



# ACEROS

**VIA**  
**VIACEROS**  
Aceros y Refacciones Industriales

 **Ternium**

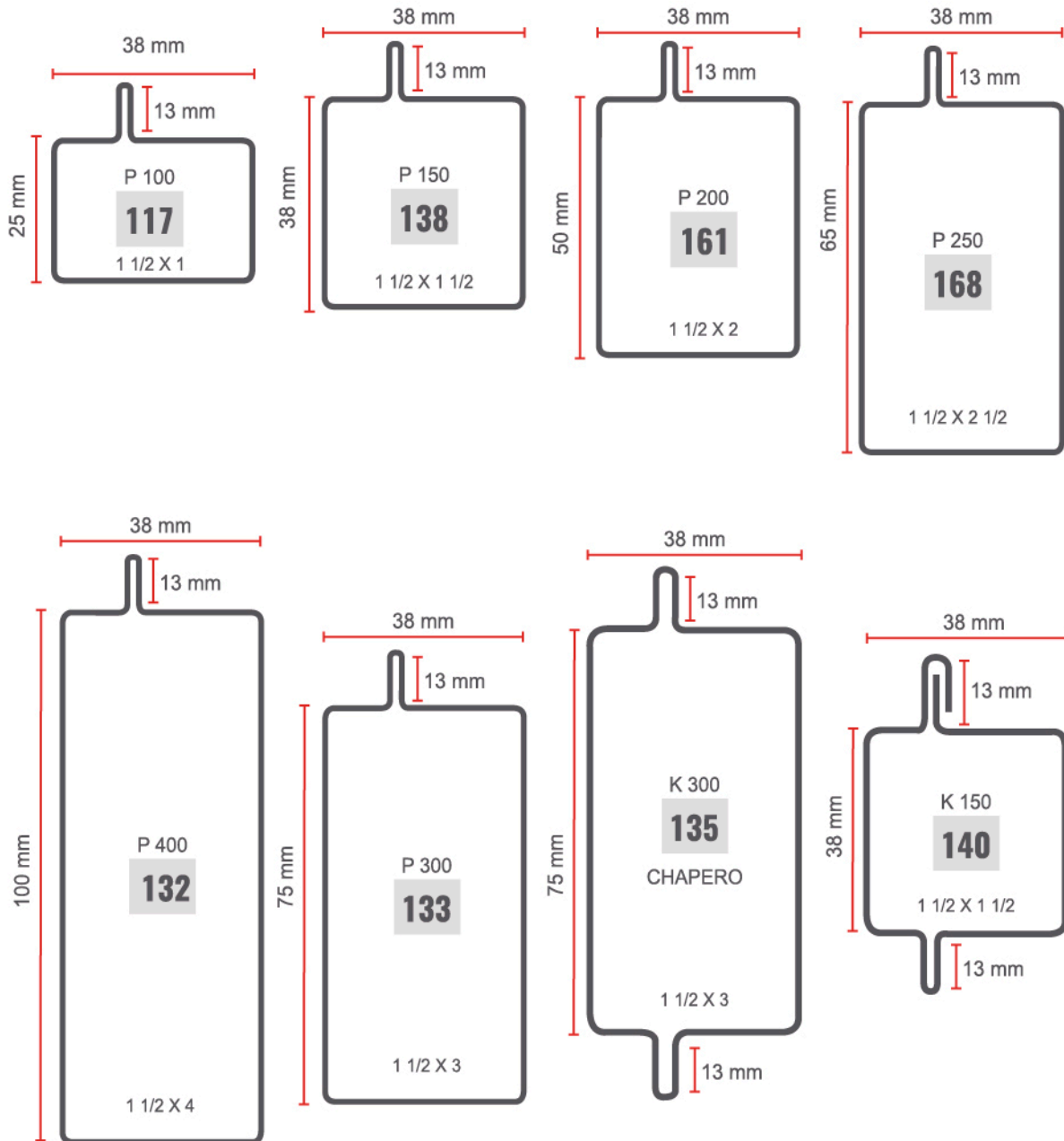
**PERFILES** **LM**

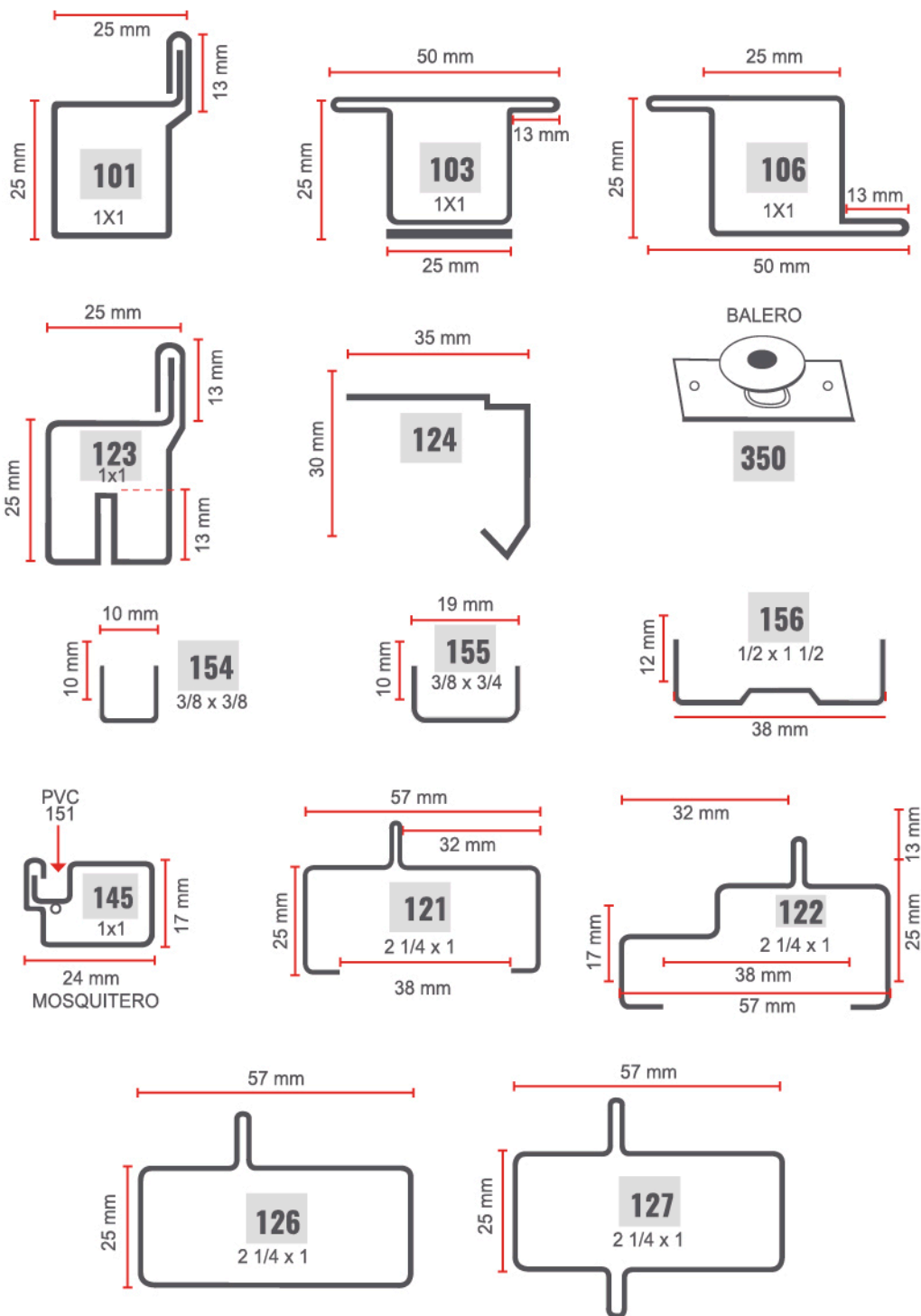
**DEACERO**<sup>®</sup>  
EXCELENCIA EN CALIDAD

# ACEROS

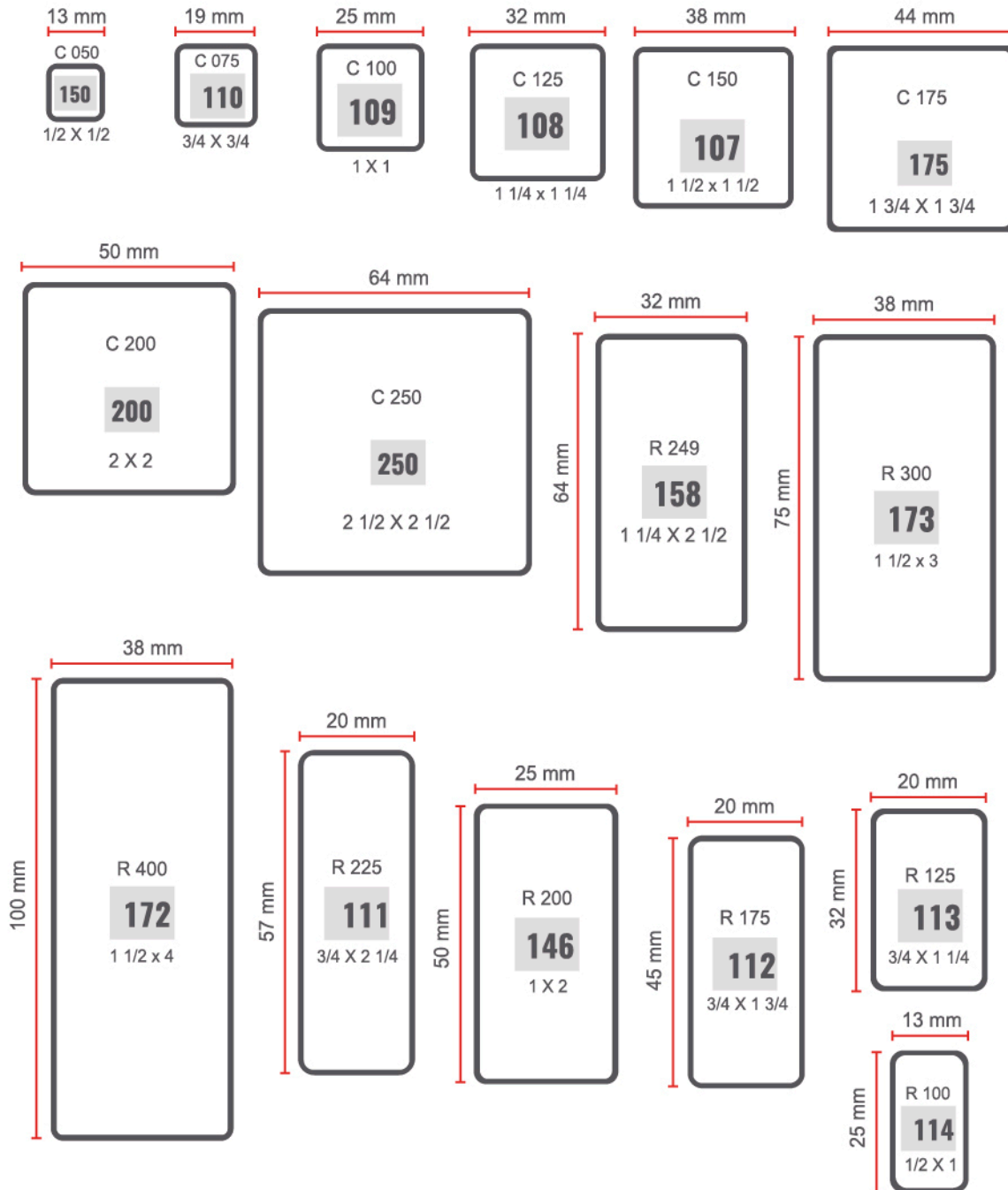
Serdi cuenta con un extenso inventario en ptr, vigas ipr, polines, ángulos, placas de acero, tuberías, soleras, cuadrados, redondos, todo esto y más, descubra todos los productos que tenemos para cubrir sus necesidades en acero y con la absoluta certeza de ser su mejor opción garantizando que tu proyecto estará en tiempo y forma, ahorrando tiempo y esfuerzo.



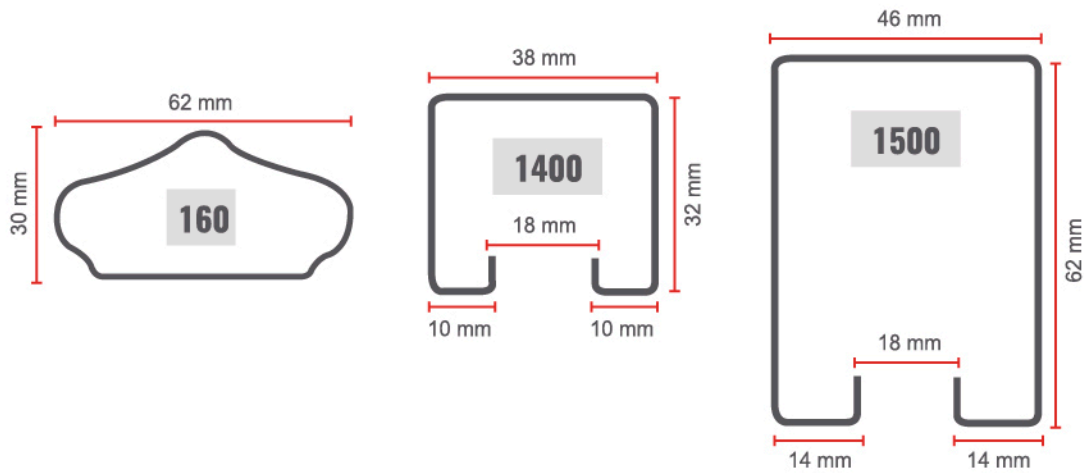




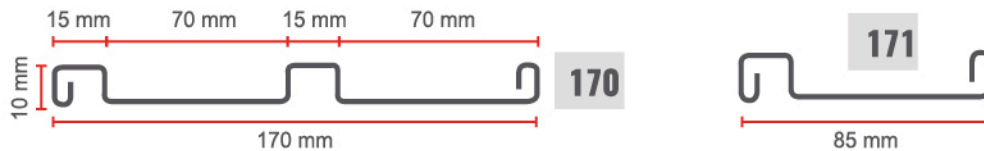
**Nota:** Si la opción que requieres no se encuentra en el catálogo, pregunta a tu asesor de ventas.



# PASAMANOS Y RIELES

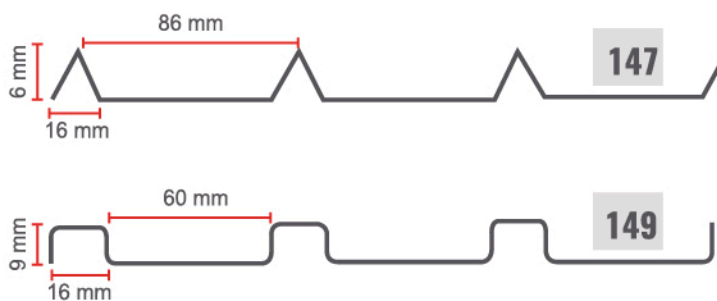


# DUELA PARA ENSAMBLAR



# TABLEROS PARA PUERTA

**ESPECIFIQUE:** El número de tablero, medida y colocación de la moldura.

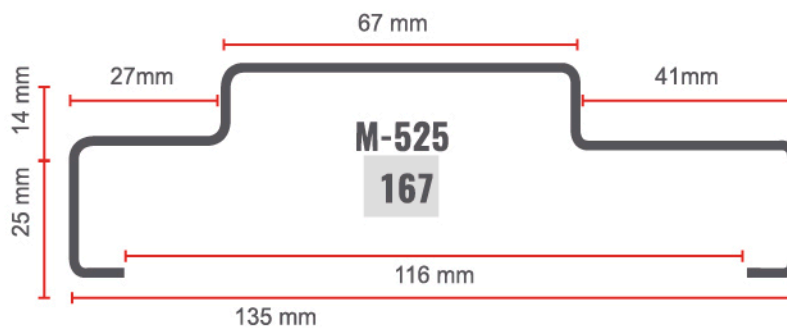
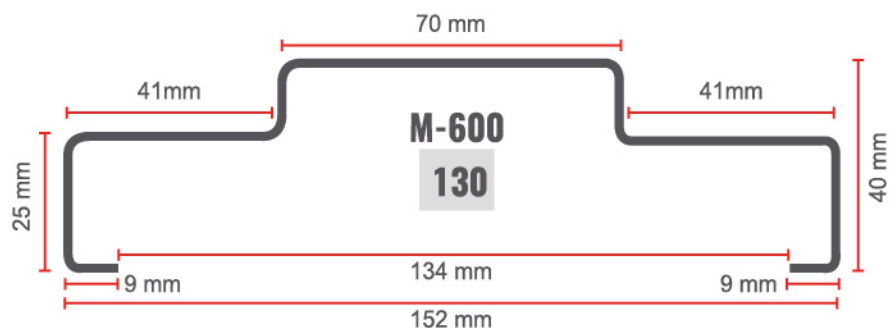
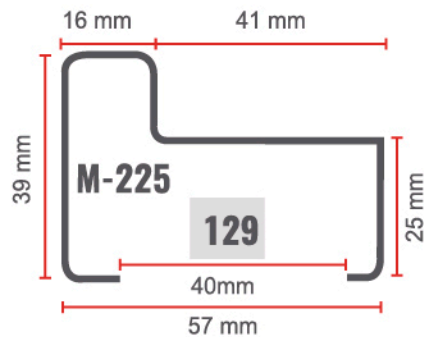
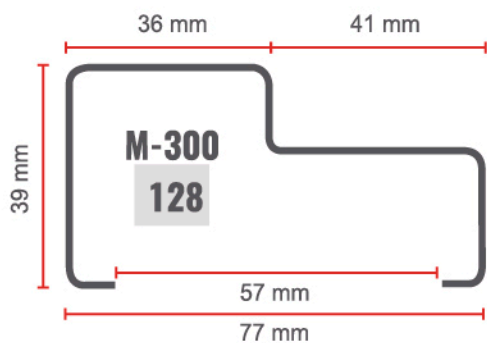


## MEDIDAS DE LÁMINAS PLANA

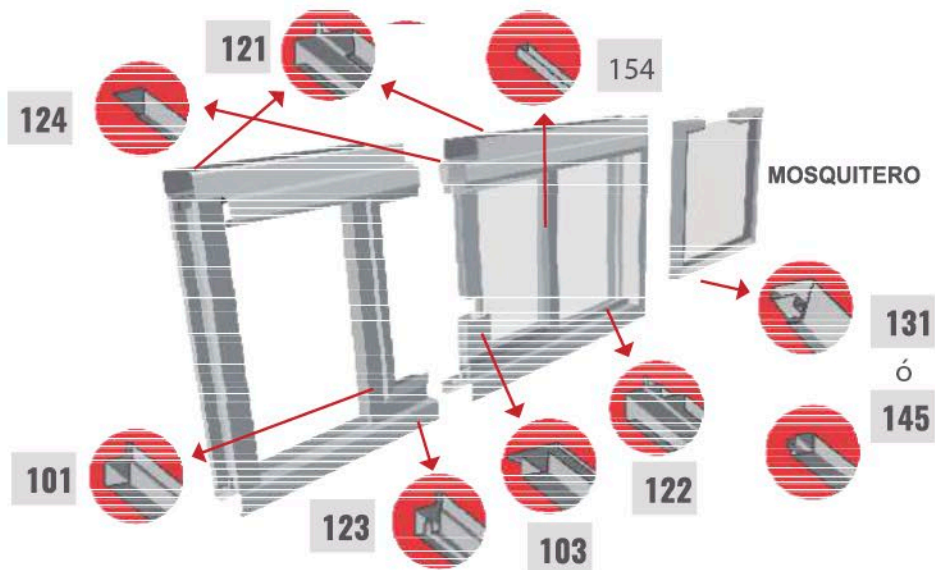
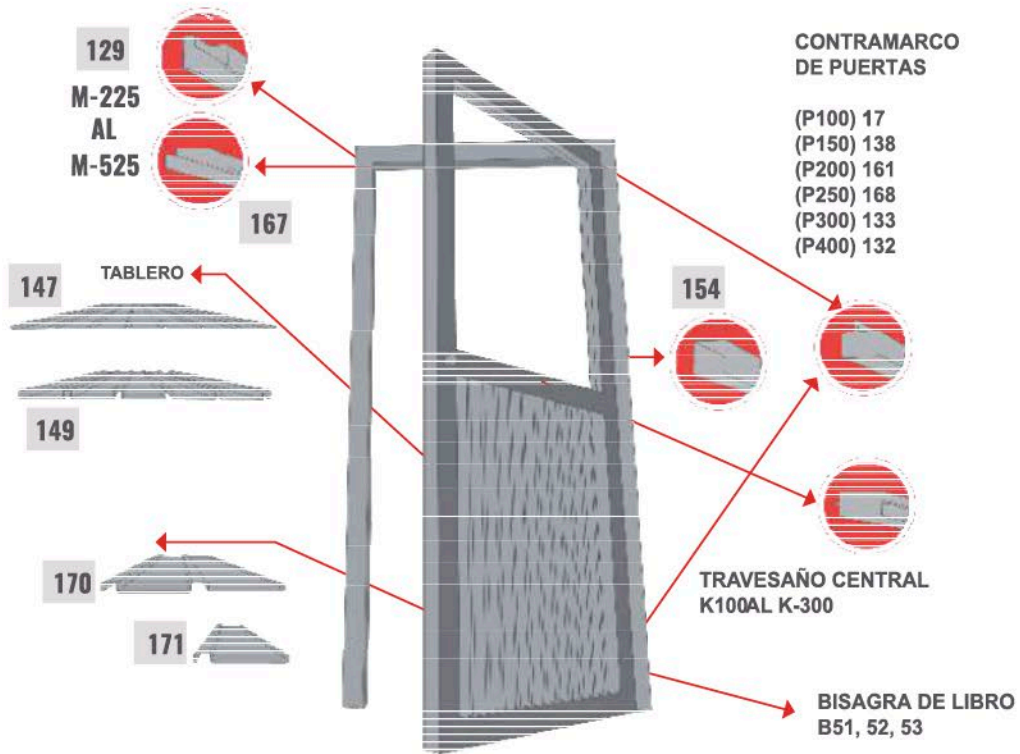
- 0.91 x 0.91 mts (3' x 3')
- 0.91 x 1.95 mts (3' x 6.4')
- 0.91 x 2.44 mts (3' x 8')
- 0.91 x 3.05 mts (3' x 10')

## COLOCACIÓN DE MOLDURA

- A (Moldura a lo ancho)
- L (Moldura a lo largo)
- LC (A lo largo para continuar)



# APLICACIÓN DE PERFILES DE PUERTAS Y VENTANAS





NÚMERO	CALIBRE	ESPESOR (PULGADAS)	LONGITUD (MTS.)	KILOGRAMO X METRO	KILOGRAMO X PIEZA
101	20	0.0359	6.00	0.91	5.460
	18	0.0478	6.00	1.22	7.320
103	20	0.0359	6.00	1.08	6.480
	18	0.0478	6.00	1.47	8.820
106	20	0.0359	6.00	1.08	6.480
	18	0.0478	6.00	1.47	8.820
116	20	0.0359	6.00	1.43	8.580
121	20	0.0359	6.00	1.00	6.000
	18	0.0478	6.00	1.36	8.160
122	20	0.0359	6.00	1.00	6.000
	18	0.0478	6.00	1.36	8.160
123	20	0.0359	6.00	1.07	6.420
124	18	0.0478	6.00	0.68	4.080
126	20	0.0359	6.00	1.27	7.620
	18	0.0478	6.00	1.72	10.320
127	20	0.0359	6.00	1.41	8.460
	18	0.0478	6.00	1.91	11.460
131	20	0.0359	6.00	0.64	3.840
145	20	0.0359	6.00	0.64	3.840
154	20	0.0359	6.00	0.18	1.080
	18	0.0478	6.00	0.25	1.500
155	20	0.0359	6.00	0.23	1.380
156	20	0.0359	6.00	0.39	2.340
157	18	0.0478	6.00	1.98	11.880
159	20	0.0478	6.00	1.33	7.980
	18	0.0478	6.00	1.81	10.860
160	20	0.0359	6.00	1.08	6.480
	18	0.0478	6.00	1.47	8.820
169	20	0.0359	6.00	1.15	6.900
1400	18	0.0359	6.00	1.24	7.440

NÚMERO	CALIBRE	ESPESOR (PULGADAS)	LONGITUD (MTS.)	KILOGRAMO X METRO	KILOGRAMO X PIEZA
1500	16	0.0598	6.00	2.45	14.700
	14	0.0747	6.00	3.06	18.360
M-221	20	0.0359	6.00	1.46	8.760
M-225	20	0.0359	5.50	1.03	5.665
(129)	18	0.0478	5.50	1.41	7.755
M-300 (128)	20	0.0359	5.50	1.17	6.435
M-350	20	0.0359	5.50	1.07	5.885
M-525	20	0.0359	5.50	1.56	8.580
(167)	18	0.0478	5.50	2.12	11.66
M-600	20	0.0359	5.50	1.69	9.295
(130)	18	0.0478	5.50	2.31	12.70
P-100	20	0.0359	6.00	1.01	6.060
117	18	0.0478	6.00	1.36	8.160
P-150	20	0.0359	6.00	1.19	7.140
(138)	18	0.0478	6.00	1.61	9.660
P-200	20	0.0359	6.00	1.37	8.220
(161)	18	0.0478	6.00	1.86	11.160
P-250	20	0.0359	6.00	1.56	9.360
(168)	18	0.0478	6.00	2.09	12.540
P-300	20	0.0359	6.00	1.73	10.380
(133)	18	0.0478	6.00	2.32	13.920
P-400	20	0.0359	6.00	2.09	12.540
(132)	18	0.0478	6.00	2.82	16.920
K-100	20	0.0359	6.00	1.16	6.960
	18	0.0478	6.00	1.58	9.480
K-150	20	0.0359	6.00	1.34	8.040
(140)	18	0.0478	6.00	1.83	10.980
K-200 (162)	20	0.0359	6.00	1.52	9.120
K-250	18	0.0478	6.00	2.32	13.920
K-300	20	0.0359	6.00	1.88	11.280
(135)	18	0.0478	6.00	2.57	15.420

## GUAMÚCHIL



BLVD. FRANCISCO LABASTIDA #1638  
CARRETERA ANGOSTURA MAGISTERO,  
GUAMÚCHIL, SIN.



**673 732 2525 /**  
**673 732 2526**

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## GUASAVE



BLVD. JUAN S. MILLAN #716 PTE  
COL. LAS PALMAS, GUASAVE, SIN.



**687 883 6060 /**  
**687 833 6661**

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## MAZATLÁN



CARRETERA INTERNACIONAL KM. 2  
MAZATLÁN, SIN.



**669 984 9500**

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# FICHA TÉCNICA DE PERFILES RECTANGULARES

NÚMERO	CALIBRE	LONGITUD (MTS.)	KILOGRAMO X METRO	KILOGRAMO X PIEZA
R-100 (114)	20	6.00	0.52	3.120
	18	6.00	0.70	4.200
	16	6.00	0.86	5.16
	14	6.00	1.06	6.36
R-125 (113)	20	6.00	0.70	4.200
	18	6.00	0.94	5.640
	16	6.00	1.18	99
	14	6.00	1.46	8.76
R-175 (112)	20	6.00	0.88	5.280
	18	6.00	1.19	7.140
R-200 (146)	20	6.00	1.06	6.360
	18	6.00	1.44	8.640
	16	6.00	1.80	10.800
	14	6.00	2.24	13.440
	12	6.00	3.07	18.42
	11	6.00	3.16	18.960
R-225 (111)	20	6.00	1.06	6.360
	18	6.00	1.44	8.640
R-249 (158)	20	6.00	1.34	8.040
	18	6.00	1.81	10.860
	16	6.00	2.27	13.62
	14	6.00	2.84	17.04
	12	6.00	3.90	23.40
R-300 (173)	22	6.00	1.34	8.04
	20	6.00	1.61	9.660
	18	6.00	2.18	13.080
	16	6.00	2.75	16.5
R-400 (172)	14	6.00	3.43	20.580
	20	6.00	1.97	11.820
	18	6.00	2.68	16.080
	16	6.00	3.37	20.22
	14	6.00	4.22	25.320

# FICHA TÉCNICA DE PERFILES CUADRADOS

NÚMERO	CALIBRE	ESPESOR (PULGADAS)	LONGITUD (MTS.)	KILOGRAMO X METRO	KILOGRAMO X PIEZA
C-050 (150)	22	0.0299	6.00	0.28	1.68
	20	0.0359	6.00	0.34	2.040
	18	0.0478	6.00	0.45	2.700
	16	0.0598	6.00	0.55	3.300
C-075 (110)	22	0.0299	6.00	0.44	2.640
	20	0.0359	6.00	0.52	3.120
	18	0.0478	6.00	0.70	4.200
	16	0.0598	6.00	0.86	5.160
	14	0.0747	6.00	1.06	6.360
C-100 (109)	20	0.0359	6.00	0.70	4.200
	18	0.0478	6.00	0.94	5.640
	16	0.0598	6.00	1.18	7.080
	14	0.0747	6.00	1.46	8.760
C-125 (108)	20	0.0359	6.00	0.88	5.280
	8	0.0478	6.00	1.19	7.140
	16	0.0598	6.00	1.49	8.940
	14	0.0747	6.00	1.85	11.100
C-150 (107)	20	0.0359	6.00	1.06	6.360
	18	0.0598	6.00	1.44	8.640
	16	0.0598	6.00	1.80	10.800
	14	0.0747	6.00	2.24	13.440
C-175 (175)	16	0.0598	6.00	2.12	12.720
	14	0.0747	6.00	2.64	15.840

## BENITO JUÁREZ



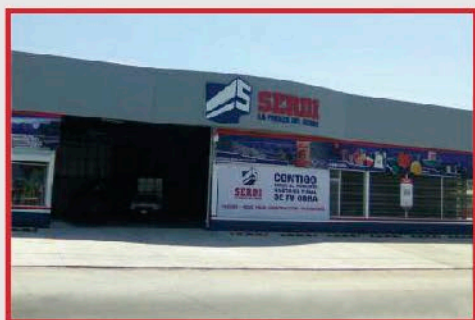
BLVD. GABRIEL LEYVA #25 ESQUINA  
CON REVOLUCIÓN COL. JUÁREZ,  
MAZATLÁN, SIN.



**669 984 9500**

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## JARIPILLO



AV. ÓSCAR PÉREZ ESCOBOSA #2202  
COL. JARIPILLO, MAZATLÁN, SIN.



**669 127 6490 /**  
**669 105 3299**

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## LOS MOCHIS



AV. 10 DE MAYO #550 PTE. COL. EJIDO  
JUQUUILPAN, LOS MOCHIS, SIN.

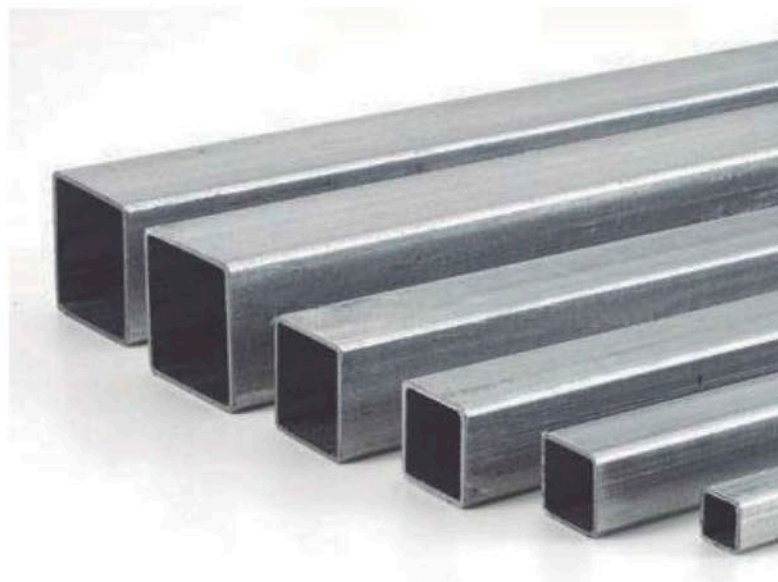


**668 812 1240 /**  
**668 812 1540**

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# PTR ESTRUCTURAL CUADRADO

DIMENSIONES EXTERIORES		CALIBRE	ESPESOR		KILOGRAMO POR METRO
PULG.	MM		PULG.	MM	
1x1	25.4 x 25.4	13	0.0897	2.28	1.66
		12	0.1046	2.66	1.97
		11	0.1196	3.04	1.95
		10	0.1345	3.42	2.13
1 <sup>1/4</sup> x 1 <sup>1/4</sup>	31.75 x 31.75	12	0.1046	2.66	2.52
		11	0.1196	3.04	2.56
		10	0.1345	3.42	2.81
1 <sup>1/2</sup> x 1 <sup>1/2</sup>	38.10 x 38.10	12	0.1046	2.66	3.07
		11	0.1196	3.04	3.16
		10	0.1345	3.42	3.49
		9	0.1495	3.8	3.76
1 <sup>3/4</sup> x 1 <sup>3/4</sup>	44.45 x 44.45	11	0.1196	3.04	3.77
2x2	50.80 x 50.80	12	0.1046	2.66	4.17
		11	0.1196	3.04	4.38
		10	0.1345	3.42	4.86
		3/16	0.1880	4.78	6.43
		1/4	0.2500	6.35	8.04
2 <sup>1/2</sup> x 2 <sup>1/2</sup>	63.50 x 63.50	13	0.0897	2.28	4.39
		12	0.1046	2.66	5.27
		11	0.1196	3.04	5.59
		10	0.1345	3.42	6.22
		9	0.1495	3.8	6.76
		3/16	0.1880	4.78	8.33
		1/4	0.2500	6.35	10.57

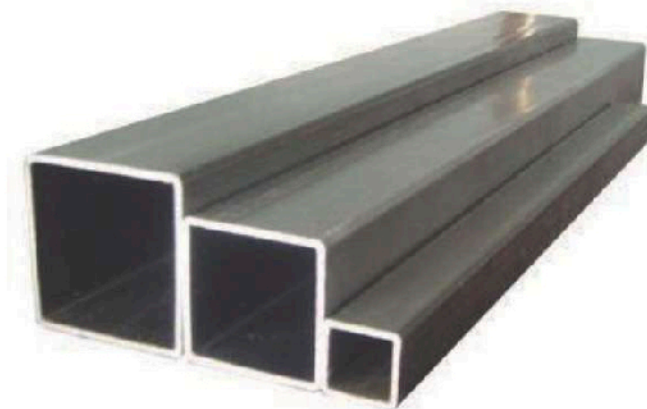


# FICHA TÉCNICA DE PERFILES CUADRADOS

**CATÁLOGO**  
DE PRODUCTOS 2022-2023

DIMENSIONES EXTERIORES		CALIBRE	ESPESOR		KILOGRAMO POR METRO
PULG.	MM		PULG.	MM	
3 X 3	76.20 X 76.20	13	0.0897	2.28	5.30
		12	0.1046	2.66	6.38
		11	0.1196	3.04	6.81
		10	0.1345	3.42	7.59
		9	0.1495	3.80	8.26
		3/16	0.1880	4.78	10.24
		1/4	0.2500	6.35	13.10
3 1/2 X 3 1/2	88.90 X 88.90	11	0.1196	3.04	8.02
		9	0.1495	3.80	9.75
		3/16	0.1880	4.78	12.14
		1/4	0.2500	6.35	15.63
4 X 4	101.60 X 101.60	11	0.1196	3.04	9.23
		10	0.1345	3.42	10.32
		9	0.1495	3.80	11.25
		3/16	0.1880	4.78	14.04
		1/4	0.2500	6.35	18.60
4 1/2 X 4 1/2	114.3 X 114.3	11	0.1196	3.04	10.45
		3/16	0.1880	4.78	15.94
		1/4	0.2500	6.35	20.69
5 X 5	124 X 127	11	0.1196	3.04	11.66
		9	0.1495	3.80	14.25
		3/16	0.1880	4.78	17.85
		1/4	0.2500	6.35	23.22

Fabricado en base a la norma ASTM A500 o A513 según aplique.





# FICHA TÉCNICA DE PERFILES CUADRADOS

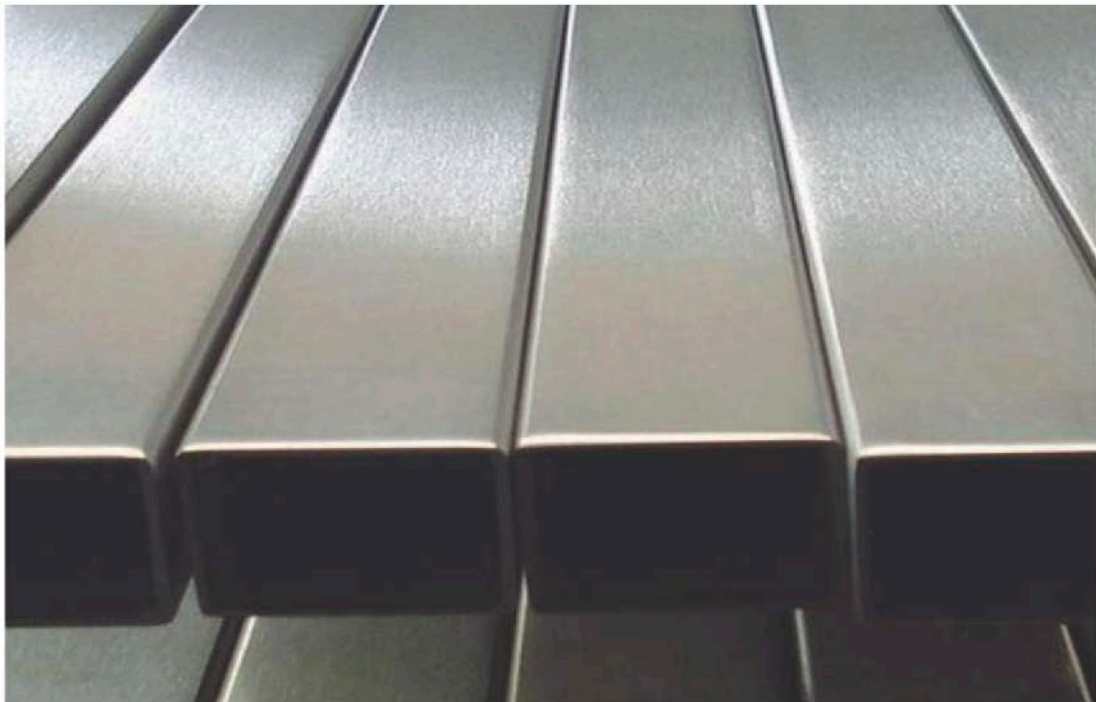
	20	0.0359	6.00	1.43	8.580
C-200 (200)	18	0.0478	6.00	1.94	11.640
	16	0.0598	6.00	2.43	14.580
	14	0.0747	6.00	3.03	18.180
C-225	16	0.0598	6.00	2.75	16.500
	14	0.0747	6.00	3.43	20.58
	18	0.0478	6.00	2.43	14.58
	16	0.0598	6.00	3.06	18.360
C-250 (250)	14	0.0747	6.00	3.82	22.920
	13	0.0987	6.00	4.39	26.34
	12	0.1046	6.00	5.27	31.620
	10	0.1192	6.00	6.22	37.320
	9	0.1345	6.00	6.76	40.560
	3/16	0.1495	6.10	8.33	50.813
	1/4	0.1880	6.10	10.57	64.477
C-300	14	0.0747	6.00	4.61	27.660
	12	0.1046	6.00	6.38	38.280
	3/16	0.1880	6.10	10.24	62.464
	1/4	0.2500	6.10	13.10	79.910
C-350	14	0.0747	6.00	5.40	32.40
	11	0.1196	6.00	8.02	48.12
	9	0.1495	6.00	9.75	58.50
	3/16	0.1880	6.10	12.14	74.05
	1/4	0.2500	6.10	15.63	95.64
C-400	14	0.0747	6.00	6.19	37.759 11
	6.00	0.1196		9.23	<b>55.38</b>
	10	0.1345	6.00	10.32	61.92
	9	0.1495	6.00	11.25	<b>67.50</b>
	3/16	0.1880	6.10	14.04	<b>85.64</b>
	1/4	0.2500	6.10	18.16	<b>110.77</b>

# PTR ESTRUCTURAL RECTANGULAR

DIMENSIONES EXTERIORES		CALIBRE	ESPESOR		KILOGRAMO POR METRO
PULG.	MM		PULG.	MM	
1 1/2 X 3/4	38.10 X 19.05	11	0.1196	3.04	2.25
1 1/2 X 1	38.10 X 25.4	11	0.1196	3.04	2.56
2 X 1	50.80 X 25.4	12	0.1046	2.66	3.07
		11	0.1196	3.04	3.16
2 1/2 X 1 1/4	63.50 X 31.75	12	0.1046	2.66	3.90
2 1/2 X 1 1/2	63.50 X 38.10	12	0.1046	2.66	4.17
		11	0.1196	3.04	4.38
2 3/4 X 1	69.85 X 25.4	12	0.1046	2.66	3.90
		11	0.1196	3.04	4.07
3 X 1	76.20 X 25.4	11	0.1196	3.04	4.38
		10	0.1345	3.42	4.86
3 X 2	76.20 X 50.80	12	0.1046	2.66	5.27
		11	0.1196	3.04	5.59
		10	0.1345	3.42	6.22
		9	0.1495	3.8	6.76
		3/16	0.1880	4.78	8.33
		1/4	0.2500	6.35	10.57
4 X 2	101.60 X 50.80	14	0.0747	1.900	4.61
		11	0.1196	3.04	6.81
		10	0.1345	3.42	7.59
		9	0.1495	3.8	8.26
		3/16	0.1880	4.78	10.24
		1/4	0.2500	6.35	13.10
4 X 3	101.60 X 76.20	14	0.0747	1.900	5.40
		11	0.1196	3.04	8.02
		9	0.1495	3.8	9.75
		3/16	0.1880	4.78	12.14
		1/4	0.2500	6.35	15.63
5 X 2	127 X 50.80	11	0.1196	3.04	8.02
		3/16	0.1880	4.78	12.14
		1/4	0.2500	6.35	15.63
5 X 3	127 X 76.20	14	0.0747	1.900	6.19
		11	0.1196	3.04	9.23
		10	0.1345	3.42	10.32
		9	0.1495	3.8	11.25
		3/16	0.1880	4.78	14.04
		1/4	0.2500	6.35	18.16

DIMENSIONES EXTERIORES		CALIBRE	ESPESOR		KILOGRAMO POR METRO
PULG.	MM		PULG.	MM	
6 X 2	152.4 X 50.80	11	0.1196	3.04	9.23
		9	0.1495	3.8	11.25
		3/16	0.1880	4.78	14.04
		1/4	0.2500	6.35	18.16
6 X 3	152.4 X 76.20	11	0.1196	3.04	10.45
		9	0.1495	3.8	12.75
		3/16	0.1880	4.78	15.94
		1/4	0.2500	6.35	20.69
6 X 4	152.4 X 101.60	11	0.1196	3.04	11.66
		9	0.1495	3.8	14.25
		3/16	0.1880	4.78	17.85
		1/4	0.2500	6.35	23.22

Fabricado en base a la norma ASTM A500 o A513 según aplique.



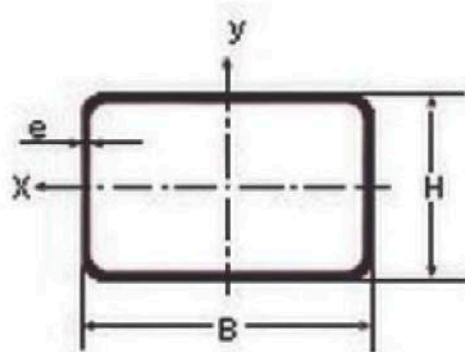
# PERFIL ESTRUCTURAL HSS: RECTANGULAR

**CATÁLOGO**  
DE PRODUCTOS 2022-2023

DIMENSIÓN (b)x(h)	ESPESOR (e)	PESO		ÁREA	EJES X-XE		EJES Y-Y			
		Pulg.	Pulg.		kg/m	lbs/pie	cm	cm <sup>4</sup>	cm	cm
7" X 5"	3/16"	21.62	14.53	27.55	1,240.40	193.3	6.717	36.7	116	5.18
	1/4"	28.31	9.02	36.1	1,581.70	178.6	6.63	940.71	48.1	5.11
	5/16"	34.73	23.34	44.26	1,893.90	21.3	6.55	119.7	177	5.03
	3/8"	40.89	27.48	52.13	2,172.70	244.2	6.45	1,282	2016.6	4.95
	1/2"	52.44	35.24	67.1	2,643.102	96.6	6.3	1,548.10	244.2	4.83
8" X 4"	3/16"	21.62	14.53	27.55	1,469.30	144.7	7.32	449.59	8.7	4.27
	1/4"	28.3	19.02	36.1	1,877.20	185.2	7.216	36.8	126	4.19
	5/16"	34.73	23.34	44.26	2,243.50	221.2	7.11	753.41	48.3	4.11
	3/8"	40.89	27.48	52.13	2,576.50	254	7.03	857.4	168.8	4.06
	1/2"	52.44	35.24	67.1	3,125.90	308.1	6.83	1,023.90	201.6	3.91
10" X 2"	3/16"	21.62	14.53	27.55	1,818.901	43.2	8.13	130.75	1.5	2.18
	1/4"	28.3	19.02	36.1	2,310.10	181.98	7.98	160.36	3.1	2.11
	5/16"	34.73	23.34	44.26	2,751.30	261.3	7.871	84	72.4	2.04
	3/8"	40.89	27.48	52.13	3,136.40	247.5	7.77	201.9	79.5	1.97
8" X 6"	3/16"	25.42	17.08	32.39	1,984.1	91.7	7.75	1,252.90	163.9	6.22
	1/4"	33.36	22.42	42.52	2,510.602	45.8	7.68	1,606.70	211.4	6.15
	5/16"	41.06	27.59	52.39	3,013.50	296.6	7.6	1,931.30	254	6.07
	3/8"	48.48	32.58	61.81	3,483.90	342.5	7.52	2,226.802	91	7.6
	1/2"	62.58	42.05	80	4,287.204	228	34	2,734.60	358.9	5.87
10" X 4"	3/16"	25.42	17.08	32.39	2,568.20	201.6	8.91	616.00	212.1	4.37
	1/4"	33.36	22.42	42.52	3,300.70	260.6	8.81	782.50	153.9	4.3
	5/16"	41.06	27.59	52.39	3,954.20	313	8.71	932.40	183.5	4.22
	3/8"	48.48	32.58	61.81	4,578.60	360.5	8.61	1,061.40	209.8	4.14
	1/2"	62.58	42.05	80	5,660.80	444.1	8.4	1,282	252.4	4.01
12" X 2"	3/16"	25.42	17.08	32.39	2,996.90	196.6	9.62	156.50	61.6	2.2
	1/4"	33.36	22.42	42.52	3,837.70	252.4	9.5	192.30	75.7	2.13
10" X 6"	3/16"	29.21	19.63	52.32	3,321.50	262.2	9.45	1,519.20	199.9	6.38
	1/4"	38.42	25.82	61.81	4,287.20	337.6	9.37	1,952.10	255.6	6.32
	5/16"	47.38	31.84	80	5,202.90	409.7	9.27	2,351.10	308.1	6.25
	3/8"	56.09	37.69	32.39	6,035.40	475.2	9.19	2,722.10	357.2	6.17
	1/2"	72.7	48.85	42.52	7,533.80	593.2	9.01	3,363.20	440.8	6.02

# PERFIL ESTRUCTURAL HSS: RECTANGULAR

DIMENSIÓN (b)x(h)	ESPESOR (e)	PESO		ÁREA		EJES X-XE		EJES Y-Y		
		Kg/m	lbs/pie	cm	cm <sup>4</sup>	cm	cm	cm <sup>4</sup>	cm	cm
18" X 6"	5/16"	72.71	48.86	110.32	22,726.20	994.70	15.67	4,037.40	529.3	6.6
	3/8"	86.46	58.1	144.52	26,680.40	1,168.40	15.57	4,703.40	616.2	6.53
	1/2"	113.2	76.07	92.9	34,047.70	1,489.60	15.37	5,868.90	773.5	6.4
20" X 4"	5/16"	72.71	48.86	110.32	24,807.40	976.70	16.36	1,818.90	357.2	4.42
	3/8"	86.46	58.1	144.52	29,094.60	1,145.50	16.26	2,093.60	411.3	4.37
	1/2"	113.2	76.07	92.9	37,201	1,456.80	16.03	2,564	504.7	4.22
16" X 12"	5/16"	85.36	57.36	110.32	26,430.70	1,301.10	15.6	17,023.90	1,117.60	12.52
	3/8"	101.66	68.31	144.52	31,134.10	1,532.20	15.51	20,062.40	1,315.90	12.45
	1/2"	133.46	89.68	92.9	40,041.50	1,966.50	15.34	25,723.10	1,687.90	12.26
20" X 8"	5/16"	85.36	57.36	110.32	34,880.20	1,373.20	17.9	8,407.90	825.90	8.79
	3/8"	101.66	68.31	144.52	41,123.70	1,619	17.83	9,823.10	968.50	8.71
	1/2"	133.46	89.68	109	52,861.40	2,081.20	17.63	12,486.90	1,230.70	8.59
20" X 12"	5/16"	98.03	65.87	129.68	44,953	1,769.80	18.93	20,603.50	1,352	12.85
	3/8"	116.85	78.52	170.32	53,227.60	2,097.50	18.9	24,266.30	1,593	12.76
	1/2"	153.73	103.3	109	68,675.20	2,703.90	18.72	31,217.40	2,048.40	12.62



## ALAMOS



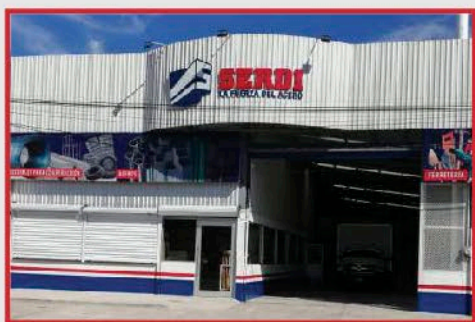
BLVD. MACARIO GAXIOLA #1395 SUR  
FRACC. ALAMOS, LOS MOCHIS, SIN.



**668 818 0590 /**  
**668 818 0290**

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## LA INDEPENDENCIA



AV. INDEPENDENCIA #1692 PTE.  
LOS MCHIS, SIN.



**668 812 2775 /**  
**668 668 6998**

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## HERMOSILLO



BLVD. GARCÍA MORALES #935 PTE.  
COL. EL LLANO, HERMOSILLO, SON.



**662 291 0099**

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# PERFIL ESTRUCTURAL HSS: CUADRADO

DIMENSIÓN	ESPESOR	PESO	ÁREA	I	EJES XX	EJES YY
					S	R
PULG.	PULG.	KG/M	CM <sup>2</sup>	CM <sup>4</sup>	CM <sup>3</sup>	CM
4" X 4"	3/16"	14.02	17.97	274.3	54.10	3.91
	1/4"	18.17	23.16	342.1	67.40	3.84
	5/16"	22.07	28.13	398.8	78.50	Ø
	3/8"	25.70	32.77	445.4	87.70	3.68
	1/2"	32.19	41.03	512	100.50	3.53
5" X 5"	3/16"	17.81	22.71	557.8	89.70	4.95
	1/4"	25.25	29.61	703.4	110.10	4.88
	5/16"	28.39	36.19	836.6	131.40	4.80
	3/8"	33.29	42.45	949	149.30	4.72
	1/2"	42.31	53.94	1,123.80	177.00	4.57
6" X 6"	3/16"	21.62	27.55	990.6	130.00	5.99
	1/4"	28.30	36.10	1,261.20	165.50	5.92
	5/16"	34.73	44.26	1,510.90	198.30	5.84
	3/8"	40.89	52.13	1,731.50	227.80	5.77
	1/2"	52.44	67.10	2,102.00	275.30	5.61
7" X 7"	3/16"	25.42	32.39	1,602.50	180.30	7.04
	1/4"	33.36	42.52	2,056.20	231.10	6.96
	5/16"	41.06	52.32	2,476.60	278.60	6.88
	3/8"	48.48	61.81	2,859.50	321.20	6.81
	1/2"	62.58	80.00	3,251.30	396.60	6.65
8" X 8"	3/16"	29.21	37.23	2,422.50	239.30	8.08
	1/4"	38.42	48.97	3,125.90	308.10	8.00
	5/16"	47.38	60.39	3,783.50	372.00	7.92
	3/8"	56.09	71.61	4,412.10	432.60	7.85
	1/2"	72.70	92.90	5,452.60	539.10	7.69
10" X 10"	1/4"	48.56	61.87	6,285.00	493.30	10.10
	5/16"	60.05	76.77	7,617.00	601.40	9.98
	3/8"	71.28	90.97	8,907.00	703.00	9.91
	1/2"	92.95	118.71	11,280.00	881.20	9.75
12" X 12"	1/4"	58.68	74.87	11,030.00	722.70	12.14
	5/16"	72.71	92.90	13,486.00	884.90	12.06
	3/8"	86.46	110.32	15,817.00	1,039.00	12.00
	1/2"	113.20	144.52	20,187.00	1,325.70	11.84
14" X 14"	5/16"	85.36	109.00	21,727.00	1,222.50	14.15
	3/8"	101.66	129.68	25,598.00	1,440.40	14.07
	1/2"	133.46	170.32	32,924.00	1,851.70	13.92
16" X 16"	5/16"	98.03	152.16	32,841.00	1,615.80	16.12
	3/8"	116.85	149.00	38,751.00	1,900.90	16.12
	1/2"	153.73	196.13	44,948.00	2,450.00	15.98

Fabricado en base a la norma ASTM A500 o A513 según aplique.

En largo de 6.10 y 12.20m.

TIPO	CALIBRE	ESPESOR		KG/MT	LONG (M.)	LONG (FT.)	ANCHO EN CM.	ALTO EN CM.	TIPO
		PULG.	MM.						
147	20	0.036	0.91	6.7	1.9509	6.4'	13		A
					2.440	8'	91	3	A
					3.0509	10'	13		A
					0.9109	3'	13		L
					1.9509	6.4'	13		L
					2.440	8'	91	3	L
148	20	0.036	0.91	6.7	1.830	6'	1025	1	LC
	22	0.030	0.76	5.7	1.830	6'	1025	1	LC
	20	0.036	0.91	6.7	1.219	4'	1025	1	LC
	22	0.030	0.76	5.7	0.9101	3'	02	5	LC
					1.980	6.5'		1	LC
149	20	0.036	0.91	6.7	2.440	8'	91	13	A
					3.0509	10'	11	3	A
					0.9108	3'2	21	3	L
					1.9508	6.4'	21	3	L
					2.440	8'	82	13	L
					3.0508	10'	21	3	L
					0.9108	3'	21	3	LC
					1.9508	6.4'	21	3	LC
					2.440	8'	82	13	LC
					3.0508	10'	21	3	LC

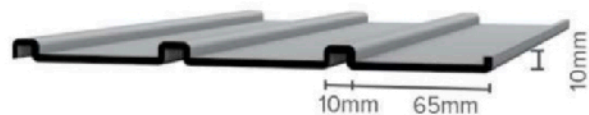
## TIPOS

L (LARGO ESTÁNDAR)  
 LC (LARGO CONTINUAR)  
 A (ANCHO ESTÁNDAR)

### PERFIL 147



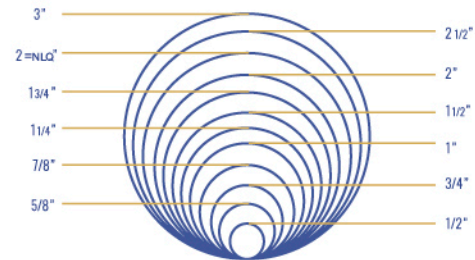
### PERFIL 149





DIÁMETRO EXTERIOR		CALIBRE (NOMINAL)	ESPESOR (PULG.)	LONGITUD (MTS.)	KILOGRAMOS POR METRO	PIEZAS X PAQUETE
PULG.	MM.					
1/2	0.500	20	0.0359	6.03	0.27	228
		18	0.0478	6.03	0.35	228
5/8"	0.625	20	0.0359	6.03	0.34	216
		18	0.0478	6.03	0.45	216
3/4"	0.750	20	0.0359	6.03	0.41	186
		18	0.0478	6.03	0.55	186
		16	0.0598	6.03	0.68	186
7/8"	0.875	20	0.0359	6.03	0.48	180
		18	0.0478	6.03	0.64	180
		16	0.0598	6.03	0.8	180
		14	0.0747	6.03	0.99	169
1"	1.000	20	0.0359	6.03	0.55	137
		18	0.0478	6.03	0.74	137
		16	0.0598	6.03	0.92	137
1 1/4"	1.250	20	0.0359	6.03	0.69	124
		18	0.0478	6.03	0.93	124
		16	0.0598	6.03	1.17	124
		14	0.0747	6.03	1.45	127
1 1/2"	1.500	20	0.0359	6.03	0.83	95
		18	0.0478	6.03	1.13	95
		16	0.0598	6.03	1.42	95
		14	0.0747	6.03	1.76	91
1 3/4"	1.750	20	0.0359	6.03	0.98	69
		18	0.0478	6.03	1.33	69
		16	0.0598	6.03	1.66	69
		14	0.0747	6.03	2.07	61
1 7/8"	1.875	20	0.0359	6.03	1.05	95
		12	0.1046	6.03	3.06	
2"	2.000	20	0.0359	6.03	1.12	67
		18	0.0478	6.03	1.52	67
		16	0.0598	6.03	1.91	67
		14	0.0747	6.03	2.38	61
2 1/8"	2.125	14	0.0747	6.03	2.54	61
2 1/4"	2.250	18	0.0478	6.03	1.71	60
		16	0.0598	6.03	2.16	60
		14	0.0747	6.03	2.69	61
2 3/8"	2.375	12	0.1046	6.1	3.93	
		10	0.1345	6.4	5.24	
2 1/2"	2.500	18	0.0478	6.03	1.91	60
		16	0.0598	6.03	2.4	60
		14	0.0747	6.03	3	61
2 3/4"	2.750	11	0.1196	6.03	5.02	30
2 7/8"	2.875	12	0.1046	6.1	4.79	
		9	0.1495	6.4	6.41	
		3/16	0.188	6.4	8.03	
3"	3.000	18	0.0478	6.03	2.3	39
		16	0.0598	6.03	2.9	39
		14	0.0747	6.1	3.62	37

### ESPECIFICACIONES



**L** (LARGO ESTÁNDAR) = 6.00 MTS.  
**T.P.** (TROQUELADO PROFUNDO)  
**C.C.** (CALIDAD COMERCIAL)



# TUBERÍA EN DIÁMETROS MAYORES

ESPESOR		0.172	0.188	0.203	0.219	0.250	0.281	0.312	0.322	0.330	0.344	0.365
		11/64	3/16	13/64	7/32	1/4	9/32	5/16	C/40	21/64	11/32	C/40
DIÁMETRO NÓMINAL	DIÁMETRO EXTERIOR	KILOGRAMOS / METROS										
6"	6.625	17.67	19.27	20.76	22.31	25.36	Δ28.26	31.32			34.34	
8"	8.625		25.26	27.22	29.28	33.31		41.24	Δ42.55		45.34	
10"	10.750		31.62	34.08	36.67	41.75					56.96	Δ60.29
12"	12.750		37.62	40.55	43.63	49.71	55.75	61.69		□ 65.18	67.90	
14"	14.000		41.35		47.99	+54.69	61.35	67.90			74.76	
16"	16.000		47.35	51.06	54.96	+62.84	70.30	77.83			85.71	
18"	18.000					+70.6	79.24	87.75			96.66	
20"	20.000					+78.55	88.19	97.67			107.60	
24"	24.000					+94.46	106.08	117.51			129.50	
30"	30.000					118.33	132.91	+147.28			173.34	
36"	36.000					142.13	159.97	+176.96			195.11	
48"	48.000										260.85	

ESPESOR		0.375	0.406	0.438	0.469	0.500	0.562	0.625	0.688	0.750	0.812	0.875
		3/8	C/40	7/16	15/32	1/2	C/40	5/8	C/80	3/4	C/60	XXS
DIÁMETRO NÓMINAL	DIÁMETRO EXTERIOR	KILOGRAMOS / METROS										
	6.625	37.28										
8"	8.625	49.20										
10"	10.750			71.87								
12"	12.750	Δ 73.78	79.70	85.82								
14"	14.000	□Δ 81.25	87.79	94.55	100.94							
16"	16.000	□Δ 93.27	100.70	108.49	115.86	123.30						
18"	18.000	Δ 105.1	113.62	□122.43	130.78	139.20	155.87					
20"	20.000	Δ 117.02	126.53	136.37	145.70	□155.12						
24"	24.000	Δ 140.88	152.37	164.26	175.54	186.94	□209.5	232.66	255.24			
30"	30.000	Δ 176.84	191.11	206.09	220.30	234.67	263.12	□292.18	320.93	349.02	376.98	405.54
36"	36.000	Δ 212.59	229.76	247.31	264.94	282.27	316.11	□351.7	386.45	420.42	454.27	488.86
48"	48.000	Δ284.24	307.30	331.52	354.52	377.79	423.94	471.14	517.92	563.70	609.36	656.06

CÉDULA 10+ CÉDULA 20 CÉDULA 30\* CÉDULA 40# ESTÁNDAR

\*PESOS TEÓRICOS SUJETOS A UNA VARIACIÓN DE +/- 5%

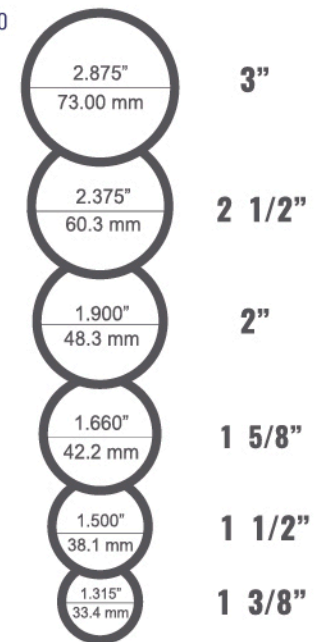
DIÁMETRO NOMINAL	DIÁMETRO REAL (LN)	CÉDULA 30				CÉDULA 40				CÉDULA X			
		CALIBRE	LONGITUD (METROS)	KG X METRO	KG X PIEZA	CALIBRE	LONGITUD (METROS)	KG X METRO	KG X PIEZA	CALIBRE	LONGITUD (METROS)	KG X METRO	KG X PIEZA
1/2"	0.840"	14	6.10	0.95	5.795	12	6.40	1.27	8.1286	13	6.40	1.07	.848
3/4"	1.050"	14	6.10	1.21	7.381	12	6.40	1.63	10.432	-	-	-	-
1"	1.315"	14	6.10	1.532	9.333	0-	6.40	.53-	16.192	-	-	-	-
1 1/4"	1.660"	13	6.10	2.25	13.725	0-	6.40	3.27	20.928	-	-	-	-
1 1/2"	1.900"	13	6.10	2.593	15.799	10	6.40	.79-	24.256	-	-	-	-
2"	2 3/8"	12	6.10	3.93	23.973	9-	6.40	5.24-	33.536	-	-	-	-
2 1/2"	2 7/8"	12	6.10	4.79	29.219	-	6	-	-	9	.40	.41	41.024
3"	3 1/2"	11	6.10	6.45	39.345	43	6.40	11.67	74.688	/16"	6.40	9.90	63.360
4"	4 1/2"	11	6.10	8.35	50.935	43	6.40	15.241	97.536	/16"	6.40	2.88	82.432
6"	6 5/8"	3/16	6.10	19.23	117.3031	.280"-	6.40	28.24	80.736	-	-	-	-

PESOS TEÓRICOS SUJETOS A UNA VARIACIÓN DE +/- 5% EN CALIBRES 11 Y MÁS DELGADOS.  
 PESOS TEÓRICOS SUJETOS A UNA VARIACION DE +/- 10% EN CALIBRES DE 10 O MÁS GRUESOS.

## TUBO CERQUERO GALVANIZADO

DIÁMETRO NOMINAL	DIÁMETRO COMERCIAL PULGADAS	DIÁMETRO COMERCIAL MILÍMETROS	CALIBRE	ESPOSOR MM	PESO KG/ML	PESO KG/PZA
3"	2.875	73.0	14	1.92	3.42	20.52
			16	1.54	2.78	16.68
			18	1.24	2.23	13.38
2 1/2"	2.375	60.3	14	1.92	2.84	17.04
			16	1.54	2.29	13.74
			18	1.24	1.85	11.10
2"	1.900	48.3	14	1.92	2.27	13.62
			16	1.54	1.83	10.98
			18	1.24	1.48	8.88
			20	0.93	1.13	6.78
			22	0.798	0.97	5.80
1 5/8"	1.660	42.2	18	1.24	1.29	7.74
			20	0.93	0.98	5.88
1 1/2"	1.500	38.1	18	1.24	1.16	6.96
			20	0.93	0.89	5.34
			22	0.798	0.76	4.56
1 3/8"	1.315	33.4	18	1.24	1.02	6.12
			20	0.93	0.77	4.62

DIÁMETRO



LARGO ESTÁNDAR: 6.00 MTS.

TUBO DE ACERO GALVANIZADO A BASE DE UNA CAPA G-60 (0.60 Z/PIE2) EQUIVALENTE A 0.183 KG/M2 POR AMBAS CARAS.  
 METALIZADO A BASE DE ZINC EN LA COSTURA DE SOLDADURA.

DIÁMETRO PULG.	CÉDULA	DIÁMETRO EXTERIOR NOMINAL		ESPESOR NOMINAL		PRESIÓN HIDROSTÁTICA		PESO			
		PULG.	MM.	PULG.	MM.	LB/IN <sup>2</sup>	KG/CM	LP/PIE	KG/M	KGX 6.40M	LBX21PIE
1/2"	40	0.840	21.34	0.1097	2.77	00	49	0.85	127	8.11	17.887
	80	0.840	21.34	0.147	3.73	850	60	1.09	162	10.37	22.869
3/4"	40	1.0500	26.67	0.113	2.87	7001	49	1.13	1.68	0.78	23.769
	80	1.0500	26.67	0.154	3.91	850	60	1.48	2.20	14.05	30.976
1"	40	1.3150	33.40	0.133	3.38	7001	49	1.68	2.50	6.01	35.291
	80	1.3150	33.40	0.179	4.55	850	60	2.17	3.24	20.70	45.649
1 1/4"	40	1.660	42.16	0.1401	3.56	2002	84	2.27	3.39	1.67	47.771
	80	1.660	42.16	0.191	4.85	1800	126	3.00	4.46	28.57	62.987
1 1/2"	40	1.9000	48.26	0.145	3.68	1200	84	2.72	4.05	25.91	57.127
	80	1.900	48.26	0.200	5.08	1800	126	3.36	5.41	34.62	76.327
2"	40	2.3750	60.33	0.154	3.91	23003	162	3.66	5.44	4.83	76.783
	80	2.3750	60.33	0.218	5.54	25004	176	5.03	7.48	7.88	105.561
2 1/2"	40	2.8750	73.03	0.203	5.16	1950	137	5.80	8.63	55.23	121.767
	NX	2.8750	73.03	0.156	3.96	25004	176	4.53	6.75	3.19	95.221
3"	40	3.5000	88.90	0.216	5.49	22007	155	7.58	11.29	2.23	159.241
	NX	3.5000	88.90	0.170	4.32	1930	136	6.05	9.01	57.64	127.084
4"	40	4.5000	114.30	0.237	6.02	1900	134	10.80	16.07	102.87	226.809
	NX	4.500	114.30	0.188	4.78	1500	105	8.67	12.90	82.54	181.984
6"	40	6.625	168.28	0.280	7.11	1500	105	18.99	28.27	180.90	398.829
		6.625	168.28	0.219	5.56	1190	84	15.00	22.32	142.85	314.940

ASTM A53T

-200 = NX



## SOLIDARIDAD



**BLVD. SOLIDARIDAD #805**  
COL. SOLIDARIDAD, HERMOSILLO, SON.



**662 118 6767 /**  
**662 118 6768**

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## AGUAPRIETA



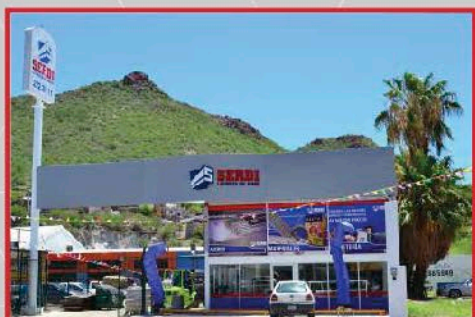
**CALLE #27 ESQUINA CON AV. 6**  
COL. EJIDAL #651, AGUAPRIETA, SON.



**633 121 222 /**  
**633 121 2104**

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## GUAYMAS



**BLVD. AGUSTÍN GARCÍA LÓPEZ #875**  
COL. DELICIAS, GUAYMAS, SON.



**622 222 2011 /**  
**622 222 2001**

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## POLÍN C

PERFIL Y DESIGNACIÓN	SECCIÓN AXB PERALTE X ANCHO (PULGADAS)	CALIBRE	PIEZA X PAQUETE	DIMENSIONES DE LAS SECCIONES				LONGITUD ESTANDAR DE FABRICACIÓN M	PESO KG/M
				A	B	C	T		
				PERALTE (MM)	ANCHO (MM)	DOBLE Z (MM)	ESESOR (MM)		
14EPC10	14 x 3.50	10	12	356	89	25	3.42	14.00	15.0
14EPC12	14 x 3.50	12	12	356	89	25	2.66	14.00	12.1
14EPC14	14 x 3.50	14	12	356	89	25	1.90	14.00	8.7
12EPC10	12 x 3.50	10	12	305	89	25	3.42	12.00	13.6
12EPC12	12 x 3.50	12	12	305	89	25	2.66	12.00	11.0
12EPC14	12 x 3.50	14	12	305	89	25	1.90	12.00	7.9
10EPC10	10 x 2.75	10	12	254	70	19	3.42	10.00	11.2
10EPC12	10 x 2.75	12	12	254	70	19	2.66	10.00	9.1
10EPC14	10 x 2.75	14	12	254	70	19	1.90	10.00	6.5
10EPC16	10 x 2.75	16	12	254	70	19	1.52	10.00	5.2
9EPC10	9 x 2.75	10	12	229	70	19	3.42	9.00	10.6
9EPC12	9 x 2.75	12	12	229	70	19	2.66	9.00	8.5
9EPC14	9 x 2.75	14	12	229	70	19	1.90	9.00	6.1
9EPC16	9 x 2.75	16	12	229	70	19	1.52	9.00	4.9
8EPC10	8 x 2.75	10	24	203	70	19	3.42	8.00	9.9
8EPC12	8 x 2.75	12	24	203	70	19	2.66	8.00	8.0
8EPC14	8 x 2.75	14	24	203	70	19	1.90	8.00	5.7
8EPC16	8 x 2.75	16	24	203	70	19	1.52	8.00	4.5
7EPC10	7 x 2.75	10	24	178	70	19	3.42	7.00	9.2
7EPC12	7 x 2.75	12	24	178	70	19	2.66	7.00	7.4
7EPC14	7 x 2.75	14	24	178	70	19	1.90	7.00	5.3
7EPC16	7 x 2.75	16	24	178	70	19	1.52	7.00	4.2
6EPC10	6 x 2.00	10	48	152	51	19	3.42	6.00	7.3
6EPC12	6 x 2.00	12	48	152	51	19	2.66	6.00	5.9
6EPC14	6 x 2.00	14	48	152	51	19	1.90	6.00	4.2
6EPC16	6 x 2.00	16	48	152	51	19	1.52	6.00	3.3
5EPC10	5 x 2.00	10	48	127	51	19	3.42	6.00	6.6
5EPC12	5 x 2.00	12	48	127	51	19	2.66	6.00	5.3
5EPC14	5 x 2.00	14	48	127	51	19	1.90	6.00	3.8
5EPC16	5 x 2.00	16	48	127	51	19	1.52	6.00	3.0
4EPC10	4 x 2.00	10	48	102	51	19	3.42	6.00	5.9
4EPC12	4 x 2.00	12	48	102	51	19	2.66	6.00	4.8
4EPC14	4 x 2.00	14	48	102	51	19	1.90	6.00	3.4
4EPC16	4 x 2.00	16	48	102	51	19	1.52	6.00	2.7
4EPC10	4 x 1.50	10	48	102	38	19	3.42	6.00	5.2
4EPC12	4 x 1.50	12	48	102	38	19	2.66	6.00	4.2
4EPC14	4 x 1.50	14	48	102	38	19	1.90	6.00	3.0
4EPC16	4 x 1.50	16	48	102	38	19	1.52	6.00	2.4
3EPC14	3 x 1.50	14	60	76	38	19	1.90	6.00	2.6
3EPC16	3 x 1.50	16	60	76	38	19	1.52	6.00	2.1

## POLÍN Z

PERFIL Y DESIGNACIÓN	SECCIÓN AXB PERALTE TOTAL X ANCHO TOTAL (PULGADAS)	CALIBRE	PIEZA X PAQUETE	DIMENSIONES DE LAS SECCIONES					LONGITUD ESTANDAR DE FABRICACIÓN	PESO KG/M
				A PERALTE (MM)	BS ANCHO MAX PATÍN SUPERIOR (MM)	BI ANCHO MIN. PATÍN INFERIOR (MM)	C DOBLE Z (MM)	T EPESOR (MM)		
				M						
14EPZ10	14 x 3.50	10	12	356	95	89	25	3.42	14.00	15.0
14EPZ12	14 x 3.50	12	12	356	95	89	25	2.66	14.00	12.1
14EPZ14	14 x 3.50	14	12	356	95	89	25	1.90	14.00	8.7
12EPZ10	12 x 3.50	10	12	305	95	89	25	3.42	12.00	13.6
12EPZ12	12 x 3.50	12	12	305	95	89	25	2.66	12.00	11.0
12EPZ14	12 x 3.50	14	12	305	95	89	25	1.90	12.00	7.9
10EPZ10	10 x 2.75	10	12	254	76	70	19	3.42	10.00	11.2
10EPZ12	10 x 2.75	12	12	254	76	70	19	2.66	10.00	9.1
10EPZ14	10 x 2.75	14	12	254	76	70	19	1.90	10.00	6.5
10EPZ16	10 x 2.75	16	12	254	76	70	19	1.52	10.00	5.2
9EPZ10	9 x 2.75	10	12	229	76	70	19	3.42	9.00	10.6
9EPZ12	9 x 2.75	12	12	229	76	70	19	2.66	9.00	8.5
9EPZ14	9 x 2.75	14	12	229	76	70	19	1.90	9.00	6.1
9EPZ16	9 x 2.75	16	12	229	76	70	19	1.52	9.00	4.9
8EPZ10	8 x 2.75	10	24	203	76	70	19	3.42	8.00	9.9
8EPZ12	8 x 2.75	12	24	203	76	70	19	2.66	8.00	8.0
8EPZ14	8 x 2.75	14	24	203	76	70	19	1.90	8.00	5.7
8EPZ16	8 x 2.75	16	24	203	76	70	19	1.52	8.00	4.5
7EPZ10	7 x 2.75	10	24	178	76	70	19	3.42	7.00	9.2
7EPZ12	7 x 2.75	12	24	178	76	70	19	2.66	7.00	7.4
7EPZ14	7 x 2.75	14	24	178	76	70	19	1.90	7.00	5.3
7EPZ16	7 x 2.75	16	24	178	76	70	19	1.52	7.00	4.2
6EPZ10	6 x 2.00	10	48	152	57	51	19	3.42	6.00	7.3
6EPZ12	6 x 2.00	12	48	152	57	51	19	2.66	6.00	5.9
6EPZ14	6 x 2.00	14	48	152	57	51	19	1.90	6.00	4.2
6EPZ16	6 x 2.00	16	48	152	57	51	19	1.52	6.00	3.3
5EPZ10	5 x 2.00	10	48	127	57	51	19	3.42	6.00	6.6
5EPZ12	5 x 2.00	12	48	127	57	51	19	2.66	6.00	5.3
5EPZ14	5 x 2.00	14	48	127	57	51	19	1.90	6.00	3.8
5EPZ16	5 x 2.00	16	48	127	57	51	19	1.52	6.00	3.0
4EPZ10	4 x 2.00	10	48	102	57	51	19	3.42	6.00	5.9
4EPZ12	4 x 2.00	12	48	102	57	51	19	2.66	6.00	4.8
4EPZ14	4 x 2.00	14	48	102	57	51	19	1.90	6.00	3.4
4EPZ16	4 x 2.00	16	48	102	57	51	19	1.52	6.00	2.7
4EPZ10	4 x 1.50	10	48	102	44	38	19	3.42	6.00	5.2
4EPZ12	4 x 1.50	12	48	102	44	38	19	2.66	6.00	4.2
4EPZ14	4 x 1.50	14	48	102	44	38	19	1.90	6.00	3.0
4EPZ16	4 x 1.50	16	48	102	44	38	19	1.52	6.00	2.4

# LÁMINA ROLADO EN CALIENTE DECAPADA Y SIN DECAPAR

CALIBRE	ESPESOR		KG/HOJA						PESO
	PULG.	MM.	3'X8'	3'X10'	4'X8'	4'X10'	5'X10'	5'X20'K	G/M <sup>2</sup>
8	0.165	4.191	74.13	92.66	98.84	123.55	154.44	308.88	33.25
9	0.150	3.810	67.39	84.24	89.86	112.32	—	—	30.23
10	0.135	3.429	60.65	75.82	80.87	101.09	126.36	252.72	27.2
11	0.120	3.048	53.91	67.39	71.88	89.86	112.32	224.64	24.18
12	0.105	2.667	47.17	58.97	62.90	78.62	98.28	196.56	21.16
13	0.090	2.286	40.44	50.54	53.91	67.39	—	—	18.14
14	0.075	1.905	33.70	42.12	44.93	56.16	70.20	140.40	15.11
16	0.060	1.524	26.96	33.70	35.94	44.93	—	—	12.09

# LÁMINA ROLADO EN FRÍO

CALIBRE	ESPESOR		KG/HOJA				PESO
	PULG.	MM.	3'X8'	3'X10'	4'X8'	4'X10'	KG/M <sup>2</sup>
14	0.075	1.905	33.70	42.12	44.93	56.161	5.11
16	0.060	1.524	26.96	33.70	35.94	44.93	12.09
18	0.048	1.219	21.57	26.96	28.75	35.94	9.67
20	0.036	0.914	16.17	20.22	21.57	26.96	7.25
22	0.030	0.762	13.48	16.85	17.97	22.46	6.05
24	0.024	0.610	10.78	13.48	14.38	17.97	4.84

# LÁMINA ANTIDERRAPANTE

CALIBRE	ESPESOR		KG / HOJA			
	PULG	MM.	3'x8'	3'x10'	4'x8'	4'x10'
14	0.075	1.905	40.80	51.00	54.40	68.00
12	0.105	2.667	57.12	71.41	76.17	95.21
11	0.120	3.04	64.84	81.05	86.45	108.06
1/8	0.125	3.175	—	83.81	—	111.74
10	0.135	3.42	74.11	92.64	98.82	123.52
3/16	0.188	4.775	94.81	118.51	126.41	158.01
1/4	0.25	6.35	122.54	153.18	163.39	204.24
3/8	0.375	9.529	—	—	—	296.65



# PLACA DE GRADO (A-36)

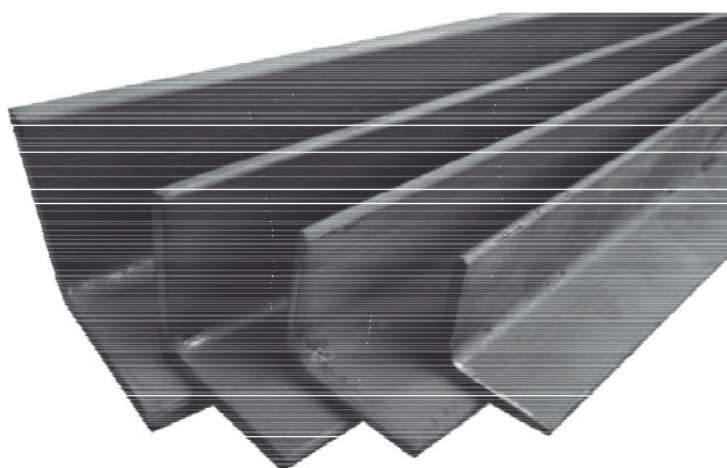
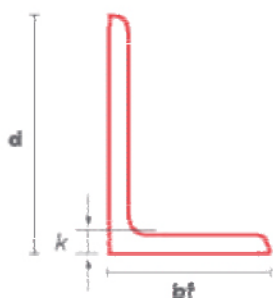
A-36, A-283 C, A-285 C, A-516 70, A-572 50, A-572 65, SAE 1045

ESPESOR		PESO		PESOS POR PLACA EN KILOS											
PULG.	MM.	KG/M <sup>2</sup>	KG/PIE <sup>2</sup>	3'X6'	3'X8'	3'X10'	4'X8'	4'X10'	5'X10'	5'X20'	6'X20'	6'X40'	8'X20'	8'X40'	
3/16"	4.8	37.78	3.51	---	84	105	112	140	176	351	421	---	562	1,123	
1/4"	6.3	50.38	4.68	---	112	140	150	187	234	468	562	---	749	1,498	
5/16"	7.9	62.97	5.85	---	140	176	187	234	293	585	702	---	936	---	
3/8"	9.5	75.56	7.02	---	168	211	225	281	351	702	842	1,685	1,123	2,246	
7/16	11.1	88.16	8.19	---	---	246	---	---	---	---	983	---	---	---	
1/2"	12.7	100.75	9.36	---	225	281	300	374	468	936	1,123	2,246	1,498	2,995	
9/16"	14.3	113.34	10.53	---	---	316	---	---	---	---	1,264	---	---	---	
5/8"	15.9	125.94	11.7	211	281	351	374	468	585	1,170	1,404	2,808	1,872	3,744	
3/4"	19	151.13	14.04	253	337	421	449	562	702	1,404	1,685	3,370	2,246	4,493	
7/8"	22.2	176.31	16.38	---	---	491	---	---	---	---	1,966	---	2,621	---	
1"	25.4	201.5	18.72	337	449	562	599	749	936	1,872	2,246	4,493	2,995	5,990	
1 1/8"	28.6	226.69	21.06	---	---	632	---	---	---	---	2,527	---	3,370	6,739	
1 1/4"	31.7	251.88	23.4	---	562	702	749	936	1,170	2,340	2,808	5,616	3,744	7,488	
1 3/8"	34.9	277.06	25.74	---	---	---	---	---	---	---	---	---	4,118	---	
1 1/2"	38.1	302.25	28.08	---	674	842	899	1,123	1,404	2,808	3,370	---	4,493	---	
1 5/8"	41.3	327.44	30.42	---	---	---	---	---	---	---	---	---	4,867	---	
1 3/4"	44.4	352.63	32.76	---	---	938	---	---	1,872	---	3,931	---	5,242	---	
2"	50.8	403	37.44	---	899	1,123	1,198	1,498	---	3,744	4,493	---	5,990	11,980	
2 1/4"	57.1	453.38	42.12	---	---	1,264	---	1,685	---	---	5,054	---	6,739	---	
2 1/2"	63.5	503.75	46.80	---	---	1,404	---	1,872	---	---	5,616	---	7,488	---	
2 3/4"	69.8	554.13	51.48	---	---	---	---	---	---	---	---	---	8,237	---	
3"	76.2	604.5	56.16	---	---	1,685	---	2,246	---	---	6,739	---	8,986	---	
3 1/2"	88.9	705.25	65.52	---	---	---	---	---	---	6,552	7,935	---	10,483	---	
4"	101.6	806	74.88	---	---	---	---	---	---	7,448	9,069	---	11,981	---	
4 1/2"	114.3	906.75	84.24	---	---	---	---	---	---	---	---	---	13,478	---	
5"	127	1007.5	93.6	---	---	---	---	---	---	---	---	---	14,976	---	
5 1/2"	139.7	1108.25	102.96	---	---	---	---	---	---	---	---	---	16,474	---	

DIMENSIONES		PESO		ÁREA	PROPIEDADES								
					EJEX - X				EJEE Y - Y				EJE Z - Z
					l	r	s	y	l	r	s	x	r.mh
PULG.	MM.	KG/M	KG/PZA	cm <sup>2</sup>	cm <sup>4</sup>	cm	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm	cm <sup>3</sup>	cm	cm
4X3X1/4	101X76.2X6.3	8.63	52.64	10.90	115.30	3.25	16.39	3.15	56.60	2.26	9.83	1.88	1.65
4X3X5/16	101X76.2X7.9	10.72	65.39	13.48	140.70	3.23	20.16	3.20	68.70	2.25	11.96	1.93	1.65
4X3X3/8	101X76.2X9.5	12.65	77.17	16.00	164.80	3.20	23.93	3.25	79.90	2.23	14.26	1.98	1.62
4X3X7/16	101X76.2X11.1	14.58	86.94	18.51	188.10	3.18	27.53	3.30	90.70	2.21	16.22	2.03	1.62
4X3X1/2	101X76.2X12.7	16.52	100.77	20.96	210.20	3.16	30.97	3.88	100.70	2.19	18.36	2.11	1.62
4X3X5/8	101X76.2X15.9	20.24	123.46	25.67	251.00	3.12	37.69	3.48	119.50	2.15	22.13	2.21	1.62
6X4X5/16	152X101X7.9	15.19	92.66	19.44	472.70	4.93	45.58	4.87	173.10	2.98	22.10	2.33	2.24
6X4X3/8	152X101X9.5	18.31	111.69	23.29	560.60	4.91	54.40	4.93	203.90	2.96	26.22	2.39	2.23
6X4X7/16	152X101X11.1	21.28	129.81	26.97	643.50	4.88	62.76	4.98	233.10	2.94	30.31	2.44	2.21
6X4X1/2	152X101X12.7	24.11	147.07	30.65	723.80	4.86	70.96	5.05	261.00	2.92	34.08	2.51	2.21
6X4X5/8	152X101X15.9	28.76	181.54	37.81	877.00	4.82	87.02	5.16	313.00	2.88	41.62	2.62	2.18

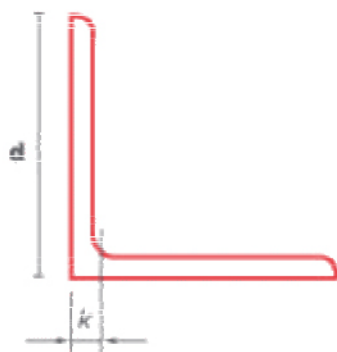
EN CASO DE NECESITAR OTRA MEDIDA CONSULTAR CON SU ASESOR DE VENTAS.

LARGO 6.10 M (20')



# ÁNGULOS DE LADOS IGUALES

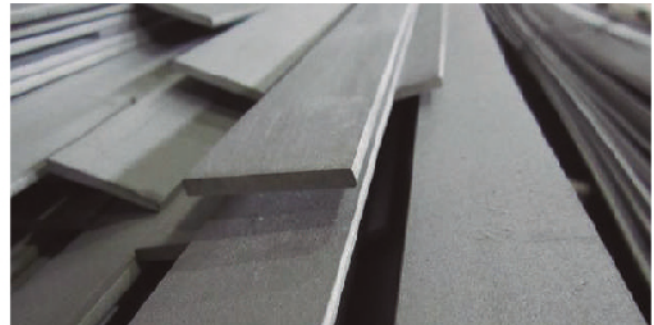
ESPESOR	ANCHO	ESPESOR	ANCHO	PESO
PULGADA		MM		KG /M
1/8	X 3/4	3.2	X 19.0	0.88
	X 1		X 25.4	1.19
	X 1 1/4		X 31.7	1.50
	X 1 1/2		X 38.1	1.83
	X 2		X 50.8	2.46
3/16	X 1	4.6	X 25.4	1.73
	X 1 1/4		X 31.7	2.20
	X 1 1/2		X 38.1	2.68
	X 1 3/4		X 44.4	3.15
	X 2		X 50.8	3.63
	X 2 1/2		X 63.5	4.57
	X 3		X 76.2	5.52
1/4	X 1	6.3	X 25.4	2.22
	X 1 1/4		X 31.7	2.86
	X 1 1/2		X 38.1	3.48
	X 2		X 50.8	4.75
	X 2 1/2		X 63.5	6.10
	X 3		X 76.2	7.29
	X 4		X 101.6	9.82
5/16	X 3	7.9	X 76.2	9.08
	X 4		X 101.6	12.20
	X 6		X 152.4	18.30
3/8	X 2	9.5	X 50.8	6.99
	X 2 1/2		X 63.5	8.78
	X 3		X 76.2	10.71
	X 4		X 101.6	14.58
	X 5		X 127.0	18.30
	X 6		X 152.4	22.17



## A 6.10 MTS (20 PIES)

PULGADA		MM	KG/M
1/8	X 1/2	X 12.7	0.32
	X 3/4	X 19.0	0.47
	X 1	X 25.4	0.63
	X 1 1/4	X 31.7	0.79
	X 1 1/2	X 38.1	0.95
	X 2	X 50.8	1.27
3/16	X 1/2	X 12.7	0.47
	X 3/4	X 19.0	0.71
	X 1	X 25.4	0.95
	X 1 1/4	X 31.7	1.19
	X 1 1/2	X 38.1	1.42
	X 2	X 50.8	1.90
1/4	X 1	X 25.4	1.27
	X 1 1/4	X 31.7	1.58
	X 1 1/2	X 38.1	1.90
	X 2	X 50.8	2.53
	X 2 1/2	X 63.5	3.17
	X 3	X 76.2	3.79
	X 4	X 101.6	5.06
	X 5	X 127.0	6.32
	X 6	X 152.4	7.59
	X 8	X 203.2	10.13
	X 10	X 254.0	12.66
	X 12	X 304.8	15.18
3/8	X 1	X 25.4	1.90
	X 1 1/4	X 31.7	2.38
	X 1 1/2	X 38.1	2.84
	X 2	X 50.8	3.79
	X 2 1/2	X 63.5	4.75
	X 3	X 76.2	5.70
	X 4	X 101.6	7.59
	X 5	X 127.0	9.49
	X 6	X 152.4	11.40
	X 8	X 203.2	15.18
	X 10	X 254.0	18.99
	X 12	X 304.8	22.80

SE MANEJAN EN ACERO A-36

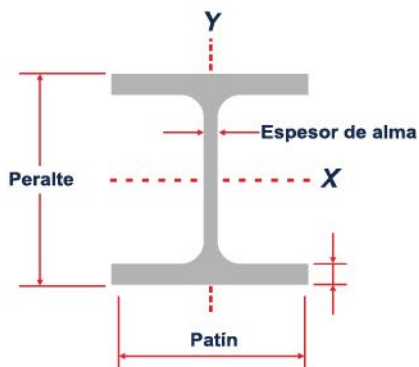


PULGADA		MM	KG/M
1/2	X 1	X 25.4	2.53
	X 1 1/2	X 38.1	3.79
	X 2	X 50.8	5.06
	X 2 1/2	X 63.5	6.32
	X 3	X 76.2	7.59
	X 4	X 101.6	10.13
	X 5	X 127.0	12.66
	X 6	X 152.4	15.18
	X 8	X 203.2	20.24
	X 10	X 254.0	25.33
	X 12	X 304.8	30.36
	5/8	X 3	X 76.2
X 4		X 101.6	12.66
X 5		X 127.0	15.83
X 6		X 152.4	18.99
X 8		X 203.2	25.33
X 10		X 254.0	31.66
X 12		X 304.8	37.97
3/4	X 2	X 50.8	7.59
	X 2 1/2	X 63.5	9.49
	X 3	X 76.2	11.40
	X 4	X 101.6	15.18
	X 5	X 127.0	18.99
	X 6	X 152.4	22.80
	X 8	X 203.2	30.36
	X 10	X 254.0	37.97
	X 12	X 304.8	45.59
	1	X 2	X 50.8
X 3		X 76.2	15.18
X 4		X 101.6	20.27
X 6		X 152.4	30.36
X 8		X 203.2	40.53
X 10		X 254.0	50.65
X 12		X 304.8	60.71



## VIGAS IPR

DIMENSIONES		PESO		PERALTE		ANCHO DEL PATÍN		ESPESOR DEL PATÍN		ESPESOR DEL ALMA	
PULG.	MM	KG/MT	LBS/FT	PULG.	MM	PULG.	MM	PULG.	MM	PULG.	MM
4"x4"	101.6 X 101.6	19.3	13	4.16	106	4.06	103	0.35	8.9	0.28	7.1
6"x4"	152.4 X 101.6	12.7	8.5	5.83	148	3.94	100	0.19	4.8	0.17	4.3
		13.4	9	5.90	150	3.94	100	0.22	5.6	0.17	4.3
		17.9	12	6.03	153	4.00	102	0.28	7.1	0.23	5.8
		23.8	16	6.28	160	4.03	102	0.41	10.4	0.26	6.6
6"x6"	152.4 X 152.4	22.3	15	5.99	152	5.99	152	0.26	6.6	0.23	5.8
		29.8	20	6.20	157	6.02	153	0.37	9.4	0.26	6.6
		37.2	25	6.38	162	6.08	154	0.46	11.7	0.32	8.1
8"x4"	203.2 X 101.6	14.9	10	7.89	200	3.94	100	0.21	5.3	0.17	4.3
		19.3	13	7.99	203	4.00	102	0.26	6.6	0.23	5.8
		22.3	15	8.11	206	4.02	102	0.32	8.1	0.25	6.3
8"x5 1/4"	203.2 X 133.3	26.8	18	8.14	207	5.25	133	0.33	8.4	0.23	5.8
		31.3	21	8.28	210	5.27	134	0.40	10.2	0.25	6.3
8"x6 1/2"	203.2 X 165.1	35.7	24	7.93	201	6.50	165	0.40	10.2	0.25	6.3
		41.7	28	8.06	205	6.54	166	0.47	11.9	0.29	7.4
8"x8"	203.2 X 203.2	46.1	31	8.00	203	8.00	203	0.44	11.2	0.29	7.4
		52.1	35	8.12	206	8.02	204	0.50	12.7	0.31	7.9
		59.5	40	8.25	210	8.07	205	0.56	14.2	0.36	9.1
		71.4	48	8.50	216	8.11	206	0.69	17.4	0.40	10.2
10"x4"	254.0 X 101.6	17.9	12	9.87	251	3.96	101	0.21	5.3	0.19	4.8
		22.3	15	9.99	254	4.00	102	0.27	6.9	0.23	5.8
		25.3	17	10.11	257	4.01	102	0.33	8.4	0.24	6.1
		28.3	19	10.24	260	4.02	102	0.40	10.2	0.25	6.3
10"x5 3/4"	254.0 X 146.0	32.7	22	10.17	258	5.75	146	0.36	9.1	0.24	6.1
		38.7	26	10.33	262	5.77	147	0.44	11.2	0.26	6.6
		44.6	30	10.47	266	5.81	148	0.51	13	0.30	7.6
10"x8"	254.0 X 203.2	49.1	33	9.73	247	7.96	202	0.44	11.2	0.29	7.4
		58.0	39	9.92	252	7.99	203	0.53	13.5	0.32	8.1
		67.0	45	10.10	257	8.02	204	0.62	15.7	0.35	8.9
10"x10"	254.0 X 254.0	72.9	49	9.98	253	10.00	254	0.56	14.2	0.34	8.6



DIMENSIONES		PESO		PERALTE		ANCHO DE PATÍN		ESPESOR DE PATÍN		ESPESOR DEL ALMA	
PULG.	MM.	KG/MT	LBS/FT	PULG.	MM.	PULG.	MM.	PULG.	MM.	PULG.	MM.
10" X 10"	254.0 X 254.0	80.4	54	10.09	256	10.03	255	0.62	15.7	0.37	9.4
		101.2	68	10.40	264	10.13	257	0.77	19.6	0.47	11.9
12" X 4"	304.8 X 101.6	20.8	14	11.91	303	3.97	101	0.23	5.8	0.20	5.1
		23.8	16	11.99	305	3.99	101	0.27	6.9	0.22	5.6
		28.3	19	12.16	309	4.01	102	0.35	8.9	0.24	6.1
		32.7	22	12.31	313	4.03	102	0.43	10.9	0.26	6.6
12" X 6 1/2"	304.8 X 165.1	38.7	26	12.22	310	6.49	165	0.38	9.7	0.23	5.8
		44.6	30	12.34	313	6.52	166	0.44	11.2	0.26	6.6
		52.1	35	12.50	317	6.56	167	0.52	13.2	0.30	7.6
12" X 8"	304.8 X 203.2	59.5	40	11.94	303	8.01	203	0.52	13.2	0.30	7.6
		67.0	45	12.06	306	8.05	204	0.58	14.7	0.34	8.6
		74.4	50	12.19	310	8.08	205	0.64	16.3	0.37	9.4
12" X 10"	304.8 X 254.0	78.9	53	12.06	306	10.00	254	0.58	14.7	0.35	8.9
		86.3	58	12.19	310	10.01	254	0.64	16.3	0.36	9.1
12" X 12"	304.8 X 304.8	96.7	65	12.12	308	12.00	305	0.61	15.5	0.39	9.9
		107.1	72	12.25	311	12.04	306	0.67	17.0	0.43	10.9
		117.6	79	12.38	314	12.08	307	0.74	18.8	0.47	11.9
		142.9	96	12.71	323	12.16	309	0.90	22.9	0.55	14.0
14" X 5"	355.6 X 127	32.7	22	13.74	349	5.00	127	0.34	8.6	0.23	5.8
		38.7	26	13.91	353	5.03	128	0.42	10.7	0.26	6.6
14" X 6 3/4"	355.6 X 171.4	44.6	30	13.84	352	6.73	171	0.39	9.9	0.27	6.9
		50.6	34	13.98	355	6.75	171	0.46	11.7	0.29	7.4
		56.5	38	14.10	358	6.77	172	0.52	13.2	0.31	7.9
14" X 8"	355.6 X 203.2	64.0	43	13.66	347	8.00	203	0.53	13.5	0.31	7.9
		71.4	48	13.79	350	8.03	204	0.6	15.2	0.34	8.6
		78.9	53	13.92	354	8.06	205	0.66	16.8	0.37	9.4
14" X 10"	355.6 X 254.0	90.8	61	13.89	353	10.00	254	0.65	16.5	0.38	9.7
		101.2	68	14.04	357	10.04	255	0.72	18.3	0.42	10.7
		110.1	74	14.17	360	10.07	256	0.79	20.1	0.45	11.4
		122.0	82	14.31	363	10.13	257	0.86	21.8	0.51	13.0
14" X 14 1/2"	355.6 X 368.3	133.9	90	14.02	356	14.52	369	0.71	18.0	0.44	11.2
		147.3	99	14.16	360	14.57	370	0.78	19.8	0.49	12.4
		162.2	109	14.32	364	14.61	371	0.86	21.8	0.53	13.5
		178.6	120	14.48	368	14.67	373	0.94	23.9	0.59	15.0
		196.4	132	14.66	372	14.73	374	1.03	26.2	0.65	16.5
14" X 16"	355.6 X 406.4	215.8	145	14.78	375	15.50	394	1.09	27.7	0.68	17.3
		236.6	159	14.98	380	15.57	395	1.19	30.2	0.75	19.0
		261.9	176	15.22	387	15.65	398	1.31	33.3	0.83	21.1
		287.2	193	15.48	393	15.71	399	1.44	36.6	0.89	22.6
		314.0	211	15.72	399	15.80	401	1.56	39.6	0.98	24.9
		346.7	233	16.04	407	15.89	404	1.72	43.7	1.07	27.2
16" X 5 1/2"	406.4 X 139.70	38.7	26	15.69	399	5.50	140	0.35	8.9	0.25	6.3
		46.1	31	15.88	403	5.53	140	0.44	11.2	0.28	7.1
16" X 7"	406.4 X 177.8	53.6	36	15.86	403	6.99	178	0.43	10.9	0.30	7.6
		59.5	40	16.01	407	7.00	178	0.51	13.0	0.31	7.9
		67.0	45	16.13	410	7.04	179	0.57	14.5	0.35	8.9
		74.4	50	16.26	413	7.07	180	0.63	16.0	0.38	9.7
16" X 10 1/4"	406.4 X 260.3	84.8	57	16.43	417	7.12	181	0.72	18.3	0.43	10.9
		99.7	67	16.33	415	10.24	260	0.67	17.0	0.40	10.2
		114.6	77	16.52	420	10.30	262	0.76	19.3	0.46	11.7
18" X 6"	457.2 X 152	52.1	35	17.70	450	6.00	152	0.43	10.9	0.30	7.6
		59.5	40	17.90	455	6.02	153	0.53	13.5	0.32	8.1
		68.4	46	18.06	459	6.06	154	0.61	15.5	0.36	9.1
18" X 7 1/2"	457.2 X 190.5	74.4	50	17.99	457	7.50	190	0.57	14.5	0.36	9.1

## NOGALES



AV. TECNOLÓGICO #675  
COL. LA GRANJA, NOGALES, SON.



**631 319 2020**

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## OBREGÓN



DR. NORMAN E. BORLAUG #3317 SUR  
COL. MUNICIPIO LIBRE, OBREGON, SON.



**644 416 4394**

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## PUERTO PEÑASCO



JOSEFINA ORTÍZ DOMÍNGUEZ #252 Y LÓPEZ  
MATEOS, PUERTO PEÑASCO, SON.

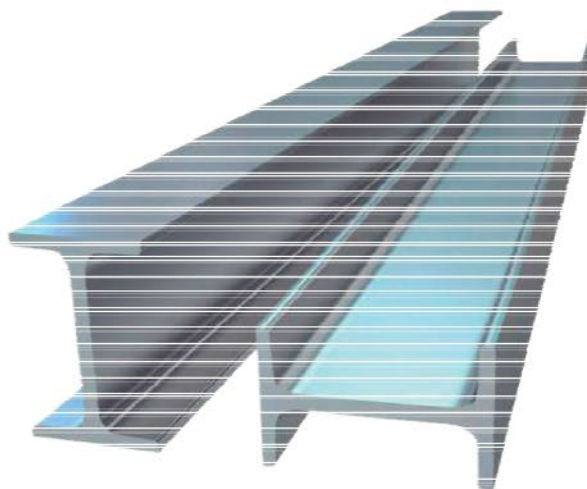
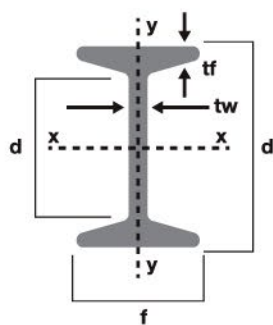


**638 388 7710 /**  
**638 388 7793**

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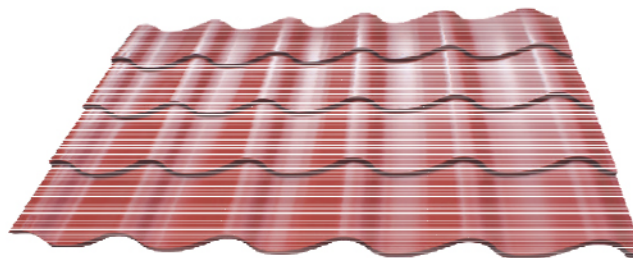
DIMENSIONES		PESO		PERALTE		ANCHO PATÍN		ESPESOR DE PATÍN		ESPESOR DEL ALMA	
PULG.	MM.	KG/MT	LBS/FT	PULG.	MM.	PULG.	MM.	PULG.	MM.	PULG.	MM.
18" X 7 1/2 "	457.2X190.5	81.8	55	18.11	460	7.53	191	0.63	16.0	0.39	9.9
		89.3	60	18.24	463	7.56	192	0.70	17.8	0.42	10.7
		96.7	65	18.35	466	7.59	193	0.75	19.0	0.45	11.4
		105.6	71	18.47	469	7.64	194	0.81	20.6	0.50	12.7
18" X 11"	457.2X279.4	113.1	76	18.21	463	11.04	280	0.68	17.3	0.43	10.9
		128.0	86	18.39	467	11.09	282	0.77	19.6	0.48	12.2
		144.3	97	18.59	472	11.15	283	0.87	22.1	0.54	13.7
		157.7	106	18.73	476	11.20	284	0.94	23.9	0.59	15.0
21" X 6 1/2"	533.4X165.1	74.4	50	20.83	529	6.53	166	0.54	13.7	0.38	9.7
		92.3	62	20.99	533	6.53	166	0.62	15.7	0.40	10.2
21" X 8 1/4"	533.4X209.5	101.2	68	21.13	537	8.27	210	0.69	17.5	0.43	10.9
		123.5	83	21.43	544	8.36	212	0.84	21.3	0.52	13.2
		138.4	93	21.62	549	8.42	214	0.93	23.6	0.58	14.7
		150.3	101	21.36	543	12.29	312	0.80	20.3	0.50	12.7
21" X 12 1/4"	533.4X311.1	165.2	111	21.51	546	12.34	313	0.88	22.4	0.55	14.0
		181.5	122	21.68	551	12.39	315	0.96	24.4	0.60	15.2
24" X 7"	609.6X177.8	81.8	55	23.57	599	7.01	178	0.51	13.0	0.40	10.2
		92.3	62	23.74	603	7.04	179	0.59	15.0	0.43	10.9
24" X 9"	609.6X228.6	101.2	68	23.73	603	8.97	228	0.59	15.0	0.42	10.7
		113.1	76	23.92	608	8.99	228	0.68	17.3	0.44	11.2
		125.0	84	24.10	612	9.02	229	0.77	19.6	0.47	11.9
		139.9	94	24.31	617	9.07	230	0.88	22.4	0.52	13.2
		153.3	103	24.53	623	9.00	229	0.98	24.9	0.55	14.0
24" X 12 3/4"	609.6X323.8	154.8	104	24.06	611	12.75	324	0.75	19.0	0.50	12.7
		174.1	117	24.26	616	12.80	325	0.85	21.6	0.55	14.0
		194.9	131	24.48	622	12.86	327	0.96	24.4	0.61	15.5
		217.3	146	24.74	628	12.90	328	1.09	27.7	0.65	16.5
27" X 10"	685.8X254	125.0	84	26.71	678	9.96	253	0.64	16.3	0.46	11.7
		139.9	94	26.92	684	9.99	254	0.75	19.0	0.49	12.4
		151.8	102	27.09	688	10.02	255	0.83	21.1	0.52	13.2
		169.6	114	27.29	693	10.07	256	0.93	23.6	0.57	14.5
27" X 14"	685.8X355.6	217.3	146	27.38	695	13.97	355	0.98	24.9	0.61	15.5
		239.6	161	27.59	701	14.02	356	1.08	27.4	0.66	16.8
30" X 10 1/2"	762X266.7	133.9	90	29.53	750	10.40	264	0.61	15.5	0.47	11.9
		147.3	99	29.65	753	10.45	265	0.67	17.0	0.52	13.2
		160.7	108	29.83	758	10.48	266	0.76	19.3	0.55	14.0
		172.6	116	30.01	762	10.50	267	0.85	21.6	0.57	14.5
33" X 11 1/2"	838.2X292.1	175.6	118	32.86	835	11.48	292	0.74	18.8	0.55	14.0
		193.4	130	33.09	840	11.51	292	0.86	21.8	0.58	14.7
		209.8	141	33.30	846	11.54	293	0.96	24.4	0.61	15.5
36" X 12"	914.4X304.8	200.9	135	35.55	903	11.95	304	0.79	20.1	0.60	15.2
		223.2	150	35.85	911	11.98	304	0.94	23.9	0.63	16.0
		238.1	160	36.01	915	12.00	305	1.02	25.9	0.65	16.6
40" X 12"	1016X304.8	221.7	149	38.20	970	11.81	300	0.83	21.1	0.63	16.0





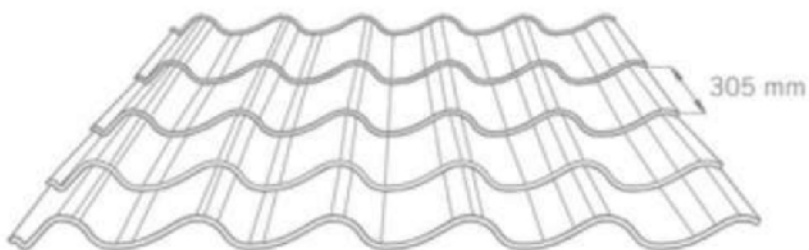
PERALTE		PESO		ANCHO DE PATÍN		ANCHO DE ALMA	
PULG.	MM.	KG/MT	LBS/FT	PULG.	MM.	PULG.	MM.
3	76.2	8.48	5.7	2.33	59	0.17	4
4	101.6	11.46	7.7	2.66	68	0.19	5
5	127.0	14.88	10.0	3.00	76	0.21	5
6	152.4	18.60	12.5	3.33	85	0.23	6
8	200.0	26.20	17.6	3.54	90	0.30	7





GALVATEJA				
CALIBRE	PODER C (cm)	PERALTE (mm)	PRESENTACIÓN	PESO POR METRO
26	100	42	P	4.8

Poder C = Poder Cubriente  
P = Pintro



## CARACTERÍSTICAS DEL PRODUCTO

<b>Diseño de Teja tipo española</b>
<b>Pendiente mínima de 25%</b>
<b>Pendiente recomendada 30%</b>
<b>Puede ser instalado sobre polines de acero, paneles de madera y losa de concreto.</b>

## MEXICALI



**CALZADA LÁZARO CÁRDENAS #4199**  
COL. ISLAS AGRÁRIAS "A", MEXICALI, B.  
CALIFORNIA NORTE.



**686 580 7555 /**  
**686 580 7521**

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## INDEPENDENCIA



**BLVD. LÁZARO CÁRDENS #1123**  
COL. INDEPENDENCIA, B. CLIFORNIA  
NORTE.



**686 565 5503**

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## VILLA FONTANA



**BLVD. LÁZARO CÁRDENAS #1101**  
FRACC. VILLA FONTANA, MEXICALI,  
B. CALIFORNIA



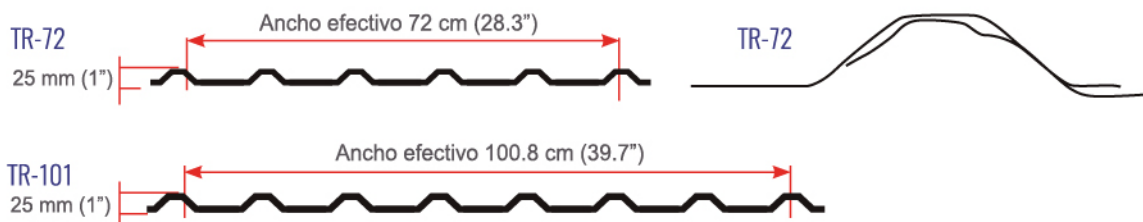
**686 757 7222**

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# LÁMINA ACANALADA TR-72; TR-101; TO-100; TO-725

TR-72			
Calibre	Espesor nominal acero base plg. TR-72(mm)	Peso aprox. Kg/ ml TR-72	Peso aprox. Kg/m 2 TR-72
32**	0.0097 (0.2464)	2.02	2.81
30	0.0120 (0.3048)	2.44	3.39
28	0.0149 (0.3785)	2.97	4.13
26	0.0179 (0.4547)	3.52	4.89
24	0.0209 (0.5309)	4.06	5.65
22*	0.0299 (0.7595)	5.64	7.82

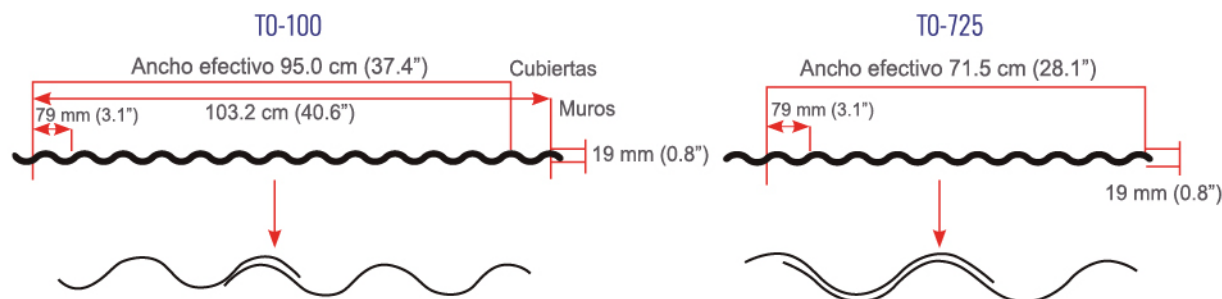
TR-101			
Calibr e	Espesor nominal acero base plg. TR-101	Peso aprox. Kg/ml TR-101	Peso aprox. Kg/m 2 TR-101
30*	0.0120 (0.3048)	3.10	3.07
28	0.0149 (0.3785)	3.96	3.92
26	0.0179 (0.4547)	4.69	4.64
24	0.0209 (0.5309)	5.42	5.37
22	0.0299 (0.7595)	7.61	7.52
20*	0.0359 (0.9119)	8.91	8.82



TO-100				
Calibre	Espesor nominal acero base plg. TR-100(mm)	Peso aprox. Kg/ml TO-100	Peso aprox. Kg/m 2 TO-100	
			Muro	Cubierta
28	0.0149 (0.3785)	3.96	3.83	4.15
26	0.0179 (0.4547)	4.69	4.54	4.92
24	0.0209 (0.5309)	5.42	5.25	5.68
22*	0.0299 (0.7595)	7.45	7.22	7.84

TO-725			
Calibre	Espesor nominal acero base plg. TR-725(mm)	Peso aprox. Kg/ml TO-725	Peso aprox. Kg/m 2 TO-725
30*	0.0120 (0.3048)	2.44	3.41
28	0.0149 (0.3785)	2.97	4.16
26*	0.0179 (0.4547)	3.52	4.93

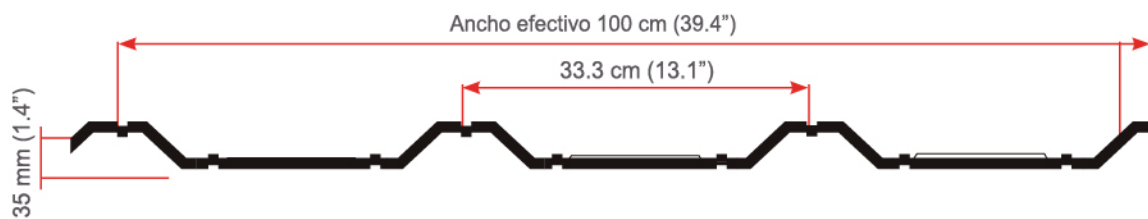
\*Sólo se fabrica bajo consulta técnica.



# LÁMINA ACANALADA TRN-100/35

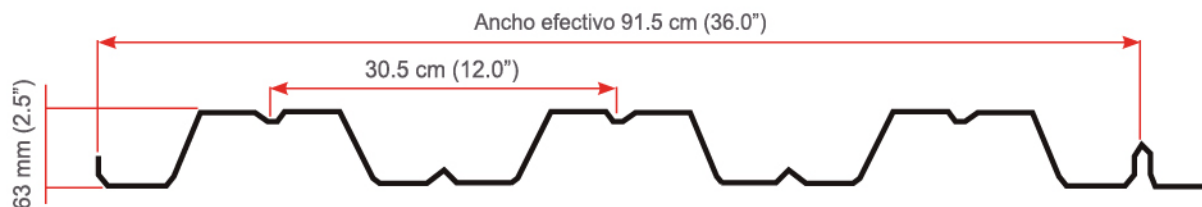
Calibre	Espesor nominal acero base plg. (mm)	Peso aprox. Kg/ml	Peso aprox. Kg/m 2
26	0.0179 (0.4547)	4.69	4.69
24	0.0209 (0.5309)	5.42	5.42
22	0.0299 (0.7595)	7.45	7.45

P = Pintro  
ZA = Zintro alum  
Z = Zintro  
\* = Calibres bajo consulta



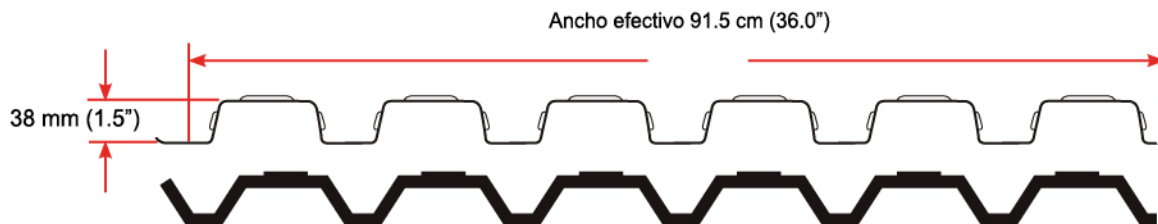
# LOZACERO 36/30

Propiedades de la sección		
Calibre	Espesor de Diseño (Pulgadas)	Peso (kg/m <sup>2</sup> )
24	0.0239	6.73
22	0.0295	8.31
20	0.0358	10.09
18	0.0474	13.35



Propiedades de la sección		
Calibre	Espesor de Diseño (Pulgadas)	Peso (kg/m <sup>2</sup> )
24	0.0239	6.72
22	0.0295	8.33
20	0.0358	10.02
18	0.0474	13.14

**\*SOLO SE FABRICA BAJO CONSULTA TÉCNICA**  
**\*CALIBRE 24 NO INCLUIDO POR SDI (STEEL DECK INSTITUTE)**  
**PARA APLICACIONES DE LOZA COMPUESTA.**



## CARACTERÍSTICAS DEL PRODUCTO

Este sistema, además de tener una excelente resistencia estructural, disminuye los tiempos de construcción generando ahorro en mano de obra, tiempo y renta de equipo.

Actúa como acero de refuerzo positivo y cimbra.

Se puede aplicar con vigas trabajando como sección compuesta.

Los relieves longitudinales formados en los paneles de cada canal de lozacer o actúan como conector es mecánicos que la unen al concreto, evitando la separación vertical.

Reemplaza la cimbra de madera convencional eliminando en algunos casos el apuntalamiento temporal.

## ENSENADA



**AV. REFORMA #130**  
FRACC. LOMA LINDA, ENSENADA, B.  
CALIFORNIA NORTE.



**676 182 9260 /**  
**646 173 8792**

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## LA PAZ



**BLVD. AGUSTÍN OLACHEA ENTRE**  
**JALISCO Y COLIMA S/N LOTE 6**  
LA PAS, B. CALIFORNIA SUR.



**612 122 5050 /**  
**612 122 4400**

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## CABO SAN LUCAS



**CALLE LEONA VICARIO**  
COL. LAS LAGUNITAS, CABO SAN LUCAS,  
B. CALIFORNIA SUR.



**624 146 6400 /**  
**624 146 6500**

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# LÁMINA GALVANIZADA LISA

**CATÁLOGO**  
DE PRODUCTOS 2022-2023

CALIBRE	PULG.	MM.	TOLERANCIA EN PULG.	PESO X HOJA EN KG.					KG X ML	
				3' X 6'	3' X 8'	3' X 10'	4' X 8'	4' X 10'	3'	4'
10	0.1345	3.42	0.006	44.76	60.44	75.56	-----	-----	24.78	-----
12	0.1046	2.66	0.006	35.35	47.14	58.93	62.85	78.58	19.33	25.77
14	0.0762	1.94	0.006	25.36	33.81	42.26	45.08	56.35	13.86	18.48
16	0.0613	1.56	0.005	20.40	27.20	34.00	36.27	45.33	11.15	14.87
18	0.0493	1.25	0.004	16.40	21.87	27.33	29.16	36.44	8.97	11.95
20	0.0374	0.95	0.003	12.4	16.57	20.72	22.10	27.62	6.80	9.06
22	0.0314	0.80	0.003	10.43	13.91	17.38	18.54	23.18	5.70	7.60
23	0.0250	0.64	0.003	8.29	11.06	13.82	14.74	18.43	4.53	6.04
24	0.0229	0.58	0.002	7.43	9.91	12.38	13.21	16.51	4.06	5.42
26	0.0194	0.49	0.002	6.43	8.57	10.72	11.43	14.29	3.52	4.69
28	0.0164	0.42	0.002	5.43	7.24	9.05	9.65	12.07	2.97	3.96
30	0.0135	0.34	0.002	4.46	5.95	7.43	-----	-----	2.44	-----
31	0.0120	0.30	0.0015	3.96	5.29	6.61	-----	-----	2.17	-----
32	0.0112	0.28	0.0015	3.70	4.93	6.17	-----	-----	2.02	-----



LOS ESPESORES Y ANCHOS AQUÍ DESCRITOS SE CONSIDERAN ESTÁNDAR, PARA CUALQUIER OTRO, FAVOR DE CONSULTAR EL ÁREA COMERCIAL.



FRACC. PULG.	ASW	DIÁMETRO		ML/KG	KG/1000 ML
		PULG.	MM	APROX.	APROX.
5/8		0.625	15.87	0.64	1553.00
9/16		0.562	14.28	0.79	1257.00
1/2		0.500	12.70	1.00	994.00
7/16		0.437	11.11	1.31	759.00
3/8		0.375	9.52	1.80	555.00
5/16		0.312	7.94	2.60	384.50
	0	0.306	7.78	2.71	369.00
	1	0.283	7.19	3.16	316.50
	2	0.262	6.67	3.67	272.40
1/4		0.250	6.35	4.05	247.20
	3	0.244	6.19	4.26	234.70
	4	0.225	5.72	4.98	200.60
	5	0.207	5.26	5.90	169.40
	6	0.192	4.88	6.86	145.70
	7	0.177	4.50	8.08	123.80
	8	0.162	4.11	9.64	103.70
	8 1/2	0.155	3.94	10.51	95.10
	9	0.148	3.77	11.50	86.90
	9 1/2	0.142	3.58	12.50	80.00
	10	0.135	3.43	13.88	72.00
	10 1/2	0.128	3.25	15.40	65.00
	11	0.120	3.06	17.42	57.40
	11 1/2	0.113	2.84	20.18	49.60
	12	0.105	2.68	22.73	44.00

6.10 M DE LARGO



## REDONDO

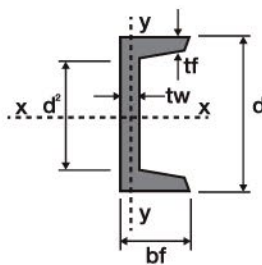
DIÁMETRO		PESO		ÁREA
MM.	PULGADA	KG/M	LB/PIE	CM <sup>2</sup>
9.5	3/8	0.559	0.376	0.713
11.1	7/16	0.76	0.511	0.970
12.7	1/2	0.994	0.668	1.267
14.3	9/16	1.257	0.845	1.603
15.9	5/8	1.552	1.043	1.979
17.5	11/16	1.878	1.262	2.395
19.1	3/4	2.235	1.502	2.850
20.6	13/16	2.622	1.762	3.345
22.2	7/8	3.045	2.046	3.879
23.8	15/16	3.491	2.346	4.453
25.4	1	3.973	2.669	5.067
27.0	1 1/16	4.484	3.013	5.720
28.6	1 1/8	5.022	3.375	6.413
30.2	1 3/16	5.605	3.767	7.145
31.8	1 1/4	6.208	4.172	7.917
33.3	1 5/16	6.845	4.599	8.729
34.9	1 3/8	7.514	5.049	9.580
36.5	1 7/16	8.212	5.518	10.471
38.1	1 1/2	9.000	6.048	11.401
39.7	1 9/16	9.702	6.519	12.371
41.3	1 5/8	10.490	7.049	13.380
42.9	1 11/16	11.317	7.604	14.429
44.5	1 3/4	12.170	8.178	15.518
46.0	1 13/16	13.056	8.773	16.646
47.7	1 7/8	13.970	9.388	17.813
49.2	1 15/16	14.918	10.024	20.268
50.8	21	5.890	11.359	21.555
52.4	2 5/16	16.905	11.359	21.555
63.5	2 1/16	24.8	54.750	21.555

## CUADRADO

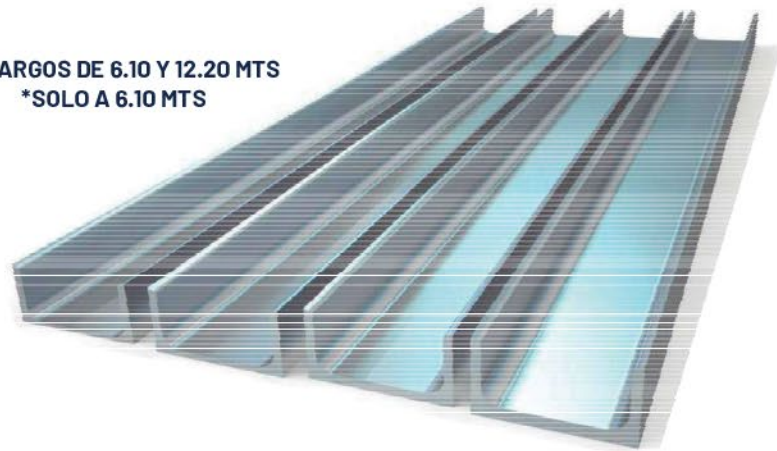
DIÁMETRO		PESO		ÁREA
MM.	PULGADA	KG/M	LB/PIE	CM <sup>2</sup>
9.5	3/8	0.712	0.478	0.907
11.1	7/16	0.969	0.651	1.235
12.7	1/2	1.266	0.85	1.613
15.9	5/8	1.978	1.328	2.52
19.1	3/4	2.848	1.912	3.629
20.6	3/4	3.342	2.244	4.259
22.2	7/8	3.876	2.602	4.94
23.8	15/16	4.45	2.987	5.67
25.4	1	5.063	3.399	6.452
27.0	1 1/16	5.715	3.837	7.283
28.6	1 1/8	6.407	4.301	8.165
30.2	1 3/16	7.139	4.793	9.098
31.8	1 1/4	7.91	5.31	10.081
33.3	1 5/16	8.721	5.855	11.114
34.9	1 3/8	9.571	6.426	12.198
38.1	1 1/2	11.391	7.647	14.516
39.7	1 9/16	12.36	8.298	15.751
41.3	1 5/8	13.368	8.975	17.036
44.5	1 3/4	15.504	10.409	19.758
50.8	2	20.25	13.595	25.806
57.2	2 1/4	25.629	17.206	32.661



PERFIL		PESO		ANCHO DEL PATÍN		ESPESOR DEL PATÍN		ESPESOR DEL ALMA	
PULG.	MM.	KG/MT	LBS/FT	PULG.	MM.	PULG.	MM.	PULG.	MM.
3	76.2	*5.20	3.50	1,372	35	0.273	7.0	0.132	3.4
	76.2	6.10	4.10	1,410	36	0.273	7.0	0.170	4.3
4	101.6	*6.70	4.50	1,584	40	0.296	7.5	0.125	3.2
	101.6	8.04	5.40	1,584	40	0.296	7.5	0.184	4.7
5	127.0	9.97	6.70	1,750	44	0.320	8.1	0.190	4.8
6	152.4	12.20	8.20	1,920	48	0.343	8.7	0.200	5.1
	152.4	15.63	10.50	2,034	51	0.343	8.7	0.314	8.0
	152.4	19.35	13.00	2,157	55	0.343	8.7	0.437	11.1
8	203.2	17.11	11.50	2,260	57	0.390	9.9	0.220	5.6
	203.2	20.46	13.75	2,343	59	0.390	9.9	0.303	7.7
	203.2	27.90	18.75	2,527	64	0.390	9.9	0.487	12.4
10	254.0	22.76	15.30	2,600	65	0.436	11.1	0.240	6.1
	254.0	29.76	20.00	2,739	69	0.436	11.1	0.379	9.6
	254.0	37.20	25.00	2,886	73	0.436	11.1	0.526	13.4
	254.0	44.64	30.00	3,033	76	0.436	11.1	0.673	17.1
12	304.8	30.80	20.70	2,942	74	0.501	12.7	0.282	7.2
	304.8	37.20	25.00	3,047	77	0.501	12.7	0.387	9.8
	304.8	44.64	30.00	3,170	80	0.501	12.7	0.510	13.0
15	381.0	50.40	33.90	3,400	86	0.650	16.5	0.400	10.2
	381.0	59.53	40.00	3,520	89	0.650	16.5	0.520	13.2



EN LARGOS DE 6.10 Y 12.20 MTS  
\*SOLO A 6.10 MTS



UNIDADES DE PESO		
MULTIPLICAR	POR	PARA OBTENER
grs	0.03527	onzas
kgs	2.2046	libras
kgs	35.27	onzas
lbs	0.4536	kgs
onzas	28.353	grs
onzas	0.028353	kgs

UNIDADES DE ÁREA		
MULTIPLICAR	POR	PARA OBTENER
cm <sup>2</sup>	0.1550	pulg <sup>2</sup>
m <sup>2</sup>	10.7640	pies <sup>2</sup>
m <sup>2</sup>	1.1960	yardas <sup>2</sup>
mm	0.00155	pulg <sup>2</sup>
pies <sup>2</sup>	0.0929	m <sup>2</sup>
pulg <sup>2</sup>	6.4516	cm <sup>2</sup>
pulg <sup>2</sup>	645.16	mm <sup>2</sup>
yardas <sup>2</sup>	0.8361	m <sup>2</sup>

UNIDADES DE LONGITUD		
MULTIPLICAR	POR	PARA OBTENER
cms	0.3937	pulg
mts	3.281	pies
mts	39.37	pulg
mts	1.0936	yardas
mm	0.03937	pulg
pies	0.3048	mts
pulg	2.54	cms
pulg	0.0254	mts
pulg	25.4	mm
yardas	0.9144	mts

UNIDADES DE PRESIÓN		
MULTIPLICAR	POR	PARA OBTENER
grs/cm <sup>2</sup>	0.01422	lbs/pulg <sup>2</sup>
kgs/cm <sup>2</sup>	14.223	lbs/pulg <sup>2</sup>
kgs/mm <sup>2</sup>	1422.33	lbs/pulg <sup>2</sup>
kgs/mm <sup>2</sup>	9.8066437	Mpa <sup>2</sup>
lbs/pulg <sup>2</sup>	70.31	grs/cm <sup>2</sup>
lbs/pulg <sup>2</sup>	0.07031	kgs/cm <sup>2</sup>
lbs/pulg	0.0007031	kgs/mm <sup>2</sup>
lbs/pulg <sup>2</sup>	0.0068948	Mpa <sup>2</sup>
Mpa <sup>2</sup>	0.1019716	kgs/mm <sup>2</sup>
Mpa <sup>2</sup>	145.035	lbs/pulg <sup>2</sup>

UNIDADES DE DENSIDAD		
MULTIPLICAR	POR	PARA OBTENER
grs/cm <sup>3</sup>	0.0361	lbs/pulg <sup>3</sup>
lbs/pulg <sup>3</sup>	27.68	grs/cm <sup>3</sup>
kgs/pulg <sup>3</sup>	2.2046	lbs/pulg <sup>3</sup>

**DENSIDAD DEL ACERO: 0.128625 KG/PULG<sup>3</sup>**

## SAN JOSÉ DEL CABO



**CARRETERA TRANSPENINSULAR**  
CALLE JALISCO, COL. SAN JOSÉ VIEJO  
SAN JOSÉ DEL CABO, B. CALIFORNIA SUR.



**624 146 0203 /**  
**624 146 0202**

## CD. CONSTITUCIÓN



**BLVD. A. OLACHEA ESQ. CON**  
**GUADALUPE VICTORIA S/N COL.CENTRO,**  
B. CALIFORNIA SUR.



**613 132 0068**

## REJA DEACERO

La Reja Deacero es un producto de un intenso desarrollo de tecnología que combina estética y funcionalidad con resistencia y seguridad, para brindarle el mejor sistema de cercos en México. El sistema de la Reja Deacero está compuesto por paneles, postes, abrazaderas, puertas y otros accesorios.

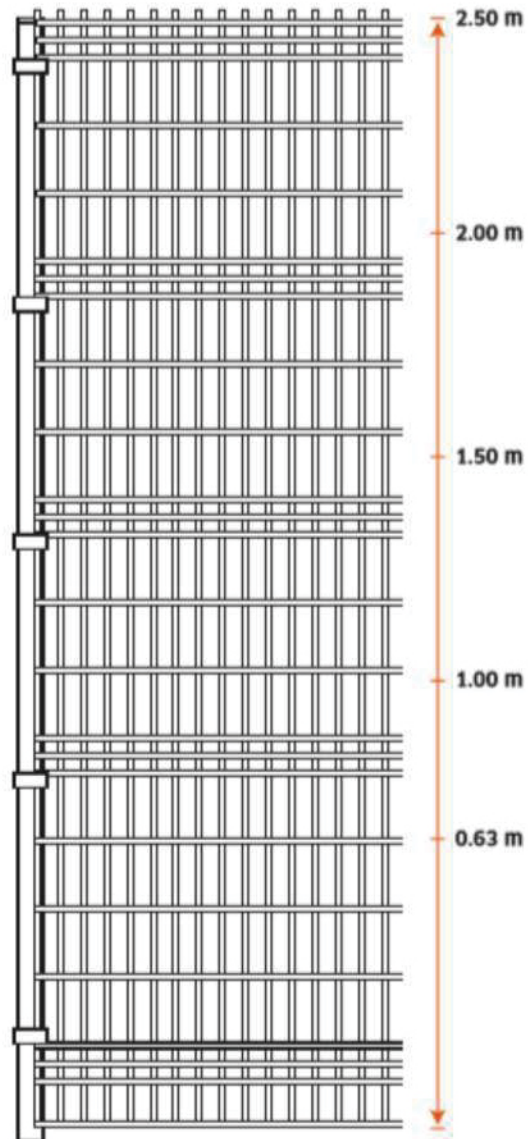
Todos los componentes de la reja son galvanizados y recubiertos con pintura de poliéster termoendurecido, lo que le brinda mayor duración la oxidación.

### DATOS TÉCNICOS DE PÁNELES

ALTURA (m) 0.63, 1.00, 1.50, 2.00 y 2.50  
 LONGITUD (m) 2.50  
 ABERTURA (cm) 5X20  
 ABRAZADERAS POR PANEL 0.63(2), 1.00(2), 1.50(3), 2.00(4), 2.50(5)  
 CALIBRE 6 (4.89mm)  
 RESISTENCIA A LA RUPTURA 75,000 - 100,000 lb/plg2  
 COLORES DISPONIBLES:  
 Azul, amarillo, gris, rojo, marrón, negro, blanco y verde.

### DATOS TÉCNICOS DE POSTES

ALTURA DEL PANEL (m) 0.63, 1.00, 1.50, 2.00 y 2.50  
 ALTURA DEL POSTE (m) 1.00, 1.50, 2.00, 2.50 y 3.10  
 CALIBRE 16 (1.516mm)  
 DIMENSIONES (pulg.) 2 1/4" x 2 1/4"  
 RESISTENCIA A LA RUPTURA 477 kg  
 COLORES DISPONIBLES:  
 Azul, amarillo, gris, rojo, marrón, negro, blanco y verde.



## PANELES

ALTURA (M)	PLIEGUES	LARGO	CALIBRE DE VARILLA
0.63	2	2.50	6
1.00	2	2.50	6
1.50	3	2.50	6
2.00	4	2.50	6
2.50	5	2.50	6

POSTES		
DIMENSIONES	CALIBRE	ALTURA (M)
2 1/4" X 2 1/4"	16	1.00
3 1/4" X 2 1/4"	16	1.50
4 1/4" X 2 1/4"	16	2.00
(57 X 57 cm)	1.516 mm	2.50
(57 X 57 cm)	1.516 mm	3.10

ABRAZADERAS X POSTE / ALTURA		
ALTURA PANEL	ALTURA POSTE	ABRAZADERAS
0.63	1.00	2
1.00	1.50	2
1.50	2.00	3
2.00	2.50	4
2.50	3.10	5

## ACCESORIOS DE INSTALACIÓN



**Tapa**  
Poliuretano  
Resistente a rayos UV



**Abrazadera**  
Tornillo y bisagra  
inoxidables



**Bayoneta P0a**  
Extensión a 45°



**Bayoneta Panel**  
Extensión a 45°



**Kit de Base**  
Tagueles expansivos,  
tuercas y arandelas

## COLORES

○ Blanco



● Verde



● Negro



**SERDI TE OFRECE EL SERVICIO EN:**

## SSR KR - 18

### Lámina Galvanizada Rolado Continuo (Standing Steam Roof)

Es lámina de techo engargolable que permite ser fabricada en el mismo lugar de la construcción mediante una acanaladora portátil, el acanalado formado se le denomina KR-18. El equipo de acanalado utiliza lámina de acero en rollo de 24" de ancho y aproximadamente 2 toneladas de peso cada uno. Los calibres utilizados son 26, 24, 22 y 20 siendo el más común el 24; recubrimiento Galvanizado Zinc-Aluminio y Pintado.

El perl acanalado KR-18 tiene un cubriente de 45.72 cm (18") y 3.81 cm, (2-1/2") de peralte por ser formado en campo no requiere traslapes transversales pudiéndose instalar piezas completas desde el parteaguas hasta la odilla. La forma de unión longitudinal, conocida como engargolado, se puede realizar tanto en 900 como en 1800 mediante una engargoladora de funcionamiento electromecánico. Se cuenta con las especificaciones para ser instalado de acuerdo a la prueba UL 90.

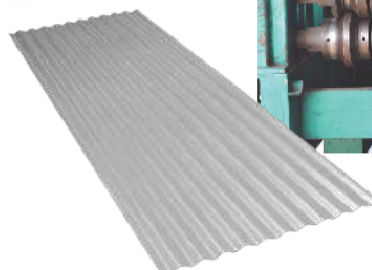
#### VENTAJAS:

- Lámina KR-18 fabricado en obra con traslape lateral engargolable y sujeto a la estructura mediante clipsijos o móviles
- No tiene restricciones en su longitud eliminando traslapes transversales.
- Sistema de fijación oculto, reduciendo el riesgo de posibles filtraciones.
- Ribs longitudinales que le proporcionan a la resistencia estructural necesaria para evitar deformaciones en su planeza.
- Dos acabados: Galvanizado y Pintado.
- Alta resistencia a la interperie.
- Rolado de lámina R72 y R101
- En galvanizado, Zintro Alum y pintado.



#### CONTAMOS CON EL PROCESO DE MAQUILA

- En lámina R72 cubriendo 72cm de ancho y sus diferentes largos hasta 12m.
- La lámina R101 cubre 1 m de ancho en sus diferentes largos hasta 12m.





PROPIEDADES CON ENGARGOLADO A 90 GRADOS					
CALIBRE	PESO POR ÁREA INSTALADA (kg/M2)	1 x <sup>+</sup> (cm <sup>4</sup> /m)	5 x <sup>+</sup> (cm <sup>3</sup> /m)	1 x <sup>-</sup> (cm <sup>4</sup> /m)	5 x <sup>-</sup> (cm <sup>3</sup> /m)
26	5.126	21.44	3.55	20.62	4.41
24	5.923	30.45	5.48	29.77	6.08
22	8.316	39.33	7.53	38.92	7.74
20	9.910	47.39	9.3	47.25	9.35

CAPACIDAD DE CARGA ADMISIBLE (KG/M2) (UNIFORMEMENTE DISTRIBUIDA)									
TIPO DE APOYO	CALIBRE	SEPARACIÓN ENTRE APOYOS							
		0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80
SIMPLE	26	660	528	386	293	230	-----	-----	-----
	24	-----	-----	596	454	357	288	239	-----
	22	-----	-----	-----	621	489	396	327	274
	20	-----	-----	-----	-----	606	489	406	337
DOBLE	26	-----	640	474	362	288	230	-----	-----
	24	-----	-----	650	498	391	318	264	-----
	22	-----	-----	-----	630	498	406	332	279
	20	-----	-----	-----	-----	606	489	401	337
TRIPLE	26	-----	689	547	420	332	469	-----	-----
	24	-----	-----	457	582	459	371	308	-----
	22	-----	-----	-----	-----	582	469	391	327
	20	-----	-----	-----	-----	-----	572	469	396

## NOTAS

- Las propiedades de la sección han sido calculadas de acuerdo a las especificaciones del AISI del 86 American Iron and Steel Institute.
- El acM0 suministrado para la fabricación del perfil KR-18 está acorde al ASTM-63 para ZINTRO y ASTM A-792 para ZINTRO ALUM y es grado 37 (Fy=37 Ksi=2601 Kg/cm<sup>2</sup>) y grado 50 opcional sobre pedido especial.
- Disponible en recubrimientos ZINTRO (G-90), ZINTRO ALUM (AZ-50) y prepintado PINTRO.
- Para las cargas mostradas el límite de exión es 1.1120.
- Los claros máximos recomendados por instalación son: 1.35 m para cal. 26, 1.52 m para cal. 24, 1 m para cal. 22 y 1.80 m para cal. 20.
- Las cargas admisibles de succión de viento se pueden obtener multiplicando los valores de la tabla por 1.33.
- Los valores de succión de viento calculados sólo serán válidos si se utilizan los elementos de fijación (clips, tornillos, etc), adecuados en cuanto a dimensiones suficientes y en cuanto a cantidad y que provengan de un cálculo de viento dependiendo de la zona geográfica y de la forma de inmueble en cuestión así mismo se deberá seguir los procedimientos adecuados para su instalación.
- Los valores mostrados en las tablas no se deberán utilizar para la aplicación del producto como cimbra para concreto, este producto no es adecuado para este uso.
- Serdi S.A. de C.V. proporciona la presente información respaldada para la aplicación de sus productos lo que no se le podrá hacer responsable del mal uso que se pudiera dar; se recomienda la asesoría de un ingeniero capacitado que verifique la aplicación de la misma.