



serviacero[®]
comercial

Libro de pesos teóricos



serviacero[®]
comercial

En **Serviacero Comercial** nos especializamos en el **procesamiento, fabricación y comercialización de la gama más amplia de productos de acero al carbón**, para las industrias metalmecánica, estructurista, de la construcción y distribuidores.

Garantizamos la confiabilidad de nuestros procesos trabajando bajo un sistema de calidad y mejora continua **ISO 9001:2015**; estamos enfocados a satisfacer las necesidades de nuestros clientes.

Continuamente realizamos inversiones para mantenernos siempre a la vanguardia y ampliar nuestra gama de productos y servicios para nuestros clientes.

La información contenida en este libro es sólo de referencia y puede tener cambios sin previo aviso. El manejo de la información aquí contenida es responsabilidad del usuario.

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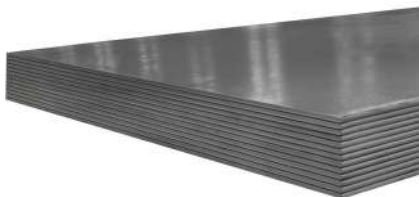
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Láminas y Placas

Nuestros servicios

- Nivelado de Lámina y Placa calidad láser

Largos a la medida de su proyecto.
Nivelado de Calibre 14 a 3/4"



- Slitter

Desde 0.024" a 0.250" de espesor.
Hasta 31 cortes simultáneos.



- Corte Plasma

Para lámina y placa en espesores desde calibre 10 a 2.5", en anchos hasta 3.05 m y largos hasta 12.20 m.

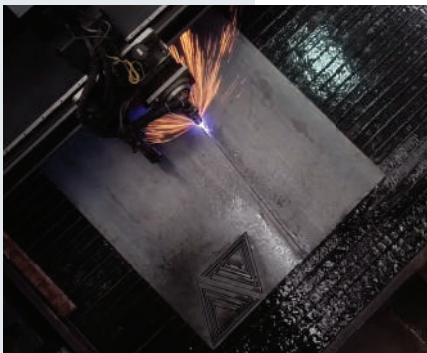


Lámina Negra Rolada en Caliente y Frío. Negra Decapada.

Norma SAE 1008/1010, ASTM A1011, A568

Tabla De Pesos Teóricos

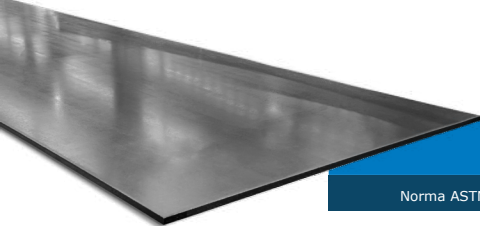
Calibre	Espesor	Espesor	Peso	0,914 X 1.829	0,914 X 2.438	0,914 X 3.048	1,219 X 2.438	1,219 X 3.048
No	mm	Pulg.	Kg / m ²	3' X 6'	3' X 8'	3' X 10'	4' X 8'	4' X 10'
6	4.94	0.1943	39.681	64.97	86.62	108.28	115.50	144.37
8	4.18	0.1644	33.576	54.97	73.29	91.62	97.72	122.16
9	3.8	0.1495	30.523	49.99	66.65	83.31	88.87	111.08
10	3.42	0.1345	27.471	44.97	59.96	74.95	79.95	99.94
11	3.04	0.1196	24.42	39.99	53.32	66.65	71.09	88.87
12	2.66	0.1046	21.367	34.97	46.63	58.29	62.18	77.72
13	2.28	0.0897	18.315	29.99	39.99	49.99	53.32	66.65
14	1.9	0.0747	15.262	24.98	33.30	41.63	44.40	55.51
15	1.71	0.0673	13.736	22.50	30.00	37.50	40.01	50.01
16	1.52	0.0598	12.21	20.00	26.66	33.33	35.55	44.43
17	1.37	0.0538	10.98	17.99	23.99	29.98	31.98	39.98
18	1.21	0.0478	9.768	15.98	21.31	26.64	28.41	35.52
19	1.06	0.0418	8.547	13.98	18.64	23.29	24.85	31.06
20	0.91	0.0359	7.326	12.00	16.01	20.01	21.34	26.68
21	0.84	0.0329	6.713	11.00	14.67	18.33	19.56	24.45
22	0.76	0.0299	6.105	10.00	13.33	16.66	17.77	22.22
23	0.68	0.0269	5.492	8.99	11.99	14.99	15.99	19.99
24	0.61	0.0239	4.448	7.99	10.66	13.32	14.21	17.76
25	0.53	0.0209	4.272	6.99	9.32	11.65	12.42	15.53
26	0.46	0.0179	3.663	5.99	7.98	9.98	10.64	13.30
28	0.38	0.0149	3.052	4.98	6.64	8.30	8.86	11.07
30	0.3	0.012	2.442	4.01	5.35	6.69	7.13	8.92

Lámina Antiderrapante

Norma ASTM A786

Tabla De Pesos Teóricos: Fundida. Troquelada

Calibre	Espesor		Peso		
	Pulg.	mm.	kg/m ²	3' X 10'	4' X 10'
14	0.0747	1.90	16.03	51.03	68.04
12	0.1046	2.66	22.43	71.44	95.25
1/8	0.125	3.17	26.8	83.82	111.77
10	0.1345	3.42	28.84	92.67	123.56
3/16	0.1875	4.76	40.21	118.52	158.03
1/4	0.25	6.40	53.61	153.22	204.30



Placa

Norma ASTM A36, A572, A709, A283, A285, A285-C, A516-70

Tabla De Pesos Teóricos

Dimensiones		3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Pies	Metros	4.8 mm	6.4 mm	7.9 mm	9.5 mm	12.7 mm	15.9 mm	19.1 mm
3' x 10'	0.91 x 3.05	104	139	174	209	279	348	418
4' x 10'	1.22 x 3.05	139	186	232	279	372	464	557
4' x 20'	1.22 X 6.10	279	372	464	557	743	929	1115
5' x 10'	1.52 x 3.05	174	232	290	348	464	581	697
5' x 20'	1.52 x 6.10	348	464	581	697	929	1161	1393
6' x 20'	1.83 x 6.10	418	557	697	836	1115	1393	1672
8' x 20'	2.44 x 6.10	557	743	929	1115	1486	1858	2229
10' x 20'	3.04 X 6.10	697	929	1161	1393	1858	2322	2786
Kilos por m ²		38.29	51.06	63.82	76.59	102.12	127.65	153.18
Kilos por pie ²		3.56	4.75	5.94	7.12	9.50	11.87	14.25

Tabla De Pesos Teóricos

Dimensiones		7/8"	1"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	2"
Pies	Metros	22.2 mm	25.4 mm	28.5 mm	31.7 mm	38.1 mm	44.5 mm	50.8 mm
3' x 10'	0.914 X 3.05	488	557	627	697	836	975	1115
4' x 10'	1.22 x 3.05	650	743	836	929	1115	1300	1486
5' x 10'	1.52 x 3.05	813	929	1045	1161	1393	1625	1858
5' x 20'	1.52 x 6.10	1625	1858	2090	2322	2786	3251	3715
6' x 20'	1.83 x 6.10	1950	2229	2508	2786	3344	3901	4458
8' x 20'	2.44 x 6.10	2601	2972	3344	3715	4458	5201	5944
10' x 20'	3.04 X 6.10	3251	3715	4180	4644	5573	6502	7430
Kilos por m ²		178.71	204.24	229.78	255.30	306.37	357.43	408.49
Kilos por pie ²		16.16	18.47	20.78	23.09	27.70	32.32	36.94

Lámina Recubierta

Somos fabricantes de:

- Acanalado de lámina

Pintada, Galvanizada y Aluminizada
R-72, R-101, RN 100/35 y KR-18,
desde 2.00 m hasta 12.20 m.



- Acanalado de Losacero

En sección 25 y 30



- Teja de Acero

En calibre 26



- Lámina Galvanizada



- Lámina Pintada



Tabla De Pesos Teóricos

Calibre	Esp. Acero Base		Peso		Compresión Superior M+			Compresión Inferior M-			Cortante Adm. Vay (Kg/mto. ancho)	Ancho Efectivo Nominal
	mm	Pulg.	Kg/ml	Kg/m ²	Ixe +	Sxe+	M Axo+	Ixe -	Sxe-	Maxo -		
24	0.607	0.0239	5.8	6.04	51.07	13.01	203	51.07	13.75	214	1397	0.915
22	0.759	0.0299	7.6	8.31	67.48	18.01	281	67.03	18.82	293	2206	0.915
20	0.912	0.0359	9.06	9.9	88.46	23.14	361	83.46	24.08	375	3181	0.915
18	1.214	0.0478	11.96	13.07	111.32	32.76	511	111.32	34.13	532	4213	0.915

Fabricamos medidas especiales

CONCRETO NORMAL. F' C0=2200 KG/CM2. P. VOL. 2400 KG/M3: N=10

Calibre	Esp. De Concreto	Peso Propio	Claro Maximo Sin Apuntalar		
			Simple	Doble	Triple
24 0.0239	cm	Kg/m ²	m	m	m
	5	195	1.77	2.38	2.41
	6	218	1.7	2.29	2.32
	8	264	1.59	2.15	2.17
	10	310	1.5	2.03	2.05
22 0.0299	5	205	2.08	2.68	2.77
	6	229	2.00	2.58	2.66
	8	277	1.86	2.40	2.48
	10	325	1.80	2.26	2.33
	12	373	1.78	2.13	2.20
20 0.0359	5	206	2.42	3.05	3.15
	6	230	2.32	2.93	3.03
	8	278	2.16	2.74	2.83
	10	326	2.09	2.57	2.66
	12	374	2.06	2.44	2.52
18 0.0478	5	209	2.97	3.62	3.74
	6	233	2.85	3.48	3.60
	8	281	2.63	3.25	3.36
	10	329	2.56	3.06	3.16
	12	377	2.51	2.90	3.00

Grado de acero: GR37

Lámina Acanalada

Norma ASTM A653, SS37

Tabla De Pesos Teóricos

Calibre	Espesor		Peso X Metro Lineal		kg / m ²	kg / m ²	kg / m ²	kg / m ²	kg / m ²
	mm	Pulg.	91.5 cm 3' Ancho	122 cm 4' Ancho	3' R-72	4' R-101	3' 0-725	4' Rn 100/35	4' 0-100
10	3.454	0.136	24.78	33.04					
12	2.695	0.1061	19.33	25.77					
14	1.936	0.0762	13.87	18.5					
16	1.557	0.0613	11.16	14.88					
18	1.252	0.0493	8.97	11.96					
20	0.95	0.0374	6.8	9.07	9.44	8.99	9.52	8.78	9.52
22	0.798	0.0314	5.71	7.61	7.93	7.55	7.99	7.37	7.99
24	0.569	0.0224	4.07	5.42	5.65	5.38	5.69	5.25	5.69
26	0.493	0.0194	3.52	4.63	4.89	4.65	4.92	4.55	4.92
28	0.417	0.0164	2.97	3.96	4.13	3.93	4.16	3.84	4.16
30	0.343	0.0135	2.44	3.26	3.39	3.23	3.42	3.16	3.42
32	0.284	0.011	1.89	2.84	2.13		2.99		

Lámina Galvanizada y Pintada

Norma ASTM A653, A924

Tabla De Pesos Teóricos Por Píe Lineal Y Por Hoja En Kilogramos

Calibre	Peso por píe l.		1.83m	2.44m	3.05m	3.66m	2.44m	3.05m
	91.4 cm 3' ancho	121.9 cm 4' ancho	3'x 6'	3'x 8'	3'x 10'	3'x 12'	4'x 8'	4'x 10'
10	7.56	10.07	45.36	60.41	75.51	90.61	--	--
12	5.89	7.86	35.34	47.12	58.89	70.67	62.82	78.53
14	4.23	5.64	25.37	33.82	42.28	50.73	45.1	56.37
16	3.4	4.54	20.4	27.2	34	40.8	36.26	45.33
18	2.74	3.65	16.4	21.86	27.33	32.8	29.15	36.44
20	2.08	2.77	12.43	16.57	20.72	24.86	22.1	27.62
22	1.74	2.32	10.43	13.91	17.38	20.86	18.54	23.18
24	1.24	1.66	7.43	9.9	12.38	14.86	13.21	16.51
26	1.08	1.43	6.43	8.57	10.71	12.86	11.43	14.29
28	0.91	1.21	5.43	7.24	9.05	10.86	9.65	12.06
30	0.75	1	4.46	5.95	7.44	8.92	7.93	9.91

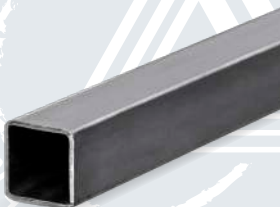
Las tablas están basadas en los espesores nominales del acero considerando un peso específico para el mismo de 7.850 Kg/m³ con capa de Zinc G-90 (0.275 Kg/m²)

Tubulares

Somos fabricantes de:

- Tubería

De alta calidad y precisión.



- Polín Montén

Pintado, Negro y Galvanizado, con perforación o sin ella, largo de acuerdo a su proyecto. Calibres 9 a 16, en calidad comercial y alta resistencia. En formas C, Z, U y Avícola.



- Corte láser de fibra óptica

Espesor: 0.0239" - 0.1793"
Longitud: 5 - 6500 mm.



- Doblez electrónico de alta precisión

Programación visual 3D.



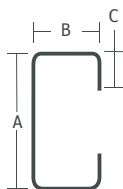
Polín C

Norma C. Comercial ASTM A500 | Norma A. Resistencia ASTM A500 GR C



Tabla De Pesos Teóricos

A x B x C (pulgadas)	Calibre	Espesor (pulgadas)	Inventario	Longitud estándar (metros)	Piezas por paquete	Kilogramos x metro
3 x 1.5 x 0.5	12	0.1046	*	6	48	3.21
3 x 1.5 x 0.5	14	0.0747	Pintado	6	48	2.36
3 x 1.5 x 0.5	16	0.0598	*	6	48	1.93
4 x 2 x 0.75	10	0.1345	*	6	48	5.76
4 x 2 x 0.75	12	0.1046	*	6	48	4.54
4 x 2 x 0.75	14	0.0747	Pintado	6	48	3.30
4 x 2 x 0.75	16	0.0598	*	6	48	2.69
5 x 2 x 0.75	10	0.1345	*	6	48	6.44
5 x 2 x 0.75	12	0.1046	*	6	48	5.07
5 x 2 x 0.75	14	0.0747	Pintado	5	48	3.68
5 x 2 x 0.75	14	0.0747	Pintado	6	48	3.68
5 x 2 x 0.75	16	0.0598	*	6	48	2.99
6 x 2 x 0.75	10	0.1345	*	6	48	7.12
6 x 2 x 0.75	12	0.1046	Pintado	6	48	5.6
6 x 2 x 0.75	14	0.0747	Pintado	6	48	4.07
6 x 2 x 0.75	16	0.0598	*	6	48	3.29
7 x 2.75 x 0.75	10	0.1345	*	7	36	8.83
7 x 2.75 x 0.75	12	0.1046	*	7	36	6.93
7 x 2.75 x 0.75	14	0.0747	Pintado	7	36	5.01
7 x 2.75 x 0.75	16	0.0598	*	7	36	4.05
8 x 2.75 x 0.75	10	0.1345	*	8	36	9.51
8 x 2.75 x 0.75	12	0.1046	Pintado	8	36	7.4
8 x 2.75 x 0.75	14	0.0747	Pintado	8	36	5.58
8 x 2.75 x 0.75	16	0.0598	*	8	36	4.36
10 x 2.75 x 0.75	10	0.1345	*	10	24	10.88
10 x 2.75 x 0.75	12	0.1046	Pintado	10	24	8.5
10 x 2.75 x 0.75	14	0.0747	Pintado	10	24	6.15
10 x 2.75 x 0.75	16	0.0598	*	10	24	4.96
12 x 3.5 x 0.875	10	0.1345	*	12	20	13.45
12 x 3.5 x 0.875	12	0.1046	Pintado	12	20	10.52
12 x 3.5 x 0.875	14	0.0747	Pintado	12	20	7.54
12 x 3.5 x 0.875	16	0.0598	*	12	20	6.11



Nota: Para cejas inferiores de 5/8" solamente se pueden procesar en calibres de 0.06" hasta 0.1"

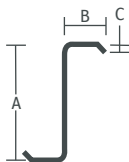
* (Fabricación especial)

P (Pintado café)



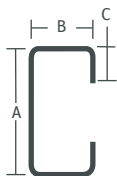
Polín Montén

Norma C. Comercial ASTM A500 | Norma A. Resistencia ASTM A500 GR C



Polín Montén Z

Peralte "A" (pulgada)	Patín "B" (pulgada)	Ceja "C" (pulgada)	Inventario	Espesor
4 - 14	1.5 - 2.5	0.5 - 0.75	*	0.06 - 0.14
6 - 14	2 - 4	0.5 - 0.75	*	
	3 - 4	0.5 - 1.0	*	



Polín Montén C (Medidas Especiales)

Peralte "A" (pulgada)	Patín "B" (pulgada)	Ceja "C" (pulgada)	Inventario	Espesor
3 - 14	1.5	0.5	*	0.06 - 0.1
4 - 14	2 - 2.5	0.5 - 0.75	*	0.06 - 0.14
6 - 14	2 - 4	0.5 - 0.75	*	
	2.75 - 4	0.5 - 0.86	*	
	3 - 4	0.5 - 1.0	*	

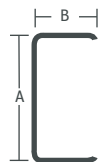


Polín Montén

Norma C. Comercial ASTM A500 | Norma A. Resistencia ASTM A500 GR C

Polín Montén U

Peralte "A" (pulgada)	Patín "B" (pulgada)	Inventario	Espesor
3 - 14	1.5 - 1.5	*	0.06 - 0.14
4 - 14	2 - 4	*	
6 - 14	3 - 4	*	



Polín Montén Avícola

Peralte "A" (pulgada)	Patín "B" (pulgada)	Ceja "D" (pulgada)	Ceja 2 "C" (pulgada)	Inventario	Espesor
3 - 14	1.5	0.5	0.827	*	0.06 - 0.14
4 - 14	2 - 2.5	0.5 - 0.75	0.827	*	
6 - 14	2 - 4	0.5 - 0.75	0.827	*	
	2.75 - 4	0.5 - 0.86	0.827	*	
	3 - 4	0.5 - 1.0	0.827	*	



* (Fabricación especial)
P (Pintado café)

Nota: Para cejas inferiores de 5/8" solamente se pueden procesar en calibres de 0.06" hasta 0.1"



HSS (cuadrado)

Norma ASTM A500 GR B

Dimensiones y Propiedades

Dimensiones Nominales			Peso kg/m	Espesor Real in	b/t	h/t	Área cm ²
H in	B in	Espesor in					
4	4	1/2	32.20	0.465	5.6	5.6	38.84
		3/8	25.71	0.349	8.47	8.47	30.84
		5/16	22.07	0.291	10.80	10.80	26.39
5	5	1/2	42.32	0.465	7.75	7.75	50.84
		3/8	33.2	0.349	11.30	11.30	39.87
		5/16	28.40	0.291	14.20	14.20	33.94
		3/16	18.00	0.176	25.90	25.90	21.10
6	6	5/8	62.96	0.581	7.32	7.32	75.48
		1/2	52.46	0.465	9.90	9.90	62.84
		3/8	40.90	0.349	14.20	14.20	48.84
		5/16	34.74	0.291	17.60	17.60	41.42
		1/4	28.31	0.233	22.80	22.80	33.68
		3/16	21.80	0.214	31.60	31.60	25.50
8	8	5/8	88.30	0.581	10.80	10.80	105.81
		1/2	72.71	0.465	14.20	14.20	87.10
		3/8	56.10	0.349	19.90	19.90	67.10
		5/16	47.39	0.291	24.50	24.50	56.39
		1/4	38.43	0.233	31.40	31.40	45.68
		3/16	29.40	0.174	43.20	43.20	34.50
10	10	5/8	113.62	0.581	14.20	14.20	135.48
		1/2	92.97	0.465	18.50	18.50	110.97
		3/8	71.30	0.349	25.70	25.70	85.16
		5/16	60.06	0.291	31.40	31.40	71.61
		1/4	48.57	0.233	40.00	40.00	57.68
		3/16	37.10	0.174	54.70	54.70	43.40
12	12	5/8	138.94	0.581	17.60	17.60	165.81
		1/2	113.23	0.465	22.80	22.80	134.84
		3/8	86.48	0.349	31.40	31.40	102.58
		5/16	72.73	0.291	38.30	38.30	86.45
		1/4	58.68	0.233	48.60	48.60	69.68
14	14	5/8	164.23	0.581	21.10	21.10	196.00
		1/2	133.50	0.465	27.10	27.10	159.00
		3/8	101.40	0.349	37.00	37.00	121.00
		5/16	85.00	0.291	45.10	45.10	102.00
16	16	1/2	153.70	0.465	31.40	31.40	183.00
		3/8	116.60	0.349	42.70	42.70	139.00
		5/16	97.60	0.291	51.90	51.90	117.00

HSS (cuadrado)

Norma ASTM A500 GR B



I	S	r	Z	Torsión		Área de sup. por ML
				J	C	
cm ⁴	cm ³	cm	cm ³	cm ⁴	cm ³	mt ²
495.32	97.18	3.56	120.61	874.09	183.54	0.37
424.56	83.90	3.71	101.93	728.40	149.61	0.37
379.60	74.73	3.78	89.80	636.83	129.46	0.38
1078.04	170.43	4.60	208.12	1856.39	306.44	0.47
903.22	141.91	4.75	170.43	1505.60	244.17	0.48
790.84	124.54	4.83	148.14	1294.48	209.75	0.48
522.00	82.20	4.97	96.10	7810.00	132.00	0.49
2289.27	299.88	5.51	371.99	3954.64	547.33	0.56
2006.24	263.83	5.64	319.55	3375.64	460.48	0.57
1639.95	214.67	5.79	255.64	2688.86	362.15	0.58
1427.67	186.81	5.87	221.23	2305.92	309.72	0.59
1190.42	156.00	5.94	181.90	1893.85	252.36	0.59
923.00	121.00	6.01	141.0	1456.81	192.00	0.59
6076.98	598.13	7.59	724.31	10156.05	1035.66	0.76
5202.89	509.64	7.72	607.96	8491.12	858.68	0.77
4141.50	408.04	7.87	478.50	6659.7	666.95	0.78
3558.78	350.68	7.95	409.68	5660.75	565.35	0.79
2934.43	288.41	8.03	334.30	4620.17	458.84	0.79
2260.00	222.00	8.09	256.00	3521.32	347.0	0.80
12653.44	996.33	9.65	1191.34	20728.32	1671.48	0.97
10655.52	839.02	9.80	989.78	17148.73	1379.79	0.98
8407.87	660.4	9.96	770.19	13277.78	1061.88	0.98
7159.18	563.72	10.01	653.84	11238.25	896.37	0.99
5868.86	462.12	10.08	532.58	9157.09	725.95	1.00
4480.00	353.00	10.20	405.00	6951.06	548.0	1.00
22809.48	1497.78	11.73	1769.80	36878.10	2474.45	1.17
19021.78	1248.69	11.89	1461.73	30301.65	2015.61	1.18
14859.46	975.03	12.01	1130.71	23350.58	1548.58	1.19
12653.44	829.19	12.09	957.00	19687.75	1304.41	1.19
10322.54	676.79	12.17	776.75	15941.66	1053.69	1.20
374000.00	2100.00	13.80	2480.00	55900.00	3430.00	1.37
30900.00	1740.00	14.00	2030.00	46300.00	2780.00	1.38
24100.00	1360.00	14.10	1570.00	36100.00	2140.00	1.39
20400.00	1150.00	14.20	1320.00	30600.00	1790.00	1.40
46900.00	2310.00	16.00	2680.00	70300.00	3670.00	1.59
36500.00	1790.00	16.20	2070.00	54700.00	2810.00	1.60
30800.00	1510.00	16.20	1740.00	46100.00	2350.00	1.60



HSS (rectangular)

Norma ASTM A500 GR B

Dimensiones y Propiedades

Dimensiones Nominales			peso kg/m	Espesor real in	b/t	h/t	Área cm ²	Propiedades	
H in	B in	Espesor in						I cm ⁴	S cm ³
5	3	1/4	18.30	0.233	9.90	18.50	21.70	445.00	70.10
		3/16	14.10	0.174	14.30	25.90	16.60	354.00	55.70
6	4	1/2	42.27	0.465	5.60	9.90	50.84	1411.02	185.10
		3/8	33.34	0.349	8.47	14.20	39.87	1177.93	154.37
		5/16	28.3	0.277	10.7	17.60	34.00	1030.00	136.00
		1/4	23.22	0.233	14.20	22.80	27.68	865.76	113.73
8	3	3/16	18.0	0.176	20.10	31.60	21.10	679.00	89.10
		1/8	13.5	0.132	22.40	64.70	16.20	818.00	80.50
8	4	1/4	26.00	0.233	9.90	31.40	30.70	1470.00	145.00
		3/16	19.90	0.195	14.30	43.20	23.30	1150.00	113.00
		1/2	52.40	0.465	5.60	14.20	62.84	2984.38	293.33
8	6	3/8	40.93	0.349	8.47	19.90	48.84	2439.12	240.89
		1/4	28.28	0.233	14.20	31.40	33.68	1768.98	173.70
		3/16	21.80	0.214	20.10	43.20	25.50	1370.00	135.00
		1/2	62.52	0.465	9.90	14.20	74.84	4083.23	401.48
8	8	3/8	48.53	0.349	14.20	19.90	57.87	3292.39	324.46
		1/4	33.34	0.233	22.80	31.40	39.68	2351.71	231.06
		3/16	25.60	0.174	31.60	43.20	30.00	1810.00	178.00
10	4	1/4	33.34	0.233	14.20	40.00	39.68	3100.92	244.17
		3/16	25.60	0.251	20.10	54.70	30.00	2390.00	189.00
10	6	1/2	72.79	0.465	9.90	18.50	87.10	7117.56	562.08
		3/8	56.12	0.349	14.20	25.70	67.10	5702.37	447.37
		1/4	38.4	0.233	22.80	40.00	45.68	4024.96	316.27
		3/16	29.40	0.289	31.60	54.70	34.50	3090.00	243.00
10	8	1/2	82.91	0.435	14.20	18.50	98.71	8907.35	699.73
		3/8	63.71	0.349	19.90	25.70	76.13	7034.31	553.88
		1/4	43.46	0.233	31.40	40.00	51.68	4953.15	390.01
12	6	1/2	82.91	0.465	9.90	22.80	98.71	11279.87	740.70
		3/8	63.71	0.349	14.20	31.40	76.13	8948.98	586.66
		1/4	43.46	0.233	22.80	48.60	51.68	6285.09	412.95
12	8	1/2	93.03	0.465	14.20	22.80	110.97	13860.51	909.48
		3/8	71.30	0.349	19.90	31.40	85.16	10905.26	716.11
		1/4	48.53	0.233	31.40	48.60	57.68	7617.04	501.44

HSS (rectangular)

Norma ASTM A500 GR B



Eje X - X		Eje Y - Y				Torsión	Área de sup. Por ML
r	Z	I	S	r	Z	C	
cm	cm ³	cm ⁴	cm ³	cm	cm ³	cm ³	mt ²
4.53	88.00	200.00	52.40	3.03	61.60	100.00	0.39
4.61	68.70	160.00	41.90	3.10	48.30	77.10	0.39
5.26	234.34	736.73	145.19	3.81	175.34	291.69	0.47
5.44	191.73	620.18	122.08	3.94	143.55	232.7	0.48
5.51	169.00	548.00	108.00	4.01	127.00	201.00	0.48
5.59	138.47	462.02	90.78	4.09	104.55	165.51	0.49
5.67	108.00	363.00	71.50	4.15	81.60	126.00	0.49
7.11	102.00	177.00	46.60	3.31	51.10	87.80	0.55
6.93	188.00	311.00	81.60	3.18	93.20	163.00	0.54
7.03	145.00	246.00	64.60	3.25	72.30	125.00	0.54
6.88	378.54	982.31	193.37	3.96	227.78	399.84	0.57
7.06	304.80	815.81	160.27	4.09	185.17	316.27	0.58
7.24	216.31	599.37	117.99	4.22	133.23	222.86	0.59
7.33	167.00	469.00	92.30	4.28	103.00	170.00	0.59
7.39	493.25	2601.45	340.85	5.89	403.12	629.26	0.67
7.54	391.65	2106.13	276.94	6.02	321.19	491.61	0.68
7.70	275.30	1510.92	198.28	6.17	226.14	340.85	0.69
7.77	211.00	1170.00	153.00	6.24	174.00	259.00	0.70
8.84	309.72	736.73	145.03	4.32	161.90	280.22	0.69
8.93	238.00	574.00	113.00	4.37	125.00	213.00	0.70
9.07	699.73	3192.50	419.51	6.07	488.33	798.05	0.77
9.22	550.61	2568.15	337.57	6.20	385.10	621.07	0.78
9.37	383.46	1831.42	240.89	6.32	270.39	427.70	0.79
9.47	293.00	1410.00	185.00	6.40	207.00	325.00	0.80
9.47	843.93	6285.09	617.79	7.98	722.67	1088.10	0.87
9.63	660.4	4994.78	491.61	8.10	566.99	840.66	0.88
9.78	458.84	3521.32	345.77	8.26	393.29	576.82	0.89
10.69	934.06	3787.71	496.53	6.2	571.91	966.84	0.87
10.87	730.86	3034.33	398.21	6.32	450.64	750.53	0.88
11.02	508.00	2156.08	283.5	6.45	314.64	516.19	0.89
11.18	1111.04	7367.30	727.59	8.15	839.02	1317.52	0.98
11.35	865.24	5827.24	575.19	8.31	653.84	1016.00	0.98
11.51	598.13	4104.04	403.12	8.43	453.92	696.45	1.00



PTR Cuadrado

Norma A500

Tabla De Pesos Teóricos

Dimensiones del perfil	Espesor (in)	Calibre	Kg/m
1" X 1"	0.0747	C-14	1.480
	0.0897	C-13*	1.754
	0.1046	C-12	2.040
	0.1196	C-11*	2.320
1 1/4" X 1 1/4"	0.0747	C-14	1.851
	0.0897	C-13*	2.205
	0.1046	C-12	2.555
	0.1196	C-11*	2.903
1 1/2" X 1 1/2"	0.0747	C-14	2.221
	0.0897	C-13*	2.264
	0.1046	C-12	3.055
	0.1196	C-11	3.517
2" X 2"	0.0747	C-14	2.971
	0.0897	C-13*	3.553
	0.1046	C-12	4.133
	0.1196	C-11	4.701
	0.1250	1/8*	4.863
	0.1345	C-10*	5.215
	0.1495	C-9	5.771
	0.1793	C-7*	6.848
	0.1875	3/16*	7.132
	0.2500	1/4	9.294
2 1/2" X 2 1/2"	0.0747	C-14	3.718
	0.0897	C-13*	4.428
	0.1046	C-12*	5.153
	0.1196	C-11	5.877
	0.1250	1/8*	6.133
	0.1345	C-10*	6.592
	0.1495	C-9	7.236
	0.1793	C-7	8.596
	0.1875	3/16*	8.97
	0.2500	1/4*	11.745
3" X 3"	0.0747	C-14	4.446
	0.1046	C-12*	6.175
	0.1196	C-11	7.040
	0.1250	1/8*	7.345
	0.1345	C-10*	7.883
	0.1495	C-9	8.732
	0.1793	C-7	10.408
	0.1875	3/16*	10.408
	0.2500	1/4*	14.284

Tabla De Pesos Teóricos

Dimensiones del perfil	Espesor (in)	Calibre	Kg/m
3 1/2" X 3 1/2"	0.0747	C-14	5.156
	0.0897	C-13*	6.167
	0.1046	C-12*	7.182
	0.1196	C-11	8.188
	0.1250	1/8*	8.548
	0.1345	C-10*	9.153
	0.1495	C-9	10.144
	0.1793	C-7	12.093
	0.1875	3/16*	12.627
	0.2500	1/4*	16.671
4" X 4"	0.2800	*	18.558
	0.0747	C-14	5.945
	0.0897	C-13*	7.116
	0.1046	C-12*	8.277
	0.1196	C-11	9.415
	0.1250	1/8*	9.859
	0.1345	C-10*	10.588
	0.1495	C-9	11.738
	0.1793	C-7	14.014
	0.1875	3/16*	14.627
4 1/2" X 4 1/2"	0.2500	1/4	19.287
	0.2800	*	21.487
	0.1046	C-12*	9.467
	0.1196	C-11*	10.800
	0.1250	1/8*	11.275
	0.1345	C-10*	12.118
	0.1495	C-9*	13.439
	0.1793	C-7*	16.054
	0.1875	3/16*	16.760
	0.2500	1/4*	22.118
5" X 5"	0.2800	*	24.672
	0.1196	C-11*	11.942
	0.1250	1/8*	12.462
	0.1345	C-10*	13.395
	0.1495	C-9*	14.859
	0.1793	C-7*	17.748
	0.1875	3/16	18.531
	0.2500	1/4	24.493
0.2800	*	27.317	



PTR Rectangular

Norma A500

Tabla De Pesos Teóricos			
Dimensiones del perfil	Espesor (in)	Calibre	Kg/m
1 1/2" X 1/2"	0.0747	C-14*	1.480
	0.0897	C-13*	1.754
	0.1046	C-12*	2.040
	0.1196	C-11*	2.320
1 1/2" X 1"	0.0747	C-14*	1.851
	0.0897	C-13*	2.205
	0.1046	C-12*	2.555
	0.1196	C-11*	2.903
1 3/4" X 3/4"	0.0747	C-14*	1.851
	0.0897	C-13*	2.205
	0.1046	C-12*	2.555
	0.1196	C-11*	2.903
2" X 1"	0.0747	C-14	2.221
	0.0897	C-13*	2.264
	0.1046	C-12*	3.055
	0.1196	C-11	3.517
2 1/4" X 3/4"	0.0747	C-14*	2.221
	0.0897	C-13*	2.264
	0.1046	C-12*	3.055
	0.1196	C-11*	3.517
2 1/2" X 1 1/4"	0.0747	C-14*	2.785
	0.1046	C-12*	3.931
	0.1196	C-11*	4.483
	2 1/2" X 1 1/2"	0.0747	C-14
0.0897		C-13*	3.553
0.1046		C-12*	4.133
0.1196		C-11*	4.701
0.1250		1/8*	4.863
0.1345		C-10*	5.215
0.1495		C-9*	5.771
0.1793		C-7*	6.848
0.1875		3/16*	7.132
0.2500		1/4*	9.294
2 3/4" X 1"	0.0747	C-14*	2.785
	0.1046	C-12*	3.931
	0.1196	C-11*	4.483
	3" X 1"	0.0747	C-14*
0.0897		C-13*	3.553
0.1046		C-12*	4.133
0.1196		C-11*	4.701
0.1250		1/8*	4.863
0.1345		C-10*	5.215
0.1495		C-9*	5.771
0.1793		C-7*	6.848
0.1875		3/16*	7.132
0.2500		1/4*	9.294

Tabla De Pesos Teóricos			
Dimensiones del perfil	Espesor (in)	Calibre	Kg/m
3" X 2"	0.0747	C-14	3.718
	0.0897	C-13*	4.428
	0.1046	C-12*	5.153
	0.1196	C-11	5.877
	0.1250	1/8*	6.133
	0.1345	C-10	6.592
	0.1495	C-9*	7.236
	0.1793	C-7	8.596
	0.1875	3/16*	8.97
	0.2500	1/4*	11.745
4" X 2"	0.0747	C-14	4.446
	0.1046	C-12*	6.175
	0.1196	C-11	7.040
	0.1250	1/8*	7.345
	0.1345	C-10*	7.883
	0.1495	C-9	8.732
	0.1793	C-7	10.408
	0.1875	3/16*	10.408
	0.25	1/4*	14.284
	0.0747	C-14	5.156
4" X 3"	0.0897	C-13*	6.167
	0.1046	C-12*	7.182
	0.1196	C-11	8.188
	0.1250	1/8*	8.548
	0.1345	C-10*	9.153
	0.1495	C-9	10.144
	0.1793	C-7	12.093
	0.1875	3/16*	12.627
	0.2500	1/4*	16.671
	0.2800	*	18.558
5" X 2"	0.0747	C-14*	5.156
	0.0897	C-13*	6.177
	0.1046	C-12*	7.182
	0.1196	C-11*	8.188
	0.125	1/8*	8.545
	0.1345	C-10*	9.153
	0.1495	C-9*	10.144
	0.1793	C-7*	12.093
	0.1875	3/16*	12.627
	0.25	1/4*	16.671
0.28	*	18.558	

Tabla De Pesos Teóricos			
Dimensiones del perfil	Espesor (in)	Calibre	Kg/m
5" X 3"	0.0747	C-14*	5.945
	0.0897	C-13*	7.116
	0.1046	C-12*	8.277
	0.1196	C-11*	9.415
	0.1250	1/8*	9.859
	0.1345	C-10*	10.588
	0.1495	C-9*	11.738
	0.1793	C-7*	14.014
	0.1875	3/16*	14.627
	0.2500	1/4*	19.287
6" X 2"	0.2800	*	21.487
	0.0747	C-14	5.945
	0.0897	C-13*	7.116
	0.1046	C-12*	8.277
	0.1196	C-11*	9.415
	0.1250	1/8*	9.859
	0.1345	C-10*	10.588
	0.1495	C-9*	11.738
	0.1793	C-7*	14.014
	0.1875	3/16*	14.627
6" X 3"	0.2500	1/4*	19.287
	0.2800	*	21.487
	0.1046	C-12*	9.467
	0.1196	C-11*	10.800
	0.1250	1/8*	11.275
	0.1345	C-10*	12.118
	0.1495	C-9*	13.439
	0.1793	C-7*	16.054
	0.1875	3/16*	16.760
	0.2500	1/4*	22.118
6" X 4"	0.2800	*	24.672
	0.1196	C-11*	11.942
	0.1250	1/8*	12.462
	0.1345	C-10*	13.395
	0.1495	C-9*	14.859
	0.1793	C-7*	17.748
	0.1875	3/16	18.531
	0.2500	1/4	24.493
	0.2800	*	27.317
	8" X 3"	0.1196	C-11*
0.1250		1/8	13.465
0.1345		C-10*	14.413
0.1495		C-9*	15.990
0.1793		C-7*	19.105
0.1875		3/16*	19.950
0.2500		1/4*	26.435

Nota: Consulte productos especiales a mínimos de fabricación con su representante de ventas

* Medidas a fabricación especial



Tubería Mecánica

Norma ASTM A513

Tabla De Pesos Teóricos

Medida	Ced. No.	Diámetro Nominal pulg	Diámetro Exterior pulg	Espesor pulg	Peso Teórico peso por pieza
1/2	30	1/2	0.875 / 0.84	0.074	5.7
	40			0.104	8.58
3/4	30	3/4	1.05	0.074	7.66
	40			0.104	10.34
1	30	1	1.315	0.074	9.62
	40			0.135	16.192
1 1/4	30	1 1/4	1.66	0.089	13.44
	40			0.135	20.86
1 1/2	30	1 1/2	1.875	0.089	16.33
	40		1.90	0.135	24.64
2	30	2	2.375	0.104	24.46
	40			0.149	33.85
2 1/2	30	2 1/2	2.875	0.104	28.92
	40			0.2030	54.6
3	30	3	3.5	0.12	40.32
	40			0.216/0.2242	71.518
4	30	4	4.5	0.12	52.038
	40			0.2242	95.062
6	30	6	6.625	0.187	119.34
	40			0.28	176.04

Nota: Los pesos teóricos pueden ser variables de acuerdo al largo de la tubería desde 6 m hasta 6.40 m

Tubería Industrial

Norma ASTM A513



Tabla De Pesos Teóricos

Diámetro Exterior		Calibre	kg por metro	kg por pieza
Pulg.	mm			
5/8	15.9	16	0.6	3.6
		18	0.5	3.0
		20	0.4	2.4
3/4	19	16	0.7	4.2
		18	0.6	3.6
		20	0.4	2.4
7/8	22.7	16	0.9	5.4
		18	0.7	4.2
		20	0.5	3.0
1	25.4	14	1.2	7.2
		16	1.0	5.7
		18	0.8	4.8
		20	0.6	3.6
1 1/4	31.8	14	1.5	9.0
		16	1.2	7.2
		18	1.0	6.0
		20	0.7	4.4
1 1/2	38.1	14	1.8	10.8
		16	1.5	9.0
		18	1.2	7.2
		20	0.9	5.4
1 3/4	44.5	14	2.1	12.6
		16	1.7	10.2
		18	1.4	8.4
		20	1.0	6.0
2	50.8	14	2.4	14.4
		16	1.9	11.6
		18	1.6	9.6
		20	1.2	7.2
2 1/2	63.5	14	3.1	18.6
		16	2.4	14.4
		18	1.9	11.6
		20	1.5	8.8
3	76.2	14	3.7	22.2
		16	2.9	17.4
		18	2.3	13.8
4	101	16	3.8	22.5



Tubería Negra Estructural

Norma A500 – B / ASTM A53 – B / API 5L

Tabla De Pesos Teóricos

Diámetro Nominal		Diámetro Exterior		Espesor		
Pulg.	mm	Pulg.	mm	Fracc. Pulgada	Pulg.	mm
8	203	8.625	219.1	1/4	0.250	6.40
				19/59	0.322	8.20
10	254	10.750	273.1	1/4	0.250	6.40
				11/32	0.344	8.70
				23/63	0.365	9.30
				1/2	0.500	12.70
12	304	12.75	323.9	1/4	0.250	6.40
				1/3	0.330	8.40
				3/8	0.375	9.50
				1/2	0.500	12.70
14	355	14	355.6	1/4	0.250	6.40
				3/8	0.375	9.50
				4/9	0.438	11.13
				1/2	0.500	12.70
16	400	16	406.4	1/4	0.250	6.40
				5/16	0.312	7.92
				3/8	0.375	9.50
				1/2	0.500	12.70
18	450	18	457	1/4	0.250	6.40
				5 1/6	0.312	7.92
				3/8	0.375	9.50
				1/2	0.500	12.70

Tubería Negra Estructural

Norma A500 – B / ASTM A53 – B / API 5L



Ced. No.	Peso Nominal Extremo Liso		Presiones Prueba Hidrostática			
			Astm A-53 Ga		Astm A-53 Gb	
	lb/pie	kg/m	lb/in ²	kg/cm ²	lb/in ²	kg/cm ²
20	22.36	33.57	1040	73	1120	84
40	28.55	42.65	1340	92	1570	108
20	28.04	42.09	840	58	980	68
--	38.23	56.72	1150	79	1340	92
40	40.52	60.29	1220	84	1430	99
60	54.79	81.52	1670	115	1950	134
20	33.38	50.11	710	49	820	57
30	43.77	65.35	930	64	1090	75
--	49.61	73.78	1060	73	1240	85
--	65.48	97.43	1410	97	1650	114
10	36.71	55.11	640	45	750	52
30	54.62	81.25	960	66	1120	77
40	63.85	94.55	1130	78	1310	90
--	72.16	107.39	1290	89	1500	103
10	42.09	62.64	560	39	660	45
20	52.56	77.83	700	48	820	56
30	62.64	93.17	840	58	980	68
40	82.85	123.30	1120	77	1310	90
10	47.44	70.6	500	34	580	40
20	59.26	87.75	620	43	730	50
--	70.98	105.1	750	52	880	60
--	93.54	139.2	1000	69	1170	81



Perfil Tubular (cuadrado)

Norma C. Comercial

32 mm.



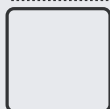
c-125

38 mm.



c-150

50 mm.



c-200

13 mm

c-050

19 mm

c-075

25 mm



c-100



Perfil Tubular (rectangular)

Norma C. Comercial

38 mm.



R-300

75 mm.

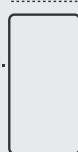
38 mm.



R-400

100 mm.

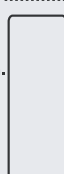
25 mm.



R-200

50 mm.

20 mm.



R-225

58 mm.

32 mm.



R-249

64 mm.

13 mm.



R-100

25 mm.

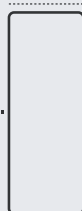
20 mm.



R-125

32 mm.

20 mm.



R-175

45 mm.

Perfil Tubular

Norma C. Comercial



Cuadrado

no.	calibre	kg x m	kg x pza
C-150	16	1.81	10.86
	18	1.46	8.76
	20	1.10	6.60
C-125	18	1.21	7.26
	20	0.91	5.46
C-100	16	1.20	7.20
	18	0.95	5.70
	20	0.72	4.32
C-075	18	0.70	4.20
	20	0.54	3.24
C-050	18	0.47	2.82
	20	0.35	2.10
C-200	16	2.00	14.43
	18	1.94	11.64

Rectangular

no.	calibre	kg x m	kg x pza
R-225	18	1.46	8.76
	20	1.10	6.60
R-175	18	1.21	7.26
	20	0.91	5.46
R-125	18	0.95	5.70
	20	0.72	4.32
R-100	18	0.70	4.20
R-200	18	1.46	8.76
	20	1.10	6.60
R-249	18	1.83	10.98
	20	1.38	8.28
R-400	18	2.65	15.9
	20	1.99	11.94
R-300	18	2.16	12.96
	20	1.62	9.72



• IPR

Perfiles Estructurales

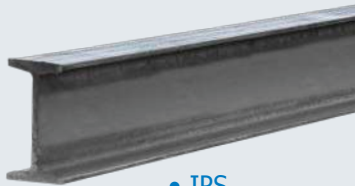
Serviacero Comercial ofrece una amplia gama de medidas y disponibilidad en Perfiles Estructurales, para diferentes aplicaciones.

Usos:

Naves, edificios, estructuras, torres, soportes y tanques, etc.



• Canal U



• IPS



IPR

Norma ASTM A36, A572 GR50, A992

Tabla De Pesos Teóricos

Medida	Peso		Área	Peralte	Patín		Alma
	lb/ft	kg/m	A in 2	D in	B in	Tf in	Tw in
W6 (6 X 4)	8.5	12.6	2.52	5.83	3.94	0.18	0.17
	9	13.39	2.68	5.90	3.94	0.215	0.170
	12	17.86	3.55	6.03	4.00	0.280	0.230
	16	23.81	4.74	6.28	4.03	0.405	0.260
W6 (6 X 6)	15	22.35	4.43	5.99	5.99	0.260	0.230
	20	29.80	5.87	6.20	6.02	0.370	0.260
	25	37.20	7.34	6.38	6.08	0.460	0.320
W8 (8X4)	10	14.88	2.96	7.89	3.94	0.205	0.170
	13	19.34	3.84	7.99	4.00	0.255	0.230
	15	22.32	4.44	8.11	4.02	0.315	0.245
W8 (8X5 1/4)	18	26.78	5.26	8.14	5.25	0.330	0.230
	21	31.25	6.16	8.28	5.27	0.400	0.250
W8 (8X6 1/2)	24	35.72	7.08	7.93	6.50	0.400	0.250
W8 (8 X 8)	31	46.19	9.13	8.00	7.99	0.435	0.285
	35	52.20	10.30	8.12	8.02	0.495	0.310
	40	59.58	11.70	8.25	8.07	0.560	0.360
	*48	71.40	14.10	8.50	8.11	0.690	0.400
	*58	86.30	17.10	8.75	8.22	0.810	0.510
	*67	99.79	19.70	9.02	8.28	0.935	0.570
W10 (10X4)	12	17.86	3.54	9.87	3.96	0.210	0.190
	15	22.32	4.41	9.99	4.00	0.270	0.230
	17	25.30	4.99	10.11	4.01	0.330	0.240
	19	28.27	5.62	10.24	4.02	0.395	0.250
W10 (10X5 3/4)	22	32.74	6.49	10.17	5.75	0.360	0.240
	26	38.69	7.61	10.33	5.77	0.440	0.260
	30	44.64	8.84	10.47	5.81	0.510	0.300
W10 (10X8)	33	49.10	9.71	9.73	7.96	0.435	0.290
	39	58.10	11.50	9.92	7.99	0.530	0.315
	45	67.02	13.30	10.10	8.02	0.620	0.350
W10 (10X10)	49	73.00	14.40	9.98	10.00	0.560	0.340
	54	80.50	15.80	10.09	10.03	0.615	0.370
	60	89.30	17.60	10.22	10.08	0.680	0.420
W12 (12X4)	14	20.83	4.16	11.91	3.97	0.225	0.200
	16	23.81	4.71	11.99	3.99	0.265	0.220
	19	28.27	5.57	12.16	4.01	0.350	0.235
	22	32.74	6.48	12.31	4.03	0.425	0.260
W12 (12X6 1/2)	26	38.73	7.65	12.22	6.49	0.380	0.230
	30	44.64	8.79	12.34	6.52	0.440	0.260
	35	52.08	10.30	12.50	6.56	0.520	0.300
W12 (12X8)	40	59.52	11.80	11.94	8.01	0.515	0.295
	45	66.96	13.20	12.06	8.05	0.575	0.335
	50	74.40	14.70	12.19	8.08	0.640	0.370
W12 (12X10)	53	79.00	15.60	12.06	10.00	0.575	0.345
	58	86.39	17.00	12.19	10.01	0.640	0.360
W12 (12X12)	65	96.85	19.10	12.12	12.00	0.605	0.390
	72	107.00	21.10	12.25	12.04	0.670	0.430
	79	118.00	23.20	12.38	12.08	0.740	0.470
	87	129.00	25.60	12.53	12.13	0.810	0.520
	*96	143.00	28.20	12.71	12.16	0.900	0.550

* Medidas nuevas



IPR

Norma ASTM A36, A572 GR50, A992

Tabla de pesos teóricos

Medida	Peso		Área	Peralte	Patín		Alma
	lb/ft	kg/m	A in 2	D in	B in	Tf in	Tw in
W14 (14X5)	22	32.76	6.49	13.74	5.00	0.340	0.230
	26	38.72	7.69	13.91	5.03	0.420	0.260
W14(14X6 3/4)	30	44.64	8.85	13.84	6.73	0.385	0.270
	34	50.59	10.00	13.98	6.75	0.455	0.285
	38	56.54	11.20	14.10	6.77	0.515	0.310
W14 (14X8)	43	63.98	12.60	13.66	8.00	0.530	0.305
	48	71.42	14.10	13.79	8.03	0.595	0.340
	53	78.68	15.60	13.92	8.06	0.660	0.370
W14 (14X10)	61	90.80	17.90	13.89	10.00	0.650	0.380
	68	101.00	20.00	14.04	10.04	0.720	0.420
	74	110.22	21.80	14.17	10.07	0.785	0.450
	82	122.00	24.10	14.31	10.13	0.860	0.510
W14 (14X14 1/2)	90	133.90	26.50	14.02	14.52	0.710	0.440
	*99	148.00	29.10	14.16	14.57	0.780	0.485
	*109	162.20	32.00	14.32	14.61	0.860	0.530
	*120	178.60	35.30	14.48	14.67	0.940	0.590
	*132	196.40	38.80	14.66	14.73	1.030	0.650
W16 (16X5 1/2)	26	38.70	7.68	15.69	5.50	0.350	0.250
	31	46.14	9.12	15.88	5.53	0.440	0.280
W16 (16X7)	36	53.57	10.60	15.86	6.99	0.430	0.295
	40	59.52	11.80	16.01	7.00	0.505	0.305
	45	67.02	13.30	16.13	7.04	0.565	0.345
	50	74.40	14.70	16.26	7.07	0.630	0.380
	57	84.82	16.80	16.43	7.12	0.715	0.430
W16 (16X10 1/4)	67	99.73	19.70	16.33	10.24	0.670	0.400
	77	114.69	22.60	16.52	10.30	0.760	0.455
	89	132.56	26.20	16.75	10.37	0.875	0.525
W18 (18X6)	35	52.10	10.30	17.70	6.00	0.430	0.300
	40	59.54	11.80	17.90	6.02	0.530	0.320
	46	68.08	13.50	18.06	6.06	0.610	0.360
W18 (18 X 7 1/2)	50	74.40	14.70	17.99	7.50	0.570	0.355
	55	81.84	16.20	18.11	7.53	0.630	0.390
	60	89.28	17.60	18.24	7.56	0.695	0.415
	65	96.72	19.10	18.35	7.59	0.750	0.450
	71	105.65	20.80	18.47	7.64	0.810	0.495
W18 (18X11)	76	113.20	22.30	18.21	11.04	0.680	0.425
	86	128.09	25.30	18.39	11.09	0.770	0.480
	97	144.48	28.50	18.59	11.15	0.870	0.535
	106	157.88	31.10	18.73	11.20	0.940	0.590
	119	177.25	35.10	18.97	11.27	1.060	0.655
	*130	193.00	38.20	19.25	11.16	1.200	0.670
	143	213.00	42.10	19.49	11.22	1.320	0.730
W21 (21X6 1/2)	44	65.50	13.00	20.66	6.50	0.450	0.350
	50	74.40	14.70	20.83	6.53	0.540	0.380
	57	84.90	16.70	21.06	6.56	0.650	0.405



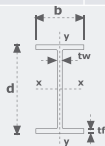
IPR

Norma ASTM A36, A572 GR50, A992

Tabla de pesos teóricos

Medida	Peso		Área	Peralte	Patín		Alma
	lb/ft	kg/m	A in ²	D in	B in	Tf in	Tw in
W21 (21X8 1/4)	62	92.70	18.30	20.99	8.24	0.620	0.400
	68	101.30	20.00	21.13	8.27	0.690	0.430
	73	108.73	21.50	21.24	8.30	0.740	0.455
	83	123.62	24.30	21.43	8.36	0.835	0.515
	93	138.00	27.30	21.62	8.42	0.930	0.580
W21 (21X12 1/4)	*101	150.44	29.80	21.36	12.29	0.800	0.500
	*111	165.33	32.70	21.51	12.34	0.875	0.550
	*122	182.00	35.90	21.68	12.44	0.960	0.600
	132	196.00	38.80	21.83	12.44	1.040	0.650
	147	218.96	43.20	22.06	12.51	1.150	0.720
W24 (24X7)	55	81.93	16.20	23.57	7.01	0.505	0.395
	62	92.00	18.20	23.74	7.04	0.590	0.430
W24 (24X9)	68	101.20	20.10	23.73	8.97	0.590	0.420
	76	113.40	22.40	23.92	8.99	0.680	0.440
	84	125.12	24.70	24.10	9.02	0.770	0.470
	94	139.92	27.70	24.31	9.07	0.880	0.520
W24 (24X12 3/4)	103	153.00	30.30	24.53	9.00	0.980	0.550
	104	154.90	30.60	24.06	12.75	0.750	0.500
	*117	174.00	35.09	24.25	12.80	0.850	0.550
	*131	195.12	38.50	24.48	12.86	0.960	0.605
	*146	217.46	43.00	24.74	12.90	1.090	0.650
W27 (27X10)	*162	241.29	47.70	25.00	12.96	1.220	0.705
	84	125.60	24.80	26.71	9.96	0.640	0.460
	94	140.01	27.70	26.92	9.99	0.745	0.490
	*90	133	26.40	29.53	10.40	0.610	0.470
W30 (30X10 1/2)	*99	147	29.10	29.65	10.45	0.670	0.520
	*108	161	31.70	29.83	10.47	0.760	0.545
	*116	173	34.20	30.01	10.50	0.850	0.565
	132	196	38.90	30.31	10.55	1.000	0.615
	148	220	43.50	30.67	10.48	1.180	0.650
W33 (33X11 1/2)	118	175.7	34.70	32.86	11.48	0.740	0.550
	130	193.64	38.30	33.09	11.51	0.855	0.580
	141	210.02	41.60	33.30	11.54	0.960	0.605
	152	226.40	44.70	33.49	11.57	1.055	0.635
W33 (33X16)	241	358.97	70.90	34.18	15.86	1.400	0.830
W36 (36X12)	135	201.08	39.70	35.55	11.95	0.790	0.600
	150	223.43	44.20	35.85	11.98	0.940	0.625
	170	253.22	50.00	36.17	12.03	1.100	0.680
	194	289.00	57.00	36.49	12.11	1.260	0.765
	232	345.00	68.10	37.12	12.12	1.570	0.870

* Medidas nuevas



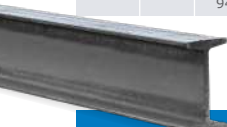
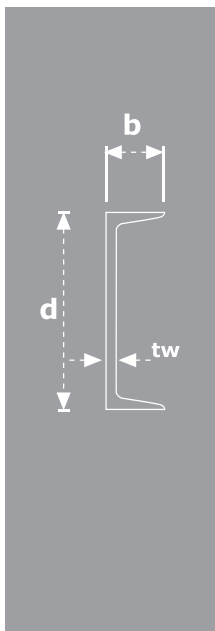


Canal U

Norma ASTM A36, A572 GR50

Tabla De Pesos Teóricos

Peralte (d)		Patín (b)		Alma (tw)		Peso	
mm	Pulgadas	mm	Pulgadas	mm	Pulgadas	kg/m	lb/pie
76.2	3	34.8	1.37	3.35	0.13	5.21	3.50
		35.8	1.40	4.32	0.17	6.10	4.10
101.6	4	40.2	1.58	3.17	0.12	6.70	4.50
		40.2	1.58	4.67	0.18	8.04	5.40
152.4	6	48.7	1.91	5.1	0.2	12.20	8.20
		51.6	2.03	8	0.31	15.62	10.50
		54.9	2.16	11	0.43	19.34	13.00
203.2	8	57.4	2.25	5.6	0.22	17.11	11.50
		59.5	2.34	8	0.31	20.46	13.75
		64	2.51	12.4	0.48	27.93	18.75
254.0	10	66	2.59	6.1	0.24	22.80	15.30
		69.5	2.73	9.62	0.37	29.80	20.00
		73.3	2.88	13.36	0.52	37.20	25.00
		77	3.03	17.09	0.67	44.70	30.00
304.8	12	74.72	2.94	7.16	0.28	30.80	20.70
		77.39	3.04	9.83	0.38	37.20	25.00
		80.51	3.16	12.95	0.50	44.64	30.00
381	15	86.0	3.38	10.2	0.40	50.30	33.90
		89.0	3.50	13.2	0.51	59.10	40.00
		94.0	3.70	18.2	0.71	74.41	50.00

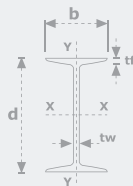


IPS

Norma ASTM A36

Tabla De Pesos Teóricos

Medida	Peralte (d)		Patín (b)		Espesor (tf)		Alma (tw)		Peso Teórico	
	in	mm	in	mm	in	mm	in	mm	kg/m	lb/ft
4	4.000	101.600	2.663	67.6402	0.293	7.4422	0.193	4.9022	11.459	7.700
5	5.000	127.000	3.004	76.3016	0.326	8.2804	0.214	5.4356	14.882	10.000
6	6.000	152.400	3.332	84.6328	0.359	9.1186	0.232	5.8928	18.602	12.500



Perfiles Comerciales

Usos:

Estructuras, torres de electrificación, maquinaria, herrería, implementos agrícolas, estructuras, anclas, parrillas, herrajes, barandales, piezas roscadas, adornos, etc.



• Ángulo



• Solera



• Cuadrado



• Redondo



Ángulo

Norma ASTM A36, A572 GR50, A529 GR50, A709

Tabla De Pesos Teóricos

Medidas				
Pulgadas		Milímetros		kg / m
1/8	x 3/4	3.2	x 19.1	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	4.8	x 25.4	1.73
	x 1 1/4		x 31.7	2.2
	x 1 1/2		x 38.1	2.68
	x 2		x 50.8	3.63
	x 2 1/2		x 63.5	4.60
	x 3		x 76.2	5.97
1/4	x 1	6.3	x 25.4	2.20
	x 1 1/4		x 31.7	2.86
	x 1 1/2		x 38.1	3.49
	x 2		x 50.8	4.75
	x 2 1/2		x 63.5	6.10
	x 3		x 76.2	7.29
	x 3 1/2		x 88.9	8.63
	x 4		x 101.6	9.90
5/16	x4x3	7.9	x 101.6 x 76.3	8.63
	x 2		x 50.8	5.84
	x 2 1/2		x 63.5	7.44
	x 3		x 76.2	9.08
	x 3 1/2		x 88.9	10.71
3/8	x 4	9.5	x 101.6	12.2
	x 2		x 50.8	6.99
	x 2 1/2		x 63.5	8.78
	x 3		x 76.2	10.72
	x 4		x 101.6	14.58
	x 5		x 127.0	18.30
	x 6		x 152.4	22.17
	x 4 x 3		x 101.6 x 76.3	12.65
1/2	x 4 x 6	12.7	x 101.6 x 152.4	18.30
	x 1 1/2		x 38.1	3.798
	x 2		x 50.8	5.064
	x 2 1/2		x 63.5	11.831
	x 3		x 76.2	13.9
	x 4		x 101.6	19.05
	x 5		x 127.0	24.11
	x 6		x 152.4	29.17
	x 4 x 3		x 101.6 x 76.3	16.52
	x 4 x 6		x 101.6 x 152.4	24.11
	5/8		x 4	15.9
x 6		x 152.4	36.01	
x 4 x 3		x 101.6 x 76.3	20.24	
x 4 x 6		x 101.6 x 152.4	29.76	
3/4	x 4	19	x 101.6	27.53
	x 6		x 152.4	42.71
	x 4 x 3		x 101.6 x 76.3	23.81
	x 4 x 6		x 101.6 x 152.4	35.12
1	x 6	25.4	x 152.4	55.66
	x 6 x 4		x 152.4 x 101.6	45.54

Manejamos existencias en Grado 50

Solera

Norma ASTM A36, A709 y C. Comercial



Tabla De Pesos Teóricos

Pulgadas		Medidas		Kg / m
		Milímetros		
1/8*	x 1/2	3.2	x 12.7	0.317
	x 3/4		x 19.1	0.474
	x 1		x 25.4	0.633
	x 1 1/4		x 31.7	0.791
	x 1 1/2		x 38.1	0.95
3/16*	x 2	4.8	x 50.8	1.26
	x 1/2		x 12.7	0.474
	x 3/4		x 19.1	0.712
	x 1		x 25.4	0.95
	x 1 1/4		x 31.7	1.187
	x 1 1/2		x 38.1	1.424
1/4	x 2	6.3	x 50.8	1.899
	x 2 1/2		x 63.5	2.373
	x 1/2		x 12.7	0.633
	x 3/4		x 19.1	0.95
	x 1		x 25.4	1.266
	x 1 1/4		x 31.7	1.583
	x 1 1/2		x 38.1	1.899
	x 2		x 50.8	2.532
	x 2 1/2		x 63.5	3.165
	x 3		x 76.2	3.796
	x 4		x 101.6	5.064
	x 5		x 127.0	6.33
	x 6		x 152.4	7.592
x 8	x 203.2	10.12		
5/16	x 1 1/4	7.9	x 31.7	1.973
	x 1 1/2		x 38.1	2.37
	x 2		x 50.8	3.17
	x 2 1/2		x 63.5	3.96
	x 3		x 76.2	4.75
	x 4		x 101.6	6.32
3/8	x 6	9.5	x 152.4	9.5
	x 8		x 203.2	15.194
	x 1		x 25.4	1.899
	x 1 1/4		x 31.7	2.376
	x 1 1/2		x 38.1	2.849
	x 2		x 50.8	3.798
	x 2 1/2		x 63.5	4.748
	x 3		x 76.2	5.698
	x 4		x 101.6	7.597
1/2	x 6	12.7	x 152.4	11.396
	x 8		x 203.2	15.194
	x 1 1/2		x 38.1	3.798
	x 2		x 50.8	5.064
	x 2 1/2		x 63.5	6.331
	x 3		x 76.2	7.597
	x 4		x 101.6	10.129
	x 5		x 127.0	12.660
	x 6		x 152.4	15.194
	x 8		x 203.2	20.258
5/8	x 10	15.9	x 254.0	25.32
	x 1 1/2		x 38.1	4.748
	x 2		x 50.8	6.331
	x 2 1/2		x 63.5	7.913
	x 3		x 76.2	9.496
	x 4		x 101.6	12.661
	x 5		x 127.0	15.830
	x 6		x 152.4	18.992
3/4	x 8	19.1	x 203.2	25.322
	x 2		x 50.8	7.597
	x 2 1/2		x 63.5	9.496
	x 3		x 76.2	11.395
	x 4		x 101.6	15.194
	x 5		x 127.0	18.990
1'	x 6	25.4	x 152.4	22.790
	x 8		x 203.2	30.388
	x 2		x 50.8	10.129
	x 3		x 76.2	15.194
	x 4		x 101.6	20.258
	x 6		x 152.4	30.388
	x 8		x 203.2	40.516

* Solera Slitter



Redondo

Norma ASTM A36 y C. Comercial

Tabla De Pesos Teóricos

Fracción	Medidas		kg / m
	Milímetros	Pulgadas	
3/16	4.7	0.187	0.14
1/4	6.3	0.25	0.249
5/16	7.9	0.3125	0.388
3/8	9.5	0.375	0.559
1/2	12.7	0.5	0.994
5/8	15.9	0.625	1.55
3/4	19.1	0.75	2.235
7/8	22.2	0.875	3.05
1	25.4	1	3.97
1 1/8	28.6	1.125	5.02
1 1/4	31.8	1.25	6.21
1 3/8	34.9	1.37	7.55
1 1/2	38.1	1.5	8.94
1 5/8	41.3	1.62	10.49
1 3/4	44.5	1.75	12.17
1 7/8	47.7	1.87	13.97
2	50.8	2	15.89

Nota: Redondo Pulido disponible de 3/16 a 1/2



Cuadrado

Norma ASTM A36 y C. Comercial

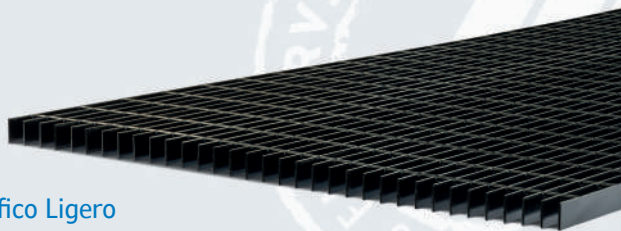
Tabla De Pesos Teóricos

Fracción	Medidas		kg/m
	Milímetros	Pulgadas	
3/8	9.5	0.375	0.71
1/2	12.7	0.5	1.26
5/8	15.9	0.625	1.97
3/4	19.1	0.75	2.84
7/8	22.2	0.875	3.87
1	25.4	1	5.06
1 1/8	28.6	1.125	6.4
1 1/4	31.8	1.25	7.9
1 1/2	38.1	1.50	11.39
1 3/4	44.5	1.75	15.49
2	50.8	2	20.23

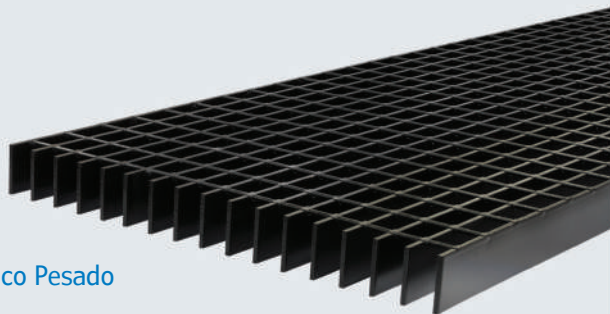
Rejilla Electroforjada

Somos fabricantes de:

- Tráfico Ligero



- Tráfico Pesado



- Cercas de Seguridad



Rejilla Electroforjada

(Tráfico Ligero)

Tabla De Pesos Teóricos

MODELO W19-100, W19-50						Acero Al Carbón										
Peralte Pulg.	Espesor Pulg.	Peralte (mm)	Espesor (mm)	Peso Aprox kg/m ²	Carga	kg/m ² -cm deflexión en mm										
						50	75	100	125	150	175	200	225	250	275	
1/8	3/4	19.05	3.175	18.74	U	2182.70	1157.519	656.244	415.788	-	-	-	-	-	-	-
					Du	1.491	3.825	6.819	10.627	-	-	-	-	-	-	-
					C	604.258	430.939	324.261	258.866	-	-	-	-	-	-	-
					Dc	1.184	3.059	5.459	8.508	-	-	-	-	-	-	-
3/16	3/4	19.05	4.762	26.81	U	3276.493	1738.721	984.366	621.734	-	-	-	-	-	-	-
					Du	1.491	3.825	6.819	10.627	-	-	-	-	-	-	-
					C	907.666	646.468	486.483	387.113	-	-	-	-	-	-	-
					Dc	1.184	3.059	5.459	8.508	-	-	-	-	-	-	-
1/8	1	25.4	3.175	24.12	U	3886.258	2060.153	1166.285	738.861	511.578	377.113	-	-	-	-	-
					Du	1.112	2.862	5.123	7.974	11.48	15.612	-	-	-	-	-
					C	1076.392	766.371	576.339	459.713	383.051	328.608	-	-	-	-	-
					Dc	0.921	2.296	4.088	6.373	9.168	12.498	-	-	-	-	-
3/16	1	25.4	4.762	34.88	U	5820.994	3089.846	1748.357	1107.798	769.04	563.145	-	-	-	-	-
					Du	1.112	2.862	5.123	7.974	11.48	15.612	-	-	-	-	-
					C	1611.495	1150.125	864.418	689.419	573.832	491.783	-	-	-	-	-
					Dc	0.921	2.296	4.088	6.373	9.168	12.498	-	-	-	-	-
1/8	1 1/4	31.75	3.175	29.5	U	6065.449	3222.171	1822.259	1154.649	799.872	587.557	446.838	-	-	-	-
					Du	0.921	2.296	4.088	6.373	9.168	12.498	16.293	-	-	-	-
					C	1680.65	1197.311	900.601	717.393	598.11	512.668	448.343	-	-	-	-
					Dc	0.744	1.827	3.274	5.108	7.341	9.99	13.052	-	-	-	-
3/16	1 1/4	31.75	4.762	42.95	U	9097.488	4828.567	2732.724	1729.532	1199.424	881.502	672.096	-	-	-	-
					Du	0.921	2.296	4.088	6.373	9.168	12.498	16.293	-	-	-	-
					C	2519.161	1796.593	1350.901	1076.532	896.422	768.257	671.211	-	-	-	-
					Dc	0.744	1.827	3.274	5.108	7.341	9.99	13.052	-	-	-	-
1/8	1 1/2	38.1	3.175	34.88	U	8735.688	4634.961	2624.977	1660.243	1149.831	847.158	647.684	510.425	414.801	339.809	
					Du	0.758	1.925	3.415	5.321	7.638	10.421	13.572	17.189	21.225	25.675	
					C	2418.521	1725.246	1296.392	1034.28	860.238	738.445	644.608	573.48	515.644	469.044	
					Dc	0.614	1.53	2.731	4.254	6.111	8.331	10.877	13.766	16.996	20.519	
3/16	1 1/2	38.1	4.762	51.02	U	13105.974	6954.884	3935.326	2491.819	1726.418	1270.738	969.386	767.502	619.76	509.822	
					Du	0.758	1.925	3.415	5.321	7.638	10.421	13.572	17.189	21.225	25.675	
					C	3629.596	2587.243	1944.915	1550.525	1291.377	1107.283	967.565	859.653	774.511	703.5	
					Dc	0.614	1.53	2.731	4.254	6.111	8.331	10.877	13.766	16.996	20.519	
3/16	1 3/4	44.45	4.762	59.74	U	17829.665	9468.027	5355.562	3389.776	2349.255	1728.661	1319.78	1041.533	844.249	694.265	
					Du	0.653	1.653	2.923	4.549	6.552	9.927	11.652	14.746	18.2	22	
					C	4937.683	3521.84	2647.294	2110.512	1757.68	1506.703	1317.124	1171.122	1053.609	957.301	
					Dc	0.516	1.308	2.341	3.639	5.246	7.128	9.322	11.794	14.561	17.584	
3/16	2	50.8	4.762	67.81	U	23288.861	12364.268	6996.173	4428.285	3068.702	2257.462	1722.676	1359.506	1103.851	908.003	
					Du	0.558	1.431	2.561	3.989	5.742	7.812	10.179	12.901	15.928	19.243	
					C	6448.538	4600.619	3457.203	2756.492	2295.329	1967.955	1719.888	1529.778	1376.148	1249.66	
					Dc	0.451	1.159	2.044	3.186	4.584	6.242	8.157	10.318	12.742	15.389	
3/16	2 1/4	57.15	4.762	75.88	U	29480.049	15648.104	8857.16	5605.373	3883.221	2857.309	2179.28	1723.727	1397.63	1150.817	
					Du	0.491	1.282	2.264	3.537	5.101	6.938	9.065	11.476	14.16	17.099	
					C	8163.232	5822.208	4376.314	3488.465	2904.325	2491.04	2176.977	1935.268	1741.526	1582.197	
					Dc	0.386	1.011	1.823	2.836	4.088	5.546	7.249	9.16	11.324	13.68	
3/16	2 1/2	63.5	4.762	83.95	U	36394.835	19319.152	10933.64	6920.104	4795.12	3528.201	2692.063	2127.008	1723.612	1417.826	
					Du	0.451	1.159	2.044	3.186	4.584	6.242	8.157	10.318	12.742	15.389	
					C	10078.135	7187.862	5402.119	4307.319	3585.688	3075.238	2687.453	2389.431	2150.058	1953.226	
					Dc	0.372	0.913	1.642	2.546	3.672	5.001	6.526	8.251	10.19	12.327	

U: Carga uniforme permisible (en kg/m²)

C: Carga concentrada permisible (en kg/m)

Du: Deflexión con carga uniforme (mm)

Dc: Deflexión con carga concentrada (mm)

Rejilla Electroforjada

(Tráfico Pesado)

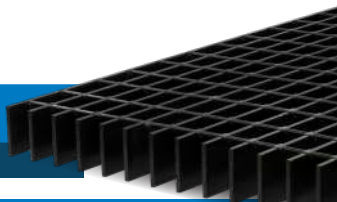









Tabla De Pesos Teóricos

Tipo de Solera														
	250 kg/cm ²		200 kg/cm ²		150 kg/cm ²		Tráfico De Auto		5 Ton Montacargas		3 Ton Montacargas		1 Ton Montacargas	
	(Pulg)	(mm)	(Pulg)	(mm)	(Pulg)	(mm)	(Pulg)	(mm)	(Pulg)	(mm)	(Pulg)	(mm)	(Pulg)	(mm)
1 X 1/4	12	304	10	254	9	228	12	304	7	177	6	152	7	177
1 X 3/8	14	355	13	330	11	279	16	406	9	228	8	203	9	228
1 1/4 X 1/4	15	381	13	330	12	304	17	431	9	228	8	203	10	254
1 1/4 X 3/8	18	457	16	406	14	355	23	584	12	304	10	254	14	355
1 1/2 X 1/4	18	457	16	406	14	355	23	584	11	279	10	254	13	330
1 1/2 X 3/8	22	558	20	508	18	457	30	762	14	355	13	330	19	482
1 3/4 X 1/4	21	533	19	482	17	431	29	736	14	355	12	304	17	431
1 3/4 X 3/8	26	660	23	584	21	533	38	965	18	457	17	431	25	635
2 X 1/4	24	609	22	558	20	508	37	939	16	406	15	381	22	558
2 X 3/8	30	762	28	711	26	660	46	1168	22	558	21	533	33	838
2 1/4 X 1/4	27	685	25	635	23	584	45	1143	19	482	18	457	28	711
2 1/4 X 3/8	34	863	32	812	31	787	53	1346	26	660	26	660	41	1041
2 1/2 X 1/4	30	762	28	711	27	685	52	1320	22	558	22	558	34	863
2 1/2 X 3/8	40	1016	38	965	36	914	59	1498	31	787	31	787	50	1270
3 X 1/4	39	990	37	939	35	889	62	1574	30	762	30	762	49	1244
3 X 3/8	52	1320	50	1270	49	1244	71	1803	43	1092	44	1117	61	1549
3 1/2 X 1/4	48	1219	46	1168	45	1143	72	1828	39	990	40	1016	62	1574
3 1/2 X 3/8	60	1524	60	1524	60	1524	83	2108	56	1422	58	1473	71	1803
4 X 1/4	59	1498	58	1473	57	1447	83	2108	50	1270	51	1295	71	1803
4 X 3/8	68	1727	68	1727	69	1752	95	2413	66	1676	68	1727	81	2057
4 1/2 X 1/4	69	1752	69	1752	70	1778	96	2438	61	1549	64	1625	82	2082
4 1/2 X 3/8	71	1803	71	1803	72	1828	96	2438	69	1752	71	1803	84	2133
5 X 1/4	75	1905	75	1905	75	1905	96	2438	72	1828	74	1879	89	2260
5 X 3/8	85	2159	85	2159	86	2184	96	2438	83	2108	85	2159	96	2438

Escalones

Norma Galvanizado: ASTM123 NAMM MBG531-17



Tabla De Pesos Teóricos

Ancho (mm)	Soleras		Longitud máxima (mm)	
	Espesor Por Peralte	Superficie Lisa	Superficie Dentada	
220	3/16" * 3/4"	710	-	
	1/8" * 1"	800	710	
250	1/8" * 1 1/4"	1040	860	
280	3/16" * 1"	1040	860	
310	3/16" * 1 1/4"	1420	1270	
	3/16" * 1 1/2"	1670	1600	

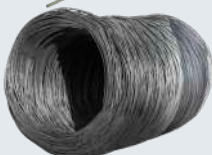
Acabado:
Natural, pintado, galvanizado.

Cerca y Arquitectónico:
Norma:
Galvanizado: ASTM123
NAAMM MBG531-17

Acabado:
Natural, pintado, galvanizado.

Construcción

- Varilla Corrugada R-42
- Varilla Corrugada R-6000
- Malla Electrosoldada
- Escalerilla
- Alambrón
- Alambre Recocido
- Alambre de Púas
- Alambre Pulido
- Alambre Galvanizado



Varilla Corrugada R-42 y R-6000

Norma NMX-B-506 (R-42) y Norma NMX-B-72 (R-6000)

Tabla De Pesos Teóricos

No.	Diámetro nominal		Área en cm ²	Perímetro En cm	Kg x ml	Pzas x ton (Aprox)
	mm	pulgadas				
**	--	5/32	0.12	--	0.100	1666
**	--	3/16	0.18	--	0.133	1253
**	--	1/4	0.32	--	0.250	667
**	--	5/16	0.49	--	0.384	434
*2.5	7.9	5/16	0.49	2.48	0.384	217
*3	9.5	3/8	0.71	2.98	0.557	150
*4	12.7	1/2	1.27	3.99	0.996	84
*5	15.9	5/8	1.99	5.00	1.580	53
*6	19.1	3/4	2.87	6.00	2.250	37
*8	25.4	1	5.07	7.98	3.975	21
*10	31.8	1 1/4	7.94	9.99	6.225	13
*12	38.1	1 1/2	11.4	11.97	8.938	9
**	R-6000					
*	R-42					

Propiedades mecánicas de tensión (R-42)

Resistencia a la tensión (mínimo)	6,300 kg/cm ²
Resistencia a la Fluencia (mínimo)	4,200 kg/cm ²

Alargamiento mínimo en 200 mm:

3/8, 1/2, 5/8, 3/4	9%
1	8%
1 1/4, 1 1/2	7%

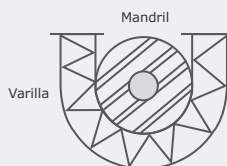
Propiedades mecánicas de doblado (R-42)

3/8, 1/2, 5/8	3.5 d
3/4, 1	5.0 d
1 1/4	7.0 d
1 1/2	8.0 d
1	8%

d= Diámetro nominal de la probeta

A temperatura ambiente (16°C mínimo) bajo las siguientes condiciones:

- Haciendo uso del mandril adecuado
- Aplicando una fuerza continua y uniforme
- Manteniendo unido el producto y mandril durante el doblado





Malla Electrosoldada

Norma NMX-B-253, NMX-B290

Tabla De Pesos Teóricos

Tipo	Diámetro del alambre (mm)	Peso (kg/m ²)	Rollo	Hoja
6x6 4/4	5.72	2.68	2.50 x 40 m	2.50 x 6 m
6x6 6/6	4.88	1.95	2.50 x 40 m	2.50 x 6 m
6x6 8/8	4.11	1.38	2.50 x 40 m	2.50 x 6 m
6x6 10/10	3.43	0.95	2.50 x 40 m	2.50 x 6 m



Escalerilla

Norma NMX-B-500

Tabla De Pesos Teóricos

Diseño	Ancho	Separación	Largo (m)	Calibre
10 - 02	7	25	3	10
12 - 02	9	25	3	10
15 - 02	12	25	3	10



Alambrón

Norma NMX-B-365

Tabla De Pesos Teóricos

Fración	Pulgadas	Milímetros	Kg / m
1/4	0.25	6.35	0.249

Alambre Recocido Cal. 16



Rollos de 60 a 70 kg x pza.

Alambre de Púas



Tabla De Pesos Teóricos

Producto	Calibre alambre central	Calibre Púas	No. Puntas	Separación entre puntas	Longitud de rollo
				Pulg.	m
Alta Resistencia	15.5	16.5	4	5	360
Púa 34	12.5	14	4	4	340 aprox.

Alambre Pulido

Norma NMX-B-366



Tabla De Pesos Teóricos

Calibres	mm	kg/m
8	4.110	0.1041
9	3.760	0.0870
10	3.430	0.0725
12	2.667	0.0439
14	2.032	0.0255
16	1.575	0.0153
18	1.194	0.0088



Alambre Galvanizado

Norma ASTM A641

Tabla De Pesos Teóricos

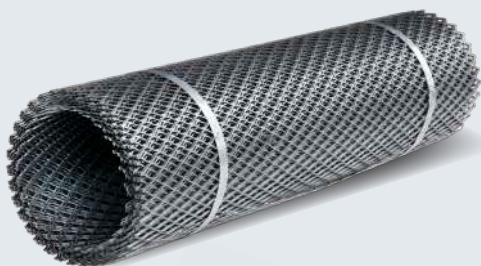
Diámetro No.		Peso mínimo de Zinc por unidad de área			kg/m
Calibre	Pulgadas	mm	Clase I OZ/FT	Clase III OZ/FT	
5	0.207"	5.25	0.53	1	0.167
6	0.192"	4.87	0.5	1	0.146
7	0.177"	4.49	0.44	0.9	0.124
8	0.162"	4.11	0.35	0.9	0.104
9	0.148"	3.76	0.35	0.9	0.087
10	0.135"	3.42	0.30	0.85	0.072
10 1/2	0.128"	3.25	0.30	0.85	0.065
11	0.120"	3.06	0.30	0.85	0.057
12	0.106"	2.67	0.30	0.80	0.044
12 1/2	0.099"	2.51	0.30	0.80	0.039
13	0.091"	2.31	0.28	0.75	0.033
14	0.080"	2.03	0.25	0.70	0.025
14 1/2	0.076"	1.93	0.25	0.70	0.023
15	0.072"	1.82	0.20	0.65	0.021
15 1/2	0.067"	1.70	0.20	0.65	0.018
16	0.062"	1.58	0.20	0.65	0.015
18	0.0475"	1.21	0.15	0.50	0.009
20	0.0348"	0.86	0.15	0.45	0.005
22	0.0265"	0.67	0.15	0.45	0.003

Recubrimiento En Alambre Galvanizado Clase I Y Clase III

Complementarios



- Reja



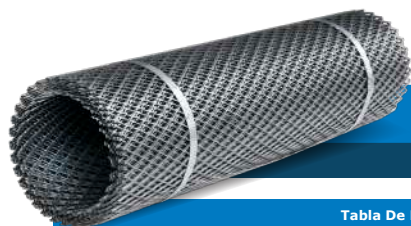
- Metal Desplegado



- Clavo



- Soldadura

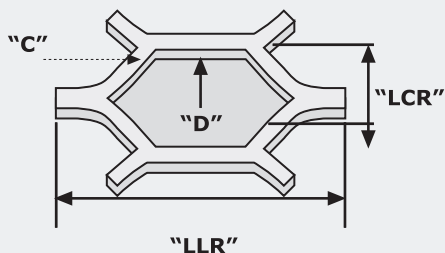


Metal Desplegado

Norma ASTM A36, A572 GR50

Tabla De Pesos Teóricos

No. De Referencia	Calibre	Espesor (mm)	Peso Kg/m2	Sección (mm)	Abertura de la malla (mm) LCR x LLR
A4-26	26	0.45	2.44	1.0	3 x 6
B8-26	26	0.45	1.45	1.0	4 x 9
B9-24	24	0.61	1.95	1.0	4 x 9
B10-22	22	0.76	2.44	1.0	4 x 9
B11-20	20	0.91	2.93	1.0	4 x 9
C13-26	26	0.45	0.90	1.0	7 x 15
C14-24	24	0.61	1.20	1.0	7 x 15
C15-22	22	0.76	2.30	1.5	7 x 15
C16-20	20	0.91	2.77	1.5	7 x 15
D17-24	24	0.61	1.35	1.5	11 x 22
D18-22	22	0.76	1.70	1.5	11 x 22
D19-20	20	0.91	2.00	1.5	11 x 22
D20-18	18	1.21	2.70	1.5	11 x 22
D21-16	16	1.52	3.35	1.5	11 x 22
E6-22	26	0.45	0.60	1.0	12 x 31
E7-22	26	0.45	0.70	1.2	12 x 31
E23-22	22	0.76	2.00	2.0	12 x 31
E24-20	20	0.91	2.40	2.0	12 x 31
E25-18	18	1.21	3.25	2.0	12 x 31
E26-16	16	1.52	4.10	2.0	12 x 31
E27-14	14	1.90	5.10	2.0	12 x 31
G32-20	20	0.91	1.80	2.5	19 x 41
G33-18	18	1.21	2.40	2.5	19 x 41
G34-16	16	1.52	3.00	2.5	19 x 41
G35-14	14	1.90	3.80	2.5	19 x 41
H37-18	18	1.21	2.30	3.0	23 x 50
H38-16	16	1.52	2.90	3.0	23 x 50
H39-14	14	1.90	3.60	3.0	23 x 50
H40-12	12	2.66	5.15	3.0	23 x 50
J45-16	16	1.52	2.80	4.0	33 x 69
J46-14	14	1.90	3.50	4.0	33 x 69





Reja

Tabla De Pesos Teóricos

Altura (m)	Longitud (m)	Panel		Poste	
		Abrazaderas por panel	Calibre	Dimensiones (pulgadas)	Calibre
1.50	2.5	3	6 (4.89 mm)	2 1/4" X 2 1/4"	16 (1.516 mm)
2.00	2.5	4	6 (4.89 mm)	2 1/4" X 2 1/4"	16 (1.516 mm)
2.50	2.5	5	6 (4.89 mm)	2 1/4" X 2 1/4"	16 (1.516 mm)

Clavo

Norma NMX-B-505



Tabla De Pesos Teóricos

Pulgadas	Milímetros	kg/caja
1"	25.4	25
1 1/2"	38.1	25
2"	50.8	25
2 1/2"	63.5	25
3"	76.2	25
3 1/2"	88.9	25
4"	101.6	25

Soldadura

Soldadura 1/8" 6013

Soldadura 1/8" 7018

Soldadura 3/32" 6013



Empaque: caja de 20 kg con 4 bolsas plásticas de 5 kg c/u

Equivalentes de fracciones a decimales de pulgadas y conversión a milímetros

Equivalentes de fracciones a decimales de pulgadas y conversión a milímetros					
Fracción De Pulgadas	Decimales De Pulgadas	mm	Fracción De Pulgadas	Decimales De Pulgadas	mm
1/64	0.015625	0.39688	33/64	0.515625	13.096
1/32	0.031250	0.79375	17/32	0.53125	13.493
3/64	0.046875	1.19063	35/64	0.546875	13.89
1/16	0.062500	1.58751	9/16	0.5627	14.287
5/64	0.078125	1.98438	37/64	0.578125	14.684
3/32	0.093750	2.38126	19/32	0.59375	15.081
7/64	0.109375	2.77814	39/64	0.609375	15.478
1/8	0.125	3.17501	5/8	0.625	15.875
9/64	0.140625	3.57189	41/64	0.640625	16.271
5/32	0.156250	3.96877	21/32	0.65625	16.668
11/64	0.171875	4.36564	43/64	0.671875	17.065
3/16	0.1875	4.76252	11/16	0.6875	17.462
13/64	0.203125	5.15940	45/64	0.703125	17.859
7/32	0.218750	5.55627	23/32	0.71875	18.256
15/64	0.234375	5.93315	47/64	0.734375	18.653
1/4	0.25	6.35003	3/4	0.75	19.050
17/64	0.265625	6.74690	49/64	0.765625	19.446
9/32	0.28125	7.14378	25/32	0.78125	19.843
19/64	0.296875	7.54065	51/64	0.796875	20.24
5/16	0.3125	7.93753	13/16	0.8125	20.637
21/64	0.328125	8.33441	53/64	0.828125	21.034
11/32	0.34375	8.73128	27/32	0.84375	21.431
23/64	0.359375	9.12816	55/64	0.859375	21.828
3/8	0.375	9.52504	7/8	0.875	22.225
25/64	0.390625	9.92191	57/64	0.890625	22.621
13/32	0.40625	10.31879	29/32	0.90625	23.018
27/64	0.421875	10.71567	59/64	0.921875	23.415
7/16	0.4375	11.11254	15/16	0.9375	23.812
29/64	0.453125	11.50942	61/64	0.953125	24.209
15/32	0.46875	11.90630	31/32	0.96875	24.606
31/64	0.484375	12.30317	63/64	0.984375	25.003
1/2	0.5	12.70005	1	1.0	25.400

Tabla de Pesos y Medidas					
Lineal	1	Centímetro	=	0.3937	Pulgadas
	1	Pulgada	=	2.54	Centímetros
	1	Pie	=	3.048	Decímetros
	1	Yarda	=	0.9544	Metros
	1	Kilómetro	=	0.62137	Milla
	1	Milla	=	1.6094	Kilómetros
Peso	1	Gramo	=	0.03527	Onzas
	1	Onza	=	28.35	Gramos
	1	Kilogramo	=	2.2046	Libras
	1	Libras	=	0.4536	Kilogramos
Área	1	Pulgada Cuadrada	=	6.452	Centímetros Cuadrados
	1	Pie Cuadrado	=	0.093	Metros Cuadrados
	1	Metro Cuadrado	=	1.196	Yardas Cuadradas
	1	Acre	=	4047	Metros Cuadrados
	1	Kilómetro Cuadrado	=	0.386	Milla Cuadrada
1	Milla Cuadrada	=	2.59	Kilómetros Cuadrados	
Volumen	1	Centímetro Cúbico	=	0.061	Pulgada Cúbica
	1	Pulgada Cúbica	=	16.39	Centímetro Cúbico
	1	Pie Cúbico	=	0.28	Metro Cúbico
	1	Yarda Cúbica	=	0.7646	Metro Cúbico
	1	Metro Cúbico	=	0.2759	Cord.



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