



**NOVA<sup>®</sup>**  
ACEROS Y METALES DE MÉXICO

**CATÁLOGO**

**20**  
**23**

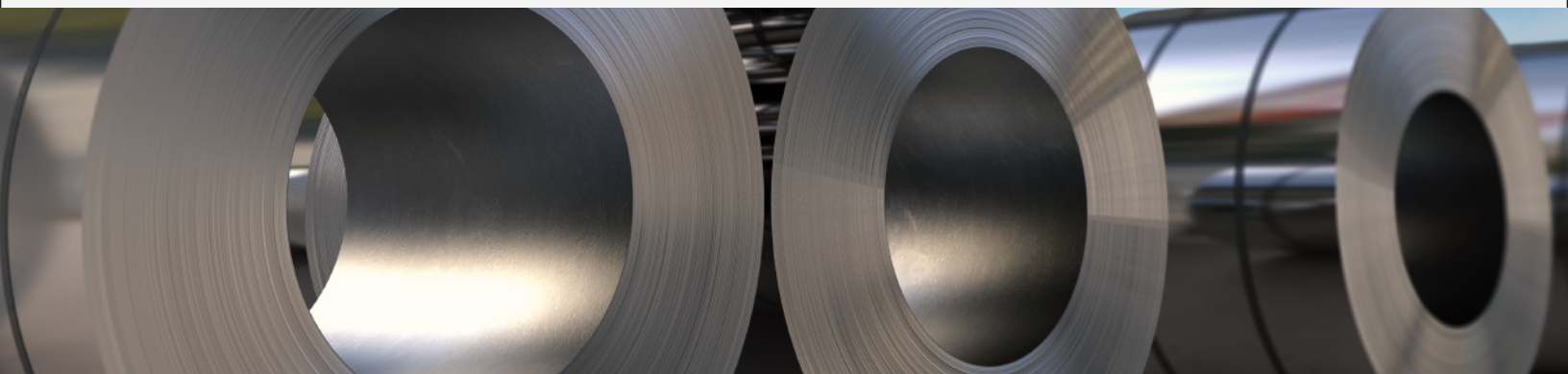
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## INTRODUCCIÓN

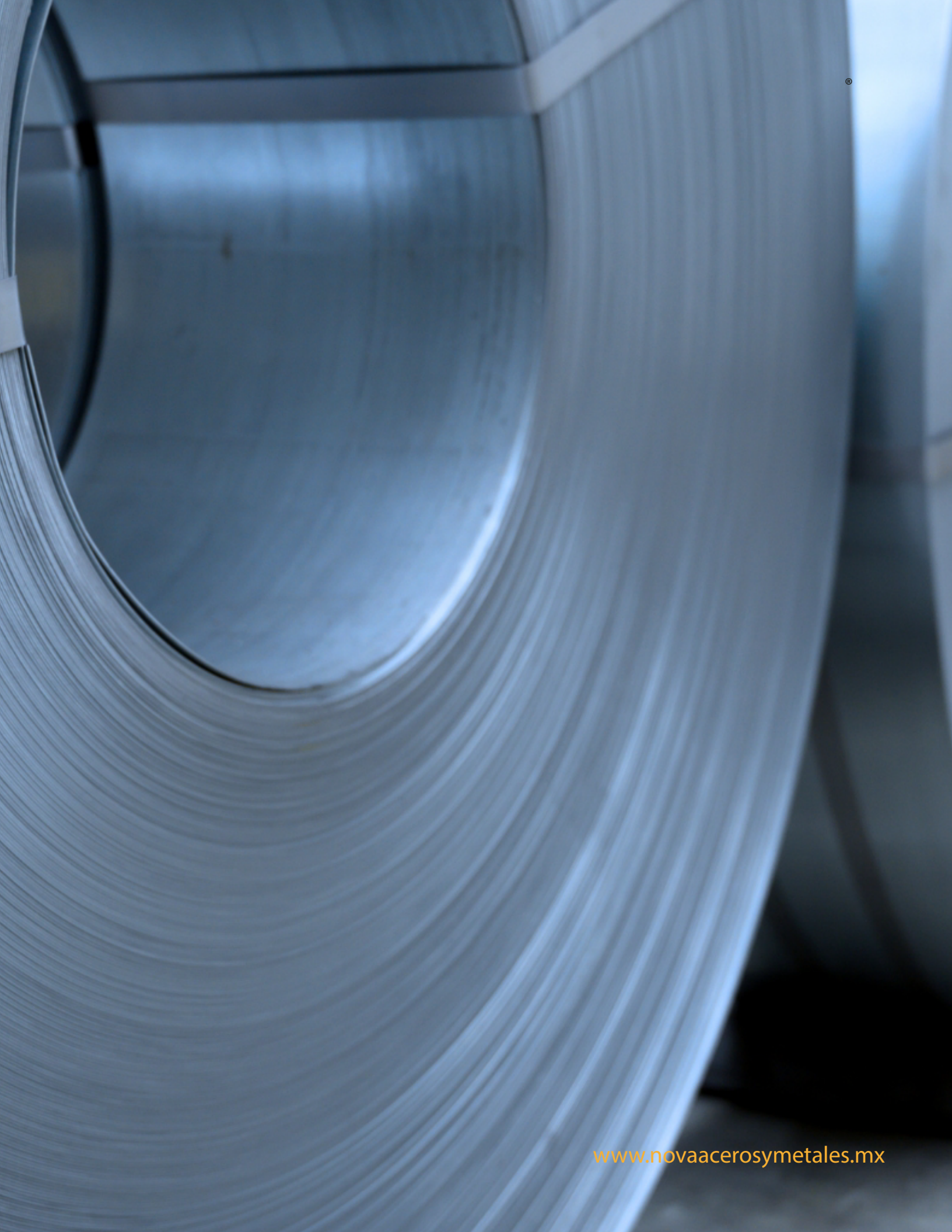
**En NOVA Aceros y Metales de México nos esforzamos día a día para ofrecer a nuestros clientes productos de la más alta calidad y a precios competitivos. Nuestro compromiso con la excelencia en el servicio nos ha permitido posicionarnos como una de las empresas líderes en el mercado de la distribución de acero.**

En NOVA Aceros y Metales de México contamos con un amplio catálogo de productos y una red de distribución que nos permite ofrecer un servicio eficiente y oportuno en cualquier parte del país. Estamos comprometidos con la satisfacción de nuestros clientes y trabajamos para superar sus expectativas en todo momento.

Le invitamos a que conozca nuestro catálogo de productos y a que se una a la creciente lista de clientes satisfechos que confían en la calidad y el servicio de NOVA Aceros y Metales de México.







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# PLANOS





## PLACA DE ACERO EN HOJA

Placa disponible en ASTM A-36

Espesor	Peso			Peso teórico por hoja(kg)												
	Pulgadas	Milésimas	Milímetros	kg/m2	kg/pie2	3x6	3x8	3x10	4x8	4x10	5x10	5x15	5x20	6x10	6x20	8x20
3/16"	188	4.76	37.39	3.47	62.52	83.36	104.2	111.14	138.93	173.66	260.49	347.32	208.39	416.79	555.72	
1/4"	250	6.35	49.85	4.63	83.36	111.14	138.93	148.19	185.24	231.55	347.32	463.1	277.86	555.72	740.96	
5/16"	313	7.94	62.31	5.79	104.2	138.93	173.66	185.24	231.55	289.44	434.16	578.87	347.32	694.65	926.2	
3/8"	375	9.53	74.77	6.95	125.04	166.72	208.39	222.29	277.86	347.32	520.99	694.65	416.79	833.58	1,111.44	
7/16"	438	11.11	87.23	8.1	145.88	194.5	243.13	259.34	324.17	405.21	607.82	810.42	486.25	972.51	1,296.68	
1/2"	500	12.7	99.7	9.26	166.72	222.29	277.86	296.38	370.48	463.1	694.65	926.2	555.72	1,111.44	1,481.92	
5/8"	625	15.88	124.62	11.58	208.39	277.86	347.32	370.48	463.1	578.87	868.31	1,157.75	694.65	1,389.30	1,852.40	
3/4"	750	19.05	149.54	13.89	250.07	333.43	416.79	444.58	555.72	694.65	1,041.97	1,389.30	833.58	1,667.16	2,222.88	
7/8"	875	22.23	174.47	16.21	291.75	389	486.25	518.67	648.34	810.42	1,215.63	1,620.85	972.51	1,945.02	2,593.35	
1"	1000	25.4	199.39	18.52	333.43	444.58	555.72	592.77	740.96	926.2	1,389.30	1,852.40	1,111.44	2,222.88	2,963.83	
1 1/4	1250	31.75	249.24	23.15	416.79	555.72	694.65	740.96	926.2	1,157.75	1,736.62	2,315.49	1,389.30	2,778.59	3,704.79	
1 1/2	1500	38.1	299.09	27.79	500.15	666.86	833.58	889.15	1,111.44	1,389.30	2,083.95	2,778.59	1,667.16	3,334.31	4,445.75	
1 3/4	1750	44.45	348.93	32.42	583.5	778.01	972.51	1,037.34	1,296.68	1,620.85	2,431.27	3,241.69	1,945.02	3,890.03	5,186.71	
2"	2000	50.8	398.78	37.05	666.86	889.15	1,111.44	1,185.53	1,481.92	1,852.40	2,778.59	3,704.79	2,222.88	4,445.75	5,927.67	
2 1/2	2500	63.5	498.48	46.31	833.58	1,111.44	1,389.30	1,481.92	1,852.40	2,315.49	3,473.24	4,630.99	2,778.59	5,557.19	7,409.58	
3"	3000	76.2	598.17	55.57	1,000.29	1,333.73	1,667.16	1,778.30	2,222.88	2,778.59	4,167.89	5,557.19	3,334.31	6,668.63	8,991.50	
3 1/2	3500	88.9	697.87	64.83	1,167.01	1,556.01	1,945.02	2,074.68	2,593.35	3,241.69	4,862.54	6,483.39	3,890.03	7,780.06	10,373.42	
4"	4000	101.6	797.56	74.1	1,333.73	1,778.30	2,222.88	2,371.07	2,963.83	3,704.79	5,557.19	7,409.58	4,445.75	8,991.50	11,855.33	
4 1/2	4500	114.3	897.26	83.36	1,500.44	2,000.59	2,500.73	2,667.45	3,334.31	4,167.89	6,251.84	8,335.78	5,001.47	10,002.94	13,337.25	
5"	5000	127	996.95	92.62	1,667.16	2,222.88	2,778.59	2,963.83	3,704.79	4,630.99	6,946.48	9,261.98	5,557.19	11,114.38	14,819.17	
6"	6000	152.4	1196.34	111.14	2,000.59	2,667.45	3,334.31	3,556.60	4,445.75	5,557.19	8,335.78	11,114.38	6,668.63	13,337.25	17,783.00	

\*Este material se encuentra disponible en medidas especiales en largo, ancho, espesor y otros grados de calidad, de igual forma manejamos rollos de hasta 5/8 de espesor.

\*Medidas a partir de 5 x 10 se consideran bajo pedido

## LÁMINA ROLADA EN CALIENTE

Decapada y sin decapar

Calibre	Espesor		Peso		Peso teórico por hoja de lámina y placa (kg)					
	Pulgadas	Milímetros	kg/pie2	kg/m2	3x6	3x8	3x10	4x8	4x10	5x10
3	0.239	6.07	4.43	47.65	79.68	106.24	132.81	141.66	177.07	-
4	0.224	5.69	4.15	44.67	74.69	99.59	124.49	132.79	165.99	-
5	0.209	5.31	3.87	41.68	69.71	92.94	116.18	123.92	154.9	-
6	0.194	4.94	3.6	38.78	64.85	86.46	108.08	115.29	144.11	-
7	0.179	4.55	3.32	35.72	59.73	79.64	99.55	106.19	132.73	-
8	0.164	4.18	3.05	32.81	54.87	73	91.45	97.55	121.94	-
9	0.15	3.8	2.77	29.83	49.88	66	83.14	88.68	110.85	-
10	0.135	3.42	2.49	26.85	44.9	59.86	74.83	79.81	99.77	124.71
11	0.12	3.04	2.22	23.86	39.91	53	66.51	70.95	88.68	110.85
12	0.105	2.66	1.94	20.88	34.92	46.56	58.2	62.08	77.6	97
13	0.09	2.28	1.66	17.9	29.93	39	49.88	53.21	66.51	-
14	0.075	1.9	1.39	14.92	24.94	33.26	41.57	44.34	55.43	-
15	0.067	1.71	1.25	13.42	22.45	29.93	37.41	39.91	49.89	-
16	0.06	1.52	1.11	11.93	19.95	26.6	33.26	35.47	44.34	-

## LÁMINA ANTIDERRAPANTE

Calibre	Espesor		Peso		Peso teórico por hoja de lámina y placa (kg)			
	Pulgadas	Milímetros	kg/pie2	kg/m2	3 x 8	3 x 10	4 x 8	4 x 10
1/2	0.5	12.7	9.74	104.83	233.73	292.16	311.64	389.55
3/8	0.375	9.53	7.42	79.74	177.99	222.49	237.32	296.65
5/16	0.313	7.94	6.26	67.31	150.23	187.79	200.31	250.38
1/4	0.25	6.35	5.1	54.87	122.47	153.09	163.29	204.12
3/16	0.188	4.76	3.95	42.43	94.71	118.39	126.28	157.85
1/8	0.125	3.18	2.79	30	66.95	83.69	89.27	111.58
12	0.105	2.66	2.38	25.61	57.15	71.44	76.2	95.25
14	0.075	1.9	1.7	18.29	40.82	51.03	54.43	68.04

\*Pesos teóricos sujetos a cambios.

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas

## LÁMINA ROLADA EN FRIO

Calibre	Espesor		Peso		Peso teórico por hoja(kg)			
	Pulgadas	Milímetros	kg/m <sup>2</sup>	Kg/m <sup>2</sup>	3 x 8	3 x 10	4 x 8	4 x 10
14	0.0747	1.9	1.39	14.92	33.26	41.57	44.34	55.43
16	0.0598	1.52	1.11	11.93	26.6	33.26	35.47	44.34
18	0.0478	1.21	0.88	9.5	21.18	26.47	28.24	35.3
20	0.0359	0.91	0.66	7.14	15.93	19.91	1.24	26.55
22	0.0299	0.76	0.55	5.97	13.3	16.63	17.74	22.17
24	0.0239	0.61	0.44	4.79	10.68	13.35	14.24	17.8
26	0.0179	0.45	0.33	3.53	7.88	9.85	10.5	13.13
28	0.0149	0.38	0.28	2.98	6.65	8.31	-	-
30	0.012	0.3	0.22	2.36	5.25	6.56	-	-

## LÁMINA GALVANIZADA

Calibre	Espesor		Peso		Peso teórico por hoja(kg)						
	Pulg.	mm.	3	4	3 x 6	3 x 8	3 x 10	3 x 12	4 x 8	4 x 10	
10	0.1359	3.45	24.77	-	27.11	45.33	60.44	75.55	90.66	-	-
12	0.1061	2.69	19.32	25.76	21.15	35.36	47.1	58.93	70.72	62.86	78.58
14	0.0762	1.94	13.87	18.5	15.18	25.38	33.84	42.3	50.76	45.12	56.4
16	0.0613	1.56	11.15	14.87	12.2	20.4	27.2	34	40.8	36.27	45.33
18	0.0493	1.25	8.97	11.96	9.82	16.42	21.8	27.37	32.84	29.19	36.49
20	0.0374	0.95	6.8	8.91	7.44	12.44	16.59	20.73	24.88	22.12	27.64
22	0.0314	0.8	5.64	7.61	6.24	10.43	13.9	17.38	20.86	18.54	23.18
24	0.0224	0.57	4.2	5.6	4.44	7.43	9.9	2.38	14.86	13.21	16.51
26	0.0194	0.49	3.52	4.69	3.85	6.44	8.59	10.73	12.88	11.45	14.31
28	0.0164	0.42	2.97	3.96	3.25	5.44	7.25	9.07	10.88	9.67	12.09
30	0.0135	0.34	2.44	-	2.67	4.47	5.96	7.45	8.94	-	-
32	0.0112	0.28	2.02	-	2.21	3.7	4.93	6.1	7.39	-	-

\*Pesos teóricos sujetos a cambios.

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas

## LÁMINA ACRÍLICA RECTANGULAR Y ONDULADA

ACRYLIT G10							
Color	Difusión de luz	Transmisión de luz	Resistencia al impacto	Resistencia a la tensión	Resistencia a la flexión	Espesor	Perfil tipo
			(J/m.)	(kg/cm <sup>2</sup> )	(kg/cm <sup>2</sup> )	(mm.)	
Blanco	95%	55%	-	-	-	1.4	R-72
Cristal*	95%	80%	370	820	1680	1.4	R-101

ACRYLIT G5							
Color	Difusión de luz	Transmisión de luz	Resistencia al impacto	Resistencia a la tensión	Resistencia a la flexión	Espesor	Perfil tipo
			(J/m.)	(kg/cm <sup>2</sup> )	(kg/cm <sup>2</sup> )	(mm.)	
Blanco	35%	35%	-	-	-	1.2	R-72
Cristal*	35%	85%	370	820	1680	1.2	R-101

\*Disponible R-72 y R-101

\*Pesos teóricos sujetos a cambios

\*Durabilidad G5= 5 años y G10= 10 años

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas



## LOSACERO

Calibre	Espesor		Peso	
	Pulg.	mm.	kg/m	kg/m <sup>2</sup>
24	0.0224	0.57	5.6	6.15
22	0.0314	0.8	7.6	8.33
20	0.0374	0.95	9.06	10.02
18	0.0493	1.25	11.96	13.14

\*Pesos teóricos sujetos a cambios.

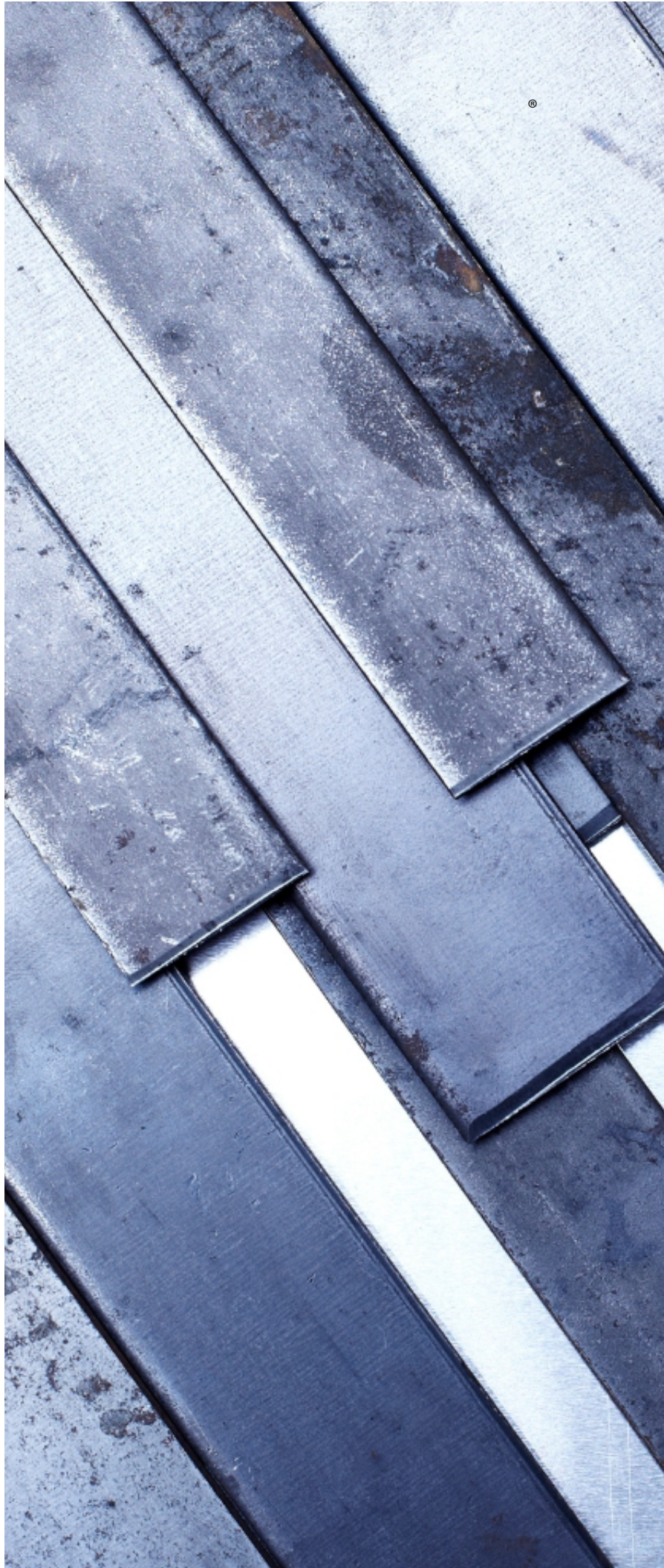
\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas







# SÓLIDOS



## Ángulos

Lados iguales

Espesor y dimensiones				Peso	
Pulgadas		Milímetros			
Espesor (k)	Ancho (bf)	Espesor (k)	Ancho (bf)	kg./m.	lb./pie.
1/8 x	3/4	3.18 x	19.05	0.88	0.59
	1		25.4	1.19	0.8
	1 1/4		31.75	1.5	1.01
	1 1/2		38.1	1.83	1.23
	2		50.8	2.46	1.65
5/32 x	1 1/2	3.96	38	2.25	1.52
	2		50.8	3.04	2.04
3/16 x	1	4.76	25.4	1.73	1.16
	1 1/4		31.75	2.2	1.48
	1 1/2		38.1	2.68	1.8
	2		50.8	3.63	2.44
	2 1/2		63.5	4.57	3.07
	3		76.2	5.52	3.71
1/4 x	1	6.35 x	25.4	2.22	1.49
	1 1/4		31.75	2.86	1.92
	1 1/2		38.1	3.48	2.34
	2		50.8	4.75	3.19
	2 1/2		63.5	6.1	4.1
	3		76.2	7.29	4.9
	3 1/2		88.9	8.63	5.8
	4		101.6	9.82	6.6
5/16 x	2	7.94 x	50.8	5.83	3.92
	2 1/2		63.5	7.44	5
	3		76.2	9.08	6.1
	3 1/2		88.9	10.71	7.2
	4		101.6	12.2	8.2
	5		127	15.3	10.3

## Perfil Tee

Dimension (k x bf)		Peso	
Pulg.	mm.	kg/m	lb/pie
1/8 x 1	3.18 x 25.4	1.32	0.89

\*Pesos teóricos sujetos a cambios.

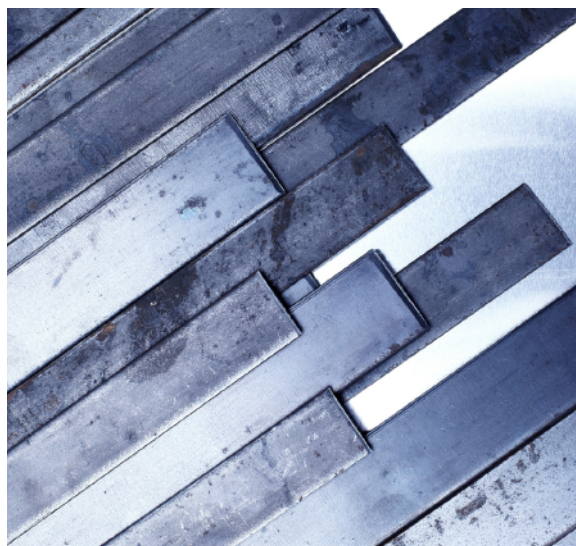
\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas



## Soleras

Dimensiones				Peso	
Pulgadas		Milímetros			
Espesor	Ancho	Espesor	Ancho	kg/m	lb/pie
1/8	1/2	3.2	12.7	0.31	0.21
	3/4		19.1	0.47	0.32
	1		25.4	0.63	0.43
	1 1/4		31.7	0.79	0.53
	1 1/2		38.1	0.95	0.64
	2		50.8	1.26	0.85
3/32	3/4	3.96	19.05	0.59	0.4
	1 1/2		12.7	0.47	0.32
3/16	3/4	4.8	19.1	0.71	0.48
	1		25.4	0.94	0.64
	1 1/4		31.7	1.18	0.8
	1 1/2		38.1	1.42	0.96
	2		50.8	1.9	1.28
	2 1/2		63.5	2.37	1.59
1/4	1/2	6.3	12.7	0.63	0.43
	3/4		19.1	0.95	0.64
	1		25.4	1.26	0.85
	1 1/4		31.7	1.58	1.06
	1 1/2		38.1	1.9	1.28
	2		50.8	2.53	1.7
	2 1/2		63.5	3.17	2.13
	3		76.2	3.79	2.55
	4		101.6	5.06	3.4
	5		127.0	6.32	4.25
	6		152.4	7.59	5.1
	8		203.2	10.12	6.8
5/16	1	7.9	25.4	1.26	0.85
	1 1/4		31.7	1.58	1.06
	1 1/2		38.1	1.9	1.28
	2		50.8	2.53	1.7
	2 1/2		63.5	3.17	2.13
	3		76.2	3.79	2.55
3/8	1	9.5	25.4	1.26	0.85
	1 1/4		31.7	1.58	1.06
	1 1/2		38.1	1.9	1.28
	2		50.8	2.53	1.7
	2 1/2		63.5	3.17	2.13
	3		76.2	3.79	2.55
	4		101.6	5.06	3.4
	5		127.0	6.32	4.25
	6		152.4	7.59	5.1
	8		203.2	10.12	6.8
	10		254	12.65	8.5
	1/2		1 1/2	12.7	38.1
2		50.8	5.06		3.4
2 1/2		63.5	6.32		4.25
3		76.2	7.59		5.1
4		101.6	10.12		6.8
5		127	12.65		8.5
6		152.4	15.18		10.2
8		203.2	20.25		13.61
10		254	25.31		17.01
12		304.8	30.39		20.42

Dimensiones				Peso			
Pulgadas		Milímetros					
Espesor	Ancho	Espesor	Ancho	kg/m	lb/pie		
5/8	4	15.9	101.6	12.65	8.5		
	5		127	15.81	10.63		
	6		152.4	18.97	12.75		
	8		203.2	25.31	17.01		
	9		228.6	28.47	19.13		
	10		254	31.65	21.27		
3/4	12	19.05	304.8	37.99	25.53		
	2 1/2		63.5	9.49	6.38		
	3		76.2	11.39	7.65		
	4		101.6	15.18	10.2		
	5		127	18.98	12.75		
	6		152.4	22.77	15.3		
	8		203.2	30.38	20.41		
	9		228.6	34.16	22.96		
	10		254	37.98	25.52		
	12		304.8	45.57	30.62		
	1		2	25.4	50.8	10.12	6.8
			3		76.2	15.18	10.2
4		101.6	20.24		13.6		
5		127	25.31		17		
6		152.4	30.37		20.41		
8		203.2	40.49		27.21		
1 1/8	10	31.5	254	50.64	34.03		
	12		304.8	60.76	40.83		
	1 1/2		38.1	152.4	45.55	30.61	



\*Pesos teóricos sujetos a cambios.

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas

## Redondo, cuadrado y cuadrado retorcido

Medidas			Peso					
Pulg.	milésimas	mm.	Redondos		Cuadrados		Cuadrado retorcido	
			kg/m	lb/pie	kg/m	lb/pie	kg/m	lb/pie
12 mm.	0.472	12	-	-	1.14	0.77	1.14	0.77
3/8	0.375	9.53	0.56	0.38	0.71	0.48	0.71	0.48
½	0.5	12.7	0.99	0.67	1.26	0.85	1.26	0.85
5/8	0.625	15.88	1.55	1.04	1.98	1.33	1.98	1.33
¾	0.75	19.05	2.24	1.5	2.85	1.91	-	-
7/8	0.875	22.23	3.04	2.04	-	-	-	-
1	1	25.4	3.97	2.67	5.06	3.4	-	-
1 1/8	1.125	28.58	5.03	3.38	-	-	-	-
1 1/4	1.25	31.75	6.21	4.17	7.91	5.31	-	-
1 3/8	1.375	34.93	7.51	5.05	-	-	-	-
1 1/2	1.5	38.1	8.94	6.01	11.38	7.65	-	-
1 3/4	1.75	44.45	12.17	8.18	-	-	-	-
1 7/8	1.875	47.63	13.97	9.39	-	-	-	-
2	2	50.8	15.9	10.68	20.24	13.6	-	-
2 1/4	2.25	57.15	20.12	13.52	-	-	-	-
2 1/2	2.5	63.5	24.84	16.69	31.62	21.25	-	-
3	3	76.2	35.76	24.04	45.54	30.6	-	-

## Varilla corugada

Propiedades mecánicas Requisitos de resistencia a la tensión					
Propiedades		NMX-C-407 (Mpa (kg.f/mm <sup>2</sup> ))		NMX-B (Mpa (kg.f/mm <sup>2</sup> ))	
		Grado 30		Grado 42	
Resistencia a la tensión Mpa. (kg/mm <sup>2</sup> )		490 (50) * min		618 (63) * min	
Limite de fluencia Mpa. (kg/mm <sup>2</sup> )		Min. 294 (30)		Min. 412 (42)	
		Min-Máx. 412-540(42-55)			
No. Designación		Alargamiento en 200			
3		11		9	
4, 5 y 6		12		9	
7 y 8		-		8	
9, 10, 11 y 12		-		7	

No. Designación	Calibre	Peso		Área de la sección transversal		Perímetro
		Mm	kg/m	mm.	mm.	
3	3/8	9.5	0.56	71	29.8	
4	1/2	12.7	0.99	127	39.9	
5	5/8	15.9	1.55	198	50	
6	3/4	19.1	2.24	285	60	
8	1	25.4	3.97	507	79.8	
10	1 1/4	31.8	6.23	794	99.9	
12	1 1/2	38.1	8.94	1140	119.7	

Requisitos de pruebas de doblado			
Diámetro del mandril para pruebas de doblado a 180 grados			
No. Designación	Grado 30		Grado 42
	NMX-C-407		NMX-B-457
3, 4 y 5	3.5 d		3 d
6	5 d		4 d
7 y 8	-		5 d
9 y 10	-		7 d
11 y 12	-		8 d

\*Pesos teóricos sujetos a cambios.

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas



## Varilla corrugada

18J

No. Designación	Peso		Diámetro		Área de la sección transversal	
	kg/m	lb/pie	mm	in.	mm <sup>2</sup>	in <sup>2</sup>
18	20.24	13.6	57.33	2.257	2581	4

## Canal C.P.S.

Peralte		Peso		Patin				Alma	
d				Ancho (bf)		Espesor (tf)		Espesor (tw)	
Pulg.	mm.	kg/m	lb/pie	Pulg.	mm.	Pulg.	mm.	Pulg.	mm.
3	76.2	5.21	3.5	1.372	34.85	0.273	6.93	0.132	3.35
		6.1	4.1	1.41	35.81	0.273	6.93	0.17	4.32
4	101.6	6.7	4.5	1.584	40.23	0.296	7.52	0.125	3.18
		8.04	5.4	1.584	40.23	0.296	7.52	0.184	4.67
5	127	9.97	6.7	1.75	44.45	0.32	8.13	0.19	4.83
		12.2	8.2	1.92	48.77	0.343	8.71	0.2	5.08
6	152.4	15.63	10.5	2.034	51.66	0.343	8.71	0.314	7.98
		19.35	13	2.157	54.79	0.343	8.71	0.437	11.1
		17.11	11.5	2.26	57.4	0.39	9.91	0.22	5.59
8	203.2	20.46	13.75	2.343	59.51	0.39	9.91	0.303	7.7
		27.9	18.75	2.527	64.19	0.39	9.91	0.487	12.37
		22.77	15.3	2.6	66.04	0.436	11.07	0.24	6.1
10	254	29.76	20	2.739	69.57	0.436	11.07	0.379	9.63
		37.2	25	2.886	73.3	0.436	11.07	0.526	13.36
		44.64	30	3.033	77.04	0.436	11.07	0.673	17.09
		30.8	20.7	2.942	74.73	0.501	12.73	0.282	7.16
12	304.8	37.2	25	3.047	77.39	0.501	12.73	0.387	9.83
		44.64	30	3.17	80.52	0.501	12.73	0.51	12.95
		50.45	33.9	3.4	86.36	0.65	16.51	0.4	10.16
15	381	59.53	40	3.52	89.41	0.65	16.51	0.52	13.21

## Viga I.P.S.

Tipo Americano

Peralte		Peso		Patin				Alma	
d				Ancho (bf)		Espesor (tf)		Espesor (tw)	
Pulg.	mm.	kg/m	lb/pie	Pulg.	mm.	Pulg.	mm.	Pulg.	mm.
3	76.2	8.48	5.7	2.33	59.18	0.26	6.6	0.17	4.3
4	101.6	11.46	7.7	2.66	67.64	0.29	7.4	0.19	4.9
5	127	14.88	10	3	76.3	0.33	8.3	0.21	5.4
6	152.4	18.6	12.5	3.33	84.63	0.36	9.1	0.23	5.9
8	200	26.2	17.605	3.543	90	0.445	11.3	0.295	7.5

\*Pesos teóricos sujetos a cambios.

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas

### Varilla I.P.R.

Nominal		Peso		Peralte		Patin				Alma	
Pulg. (d x bf)	mm. (d x bf)	kg/m	lb/pie	Pulg.	mm.	Ancho (bf)		Espesor (tf)		Espesor (tw)	
				d		Pulg.	mm.	Pulg.	mm.	Pulg.	mm.
4 x 4	101.6 x 101.6	19.3	13	4.16	106	4.06	103	0.35	8.8	0.28	7.11
6 x 4	152.4 x 101.6	12.6	8.5	5.83	148	3.94	100	0.2	5	0.17	4.3
		13.4	9	5.9	150	3.94	100	0.22	5.5	0.17	4.3
		17.9	12	6.03	153	4	102	0.28	7.1	0.23	5.8
		23.8	16	6.28	160	4.03	102	0.41	10.3	0.26	6.6
6 x 6	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	6.2	157	6.02	153	0.37	9.3	0.26	6.6
		37.2	25	6.38	162	6.08	154	0.46	11.6	0.32	8.1
8 x 4	203.2 x 101.6	14.9	10	7.89	200	3.94	100	0.21	5.2	0.17	4.3
		19.3	13	7.99	203	4	102	0.26	6.5	0.23	5.8
		22.3	15	8.11	206	4.02	102	0.32	8	0.25	6.2
8 x 5-1/4	203.2 x 133.4	26.8	18	8.14	207	5.25	133	0.33	8.4	0.23	5.8
		31.2	21	8.28	210	5.27	134	0.4	10.2	0.25	6.4
8 x 6-1/2	203.2 x 165.1	35.7	24	7.93	201	6.5	165	0.4	10.2	0.25	6.2
		41.7	28	8.06	205	6.54	166	0.47	11.8	0.29	7.2
8 x 8	203.2 x 203.2	46.1	31	8	203	8	203	0.44	11	0.29	7.2
		52.1	35	8.12	206	8.02	204	0.5	12.6	0.31	7.9
		59.5	40	8.25	210	8.07	205	0.56	14.2	0.36	9.1
		71.4	48	8.5	216	8.11	206	0.69	17.4	0.4	10.2
		86.3	58	8.75	222	8.22	209	0.81	20.6	0.51	13
10 x 4	254 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	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
10 x 5-3/4	254 x 146	28.3	19	10.24	260	4.02	102	0.4	10	0.25	6.4
		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
10 x 8	254 x 203.2	44.6	30	10.47	266	5.81	148	0.51	13	0.3	7.6
		49.1	33	9.73	247	7.96	202	0.44	11	0.29	7.4
10 x 10	254 x 254	58	39	9.92	252	7.99	203	0.53	13.5	0.32	8
		67	45	10.1	257	8.02	204	0.62	15.7	0.35	8.9
		72.9	49	9.98	253	10	254	0.56	14.2	0.34	8.6
		80.4	54	10.09	256	10.03	255	0.62	15.6	0.37	9.4
		89.3	60	10.22	260	10.08	256	0.68	17.3	0.42	10.7
		101.1	68	10.4	264	10.13	257	0.77	19.6	0.47	11.9
		114.57	77	10.6	269	10.19	259	0.87	22.1	0.53	13.5
		130.94	88	10.84	275	10.265	261	0.99	25.1	0.605	15.4
		148.8	100	11.1	282	10.34	263	1.12	28.4	0.68	17.3
		166.65	112	11.36	289	10.415	265	1.25	31.8	0.755	19.2
12 x 4	304.8 x 101.6	20.8	14	11.91	303	3.97	101	0.23	5.7	0.2	5.1
		23.8	16	11.99	305	3.99	101	0.27	6.7	0.22	5.6
		28.3	19	12.16	309	4.01	102	0.35	8.9	0.24	6
12 x 6-1/2	304.8 x 165.1	32.7	22	12.31	313	4.03	102	0.43	10.8	0.26	6.6
		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
12 x 8	304.8 x 203.2	52.1	35	12.5	318	6.56	167	0.52	13.2	0.3	7.6
		59.5	40	11.94	303	8.01	203	0.52	13.1	0.3	7.5
		67	45	12.06	306	8.05	204	0.58	14.6	0.34	8.5
12 x 10	304.8 x 254	74.4	50	12.19	310	8.08	205	0.64	16.3	0.37	9.4
		78.9	53	12.06	306	10	254	0.58	14.6	0.35	8.8
12 x 12	304.8 x 304.8	86.3	58	12.19	310	10.01	254	0.64	16.3	0.36	9.1
		96.7	65	12.12	308	12	305	0.61	15.4	0.39	9.9
		107.1	72	12.25	311	12.04	306	0.67	17	0.43	10.9
		117.6	79	12.38	314	12.08	307	0.74	18.7	0.47	11.9
		129.45	87	12.53	318	12.125	308	0.81	20.6	0.515	13.1
		142.9	96	12.71	323	12.16	309	0.9	22.9	0.55	14
		157.72	106	12.89	327	12.22	310	0.99	25.1	0.61	15.5
		202.36	136	13.41	341	12.4	315	1.25	31.8	0.79	20.1
		226.17	152	13.71	348	12.48	317	1.4	35.6	0.87	22.1
		252.99	170	14.03	356	12.57	319	1.56	39.6	0.96	24.4
282.72	190	14.38	365	12.67	322	1.735	44.1	1.06	26.9		

\*Pesos teóricos sujetos a cambios.  
\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas

### Varilla I.P.R.

Nominal		Peso		Peralte		Patin				Alma	
Pulg. (d x bf)	mm. (d x bf)	kg/m	lb/pie	d		Ancho (bf)		Espesor (tf)		Espesor (tw)	
				Pulg.	mm.	Pulg.	mm.	Pulg.	mm.	Pulg.	mm.
14 x 5	355.6 x 127	32.7	22	13.74	349	5	127	0.34	8.5	0.23	5.8
		38.7	26	13.91	353	5.03	128	0.42	10.7	0.26	6.5
14 x 6-3/4	355.6 x 171.4	44.6	30	13.84	352	6.73	171	0.39	9.8	0.27	6.9
		50.6	34	13.98	355	6.75	171	0.46	11.6	0.29	7.2
		56.5	38	14.1	358	6.77	172	0.52	13.1	0.31	7.9
14 x 8	355.6 x 203.2	64	43	13.66	347	8	203	0.53	13.5	0.31	7.7
		71.4	48	13.79	350	8.03	204	0.6	15.1	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	90.8	61	13.89	353	10	254	0.65	16.4	0.38	9.5
		101.2	68	14.04	357	10.04	255	0.72	18.3	0.42	10.5
		110.1	74	14.17	360	10.07	256	0.79	19.9	0.45	11.4
		122	82	14.31	363	10.13	257	0.855	21.7	0.51	13
14 x 14-1/2	355.6 x 368.3	133.9	90	14.02	356	14.52	369	0.71	18	0.44	11.2
		147.3	99	14.16	360	14.57	370	0.78	19.8	0.49	12.3
		162.2	109	14.32	364	14.61	371	0.86	21.8	0.53	13.3
		178.6	120	14.48	368	14.67	373	0.94	23.9	0.59	15
		196.4	132	14.66	372	14.73	374	1.03	26.2	0.65	16.4
14 x 16	355.6 x 406.4	215.8	145	14.78	375	15.5	394	1.09	27.7	0.68	17.3
		236.6	159	14.98	380	15.57	395	1.19	30.2	0.75	18.9
		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
		313.96	211	15.72	399	15.8	401	1.56	39.6	0.98	24.9
16 x 5-1/2	406.4 x 139.7	382.41	257	16.38	416	15.995	406	1.89	48	1.175	29.8
		38.7	26	15.69	399	5.5	140	0.35	8.8	0.25	6.4
16 x 7	406.4 x 177.8	46.1	31	15.88	403	5.53	140	0.44	11.2	0.28	7
		53.6	36	15.86	403	6.99	177	0.43	10.9	0.3	7.5
		59.5	40	16.01	407	7	178	0.51	12.8	0.31	7.7
		67	45	16.13	410	7.04	179	0.57	14.4	0.35	8.8
		74.4	50	16.26	413	7.07	180	0.63	16	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	18.2	0.43	10.9
		99.7	67	16.33	415	10.24	260	0.67	16.9	0.4	10
		114.6	77	16.52	420	10.3	261	0.76	19.3	0.46	11.6
		132.4	89	16.75	425	10.37	263	0.88	22.2	0.53	13.3
		149	100	16.97	431	10.425	265	0.985	25	0.585	14.9
18 x 6	457.2 x 152.4	52.1	35	17.7	450	6	152	0.43	10.8	0.3	7.6
		59.5	40	17.9	455	6.02	153	0.53	13.3	0.32	8
		68.4	46	18.06	459	6.06	154	0.61	15.4	0.36	9.1
18 x 7-1/2	457.2 x 190.5	74.4	50	17.99	457	7.5	190	0.57	14.5	0.36	9
		81.8	55	18.11	460	7.53	191	0.63	16	0.39	9.9
		89.3	60	18.24	463	7.56	192	0.7	17.7	0.42	10.5
		96.7	65	18.35	466	7.59	193	0.75	19.1	0.45	11.4
		105.6	71	18.47	469	7.64	194	0.81	20.6	0.5	12.6
18 x 11	457.2 x 279.4	113.1	76	18.21	463	11.04	280	0.68	17.3	0.43	10.8
		128	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	13.6
		157.7	106	18.73	476	11.2	284	0.94	23.9	0.59	15
		177.1	119	18.97	482	11.27	286	1.06	26.9	0.66	16.6
		193.46	130	19.25	489	11.16	283	1.2	30.5	0.67	17
		213	143	19.49	495	11.22	285	1.32	33.5	0.73	18.5
		235	158	19.72	501	11.3	287	1.44	36.6	0.81	20.6
		260.4	175	20.04	509	11.375	289	1.59	40.4	0.89	22.6
		285.69	192	20.35	517	11.455	291	1.75	44.4	0.96	24.4
21 x 6-1/2	533.4 x 165.1	65.5	44	20.66	525	6.5	165	0.45	11.4	0.35	8.9
		74.4	50	20.83	529	6.53	166	0.54	13.6	0.38	9.7
		84.8	57	21.06	535	6.56	166	0.65	16.5	0.41	10.3
21 x 8-1/4	533.4 x 209.5	92.3	62	20.99	533	8.24	209	0.62	15.6	0.4	10.2
		101.2	68	21.13	537	8.27	210	0.69	17.4	0.43	10.9
		108.6	73	21.24	539	8.295	211	0.74	18.8	0.455	11.6
		123.5	83	21.43	544	8.355	212	0.835	21.2	0.515	13.1
		138.4	93	21.62	549	8.42	214	0.93	23.6	0.58	14.7

\*Pesos teóricos sujetos a cambios.

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas



### Varilla I.P.R.

Nominal		Peso		Peralte		Patin				Alma	
Pulg. (d x bf)	mm. (d x bf)	kg/m	lb/pie	d		Ancho (bf)		Espesor (tf)		Espesor (tw)	
				Pulg.	mm.	Pulg.	mm.	Pulg.	mm.	Pulg.	mm.
21 x 12-1/4	533.4 x 311.15	150.3	101	21.36	543	12.29	312	0.8	20.3	0.5	12.7
		165.2	111	21.51	546	12.34	313	0.88	22.2	0.55	14
		181.5	122	21.68	551	12.39	315	0.96	24.4	0.6	15.2
21 x 12-1/2	533.4 x 317.5	218	147	22.06	560	12.51	318	1.15	29.2	0.72	18.3
		81.8	55	23.57	599	7.01	178	0.51	12.8	0.4	10
24 x 7	609.6 x 177.8	92.3	62	23.74	603	7.04	179	0.59	15	0.43	10.9
		101.2	68	23.73	603	8.97	228	0.59	14.9	0.42	10.5
24 x 9	609.6 x 228.6	113.1	76	23.93	608	8.99	228	0.68	17.3	0.44	11.2
		125	84	24.1	612	9.02	229	0.77	19.6	0.47	11.9
		139.9	94	24.31	617	9.07	230	0.88	22.2	0.52	13.1
		153.3	103	24.53	623	9	229	0.98	24.9	0.55	14
		154.8	104	24.06	611	12.75	324	0.75	19.1	0.5	12.7
		174.1	117	24.26	616	12.8	325	0.85	21.6	0.55	14
24 x 12-3/4	609.6 x 323.8	194.9	131	24.48	622	12.86	327	0.96	24.4	0.61	15.4
		217.2	146	24.74	628	12.9	328	1.09	27.7	0.65	16.5
		241.1	162	25	635	12.96	329	1.22	31	0.71	17.9
		125	84	26.71	678	9.96	253	0.64	16.3	0.46	11.7
27 x 10	685.8 x 254	139.9	94	26.92	684	9.99	254	0.75	18.9	0.49	12.4
		151.8	102	27.09	688	10.02	254	0.83	21.1	0.52	13.1
		169.6	114	27.29	693	10.07	256	0.93	23.6	0.57	14.5
		191.95	129	27.63	702	10.01	254	1.1	27.9	0.61	15.5
27 X 14	685.8 X 355.6	217	146	27.38	695	13.965	355	0.975	24.8	0.605	15.4
		239.7	161	27.59	701	14.02	356	1.08	27.4	0.66	16.8
		288.67	194	28.11	714	14.035	356	1.34	34	0.75	19
		323	217	28.43	722	14.115	359	1.5	38.1	0.83	21.1
		350	235	28.66	728	14.19	360	1.61	40.9	0.91	23.1
		384	258	28.98	736	14.27	362	1.77	45	0.98	24.9
30 x 10-1/2	762 x 266.7	133.9	90	29.53	750	10.4	264	0.61	15.5	0.47	11.9
		147.3	99	29.65	753	10.45	265	0.67	17	0.52	13.2
		160.7	108	29.83	758	10.48	266	0.76	19.3	0.55	13.8
		172.6	116	30.01	762	10.5	267	0.85	21.6	0.57	14.4
30 X 15	762 X 381	196.4	132	30.31	770	10.54	268	1	25.4	0.61	15.6
		257.5	173	30.44	773	14.985	381	1.065	27.1	0.655	16.6
		313.96	211	30.94	786	15.105	384	1.315	33.4	0.775	19.7
33 x 11-1/2	838.2 x 292.1	175.6	118	32.86	835	11.48	292	0.74	18.8	0.55	14
		193.4	130	33.09	840	11.51	292	0.86	21.7	0.58	14.7
		209.8	141	33.3	846	11.54	293	0.96	24.4	0.61	15.4
		226.2	152	33.49	851	11.57	294	1.06	26.8	0.64	16.1
		251.5	169	33.82	859	11.5	292	1.22	31	0.67	17
33 X 15-3/4	838.2 X 400.05	328.88	221	33.93	862	15.805	401	1.275	32.4	0.775	19.7
		200.9	135	35.55	903	11.95	304	0.79	20.1	0.6	15.2
36 x 12	36 x 12	223.2	150	35.85	911	11.98	304	0.94	23.9	0.63	15.9
		238.1	160	36.01	915	12	305	1.02	25.9	0.65	16.5
		253	170	36.17	919	12.03	306	1.1	27.9	0.68	17.3
		271	182	36.33	923	12.075	307	1.18	30	0.725	18.4
		289	194	36.49	927	12.115	308	1.26	32	0.765	19.4
		313	210	36.69	932	12.18	309	1.36	34.5	0.83	21.1
		345	232	37.12	943	12.12	308	1.57	39.9	0.87	22.1
		222	149	38.2	970	11.81	300	0.83	21.1	0.63	16
		249	167	38.59	980	11.81	300	1.025	26	0.65	16.5
40 x 12	1016 X 304.8	272	183	38.98	990	11.81	300	1.2	31	0.65	16.5
		314	211	39.37	1000	11.81	300	1.415	35.9	0.75	19.1
		349	235	39.69	1008	11.89	302	1.575	40	0.83	21.1
		393	264	40	1016	11.93	303	1.73	43.9	0.96	24.4

\*Pesos teóricos sujetos a cambios.

\*En caso de requerir alguna medida especial solicitarlo con su ejecutivo de ventas