



CATÁLOGO DE

MATERIAL

DE ACERO



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Ángulo

Pulgadas		Milímetros		Peso a. kg/m
1/8 x	3/4	3.2 x	19.1	0.88
	1		25.4	1.19
	1 1/4		31.7	1.50
	1 1/2		38.1	1.83
	2		50.8	2.46
3/16 x	1	4.8 x	25.4	1.73
	1 1/4		31.7	2.20
	1 1/2		38.1	2.68
	2		50.8	3.63
	2 1/2		63.5	4.60
	3		76.2	5.52
1/4 x	1	6.3 x	25.4	2.22
	1 1/4		31.7	2.86
	1 1/2		38.1	3.49
	2		50.8	4.75
	2 1/2		63.5	6.10
	3		76.2	7.29
	3 1/2		88.9	8.83
5/16 x	4	7.9 x	101.6	9.90
	2		50.8	5.84
	2 1/2		63.5	7.44
	3		76.2	9.08
	4		101.6	12.20
3/8 x	5	9.5 x	127.0	15.51
	2		50.8	6.99
	2 1/2		63.5	8.79
	3		76.2	10.72
	4		101.6	14.60
	5		127.0	18.30
	6		152.4	22.17

Pulgadas		Milímetros		Peso a. kg/m
1/2 x	3	12.7 x	76.2	13.99
	4		101.6	19.05
	5		127.0	24.11
	6		152.4	29.17
5/8 x	6	15.9 x	152.4	36.10
	8		203.2	48.40
3/4 x	6	19.1 x	152.4	42.71
	8		203.2	58.08
7/8 x	8	22.2 x	203.2	66.97
1 x	8	25.4 x	203.2	75.90



Alambrón

Pulg.	F.Pulg.	mm.	(kg/m)
0.218	7/32"	5.55	0.189
0.250	1/4"	6.35	0.249

Alambre recocido

CAL. 16 rollos de 45 a 70 kg/pza



Canal Mon-Ten

Peralte	Largo m.	Calibre	kg/pz
4"	4	14	13.10
4"	6	14	19.70
4"	4	12	18.04
4"	4	10	23.00
5"	5	14	18.40
5"	6	14	22.10
5"	5	12	25.25
5"	5	10	32.40
6"	6	14	24.40
6"	6	12	33.50
6"	6	10	42.70
8"	8	14	43.00
8"	8	12	59.10
8"	8	10	75.70
10"	10	14	61.10
10"	10	12	84.60
10"	10	10	108.30
12"	12	14	89.82
12"	12	12	124.50
12"	12	10	159.60



Cuadrado

Dimensión			Peso aprox.	
Pulg.	mm.	kg x m	kg x pza 6.1 m	
3/8	9.5	.712	4.34	torcido
1/2	12.7	1.266	7.72	torcido
5/8	15.9	1.978	12.07	torcido
3/4	19.1	2.849	17.38	
1	25.4	5.065	30.90	
1 1/4	31.8	7.913	48.27	
1 1/2	38.1	11.395	61.80	
2	50.8	15.90	69.51	

Canal C.P.S.

Altura o Peralte		Peso aprox		Pala (mm)		Alma (mm)
Pulg.	mm.	lb/ft	kg/mt	ancho	espesor	
3	76.2	4.1	6.10	35.8	7	4
4	101.6	5.4	8.04	40.2	8	5
5	127.0	6.7	9.96	44.4	6	4
6	152.4	8.2	12.20	48.7	9	5
6	152.4	10.5	15.63	51.5	9	8
6	152.4	13.0	19.36	55.0	9	11
8	203.8	11.5	17.11	57.4	10	6
8	203.8	13.8	20.48	60.0	10	8
8	203.8	18.8	27.93	64.0	10	12
10	254.0	15.3	22.80	66.1	11	6
10	254.0	20.0	29.80	69.8	11	10
10	254.0	25.0	37.20	73.3	11	13
10	254.0	30.0	44.70	77.1	11	17
12	304.8	20.7	30.80	74.3	11	7
12	304.8	25.0	37.20	77.4	11	10
12	304.8	30.0	44.70	80.6	11	13
15	381.0	33.9	50.60	85.7	11	10
15	381.0	40.0	59.53	88.9	11	13
15	381.0	50.0	74.41	90.4	12	18

HSS (Rectangular - Peso aprox. por pieza de 12.20 mts.)

Pulgadas	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
5" x 3"	117.24	171.04	221.67	269.25	313.54	392.72		
5" x 4"	132.49	194.22	252.54	307.93	359.90	454.45		
6" x 2"	117.24	171.04	221.77	269.25	313.54	392.72		
6" x 3"	132.49	194.22	252.54	307.93	359.90	454.45		
6" x 4"	147.99	217.28	283.65	346.36	406.14	516.18		
6" x 5"		240.58	314.39	385.03	452.62	578.28		
7" x 2"	132.49	194.22	252.54	307.93	359.90	454.45		
7" x 3"	147.99	217.28	283.65	346.36	406.14	516.18		
8" x 2"	147.99	217.28	283.65	346.36	406.14	516.18		
8" x 3"		240.58	314.39	385.03	452.62	578.28		
8" x 4"		263.76	345.26	423.71	498.86	639.77		
8" x 6"		310.12	406.99	500.93	591.46	763.48		
8" x 7"		333.18	437.86	539.61	637.82	825.21		
10" x 2"		263.76	345.26	423.71	498.86	639.77		
10" x 4"		310.12	406.99	500.93	591.46	763.48		
10" x 5"		333.18	437.86	539.61	637.82	825.21		
10" x 6"		356.36	468.72	578.04	684.30	886.94	1078.48	
10" x 8"		402.72	530.70	655.38	776.90	1010.53	1233.42	
12" x 2"		310.12	406.99	500.93	591.46	763.48		
12" x 3"		333.18	437.86	539.61	637.82	825.21		
12" x 4"		356.36	468.72	578.04	684.30	886.94		
12" x 6"		402.72	530.70	655.38	776.90	1010.53	1233.42	
12" x 8"		448.96	592.43	732.61	869.62	1133.99	1388.36	
12" x 10"			658.80	806.42	960.14	1257.82	1572.28	



Pulgadas	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
14" x 6"		448.96	592.43	732.61	869.62	1133.99	1388.36	
14" x 10"		541.80	715.90	887.06	1054.81	1381.04	1697.02	
16" x 4"		448.96	592.43	732.61	869.62	1133.99	1388.36	
16" x 8"		541.80	715.90	887.06	1054.81	1381.04	1697.02	
16" x 12"				1041.39	1240.25	1628.21	2035.26	2366.80
18" x 4"			658.80	806.42	260.14	1257.82		
18" x 6"		541.80	715.90	887.06	1054.81	1381.04	1697.02	

HSS (Cuadrado - Peso aprox. por pieza de 12.20 mts.)

Pulgadas	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"
4 x 4	117.24	171.04	221.67	269.25	313.54	392.72			
4 1/2 x 4 1/2	132.49	194.22	252.54	307.93	359.90	454.45			
5 x 5	147.99	217.28	283.65	346.36	406.14	516.18			
5 1/2 x 5 1/2		240.58	314.39	385.03	452.62				
6 x 6		263.76	345.26	423.71	498.86	639.77	769.82		
7 x 7		310.12	406.99	500.93	591.46	763.48			
7 1/2 x 7 1/2		333.18	437.86	539.61	637.82	825.21			
8 x 8		356.36	468.72	578.04	684.30	886.94	1078.48		
9 x 9		402.72	530.70	655.38	776.90	1010.53			
10 x 10		448.96	592.43	732.61	869.62	1133.99	1388.36	1666.03	
12 x 12		541.80	715.90	887.06	1054.81	1381.04	1697.02	2036.42	
14 x 14				1041.39	1240.25	1628.21	2035.26	2366.80	2708.40
16 x 16				1195.60	1425.57	1875.51	2306.00	2732.80	3147.60
18 x 18						2123.00	2623.00	3099.00	3574.60
20 x 20						2367.00	2928.00	3477.00	4013.80
22 x 22								3843.00	4440.80
25 x 25						2960.00	3636.00	4527.00	5260.00

Lámina y placa antiderrapante

Calibre	Espesor		Peso aprox. por hoja			
	pulg.	mm	3' x 8'	3' x 10'	4' x 8'	4' x 10'
10	.134"	3.42	61.24	76.54	81.66	102.06
11	.119"	3.04	54.43	68.04	72.57	90.72
12	.104"	2.66	47.63	59.53	63.50	79.38
13	.089"	2.28	40.82	51.03	54.43	68.04
14	.074"	1.91	34.19	42.52	45.36	56.67
1/8"	.125"	3.17	59.91	71.14	74.80	93.60
3/16"	.187"	4.76	85.36	106.71	113.81	142.26
1/4"	.250"	6.35	113.80	142.26	151.70	189.60

Lámina Galvanizada (Lisa en hoja)

Calibre	Espesor		kg/m		Peso aprox. por hoja				
	pulg.	mm	3'	4'	3' x 6'	3' x 8'	3' x 10'	4' x 8'	4' x 10'
10	0.1360	3.454	24.77	33.80	45.33	60.44	75.55	83	103
12	0.1061	2.695	19.32	25.76	35.36	47.14	58.93	62.85	78.57
14	0.0762	1.936	13.87	18.50	25.38	33.84	42.30	45.14	56.33
16	0.0613	1.557	11.15	14.87	20.40	27.21	34.01	36.28	45.35
18	0.0493	1.252	8.97	11.96	16.42	21.89	27.36	29.18	36.48
20	0.0374	0.950	6.80	9.06	12.44	16.59	20.74	22.11	27.63
22	0.0314	0.798	5.70	7.60	10.43	13.91	17.39	18.54	23.18
24	0.0224	0.569	4.06	5.42	8.32	11.10	13.88	14.81	18.51
26	0.0194	0.493	3.52	4.69	6.44	8.59	10.74	11.44	14.30
28	0.0164	0.417	2.97	3.96	5.44	7.25	9.06	9.66	12.08
30	0.0135	0.343	2.44		4.47	5.95	7.44		



Lámina negra en hoja (Rolada en caliente)

Calibre	Espesor		3' x 8'	3' x 10'	4' x 8'	4' x 10'	Peso
	pulg.	mm	.914 x 2.44	.914 x 3.05	1.22 x 2.44	1.22 x 3.05	kg/m ²
10	.1345	3.42	61.234	76.542	81.646	102.058	27.46
1/8"	.125	3.17	59.911	71.140	74.806	93.60	25.53
11	.1196	3.04	54.432	68.040	72.574	90.718	24.41
12	.1046	2.66	47.628	59.535	63.503	79.373	21.36
14	.0747	1.91	34.020	42.525	45.359	56.699	15.25

Lámina negra en hoja (Rolada en frío)

Calibre	Espesor		3' x 8'	3' x 10'	4' x 8'	4' x 10'	Peso
	pulg.	mm	.914 x 2.44	.914 x 3.05	1.22 x 2.44	1.22 x 3.05	kg/m ²
16	.0598	1.52	27.216	34.020	36.287	45.359	12.20
18	.0478	1.21	21.773	27.216	29.030	36.287	9.76
20	.0359	.91	16.330	20.412	21.772	27.215	7.32
22	.0299	.76	13.608	17.010	18.144	22.680	6.10
24	.0239	.61	10.886	13.608	14.515	18.144	4.88
26	.0179	.45	8.165	10.206	10.886	13.608	3.66

Lámina Canal Rural

Ancho	Largo	Peralte	Espesor	Color
1.20 m	1.27 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.
1.20 m	2.10 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.
1.20 m	2.54 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.
1.20 m	3.05 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.
1.20 m	3.81 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.
1.20 m	4.20 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.
1.20 m	5.08 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.
1.20 m	6.10 m	2.5 cm	1.2 mm	Amarillo, Blanca, Cristal y Verde.



Lámina Galvanizada R101

Pies	Ancho	Largo	Calibre	Peso x pza.
4x8	1.07 m	2.44 m	26	10.05
4x10	1.07 m	3.05 m		12.56
4x12	1.07 m	3.66 m		15.08
4x16	1.07 m	4.88 m		20.10
4x20	1.07 m	6.10 m		25.13

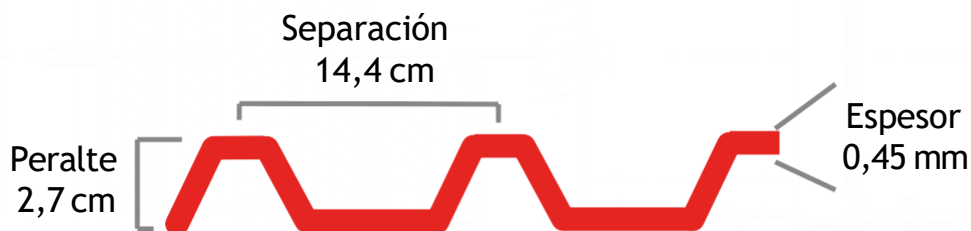


Lámina Galvateja

Pies	Ancho	Largo	Espesor aprox.	Peso	Calibre
4x10	1 m	3.05 m	0.45 mm	14.64	26
4x12	1 m	3.66 m	0.45 mm	17.57	26
4x14	1 m	4.27 m	0.45 mm	20.50	26
4x16	1 m	4.88 m	0.45 mm	23.42	26
4x18	1 m	5.49 m	0.45 mm	26.35	26
4x20	1 m	6.10 m	0.45 mm	29.28	26



Losacero

Calibre	Pies	Ancho	Largo	Peralte	Espesor	Separación	Peso x pza.
20	4x20	0.91 m	6.10 m	6.35 cm	0.76 mm	35.5 cm	55.33
22	4x20	0.91 m	6.10 m	6.35 cm	0.76 mm	35.5 cm	46.42
24	4x20	0.91 m	6.10 m	6.35 cm	0.76 mm	35.5 cm	33.06

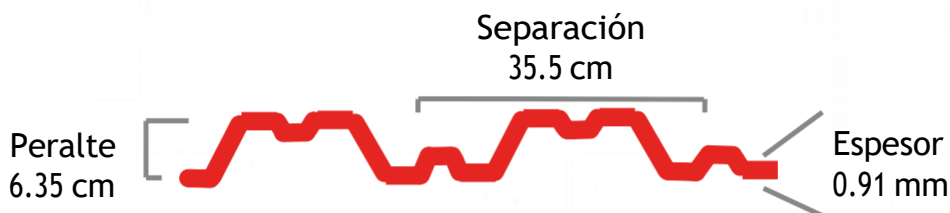


Lámina Plastiteja

Ancho	Largo	Calibre	Espesor	Peso x pza.
97 cm	1.10 m	5 mm	0.45 mm	6.94
97 cm	1.50 m	5 mm	0.45 mm	9.46
97 cm	2.44 m	5 mm	0.45 mm	15.38
97 cm	3.20 m	5 mm	0.45 mm	20.18
97 cm	3.60 m	5 mm	0.45 mm	22.70
97 cm	6.05 m	5 mm	0.45 mm	38.15



Lámina Pintro R101

Pies	Ancho	Largo	Calibre	Peralte	Espesor	Separación	Peso x pza.
4x8	1.07 m	2.44 m	26	2.7 cm	0.45 mm	14.4 cm	9.22
4x10	1.07 m	3.05 m	26	2.7 cm	0.45 mm	14.4 cm	11.52
4x12	1.07 m	3.66 m	26	2.7 cm	0.45 mm	14.4 cm	13.82
4x16	1.07 m	4.88 m	26	2.7 cm	0.45 mm	14.4 cm	18.43
4x20	1.07 m	6.10 m	26	2.7 cm	0.45 mm	14.4 cm	23.04

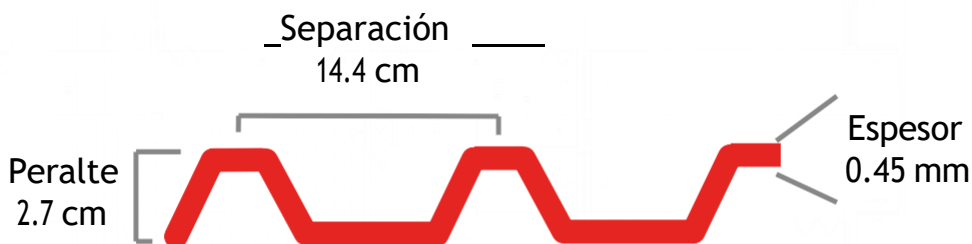


Lámina Policarbonato

Ancho	Largo	Protección	Espesor	Color
1.22 m	10.98 m	2 UV	6 mm	Azul, Blanco, Cristal y Humo.
1.83 m	10.98 m	2 UV	6 mm	Azul, Blanco, Cristal y Humo.
2.10 m	10.98 m	2 UV	6 mm	Azul, Blanco, Cristal y Humo.



Lámina Policarbonato R101

Ancho	Largo	Peralte	Espesor
1.10 m	6.10 m	2 cm	2 mm



Malla electrosoldada

Diseño	Ancho (m)	Largo (m)	Peso aprox. (kg/m ²)
66-44	2.50	40	2.71
66-66	2.50	40	1.98
66-88	2.50	40	1.41
66-1010	2.50	40	.98

Placa_lisa_negra

Espesor	Pulgadas	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	2"
	Milímetros	4.8	6.4	7.9	9.5	12.7	15.9	19.1	22.2	25.4	31.8	38.1	50.8
Peso aprox.	kg/m ²	37.68	50.24	62.01	74.58	99.70	124.82	149.94	174.27	199.39	249.63	299.08	398.78

Medidas													
pies	metros												
3 x 8	0.914 x 2.44	84	112	139	167	222	278	334	389	445	557	667	889
3 x 10	0.914 x 3.05	104	140	173	208	278	348	418	486	556	696	834	1,112
3 x 20	0.914 x 6.10	210	280	346	416	556	696	836	972	1,112	1,392	1,667	2,223
4 x 8	1.22 x 2.44	112	150	185	222	297	372	446	519	594	743	890	1,187
4 x 10	1.22 x 3.05	140	187	231	278	371	464	558	648	742	929	1,113	1,484
4 x 20	1.22 x 6.10	280	373	461	555	742	929	1,116	1,297	1,484	1,858	2,226	2,968
5 x 20	1.52 x 6.10	349	466	578	694	924	1,157	1,390	1,616	1,849	2,315	2,773	3,697
6 x 20	1.83 x 6.10	420	561	694	833	1,113	1,393	1,674	1,945	2,226	2,787	3,339	4,452
8 x 20	2.44 x 6.10	552	748	923	1,110	1,484	1,858	2,232	2,594	2,968	3,715	4,452	5,935

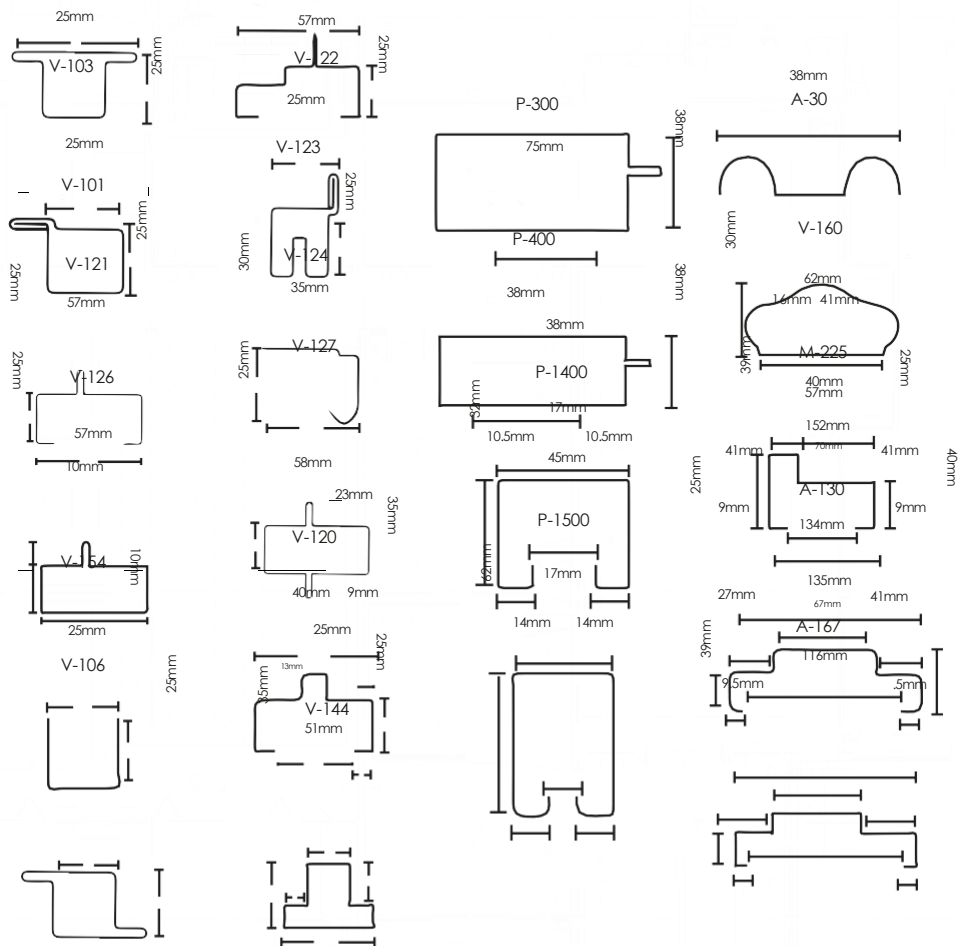
Perfil tubular pintado y zintro

Código	Cal.	Peso aprox kg/pz	pz x atado
V131	20	3.600	10
V120	20	5.800	10
V120	18	7.500	10
M225	20	5.600	10
M225	18	7.500	10
M350	20	6.400	6
V154	20	1.100	50
V154	18	1.500	50
V155	20	1.650	30
C100	20	4.300	10
C100	18	5.600	10
P1400	18	7.300	10
D170	20	9.500	10
M138	20	5.200	10
M138	18	6.800	10
M525	20	8.700	6
M525	18	11.500	6
M600	20	94.00	6
M600	18	12.400	6
V101	20	5.600	10
V101	18	7.400	10
V121	20	5.800	10
V121	18	7.600	10
V123	20	6.500	10
V123	18	8.500	10
V122	20	5.800	10
V122	18	7.600	10
C150	20	6.600	10
C150	18	8.700	10
C150	16	10.650	8
C150	14	13.100	6
C125	20	5.400	10

Código	Cal.	Peso aprox kg/pz	pz x atado
C125	18	7.200	10
C125	16	8.800	10
C125	14	10.700	8
R225	20	6.600	10
R225	18	8.700	10
C075	20	3.150	20
C075	18	4.200	20
V124	18	3.900	10
C050	20	2.200	20
C050	18	28_00	_ 20
R100	20	3.150	15
R100	18	4.200	15
R200	20	65_00	_ 10
R200	18	8.700	10
R200	14	13.100	6
V103	20	6.600	10
V103	18	8.700	10
V144	20	70_00	_ 10
P1500	14	17.630	2
P1500	16	14.250	2
R125	18	5.600	10
R125	20	4.300	10
R175	20	5.400	10
R175	18	7.200	10
V106	20	6.600	10
V106	18	8.700	10
P150	20	7.450	8
P150	18	9.700	8
P015	18	11.260	6
P015	20	8.500	6
P100	20	6.100	10
P100	18	8.000 ____	10

Código	Cal.	Peso aprox kg/pz	pz x atado
P020	20	9.300	6
R249	20	8.000	6
R249	18	10.500	6
V127	20	8.500	7
V127	18	11.200	7
V126	20	7.800	6
V126	18	10.200	6
P200	20	8.200	6
P200	18	10.800	6
P250	20	9.300	6
P250	18	12.000	6
C200	18	11.500	8
C200	16	14.300	6
C200	14	17.700	6
P300	20	10.500	6
P300	18	13.800	6
R300	20	9.600	6
R300	18	12.700	6
R_300	16	15.600	6
R300	14	19.200	4
R250	20	8.500	6
P400	20	12.700	6
P_400	18	16.800	— 6 —
R400	20	11.800	6
R400	18	15.600	6
R400	16	19.300	4
R400	14	23.800	4

Perfil tubular pintado y zintro (medidas)





P.T.R.

Dimensión		Calibre	Color	Espesor (mm)	Peso aprox kg/pz 6.00m	Piezas x atado
Pulg.	mm					
1 x 1	25.4 x 25.4	14	azul	1.89	8.65	120
		12	verde	2.66	11.22	100
		10	rojo	3.42	13.62	81
1 1/4 x 1 1/4	31.7 x 31.7	14	azul	1.89	10.70	100
1 1/2 x 1 1/2	38.1 x 38.1	14	azul	1.89	13.10	72
		12	blanco	2.66	17.76	56
		11	verde	3.04	19.98	49
		9	rojo	3.80	24.12	42
2 x 1	50.8 x 25.4	14	azul	1.89	13.00	64
2 x 2	50.8 x 50.8	14	azul	1.89	17.70	56
		12	blanco	2.66	24.3	42
		11	verde	3.04	27.30	36
		9	rojo	3.80	33.36	30
2 1/2 x 1 1/4	63.3 x 31.7	14	azul	1.89	15.85	50
2 1/2 x 1 1/2	63.5 x 38.1	14	azul	1.89	18.00	50
2 1/2 x 2 1/2	63.5 x 63.5	14	azul	1.89	22.19	42
		11	blanco	3.04	34.92	30
		9	verde	3.80	42.78	25
		7	rojo	4.55	50.22	20
3 x 1 1/2	76.2 x 38.1	14	azul	1.89	19.00	50
3 x 3	76.2 x 76.2	14	azul	1.89	27.59	36
		11	blanco	3.04	42.54	25
		9	verde	3.80	52.32	20
		7	rojo	4.55	61.68	16



Dimensión		Calibre	Color	Espesor (mm)	Peso aprox. kg/pz 6.00m	Piezas x atado
Pulg.	mm					
3 1/2 x 3 1/2	88.9 x 88.9	14	azul	1.89	31.65	36
		11	blanco	3.04	50.04	20
		9	verde	3.80	61.68	16
		7	rojo	4.55	72.96	16
3 x 2	76.2 x 50.8	14	azul	1.89	22.14	42
		11	blanco	3.04	34.92	30
		9	verde	3.80	42.78	25
		7	rojo	4.55	50.22	20
4 x 1 1/2	101.6 x 38.1	14	azul	1.89	25.00	50
4 x 2	101.6 x 50.8	14	azul	1.89	27.59	36
		11	blanco	3.04	42.54	25
		9	verde	3.80	52.32	20
		7	rojo	4.55	61.68	18
4 x 3	101.6 x 76.2	14	azul	1.89	31.65	36
		11	blanco	3.04	50.04	20
		9	verde	3.80	61.68	16
		7	rojo	4.55	72.96	16
4 x 4	101.6 x 101.6	14	azul	1.89	36.20	30
		11	blanco	3.04	57.60	20
		9	verde	3.80	72.18	16
		7	rojo	4.55	85.80	16



Te

Pulg.	mm	Peso aprox.	
		kg/m	kg/pz 6m
1/8 x 1	3.2 x 25.4	1.32	7.92

Redondo pulido (Semiflecha)

Pulgadas	milímetros	Peso aprox.	
		Kg/m	kg x pieza 6.10 m
3/16	4.8	.143	0.858
1/4	6.3	.249	1.494
5/16	7.9	.388	2.328
3/8	9.5	.559	3.354
1/2	12.7	.994	5.964

Redondo

Pulgadas	milímetros	Peso aprox.	
		Kg/m	kg x pieza 6.10 m
3/8	9.5	.559	3.41
7/16	11.1	.760	4.64
1/2	12.7	.994	6.06
9/16	14.3	1.257	7.67
5/8	15.9	1.552	9.47
3/4	19.1	2.235	13.63
7/8	22.2	3.042	18.56
15/16	23.8	3.493	21.31

Pulgadas	milímetros	Peso aprox. <i>Kg/m</i>	kg x pieza <i>6.10 m</i>
1	25.4	3.974	24.24
1 1/8	28.6	5.024	30.68
1 1/4	31.8	6.211	37.89
1 3/8	34.9	7.552	46.07
1 1/2	38.1	9.000	54.90
1 3/4	44.5	12.170	74.24
2	50.8	15.900	96.99
2 1/4	57.1	17.970	122.73
2 1/2	63.5	24.850	151.52

Solera

Pulgadas	Milímetros	Peso a. <i>kg/m</i>
1/8 x	1/2	12.7
	5/8	15.9
	3/4	19.1
	1	25.4
	1 1/4	31.7
	1 1/2	38.1
	2	50.8
	2 1/2	63.5
	3	76.2

Pulgadas		Milímetros		Peso a. kg/m
3/16 x	1/2	4.8 x	12.7	0.47
	5/8		15.9	0.59
	3/4		19.1	0.71
	1		25.4	0.95
	1 1/4		31.7	1.18
	1 1/2		38.1	1.42
	2		50.8	1.90
	2 1/2		63.5	2.37
	3		76.2	2.85
1/4 x	1/2	6.3 x	12.7	0.63
	3/4		19.1	0.95
	1		25.4	1.27
	1 1/4		31.7	1.52
	1 1/2		38.1	1.90
	2		50.8	2.53
	2 1/2		63.5	3.16
	3		76.2	3.79
	4		101.6	5.06
	5		127.0	6.33
	6		152.4	7.59
5/16 x	1 1/2	7.9 x	38.1	2.37
	2		50.8	3.16
	2 1/2		63.5	3.95
	3		76.2	4.75
	4		101.6	6.33
	5		127.0	7.91
	6		152.4	9.49
3/8 x	1	.9 x	25.4	1.89
	1 1/4		31.7	2.37
	1 1/2		38.1	2.85
3/8 x	2	3.2 x	50.8	3.80
	2 1/2		63.5	4.75
	3		76.2	5.69
	4		101.6	7.59
	5		127.0	9.49
	6		152.4	11.39
	8		203.2	15.40

Pulgadas		Milímetros		Peso a. kg/m
1/2 x	1	12.7 x	25.4	2.53
	1 1/4		31.7	3.16
	1 1/2		38.1	3.80
	2		50.8	5.06
	2 1/2		63.5	6.33
	3		76.2	7.598
	4		101.6	10.13
	5		127.0	12.65
	6		152.4	15.19
	8		203.2	20.58
5/8 x	1 1/2	15.9 x	38.1	4.74
	2		50.8	6.33
	2 1/2		63.5	7.91
	3		76.2	9.49
	4		101.6	12.65
	5		127.0	15.82
	6		152.4	18.99
	8		203.2	25.33
3/4 x	1 1/2	19.1 x	38.1	5.70
	2		50.8	7.59
	2 1/2		63.5	9.49
	3		76.2	11.39
	4		101.6	15.19
	5		127.0	19.00
	6		152.4	22.79
	8		203.2	30.43
	10		254.0	37.98
1 x	2	25.4 x	50.8	10.12
	2 1/2		63.5	12.66
	3		76.2	15.19
	4		101.6	20.25
	5		127.0	25.32
	6		152.4	30.38
	8		203.2	40.51
	10		254.0	50.64

Tablero pintado y zintro

Ancho		Largo		Calibre	Peso aprox
<i>Pies</i>	<i>Mts.</i>	<i>Pies</i>	<i>Mts.</i>		<i>kg/pza</i>
3	0.75	3	0.91	20	6.06
3	0.75	4	1.22	20	8.01
3	0.75	6	1.83	20	12.12
3	0.75	8	2.44	20	16.18
3	0.75	10	3.05	20	20.21
4	1.00	3	0.91	20	8.08
4	1.00	4	1.22	20	10.78
4	1.00	6	1.83	20	16.17
4	1.00	8	2.44	20	21.56
4	1.00	10	3.05	20	26.95
3	0.75	3	0.91	22	5.05
3	0.75	4	1.22	22	6.74
3	0.75	6	1.83	22	10.10
3	0.75	8	2.44	22	13.47
3	0.75	10	3.05	22	16.84
4	1.00	3	0.91	22	6.74
4	1.00	4	1.22	22	8.98
4	1.00	6	1.83	22	13.48
4	1.00	8	2.44	22	17.97
4	1.00	10	3.05	22	22.46



Tubería galvanizada y negra cédula 40

Diámetro nominal		Diámetro	Espesor	Peso aprox
<i>pulgadas</i>	<i>milímetros</i>	<i>exterior mm</i>	<i>milímetros</i>	<i>kg/pza</i>
1/2"	12.7	21.3	2.77	8.13
3/4"	19.1	26.7	2.87	10.82
1"	25.4	33.4	3.38	16.00
1 1/4"	31.8	42.2	3.56	21.70
1 1/2"	38.1	48.3	3.68	25.92
2"	50.8	60.3	3.91	34.82
2 1/2"	63.5	73.0	5.16	55.23
3"	76.2	88.9	5.49	72.26
4"	101.6	114.3	6.08	102.85

Tubería negra cédula 30

Diámetro nominal		Calibre	Diámetro	Espesor	Peso aprox	Pieza x
<i>pulgadas</i>	<i>milímetros</i>		<i>exterior mm</i>	<i>milímetros</i>	<i>kg/pza</i>	<i>atado</i>
1/2"	12.7	14	21.3	1.90	5.56	127
3/4"	19.1	14	26.7	1.90	6.78	127
1"	25.4	14	33.4	1.90	9.00	91
1 1/4"	31.8	13	42.2	2.29	14.10	91
1 1/2"	38.1	13	48.3	2.29	16.20	61
2"	50.8	12	60.3	2.67	23.70	37
2 1/2"	63.5	12	73.0	2.67	27.78	37
3"	76.2	11	88.9	3.05	40.20	24
4"	101.6	11	114.3	3.05	52.20	24

Tubería estructural

Espesor de la pared

Diámetro		Ext. Mm	Milésima			Cédula	Peso aprox.	
nominal	pulg.		Fracc. Pulg.	Pulg.	mm		Lb/pie	kg/m
6"	6 5/8"	168.3	3/16"	0.188"	4.78	40	12.92	19.35
			7/32"	0.219"	5.60		14.98	22.47
			1/4"	0.250"	6.35		17.02	25.55
			9/32"	0.280"	7.10		18.97	28.22
			3/8"	0.375"	9.50		24.99	37.20
8"	8 5/8"	219.1	3/16"	0.188"	4.78	10	16.94	25.37
			7/32"	0.219"	5.60	20	19.66	29.48
			1/4"	0.250"	6.35	20	22.36	33.57
			5/16"	0.312"	7.90	30	27.70	41.14
				0.322"	8.20	40	28.55	42.65
			3/8"	0.375"	9.50	40	33.04	49.10
			1/2"	0.500"	12.70	80	43.99	65.47
10"	10 3/4"	273.1	3/16"	0.188"	4.78	10	21.21	31.76
			7/32"	0.219"	5.60	10	24.63	36.94
				0.225"	5.72	10	24.66	36.69
			1/4"	0.250"	6.35	20	28.04	42.09
				0.307"	7.80	30	34.24	51.03
				0.365"	9.27	40	40.48	60.50
			3/8"	0.375"	9.50	40	41.10	61.16
			1/2"	0.500"	12.7	60	54.80	81.55
12"	12"	323.9	3/16"	0.188"	4.78	10	25.22	37.77
			7/32"	0.219"	5.60	10	29.31	43.96
			1/4"	0.225"	5.72	10	30.30	45.09

Espesor de la pared

Diámetro		Ext. Mm	Milésima			Peso aprox.		
nominal	pulg.		Fracc. Pulg.	Pulg.	mm	Cédula	lb/pie	kg/m
12"	12"	323.9	3/8"	0.250"	6.35	20	33.38	50.11
			13/32"	0.375"	9.50	ced.std.	49.56	73.65
			2"	0.406"	10.3	40	53.52	79.65
14"	14"	355.6		0.210"	5.30	10	30.93	45.78
				0.225"	5.72	10	32.68	48.63
			1/4"	0.250"	6.35	10	36.71	55.11
			5/16"	0.312 "	7.90	20	45.61	67.74
			3/8"	0.375"	9.50	30	54.57	81.04
				0.438"	11.10	40	63.44	94.30
				0.465"	11.81	40	67.87	101.00
16"	16"	406.4	1/2"	0.500"	12.70	ext.ñe.	72.09	107.39
			7/32"	0.219"	5.60	10	36.91	55.35
				0.225"	5.72	10	37.28	55.48
				0.250"	6.35	10	42.05	63.13
				0.281"	7.14	20	47.17	69.91
			5/16"	0.312"	7.90	20	52.27	77.63
			3/8"	0.375"	9.50	30	62.58	92.98
18"	18"	457.2	1/2"	0.500"	12.70	40	82.77	123.30
			1/4"	0.250"	6.35	10	47.39	71.12
			5/16"	0.312"	7.90	20	58.94	87.49
			3/8"	0.375"	9.50	ced.std.	70.59	104.84
20"	20"	508.0	1/2"	0.500"	12.70	ext.ñe.	93.45	139.15
			1/4"	0.250"	6.35	10	52.73	79.16

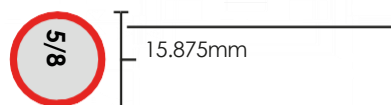
Espesor de la pared

Diámetro		Ext. Mm	Milésima			Cédula	Peso aprox.	
nominal	pulg.		Fracc. Pulg.	Pulg.	mm		lb/pie	kg/m
20"	20"	508.0	5/16"	0.312"	7.90	20	65.60	97.43
			3/8"	0.375"	9.50	20	78.60	116.78
			1/2"	0.500"	12.70	30	104.13	155.12
24"	24"	609.6	1/4"	0.250"	6.35	10	63.41	95.26
			3/8"	0.375"	9.50	20	94.62	140.68
			1/2"	0.500"	12.70	ext. 20e.	125.49	187.06
30"	30"	762.0	1/4"	0.250"	6.35	5	79.43	119.25
			3/8"	0.375"	9.50	ced. Std.	118.65	176.29
			1/2"	0.500"	12.70	ext. 20e.	157.53	234.67
32"	32"	812.8	1/4"	0.250"	6.35	5	84.77	127.30
			3/8"	0.375"	9.50	ced. Std.	126.66	188.24
			1/2"	0.500"	12.70	ext. 20e.	168.21	250.64
36"	36"	914.4	5/16"	0.312"	7.90	10	118.92	176.52
			3/8"	0.375"	9.50	ced. Std.	142.68	21.90
			1/2"	0.500"	12.70	ext. 20e.	189.57	282.27

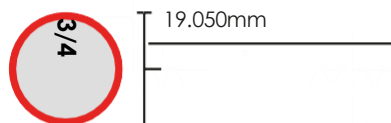
Tubo Industrial



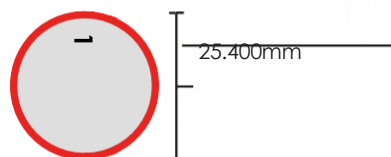
Pared Calibre	Longitud Mts	Kg x metro	Kilos x pieza	Piezas x atado
16	6	0.486	2.914	30
18	6	0.387	2.319	30



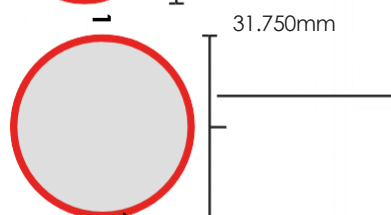
Pared Calibre	Longitud Mts	Kg x metro	Kilos x pieza	Piezas x atado
14	6	0.759	4.552	16
16	6	0.607	3.642	20
18	6	0.483	2.899	20



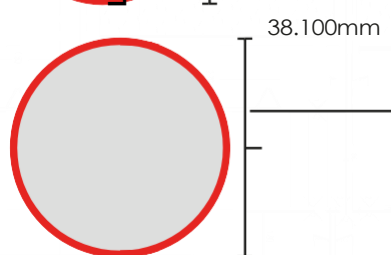
Pared Calibre	Longitud Mts	Kg x metro	Kilos x pieza	Piezas x atado
14	6	0.910	5.463	16
16	6	0.728	4.370	20
18	6	0.580	3.479	20



Pared Calibre	Longitud Mts	Kg x metro	Kilos x pieza	Piezas x atado
14	6	1.214	7.284	10
16	6	0.971	5.827	13
18	6	0.773	4.639	16



14	6	1.517	9.105	7
16	6	1.214	7.284	10
18	6	0.966	5.799	10



14	6	1.821	10.926	7
16	6	1.457	8.741	7
18	6	1.160	6.958	10



Tubo Galvanizado cédula 40

Diámetro Nominal		Diámetro Exterior		Espesor		CED No.	Presiones Prueba ASTM A53 GA		Peso Nominal Extremo Liso		Sistema de Embarque	
pulg.	mm	pulg.	mm	pulg.	mm		lb/pulg. 2	kg/cm 2	lb/pie	kg/m	kg/pza	pzas/paq
1/2	13	0.840	21.3	0.090	2.29	I-200	700	49	0.70	1.07	7.0	120
3/4	19	1.050	26.7	0.095	2.41	I-200	700	49	0.97	1.45	9.0	84
1	25	1.315	33.4	0.104	2.64	I-200	700	49	1.32	2.00	13.0	60
1 1/4	32	1.660	42.2	0.11	2.79	I-200	1200	84	1.82	2.72	17.5	42
1 1/2	38	1.900	48.3	0.114	2.92	I-200	1200	84	2.19	3.27	21.0	36
2	51	2.375	60.3	0.12	3.05	I-200	1200	84	2.89	4.30	27.5	26
2 1/2	64	2.875	73.0	0.16	4.06	I-200	1950	134	4.64	6.25	40.0	18
3	76	3.500	88.9	0.17	4.32	I-200	1750	123	6.06	9.01	57.5	14
4	102	4.500	114.3	0.185	4.70	I-200	1500	105	8.54	12.7	81.0	10
5				0.188	4.78	I-200	1020	72	12.92	19.26	123.0	7
6	152	5.625	143.3	0.250	6.35	I-200	1360	96	17.02	25.36	162.0	7



Rejilla IRVING

SOLERA DE CARGA		DISTANCIA ENTRE APOYOS, EN METROS					
		0.25	0.5	0.75	1	1.25	1.5
PULGADAS 1" X 3/16"	R-1	2227	613				
	R-2	5346	1472				
	P SX	0.33	55.1	1.31			
1 1/4" X 3/16"			0.512				
	R-1	3448	1022				
	R-2	8276	2453				
1 1/2" X 3/16"	P SX	0.26	64	1.04			
	R-1		0.8				
	R-2						
1 1/2" X 1/4"	P SX	7458	1649				
	R-1	11796	3957	1456			
	R-2	0.21	0.86	3495			
	P SX		75.8	2.20			
	R-1	7458	1.152				
	R-2	17900	3722	1737			
	P SX	0.24	89.32				
	R-1		0.98				
	R-2	8586	99.6				
2" X 3/16"	P SX		2.047				
	R-1		4285				
	R-2	20606	10285	4169	2809		
2" X 1/4"	P SX	0.16	0.63	1.42	2.53		
	R-1		99.6				
	R-2	13087	2.047	4344	1906	1408	
2" X 3/8"	P SX	31408	3533	10427	4574	3402	
	R-1	0.18	15680	1.63	2.89	4.52	
	R-2		0.72				
2 1/2" X 3/16"	P SX	114941	131.1	7373	5513	2625	
	R-1	35859	2.731	17695	13290	6322	
	R-2	0.21	11084	1.87	3.33	5.21	
2 1/2" X 3/8"	P SX		26601				
	R-1		0.83				
	R-2		194.6	4385	1928	1433	
3" X 3/8"	P SX		4.021	10524	4627	3440	
	R-1		6593	1.12	1.99	3.12	
	R-2		15824		132.2		
	P SX		0.5	11492	3.199	6857	
	R-1		27582	1.49	8598	16456	
	R-2		17269		20635	4.05	
	P SX		41445		2.66		
	R-1		0.66	16519	242	9865	
	R-2		39645	6.284	23675		
	P SX		19922	1.24	12364	3.45	
	R-1		47813		29673		
	R-2		0.55		2.21		
	P SX				286.6		
	R-1				9.048		
	R-2						

R-1 Carga en rodada sencilla
 P-2 Carga en rodada doble
 P-Peso x m2
 SX-Módulo de Sección x ML

NORMAS DE CARGA PERMISIBLE PARA REJILLA DE ACERO CARBON PARA SERVICIO PESADO ASIM-A-36



Viga I.P.S

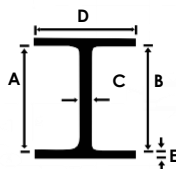
Peralte		Pañ (mm) alma		Peso aprox
<i>pulg</i>	<i>mm</i>	<i>ancho</i>	<i>mm</i>	<i>kg/m</i>
3	76.2	59.23	4.3	8.48
4	101.6	67.64	4.9	11.46
5	127.0	76.30	5.4	14.88
6	152.4	84.63	5.9	18.60
8	200.0	89.99	7.5	26.19

Varilla corrugada R-42

Número	Pulgada	Milímetro	kg x pieza <i>kg/m</i>	Pzas. Aprox de 12 m x ton.
2.5	5/16	7.9	0.384	214
3	3/8	9.5	0.56	148
4	1/2	12.7	0.994	83
5	5/8	15.9	1.552	53
6	3/4	19.1	2.235	37
8	1	25.4	3.973	20
10	1 1/4	31.8	6.225	13
12	1 1/2	38.1	8.938	9

Viga I.P.R.

- A Peralte Exterior
- B Peralte Interior
- C Alma
- D Ancho Patín
- E Espesor Patín



Dimension			Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
Peso aprox							
pulgadas	lb/ft	kg/m					
4 x 4	13	19.3	106	88	7.1	103	8.8
5 x 5	16	23.8	127	109	6.1	127	9.1
5 x 5	19	28.3	131	109	6.9	128	10.9
6 x 4	8.5	12.6	152	140	4.5	100	4.6
6 x 4	9	13.5	150	139	4.3	100	5.5
6 x 4	12	17.9	153	138	5.8	102	7.1
6 x 4	16	23.8	160	139	6.6	102	10.3
6 x 6	15	22.3	152	139	5.8	152	6.6
6 x 6	20	29.8	157	138	6.6	153	9.3
6 x 6	25	37.2	162	139	8.1	154	11.6
8 x 4	10	14.9	20	190	4.3	100	5.2
8 x 4	13	19.3	203	190	5.8	102	6.5
8 x 4	15	22.3	206	190	6.2	102	8.0
8 x 5 1/4"	18	26.8	207	190	5.8	133	8.4
8 x 5 1/4"	21	31.3	210	190	6.4	134	10.2
8 x 6 1/2"	24	35.7	201	181	6.2	201	10.2
8 x 6 1/2"	28	41.7	205	181	7.2	205	11.8
8 x 8	31	46.1	203	181	7.2	203	11.0
8 x 8	35	52.1	206	181	7.9	204	12.6
8 x 8	40	59.5	210	182	9.1	205	14.2
8 x 8	48	71.4	216	181	10.2	206	17.4
8 x 8	58	86.3	222	181	13.0	209	20.6
8 x 8	67	99.7	229	182	14.5	210	23.7
10 x 4	12	17.9	251	240	4.8	101	5.3
10 x 4	15	22.3	254	240	5.8	102	6.9
10 x 4	17	25.3	257	240	6.1	102	8.4



Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
pulgadas	lb/ft	kg/m					
10 x 4	19	28.3	260	240	6.4	102	10.0
10 x 5 3/4"	22	32.7	258	240	6.1	146	9.1
10 x 5 3/4"	26	38.7	262	240	6.6	147	11.2
10 x 5 3/4"	30	44.6	266	240	7.6	147	13.0
10 x 8	33	49.1	247	225	7.4	202	11.0
10 x 8	39	58.0	252	225	8.0	203	13.5
10 x 8	45	67.0	257	226	8.9	204	15.7
10 x 10	49	72.9	253	225	8.6	254	14.2
10 x 10	54	80.4	256	225	9.4	255	15.6
10 x 10	60	89.3	260	225	10.7	256	17.3
10 x 10	68	101	264	225	11.9	257	19.6
10 x 10	77	115	269	225	13.5	259	22.1
10 x 10	88	131	275	225	15.4	261	25.1
10 x 10	100	149	282	225	17.3	263	28.4
10 x 10	112	167	289	225	19.2	265	31.8
12 x 4	14	20.8	303	292	5.1	101	5.7
12 x 4	16	23.8	305	292	5.6	101	6.7
12 x 4	19	28.3	309	291	6.0	102	8.9
12 x 4	22	32.7	313	291	6.6	102	10.8
12 x 6 1/2"	26	38.7	310	291	5.8	165	9.7
12 x 6 1/2"	30	44.6	313	291	6.6	166	11.2
12 x 6 1/2"	35	52.1	317	291	7.6	167	13.2
12 x 8	40	59.5	303	277	7.5	203	13.1
12 x 8	45	67.0	306	277	8.5	204	14.6
12 x 8	50	74.4	310	277	9.4	205	16.3
12 x 10	53	78.9	306	277	8.8	254	14.6
12 x 10	58	86.3	310	277	9.1	254	16.3
12 x 12	65	96.7	308	277	9.9	305	15.4
12 x 12	72	107	311	277	10.9	306	17.0
12 x 12	79	118	314	277	11.9	307	18.7
12 x 12	87	129	318	277	13.1	308	20.6



Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
	pulgadas	lb/ft ²					
12 x 12	96	143	323	277	14.0	309	22.9
12 x 12	106	158	327	277	15.5	310	25.1
12 x 12	120	179	333	277	18.0	313	28.1
12 x 12	136	202	341	277	20.1	315	31.8
12 x 12	152	226	348	277	22.1	317	35.6
12 x 12	170	253	356	277	24.4	319	39.6
12 x 12	190	283	365	277	26.9	322	44.1
12 x 12	210	313	374	277	30.0	325	48.3
12 x 12	230	342	382	277	32.6	328	52.6
12 x 12	252	375	392	277	36.0	332	58.0
12 x 12	279	415	400	277	38.0	335	64.0
12 x 12	336	500	405	277	42.0	339	74.0
14 x 5	22	32.7	349	332	5.8	127	8.5
14 x 5	26	38.7	353	332	6.5	128	10.7
14 x 6 3/4"	30	44.6	352	332	6.9	171	9.8
14 x 6 3/4"	34	50.6	355	332	7.2	171	11.6
14 x 6 3/4"	38	56.6	358	332	7.9	172	13.1
14 x 8	43	64	347	320	7.7	203	13.5
14 x 8	48	71.4	350	320	8.6	204	15.1
14 x 8	53	78.9	354	320	9.4	205	16.4
14 x 10	61	90.8	353	320	9.5	254	16.4
14 x 10	68	101	357	320	10.5	255	18.3
14 x 10	74	110	360	320	11.4	256	19.9
14 x 10	32	122	363	320	13.0	257	21.7
14 x 14 1/2"	90	134	356	320	11.2	369	18.0
14 x 14 1/2"	99	147	360	320	12.3	370	19.8
14 x 14 1/2"	109	162	364	320	13.3	371	21.8
14 x 14 1/2"	120	179	368	320	15.0	373	23.9
14 x 14 1/2"	132	196	372	320	16.4	374	26.2
14 x 16	145	216	375	320	17.3	394	27.7
14 x 16	159	237	380	320	18.9	395	30.2



Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
pulgadas	lb/ft	kg/m					
14 x 16	176	262	387	320	21.1	398	33.3
14 x 16	193	287	393	320	22.6	399	36.6
14 x 16	211	314	399	320	24.9	401	39.6
14 x 16	233	347	407	320	27.2	404	43.7
14 x 16	257	382	416	320	29.8	406	48.0
14 x 16	283	421	425	320	32.8	409	52.6
14 x 16	311	463	435	320	35.8	412	57.4
14 x 16	342	509	446	321	39.1	416	62.7
14 x 16	370	551	455	320	42.0	418	67.6
14 x 16	398	592	468	320	45.0	421	72.3
14 x 16	426	634	474	320	47.6	424	77.1
14 x 16	455	677	483	320	51.2	428	81.5
14 x 16	500	744	498	320	55.6	432	88.9
14 x 16	550	818	514	320	60.5	437	97.0
16 x 5 1/2"	26	39	399	381	6.4	140	8.8
16 x 5 1/2"	31	46	403	381	7.0	140	11.2
16 x 7	36	53.6	403	381	7.5	177	10.9
16 x 7	40	59.5	407	381	7.7	178	12.8
16 x 7	45	67	410	381	8.8	179	14.4
16 x 7	50	74.4	413	381	9.7	180	16.0
16 x 7	57	84.8	417	381	10.9	181	18.2
16 x 10 1/4"	67	100	415	381	10.0	260	16.9
16 x 10 1/4"	77	115	420	381	11.6	261	19.3
16 x 10 1/4"	89	132	425	381	13.3	263	22.2
16 x 10 1/4"	100	149	431	381	14.9	265	25.0
18 x 6	35	52.1	450	428	7.6	152	10.8
18 x 6	40	59.5	455	428	8.0	1253	13.3
18 x 6	46	68.5	459	428	9.1	154	15.4
18 x 7 1/2"	41	61	455	430	8.4	190	12.0
18 x 7 1/2"	45	67	458	432	8.7	190	12.3
18 x 7 1/2"	50	74.4	457	428	9.0	190	14.5



Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
pulgadas	lb/ft	kg/m					
18 x 7 1/2"	55	81.8	460	428	9.9	191	16.0
18 x 7 1/2"	60	89.3	463	428	10.5	1912	17.7
18 x 7 1/2"	65	96.7	466	428	11.4	193	19.0
18 x 7 1/2"	71	106	469	428	12.6	194	20.6
18 x 11	76	113	463	428	10.8	280	17.3
18 x 11	86	128	467	428	12.2	282	19.6
18 x 11	97	144	47	428	13.6	283	22.1
18 x 11	106	158	476	428	15.0	284	23.9
18 x 11	119	177	482	428	16.6	286	26.9
18 x 11	130	193	489	428	17.0	283	30.5
18 x 11	143	213	495	428	18.5	285	33.5
18 x 11	158	235	501	428	20.6	287	36.6
18 x 11	175	260	509	428	22.6	289	40.4
18 x 11	192	286	519	428	22.8	239	45.0
18 x 11	211	314	525	428	27	293	48.5
18 x 11	234	348	535	428	29	296	53.5
18 x 11	258	384	545	428	32	299	58.4
18 x 11	283	421	555	428	35	302	63.5
18 x 11	311	463	567	428	38	305	69.5
21 x 6 1/2"	44	65.5	525	502	8.9	165	11.4
21 x 6 1/2"	50	74.4	529	502	9.7	166	13.6
21 x 6 1/2"	57	84.8	535	502	10.3	166	16.5
21 x 8 1/4"	48	71.4	522	500	8.2	208	11.9
21 x 8 1/4"	55	81.8	528	501	9.7	209	13.30
21 x 8 1/4"	62	92.3	533	502	10.2	209	15.6
21 x 8 1/4"	68	101	537	502	10.9	210	17.4
21 x 8 1/4"	73	109	539	501	11.6	211	18.8
21 x 8 1/4"	83	124	544	502	13.1	212	21.2
21 x 8 1/4"	93	138	549	502	14.7	214	23.6
21 x 12 1/4"	101	150	543	502	12.7	312	20.3
21 x 12 1/4"	111	165	546	502	14.0	313	22.2



Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
pulgadas	lb/ft	kg/m					
21 x 12 1/2"	122	182	551	502	15.2	315	24.4
21 x 12 1/2"	132	196	554	501	16.5	316	26.3
21 x 12 1/2"	147	219	560	502	18.3	318	29.2
21 x 12 1/2"	166	247	571	502	19.0	315	34.5
21 x 12 1/2"	182	271	577	502	21.1	318	37.6
21 x 12 1/2"	201	299	585	502	23.1	319	41.4
21 x 12 1/2"	223	332	593	502	25.4	322	45.4
21 x 12 1/2"	248	369	603	502	27.9	324	50.5
21 x 12 1/2"	275	409	613	502	30.9	327	55.6
24 x 7	55	81.8	599	573	10.0	178	12.8
24 x 7	62	92.3	603	573	10.9	179	15.0
24 x 9	56	83.3	599	573	9.0	228	13.0
24 x 9	61	90.8	598	573	9.6	227	12.7
24 x 9	68	101	603	573	10.5	228	14.9
24 x 9	76	113	608	573	11.2	228	17.3
24 x 9	84	125	612	573	11.9	229	19.6
24 x 9	94	140	617	573	13.1	230	22.2
24 x 9	103	153	623	573	14.0	229	24.9
24 x 12 3/4"	104	155	611	573	12.7	324	19.0
24 x 12 3/4"	117	174	616	573	14.0	325	21.6
24 x 12 3/4"	131	195	622	573	15.4	327	24.4
24 x 12 3/4"	146	217	628	573	16.5	328	27.7
24 x 12 3/4"	162	241	635	573	17.1	329	31.0
24 x 12 3/4"	176	262	641	573	19.0	327	34.0
24 x 12 3/4"	192	286	647	573	20.6	329	37.1
24 x 12 3/4"	207	308	660	573	22.0	333	39.0
24 x 12 3/4"	229	341	661	573	24.4	333	43.9
24 x 12 3/4"	250	372	670	573	26.6	335	47.5
24 x 12 3/4"	279	415	679	573	29.5	338	53.1
24 x 12 3/4"	306	455	689	573	32.0	340	57.9
24 x 12 3/4"	335	499	699	573	35.1	343	63.0

Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
pulgadas	lb/ft	kg/m					
24 x 12 3/4"	370	551	711	573	38.6	347	69.1
27 x 10	84	125	678	645	111.7	253	16.3
27 x 10	94	140	684	646	12.4	254	18.9
27 x 10	102	152	688	646	13.1	254	21.1
27 x 10	114	170	693	646	14.5	256	23.6
27 x 10	129	192	702	646	15.5	254	27.9
27 x 14	146	217	700	650	15.0	358	25.3
27 x 14	161	240	701	646	16.7	356	27.4
27 x 14	178	265	707	647	19.0	362	30.0
27 x 14	194	289	716	645	19.0	358	33.0
27 x 14	217	323	727	650	21.0	361	38.0
27 x 14	235	350	728	647	23.0	362	41.0
27 x 14	258	384	733	647	25.0	364	44.0
27 x 14	281	418	745	648	28.0	365	49.0
27 x 14	307	457	753	648	30.0	368	53.0
27 x 14	336	500	762	649	32.0	370	57.0
27 x 14	368	548	772	647	33.0	370	61.0
30 x 10 1/2"	90	134	746	716	11.9	265	14.9
30 x 10 1/2"	99	147	753	719	13.2	265	17.0
30 x 10 1/2"	108	161	758	719	13.8	266	19.3
30 x 10 1/2"	116	173	762	719	14.4	267	21.6
30 x 10 1/2"	124	185	766	719	14.9	267	23.6
30 x 10 1/2"	132	196	770	719	15.6	268	25.4
30 x 10 1/2"	148	220	779	719	16.5	266	30.0
30 x 15	173	257	772	722	16.6	390	25.4
30 x 15	191	284	784	722	18.0	384	29.1
30 x 15	211	314	790	722	20.0	385	32.0
30 x 15	235	350	796	722	24.0	385	36.0
30 x 15	261	388	803	723	23.0	389	41.0
30 x 15	292	435	803	720	25.0	385	46.0
30 x 15	326	485	825	722	29.0	390	53.0



Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
pulgadas	lb/ft	kg/m					
30 x 15	357	531	831	723	31.0	388	54.0
30 X 15	391	582	840	718	34.0	388	61.0
33 X 11 1/2"	118	176	835	797	14.0	292	18.8
33 X 11 1/2"	130	193	840	797	14.7	292	21.7
33 X 11 1/2"	141	210	846	797	15.4	293	24.4
33 X 11 1/2"	152	226	851	797	16.1	294	26.8
33 X 11 1/2"	169	252	859	797	17.0	292	31.0
33 X 15 3/4"	201	299	861	801	18.0	403	29.0
33 X 15 3/4"	221	329	962	800	20.0	403	32.0
33 X 15 3/4"	241	359	871	802	21.0	410	34.0
33 X 15 3/4"	263	391	879	800	28.0	402	38.0
33 X 15 3/4"	291	433	885	801	26.0	404	41.0
33 X 15 3/4"	318	473	891	800	27.0	405	51.0
33 X 15 3/4"	354	527	902	801	29.0	403	51.0
33 X 15 3/4"	387	576	911	798	33.0	410	55.0
36 X 12	135	201	903	863	15.2	304	20.1
36 X 12	150	223	911	863	15.9	304	23.9
36 X 12	160	238	915	863	16.5	305	25.9
36 X 12	170	253	919	863	17.3	306	27.9
36 X 12	182	271	923	863	18.4	307	30.0
36 X 12	194	289	927	863	19.4	308	32.0
36 X 12	210	313	932	863	21.1	309	34.5
36 X 12	232	345	940	863	22.0	311	39.0
36 X 12	256	381	948	863	23.0	313	43.0
36 X 16 1/2"	231	344	927	825	19.3	418	32.0
36 X 16 1/2"	247	368	931	824	20.3	419	34.3
36 X 16 1/2"	262	390	936	824	21.3	420	36.6
36 X 16 1/2"	282	420	943	825	22.5	422	39.9
36 X 16 1/2"	302	449	948	825	24.0	423	42.7
36 X 16 1/2"	330	491	957	825	25.9	422	47.0
36 X 16 1/2"	361	537	965	825	28.4	425	51.1



Dimensión	Peso aprox		Peralte ext. (A)	Peralte int. (B)	Alma (C)	Ancho pañ (D)	Espesor pañ (E)
pulgadas	lb/ft	kg/m					
36 X 16 1/2"	395	588	976	825	31.0	427	55.9
36 X 16 1/2"	441	656	987	825	34.5	431	62.0
36 x 16 1/2"	487	725	999	825	38.1	434	68.1
36 x 16 1/2"	529	787	1011	825	40.9	437	73.9
36 x 16 1/2"	652	970	1043	825	50.0	446	89.9
40 x 12	149	222	970	928	16.0	300	21.1
40 x 12	167	249	980	928	16.5	300	26.0
40 x 12	183	272	990	928	16.5	300	31.0
40 x 12	211	314	1000	928	19.1	300	35.9
40 x 12	235	350	1008	928	21.1	302	40.0
40 x 12	249	370	1000	928	19.5	400	36.068
40 x 12	264	393	1016	928	24.4	303	42.9
40 x 12	278	414	1020	928	26.0	304	46.0
40 x 12	294	438	1026	928	27.0	305	49.0
40 x 12	327	487	1036	928	29.9	308	54.1
40 x 12	331	493	1036	928	31.0	309	54.0
40 x 12	392	583	1056	928	36.0	314	64.0
40 x 16	199	296	982	928	16.5	400	27.1
40 x 16	215	320	990	928	16.5	400	31.0
40 x 16	249	371	1000	928	19.0	400	36.1
40 x 16	277	412	1008	928	21.1	402	40.0
40 x 16	297	442	1012	928	23.6	402	41.9
40 x 16	324	482	1020	928	25.4	404	46.0
40 x 16	362	593	1030	928	28.4	407	51.1
40 x 16	372	554	1032	928	29.5	408	52.0
40 x 16	397	591	1040	928	31.0	409	55.9
40 x 16	431	641	1048	928	34.0	412	60.0
40 x 16	503	749	1068	928	39.0	417	70.0
40 x 16	593	882	1092	928	45.5	424	82.0
44 x 16	230	342	1090	1028	18.0	400	31.0
44 x 16	262	390	1100	1028	20.0	400	36.0
44 x 16	290	432	1108	1028	22.0	402	40.0
44 x 16	335	499	1118	1028	26.0	405	45.0