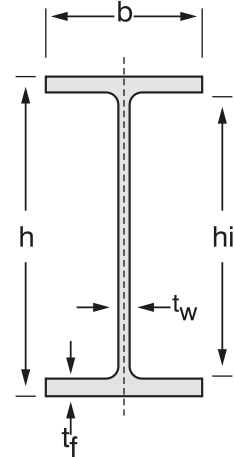
DATOS PARA DETALLAR

Peralte de la viga	Peso	Peso			Alma		Distancia				Gra Mil	Diámetro máximo de los remaches o tornillos		
		Ancho	Espesor	Espesor	Medio Espesor	Tangente	F		E	F			A	G
		B	D	C	C/2	T	mm	mm	mm	mm			mm	mm
mm	kg/m	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
76.2	8.5	59.0	6.6	4.3	2.0	45.0	15.5	38.0	12.0	27.0	36.0	9.5		
101.6	11.5	68.0	7.4	4.8	3.0	70.0	16.0	50.0	13.0	32.0	38.0	12.7		
127.0	14.9	76.0	8.3	5.3	3.0	89.0	19.0	64.0	13.0	35.0	40.0	12.7		
152.4	18.6	85.0	9.1	5.8	3.0	114.0	19.0	72.0	13.0	40.0	44.0	15.8		
203.2	27.4	102.0	10.8	6.9	4.0	159.0	22.0	76.0	14.0	48.0	56.0	19.0		

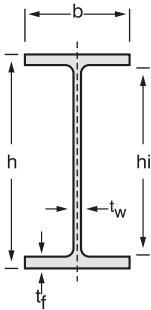
Dimensiones pulgadas	Peso		Dimensiones (mm)				
	lb/pie	kg/m	h	b	hi	tw	tf
4" X 4"	13.00	19.30	105.00	103	88.00	7.10	8.80
5" X 5"	18.00	23.80	127.00	127	109.00	6.10	9.10
	19.00	28.10	131.00	128	109.00	6.80	10.90
6" X 4"	8.5	12.66	148.00	100	139.00	4.30	4.90
	9.00	13.40	150.00	100	139.00	4.30	5.50
	12.00	17.90	153.00	102	138.00	5.80	7.10
	16.00	23.80	180.00	102	139.00	6.60	10.30
6" X 6"	15.00	22.30	152.00	152	139.00	5.80	6.60
	20.00	29.80	157.00	153	138.00	6.60	9.30
	25.00	37.20	162.00	154	139.00	8.10	11.60
8" X 4"	10.00	14.90	203.00	100	190.00	4.30	5.20
	13.00	19.30	203.00	102	190.00	5.80	6.50
	15.00	22.30	206.00	102	190.00	6.20	8.00
8" X 5 1/4"	14.00	20.80	203.00	133	190.00	5.00	6.40
	18.00	26.80	207.00	133	190.00	5.80	8.40
	21.00	31.30	210.00	134	190.00	6.40	10.20
8" X 6 1/2"	24.00	35.70	201.00	165	181.00	6.20	10.20
	28.00	41.70	205.00	166	181.00	7.20	11.80
	31.00	46.10	203.00	203	181.00	7.20	11.00
8" X 8"	35.00	52.10	205.00	204	181.00	7.90	12.60
	40.00	59.50	210.00	205	182.00	9.10	14.20
	48.00	71.40	216.00	206	181.00	10.20	17.40
	58.00	86.30	222.00	209	181.00	13.00	20.60
10" X 4"	67.00	99.70	229.00	210	182.00	14.50	23.70
	12.00	17.90	251.00	101	240.00	4.80	5.30
10" X 5 3/4"	15.00	22.30	254.00	102	240.00	5.80	6.90
	17.00	25.30	257.00	102	240.00	6.10	8.40
	19.00	28.30	260.00	102	240.00	6.40	10.00
10" X 8"	16.00	23.80	253.00	145	240.00	5.00	6.40
	22.00	32.70	258.00	146	240.00	6.10	9.10
	26.00	38.70	262.00	147	240.00	6.60	11.20
10" X 10"	30.00	44.60	266.00	148	240.00	7.60	13.00
	33.00	49.10	247.00	202	225.00	7.40	11.00
	39.00	58.00	252.00	203	225.00	8.00	13.50
12" X 4"	45.00	67.00	257.00	204	226.00	8.80	15.70
	49.00	72.90	253.00	254	226.00	8.60	14.20
	54.00	80.40	259.00	255	225.00	9.40	15.60
	60.00	89.30	260.00	256	225.00	10.70	17.30
	68.00	101.20	264.00	257	225.00	11.90	19.60
	77.00	114.60	269.00	259	225.00	13.50	22.10
12" X 6 1/2"	88.00	131.00	275.00	261	225.00	15.40	25.10
	100.00	148.80	282.00	263	225.00	17.30	28.40
	112.00	166.70	289.00	265	225.00	19.20	31.80
	14.00	20.80	303.00	101	292.00	5.10	5.70
12" X 8"	18.00	23.80	305.00	101	292.00	5.80	6.70
	19.00	28.30	309.00	102	291.00	6.00	8.90
	22.00	32.70	313.00	102	291.00	6.60	10.80
	21.00	31.30	306.00	164	291.00	5.00	7.40
12" X 10"	26.00	38.70	310.00	165	291.00	5.80	9.70
	30.00	44.60	313.00	166	291.00	6.60	11.20
	35.00	52.10	317.00	167	291.00	7.60	13.20
	40.00	59.50	303.00	203	277.00	7.50	13.10
12" X 12"	45.00	67.00	306.00	204	277.00	8.50	14.60
	50.00	74.40	310.00	205	277.00	9.40	16.30
	53.00	78.90	306.00	254	277.00	6.80	14.60
	58.00	86.30	310.00	254	277.00	9.10	16.30
	65.00	96.76	308.00	305	277.00	9.90	15.40
	72.00	107.10	311.00	306	277.00	10.90	17.00
	79.00	117.60	314.00	307	277.00	11.90	18.70
	87.00	129.50	318.00	308	277.00	13.10	20.60
12" X 12 1/2"	96.00	142.90	323.00	309	277.00	14.00	22.90
	106.00	157.70	327.00	310	277.00	15.50	25.10
	120.00	175.60	333.00	313	277.00	18.00	28.10
	136.00	202.37	341.00	315	277.00	20.10	31.80
	152.00	226.20	348.00	317	277.00	22.10	35.60
	170.00	253.00	356.00	319	277.00	24.40	39.60
	190.00	282.80	365.00	322	277.00	26.90	44.10
	210.00	312.50	374.00	325	277.00	30.00	48.30
	230.00	342.30	382.00	328	277.00	32.60	52.60
	252.00	376.00	391.00	330	277.00	35.43	57.20
14" X 5"	279.00	415.20	403.00	334	277.00	38.95	63.70
	305.00	453.90	415.00	336	277.00	41.28	68.70
	336.00	500.00	427.00	340	277.00	45.09	75.10
	22.00	32.70	349.00	127	332.00	5.80	8.50
14" X 6 3/4"	26.00	38.70	353.00	128	332.00	6.50	10.70
	30.00	44.60	352.00	171	332.00	6.90	9.80
	34.00	50.60	355.00	171	332.00	7.20	11.60
14" X 8"	38.00	56.50	359.00	172	332.00	7.90	13.10
	43.00	64.00	347.00	203	320.00	7.70	13.50
	48.00	71.40	350.00	204	320.00	8.60	15.10
	53.00	78.90	354.00	205	320.00	9.40	16.80
14" X 10"	61.00	90.60	353.00	254	320.00	9.50	16.40
	68.00	101.20	357.00	255	320.00	10.50	18.30
	74.00	110.10	360.00	256	320.00	11.40	19.90
	82.00	122.00	363.00	257	320.00	13.00	21.70



Dimensiones pulgadas	Peso		Dimensiones (mm)				
	lb/pie	kg/m	h	b	hi	tw	tf
14" X 14 1/2"	90.00	133.90	356.00	369	320.00	11.20	18.00
	99.00	147.30	360.00	370	320.00	12.90	19.80
	109.00	162.20	364.00	371	320.00	13.90	21.80
	120.00	178.60	368.00	373	320.00	15.00	23.90
	132.00	196.40	372.00	374	320.00	16.40	26.20
14" X 16"	145.00	215.80	375.00	394	319.00	17.27	27.70
	159.00	236.60	380.00	395	320.00	18.92	30.20
	176.00	261.90	387.00	398	321.00	21.08	33.30
	193.00	287.20	393.00	399	319.00	22.81	36.60
	211.00	314.00	399.00	401	319.00	24.89	39.60
	233.00	346.70	407.00	404	319.00	27.18	43.70
	257.00	382.50	416.00	406	320.00	29.85	48.00
	283.00	421.10	425.00	409	319.00	32.77	52.60
	311.00	462.80	435.00	412	321.00	35.81	57.40
	342.00	509.00	446.00	416	320.00	39.12	62.70
	370.00	550.60	455.00	418	319.00	42.04	67.60
398.00	592.30	465.00	421	321.00	44.96	72.30	
426.00	634.00	474.00	424	320.00	47.83	77.10	
16" X 5 1/2"	26.00	38.70	389.00	140	381.00	6.35	8.80
	31.00	46.10	403.00	140	381.00	6.99	11.20
	36.00	53.60	408.00	177	381.00	7.50	10.90
16" X 7"	40.00	59.50	407.00	178	381.00	7.70	12.80
	45.00	67.00	410.00	179	381.00	8.80	14.40
	50.00	74.40	413.00	180	381.00	9.70	16.00
	57.00	84.60	417.00	181	381.00	10.80	18.20
	67.00	99.70	415.00	260	381.00	10.00	16.90
16" X 10 1/4"	77.00	114.60	420.00	261	381.00	11.60	19.30
	89.00	132.40	425.00	263	381.00	13.90	22.20
	100.00	148.80	431.00	265	381.00	14.90	25.00
	35.00	52.10	450.00	152	428.00	7.60	10.80
18" X 6"	40.00	59.50	455.00	153	428.00	8.00	13.30
	46.00	68.50	459.00	154	428.00	9.10	15.40
	41.00	61.00	450.00	189	428.00	8.10	10.60
	45.00	67.00	454.00	190	429.00	8.50	12.70
	50.00	74.40	457.00	190	428.00	9.00	14.50
18" X 7 1/2"	55.00	81.80	460.00	191	428.00	9.90	16.00
	60.00	89.30	463.00	192	428.00	10.50	17.70
	65.00	96.70	466.00	193	428.00	11.40	19.00
	71.00	105.70	469.00	194	428.00	12.60	20.60
	76.00	113.10	463.00	280	428.00	10.60	17.30
	85.00	128.00	467.00	282	428.00	12.20	19.60
	97.00	144.40	472.00	283	428.00	13.60	22.10
18" X 11"	106.00	157.70	476.00	284	428.00	15.00	23.90
	119.00	177.10	482.00	286	428.00	16.60	26.90
	130.00	193.50	488.00	283	428.00	17.00	30.50
	143.00	212.80	495.00	285	428.00	18.50	33.50
	158.00	235.10	501.00	287	428.00	20.60	36.60
	175.00	260.40	509.00	289	428.00	22.60	40.40
	192.00	285.70	517.00	291	429.00	24.38	44.50
	211.00	314.00	525.00	293	427.00	26.92	48.50
	234.00	348.20	535.00	296	427.00	29.46	53.60
	258.00	383.90	545.00	299	429.00	32.51	58.40
	283.00	421.10	555.00	302	427.00	35.56	63.50
311.00	462.80	567.00	305	427.00	38.61	69.60	
21" X 6 1/2"	44.00	65.50	525.00	165	502.00	8.90	11.40
	50.00	74.40	529.00	166	502.00	9.70	13.60
	57.00	84.60	535.00	166	502.00	10.90	16.50
21" X 8 1/4"	62.00	92.30	533.00	209	502.00	10.20	15.60
	68.00	101.20	537.00	210	502.00	10.90	17.40
	73.00	108.60	539.00	211	501.00	11.60	18.80
	83.00	123.50	544.00	212	502.00	13.10	21.20
	93.00	138.40	549.00	214	502.00	14.70	23.60
21" X 12 1/2"	101.00	150.30	543.00	312	502.00	12.70	20.30
	111.00	165.20	546.00	313	502.00	14.00	22.20
	122.00	181.60	551.00	315	502.00	15.20	24.40
	132.00	196.40	556.00	316	501.00	16.50	26.30
	147.00	218.80	560.00	318	502.00	18.90	29.20
	166.00	247.00	571.00	315	502.00	19.00	34.50
	182.00	270.80	577.00	318	502.00	21.10	37.60
	201.00	299.10	585.00	319	502.00	23.10	41.40
24" X 7"	55.00	81.80	599.00	178	573.00	10.00	12.80
	62.00	92.30	603.00	179	573.00	10.90	15.00
	68.00	101.20	603.00	228	573.00	10.60	14.90
24" X 9"	76.00	113.10	608.00	228	573.00	11.20	17.30
	84.00	125.00	612.00	229	573.00	11.80	19.60
	94.00	139.90	617.00	230	573.00	13.10	22.20
	103.00	153.30	623.00	229	573.00	14.00	24.90
	104.00	154.80	611.00	324	573.00	12.70	19.00
24" X 12 3/4"	117.00	174.10	616.00	325	573.00	14.00	21.60
	131.00	194.90	622.00	327	573.00	15.40	24.40
	146.00	217.30	628.00	328	573.00	16.60	27.70
	162.00	241.90	635.00	329	573.00	17.10	31.00
	176.00	261.90	641.00	327	573.00	19.00	34.00
	192.00	285.70	647.00	329	573.00	20.60	37.10



Dimensiones pulgadas	Peso		Dimensiones (mm)				
	lb/pie	kg/m	h	b	hi	tw	tf
24" X 12 3/4"	229.00	340.80	661.00	333	573.00	24.40	43.90
	279.00	415.20	679.00	338	573.00	29.50	53.10
	305.00	455.40	689.00	340	573.00	32.00	57.90
	335.00	498.50	699.00	343	573.00	35.10	63.00
	370.00	550.60	711.00	347	573.00	38.60	69.10
27" X 10"	84.00	125.00	678.00	253	645.00	11.70	16.30
	94.00	139.90	684.00	254	646.00	12.40	18.90
	102.00	151.80	688.00	254	646.00	13.10	21.10
	114.00	169.70	693.00	256	646.00	14.50	23.60
	129.00	192.00	702.00	254	646.00	15.50	27.90
27" X 14"	146.00	217.30	695.00	355	645.00	15.37	24.80
	161.00	239.60	701.00	356	647.00	16.76	27.40
	178.00	264.90	706.00	358	646.00	18.42	30.20
	194.00	288.70	714.00	356	646.00	19.05	34.00
	217.00	322.90	722.00	359	646.00	21.08	38.10
	235.00	349.00	728.00	360	646.00	23.11	40.90
	259.00	393.90	736.00	362	646.00	24.88	45.00
	307.00	456.90	752.00	367	646.00	29.46	53.10
30" X 10 1/2"	336.00	500.00	762.00	370	646.00	32.00	57.90
	368.00	547.60	772.00	372	646.00	35.05	63.00
	99.00	147.90	753.00	265	719.00	13.20	17.00
	108.00	160.70	758.00	266	719.00	13.80	19.30
	116.00	172.60	762.00	267	719.00	14.40	21.60
	124.00	184.50	766.00	267	719.00	14.90	23.60
	132.00	196.40	770.00	268	719.00	15.60	25.40
	148.00	220.20	779.00	269	719.00	16.50	30.00
30" X 15"	173.00	257.50	773.00	381	719.00	16.64	27.10
	191.00	284.20	779.00	382	719.00	18.03	30.10
	211.00	314.00	786.00	384	720.00	19.69	33.40
	235.00	349.70	795.00	382	719.00	21.08	38.10
	261.00	398.40	803.00	385	719.00	23.62	41.90
	292.00	434.50	813.00	387	719.00	25.91	47.00
	325.00	485.10	823.00	390	719.00	28.86	52.10
	357.00	531.30	833.00	393	719.00	31.50	56.90
391.00	581.90	843.00	396	719.00	34.54	62.00	
33" X 11 1/2"	118.00	175.60	835.00	292	797.00	14.00	18.80
	130.00	193.50	840.00	292	797.00	14.70	21.70
	141.00	209.80	846.00	293	797.00	15.40	24.40
	152.00	226.20	851.00	294	797.00	16.10	26.80
	169.00	251.50	859.00	295	797.00	17.00	31.00
33" X 15 3/4"	201.00	299.10	855.00	400	797.00	18.16	29.20
	221.00	328.90	862.00	401	798.00	19.69	32.40
	241.00	358.60	868.00	403	796.00	21.08	35.60
	263.00	391.40	877.00	401	797.00	22.10	39.90
	291.00	433.10	885.00	404	797.00	24.38	43.90
	318.00	473.20	893.00	406	797.00	26.42	48.00
36" X 12"	354.00	526.80	903.00	409	797.00	29.46	53.10
	387.00	575.90	913.00	411	797.00	32.00	57.90
	135.00	200.90	903.00	304	863.00	15.20	20.10
	150.00	223.20	911.00	304	863.00	15.90	23.90
	160.00	238.10	915.00	305	863.00	16.50	25.90
	170.00	253.00	919.00	306	863.00	17.30	27.90
36" X 12"	182.00	270.80	923.00	307	863.00	18.40	30.00
	194.00	288.70	927.00	308	863.00	19.40	32.00
	210.00	312.50	932.00	309	863.00	21.10	34.50
	232.00	345.30	943.00	308	863.00	22.10	39.90
	256.00	381.00	951.00	310	863.00	24.38	43.90
	149.00	221.70	970.00	300	928.00	16.00	21.10
	167.00	248.50	980.00	300	928.00	16.51	26.00
40" X 12"	183.00	272.30	990.00	300	928.00	16.51	30.50
	211.00	314.00	1000.00	300	928.00	19.05	35.90
	235.00	349.70	1009.00	302	928.00	21.08	40.90
	264.00	392.90	1016.00	303	928.00	24.38	43.90
	294.00	437.50	1026.00	305	928.00	26.92	49.00
	327.00	486.60	1036.00	308	928.00	29.97	54.10
40" X 16"	199.00	296.10	982.00	400	928.00	16.51	27.10
	215.00	320.00	990.00	400	928.00	16.51	31.00
	249.00	370.60	1000.00	400	928.00	19.05	36.10
	277.00	412.20	1008.00	402	928.00	21.08	40.00
	297.00	442.00	1012.00	402	928.00	23.62	41.90
	324.00	482.20	1020.00	404	928.00	25.40	46.00
	362.00	538.70	1030.00	407	928.00	28.45	51.10
	372.00	553.60	1032.00	408	928.00	29.46	51.90
397.00	590.80	1040.00	409	928.00	30.99	55.90	
44" X 16"	431.00	641.40	1048.00	412	928.00	34.04	59.90
	230.00	342.30	1030.00	400	1028.00	19.03	31.00
	262.00	389.90	1100.00	400	1028.00	19.94	35.00
	290.00	431.60	1109.00	402	1028.00	21.97	40.00
	335.00	498.50	1118.00	405	1028.00	26.04	45.00



UNIDADES DE LONGITUD

Es igual (=)	mm	cm	m	km	pulgada	pie	yarda	milla
1 milímetro a	1	0.1	0.001	0.000001	0.3937	0.00328083	0.0010936	0.0000062137
1 centímetro a	10	1	0.01	0.00001	0.3937	0.0328083	0.010936	0.000062137
1 metro a	1,000	100	1	0.001	39.37	3.28083	1.0936	0.00062137
1 kilómetro a	1,000,000	100,000	1000	1	39,370	3,280.83	1,093.60	0.62137
1 pulgada a	25.4	2.54	0.0254	0.0000254	1	0.08333	0.027778	0.000016
1 pie a	304.8	30.48	0.3048	0.0003048	12	1	0.3333	0.0001894
1 yarda a	914.4	91.44	0.9144	0.0009144	36	3	1	0.0005682
1 milla a	1,609,350	160,935	1,609.35	1.60935	63,360	5,280	1,760	1

UNIDADES DE PESO

Es igual (=)	gr	kg	tm	oz	lb	tl
1 gramo a	1	0.001	0.000001	0.03527	0.03937	0.00328083
1 kilogramo a	1,000	1	0.001	35.27	0.3937	0.0328083
1 tonelada métrica a	1,000,000	1,000	1	35,270	39.37	3.28083
1 onza a	28.35	0.02835	0.00002835	1	39.370	3,280.83
1 libra a	453.6	0.4536	0.0004536	16	1	0.08333
1 tonelada larga a	1,016,050	1,016.05	1.01605	35,836	2,240	1

UNIDADES DE ÁREA

Es igual (=)	mm2	cm2	m2	pulg2	pie2	yd2
1 milímetro cuadrado a	1	0.01	0.000001	0.00155	0.0000108	0.0000012
1 centímetro cuadrado a	1,000	1	0.0001	0.155	0.00108	0.00012
1 metro cuadrado a	1,000,000	10,000	1	1,550	10.76	1.196
1 pulgada cuadrada a	645.16	6.45160	0.0006452	1	0.006944	0.000772
1 pie cuadrado a	92,903.04	929.0304	0.0929	144	1	0.11111
1 yarda cuadrada a	836,131	8,361.31	0.8361	1,296	9	1

UNIDADES DE VOLUMEN

Es igual (=)	cm3	dm3	m3	pulg3	pie3	galón
1 centímetro cúbico a	1	0.001	0.000001	0.06102	0.00003531	0.00026417
1 decímetro cúbico a	1,000	1	0.001	61.02	0.3531	0.26417
1 metro cúbico a	1,000,000	1,000	1	61,020	35.31	264.17
1 pulgada cúbica a	16.39	0.01639	0.00001639	1	0.0005787	0.004329
1 pie cúbico a	28,316.85	28.31685	0.02831685	1,728	1	7.48055
1 galón EEUU (líquido) a	3,785.43	3.78543	0.00378543	231	0.133663	1

PESO POR UNIDAD DE LONGITUD

Es igual (=)	km/m	lb/pie
1 kilogramo por metro a	1	0.67197
1 libra por pie a	1.48816	1

PESO POR UNIDAD DE SUPERFICIE (esfuerzos)

Es igual (=)	kg/cm2	Mpa	lb/pulg2
1 kilogramo por cm2 a	1	0.0981	14.2234
1 mega pascal a	10.1937	1	144.99
1 libra por pulg2 a (ksi)	0.07031	0.0068971	1

Fracción	Milésimas	mm	Cálbre	Milésimas	mm
1/64"	0.016"	0.40	3	0.2391"	6.07
1/32"	0.031"	0.79	4	0.2242"	5.69
1/16"	0.063"	1.59	5	0.2092"	5.31
1/8"	0.125"	3.18	6	0.1943"	4.94
5/32"	0.156"	3.97	7	0.1793"	4.55
3/16"	0.188"	4.76	8	0.1644"	4.18
1/4"	0.250"	6.35	9	0.1495"	3.80
5/16"	0.313"	7.94	10	0.1345"	3.42
3/8"	0.375"	9.53	11	0.1196"	3.04
7/16"	0.438"	11.11	12	0.1046"	2.66
1/2"	0.500"	12.70	13	0.0897"	2.28
9/16"	0.563"	14.29	14	0.0747"	1.90
5/8"	0.625"	15.88	15	0.0673"	1.71
11/16"	0.688"	17.46	16	0.0598"	1.52
3/4"	0.750"	19.05	17	0.0538"	1.37
13/16"	0.813"	20.64	18	0.0478"	1.21
7/8"	0.875"	22.23	19	0.0418"	1.06
15/16"	0.938"	23.81	20	0.0359"	0.91
1"	1.000"	25.40	21	0.0329"	0.84
1 1/8"	1.125"	28.58	22	0.0299"	0.76
1 1/4"	1.250"	31.75	23	0.0269"	0.68
1 3/8"	1.375"	34.93	24	0.0239"	0.61
1 1/2"	1.500"	38.10	25	0.0209"	0.53
1 5/8"	1.625"	41.28	26	0.0179"	0.45
1 3/4"	1.750"	44.45	27	0.0164"	0.42
2"	2.000"	50.80	28	0.0149"	0.38
2 1/4"	2.250"	57.15	29	0.0135"	0.34
2 1/2"	2.500"	63.50	30	0.012"	0.30
2 3/4"	2.750"	69.85	31	0.0105"	0.27
3"	3.000"	76.20	32	0.0097"	0.25
3 1/2"	3.500"	88.90	33	0.009"	0.23
4"	4.000"	101.60	34	0.0082"	0.21



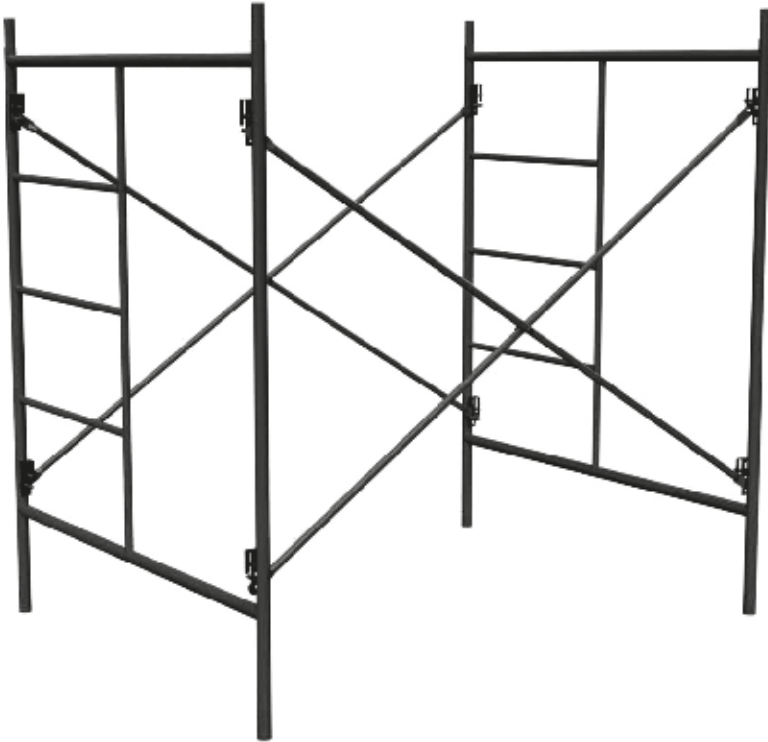
ANDAMIOS

ANDAMIOS

Marco con 6 pivotes forjados

Alto	Largo	Campo	Tubo
2mt	1,05mt (o 0.70 mt)	1,8 mt (o 2,5 - 3mt)	048mm

Disponible pintado o galvanizado en caliente.



ANDAMIOS DE ALTA CALIDAD Y DESEMPEÑO

PUNTALES



PUNTALES

PUNTALES

Ofrecemos una amplia gama de puntales de diferentes versiones y tipologías.

- Puntales de Placa
- Puntales con horquilla simple

Tubo Interior	Tubo Exterior	Longitud del manguito	Gancho de Seguridad
048mm	056mm	135mm	014mm

- Modelo Disponible 2.20m / 4.00m
- Capacidad de carga de 758 kg
- Pintado de inmersión; libre de óxido
- Mayor durabilidad del mercado
- Factor de seguridad de 1.7 *

* Respecto al valor de carga de colapso



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