



serviaceró[®]
comercial

Theoretical Weights Book



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En **Serviacero Comercial** specializes in the processing, manufacturing, equipment & construction industries as well as dealers.

Our world-class standards, total commitment to quality and exceptional customer service have positioned us as a strategic and reliable supplier in all the industries we serve. We currently have an **ISO 9001: 2015 certification**.

We continually make investments to keep us at the forefront and expand our range of products and services for our customers.

INDEX

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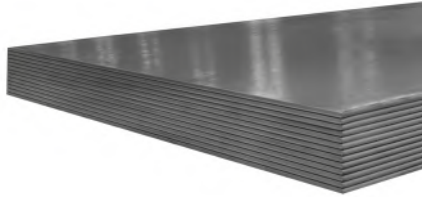
Sheet and Plate		02 Black hot rolled Steel sheet
		02 Black cold rolled Steel sheet
		02 Nonskid flooring plate
		02 Pickled hot rolled Steel sheet
		03 Plate
Covering Sheet		05 Losacero (Steel deck slab)
		06 Corrugated Sheet
		06 Galvanized Sheet
		06 Painted Sheet
Pipeline		08 Purlin
		11 Hollow Structural HSS
		15 PTR (Square and Rectangular mechanical tube)
		17 Round Mechanical Tube
		18 Industrial Pipe
		19 Black Structural Pipe
21 Tubular Profile		
Structural Profiles		24 Wide-Flange Beams (IPR)
		27 Channel U
		27 IPS
Commercial Profiles		29 Angles
		30 Bearing Bar
		31 Cross Bar
		31 Square Bar
Steel Bar Grating		33 Light Duty
		34 Heavy Duty
		34 Security Fencing
		34 Architectural Elements
		34 Stair Steps
Rebar		36 Rebar R-42
		36 Rebar High Strength R-6000
Electro Welded		37 Welded Wire Mesh 37 Ladder
Rod and Wire		37 Wire Rod
		38 Annealed Wire
Accessories		41 Expanded Metal
		42 Fence Panel
		42 Nail
		42 Welding

Sheets and Plates

Sheets and Plates

- (Cut-To-Length Process)
Sheets and Plates

Lengths tailored to your project
Gauges 14 - 3/4"



- Slitter

From 0.024 "to 0.250"
Up to 31 simultaneous cuts.



- Plasma Cutting

For sheet and plate in thickness from
10 to 2.5", in widths up to 3.05 m and
lengths up to 12.20 m



Hot Rolled Steel Sheet, Black, Cold Rolled, Pickled

Standard Specification SAE 1008/1010, ASTM A1011, A568

Theoretical Weights Table

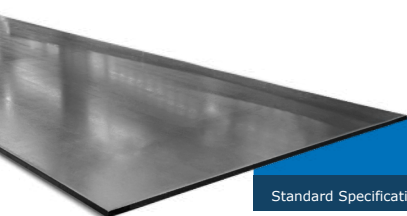
Thickness	Thick		Weight	0.914 X	0.914 X	0.914 X	1.219 X	1.219 X
	mm	Inch		1.829	2.438	3.048	2.438	3.048
No	mm	Inch	Kg / m ²	3' X 6'	3' X 8'	3' X 10'	4' X 8'	4' X 10'
6	4.94	0.1943	39.681	64.97	86.62	108.28	115.50	144.37
8	4.18	0.1644	33.576	54.97	74.842	91.62	97.72	122.16
9	3.8	0.1495	30.523	49.99	68.038	83.31	88.87	111.08
10	3.42	0.1345	27.471	44.97	61.234	74.95	79.95	99.94
11	3.04	0.1196	24.42	39.99	54.432	66.65	71.09	88.87
12	2.66	0.1046	21.367	34.97	47.628	58.29	62.18	77.72
13	2.28	0.0897	18.315	29.99	40.824	49.99	53.32	66.65
14	1.9	0.0747	15.262	24.98	34.02	41.63	44.40	55.51
15	1.71	0.0673	13.736	22.50	30.617	37.50	40.01	50.01
16	1.52	0.0598	12.21	20.00	27.216	33.33	35.55	44.43
17	1.37	0.0538	10.98	17.99	24.49	29.98	31.98	39.98
18	1.21	0.0478	9.768	15.98	21.773	26.64	28.41	35.52
19	1.06	0.0418	8.547	13.98	19.051	23.29	24.85	31.06
20	0.91	0.0359	7.326	12.00	16.33	20.01	21.34	26.68
21	0.84	0.0329	6.713	11.00	14.96	18.33	19.56	24.45
22	0.76	0.0299	6.105	10.00	13.608	16.66	17.77	22.22
23	0.68	0.0269	5.492	8.99	12.24	14.99	15.99	19.99
24	0.61	0.0239	4.448	7.99	10.886	13.32	14.21	17.76
25	0.53	0.0209	4.272	6.99	9.52	11.65	12.42	15.53
26	0.46	0.0179	3.663	5.99	8.165	9.98	10.64	13.30
28	0.38	0.0149	3.052	4.98	6.804	8.30	8.86	11.07
30	0.3	0.012	2.442	4.01	5.443	6.69	7.13	8.92

Nonskid Flooring Plate

Standard Specification ASTM A 786

Theoretical Weights Table

Thickness			Weight		
Thick	Inch	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



Plate

Standard Specification ASTM A 36, A572, A709, A283, A285, A285-C, A516-70

Theoretical Weights Table

Dimensions		3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Ft	Meters	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
Kg per m ²		38.29	51.06	63.82	76.59	102.12	127.65	153.18
Kg per ft ²		3.56	4.75	5.94	7.12	9.50	11.87	14.25

Theoretical Weights Table

Dimensions		7/8"	1"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	2"
Ft	Meters	22.2 mm	25.4 mm	28.5 mm	31.7 mm	38.1 mm	44.5 mm	50.8 mm
3' x 10'	.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
Kg per m ²		178.71	204.24	229.78	255.30	306.37	357.43	408.49
Kg per ft ²		16.16	18.47	20.78	23.09	27.70	32.32	36.94

Covering Sheet

We are manufacturers of:

- Corrugated Sheet

Painted, galvanized and aluminized
R-72, R-101, RN 100/35 and KR-18,
from 2.00 m to 12.20 m.



- Losacero Steel Deck

In section 25 and 30



- Steel Roof Tile

In 26 gauge



- Galvanized Sheet



- Painted Sheet



Losacero Steel Deck

Standard Specification ASTM A653, SS37

Theoretical weights table

Thickness	Steel Base		Weight		Superior compression m+			Lower compression m-			Adm. Vay (kg/M width)	Nominal effective width
					Ixe +	Sxe+	M Axo+	Ixe -	Sxe-	Maxo -		
	mm	Pulg.	Kg/ml	Kg/m ²	cm ⁴ /m	cm ³ /m	Kg-m	cm ⁴ /m	cm ³ /m	Kg-m		
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

Special measures on order

CONCRETE, F'CO=2200 KG/CM2, P. VOL. 2400 KG/M3: N=10

Thickness	Description	Concrete	Weight	Clear maximum without propping up		
				Simple	Double	Triple
Inches		cm	Kg/m ²	m	m	m
24 0.0239		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
		12	356	1.42	1.93	1.95
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

Steel: GR37

Corrugated Sheet

Standard Specification ASTM A653, SS37

Theoretical Weights Table

Tickness	Tickness		Weight per linear meter		kg / m ²	kg / m ²	kg / m ²	kg / m ²	kg / m ²
	mm	Inches	91.5 cm 3' width	122 cm 4' width	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		

Galvanized and Painted Sheet

Standard Specification ASTM A653, A924

Theoretical Weights Table

Tickness	Weight per Ft		1.83m	2.44m	3.05m	3.66m	2.44m	3.05m
	91.4 cm 3' width	121.9 cm 4' width	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

The Tables are based on the nominal thicknesses of the steel considering a specific weight for the same of 7,850 Kg / m³ with zinc layer G-90 (0.275 Kg / m²)

Pipeline

We are manufacturers of:

- Pipe

Quality and high precision.



- Purlin

Painted, black and galvanized, with or without perforation, long according to your project. Gauges 9 to 16, quality standard and high strength. Section shapes C, Z, U and poultry purlin.



- Optical fiber laser cutting

Thickness: 0.0239" - 0.1793"
Length: 5 - 6500 mm.



- High Precision Electronic Bending

3D visual programming.



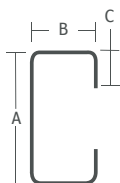


"C" Purlin

Standard C. Commercial ASTM A 500 | Standard A. Strength ASTM A 500 GR C

Theoretical Weights Table

A x B x C (Inches)	Caliber	thickness (inches)	Inventory	Standard Length (meters)	Pieces Per Pack	kilogram Per Meter
3 x 1.5 x 0.5	12	0.1046	*	6	48	3.21
3 x 1.5 x 0.5	14	0.0747	Painted	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	Painted	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	Painted	5	48	3.68
5 x 2 x 0.75	14	0.0747	Painted	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	Painted	6	48	5.6
6 x 2 x 0.75	14	0.0747	Painted	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	Painted	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	Painted	8	36	7.4
8 x 2.75 x 0.75	14	0.0747	Painted	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	Painted	10	24	8.5
10 x 2.75 x 0.75	14	0.0747	Painted	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	Painted	12	20	10.52
12 x 3.5 x 0.875	14	0.0747	Painted	12	20	7.54
12 x 3.5 x 0.875	16	0.0598	*	12	20	6.11



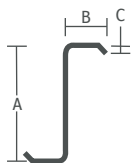
Note: For lip 5/8" brows can only be processed in gauges from 0.06" to 0.1"

* special manufacturing
P painted brown

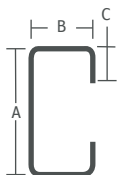


Purlin

Standard C. Commercial ASTM A 500 | Standard A. Strength ASTM A 500 GR C



"Z" Purlin				
Height "A" (inches)	Flange "B" (inches)	Lip "C" (inches)	Inventory	Thickness
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 - 0.1	*	



"C" Purlin Special Measures				
Height "A" (inches)	Flange "B" (inches)	Lip "C" (inches)	Inventory	Thickness
3 - 14	1.5	0.5	*	0.06 - 0.14
4 - 14	2 - 2.5	0.5 - 0.75	*	
	2 - 4	0.5 - 0.75	*	
6 - 14	2.75 - 4	0.5 - 0.86	*	
	3 - 4	0.5 - 0.1	*	

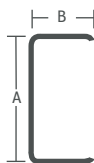


Purlin

Standard C. Commercial ASTM A 500 | Standard A. Strength ASTM A 500 GR C

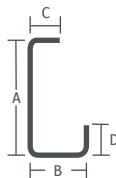
"U" Purlin

Height "A" (inches)	Flange "B" (inches)	Inventory	Thickness
3 - 14	1 - 1.5	*	0.06 - 0.14
4 - 14	1 - 3	*	
6 - 14	1 - 4	*	



"Poultry Purlin" Purlin

Height "A" (inches)	Flange "B" (inches)	Lip "D" (inches)	Lip 2 "C" (inches)	Inventory	Thickness
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	0.827	*	



* (special manufacturing)
P (painted brown)

Note: For lip 5/8" brows can only be processed
in gauges from 0.06" to 0.1 "



Hollow Structural HSS (squares)

Standard Specification ASTM A500 GR B

Dimensions and properties

Nominal Dimensions			Weight	Real Thickness	b/t	h/t	Area
H	B	Thickness					
in	in	in	kg/m	in			cm ²
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

Hollow Structural HSS (squares)

Standard Specification ASTM A500 GR B



I	S	r	Z	Torsion		Area sup. Per M.L.
				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



Hollow Structural HSS (rectangular)

Standard Specification ASTM A500 GR B

Dimensions and properties

Nominal Dimensions			Weight kg/m	Real Thickness in	b/t	h/t	Area cm ²	Properties	
H in	B in	Thickness 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

Hollow Structural HSS (rectangular)

Standard Specification ASTM A500 GR B



Axis X - X		Axis Y - Y				Torsion	Area sup. Per M.L.
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



Square and Rectangular Mechanical Tube

Standard Specification A500

Theoretical Weights Table			
Profile dimensions	Thickness (In)	Caliber	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

Theoretical Weights Table			
Profile dimensions	Thickness (In)	Caliber	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
4" X 4"	0.1875	3/16*	12.627
	0.2500	1/4*	16.671
	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
4 1/2" X 4 1/2"	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
	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
5" X 5"	0.1495	C-9*	13.439
	0.1793	C-7*	16.054
	0.1875	3/16*	16.760
	0.2500	1/4*	22.118
	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	

Square and Rectangular Mechanical Tube

Standard Specification A500



Theoretical Weights Table				Theoretical Weights Table				Theoretical Weights Table			
Profile dimensions	Thickness (In)	Caliber	Kg/m	Profile dimensions	Thickness (In)	Caliber	Kg/m	Profile dimensions	Thickness (In)	Caliber	Kg/m
1 1/2" X 1/2"	0.0747	C-14*	1.480	3" X 2"	0.0747	C-14	3.718	5" X 3"	0.0747	C-14*	5.945
	0.0897	C-13*	1.754		0.0897	C-13*	4.428		0.0897	C-13*	7.116
0.1046	C-12*	2.040	0.1046		C-12*	5.153	0.1046		C-12*	8.277	
0.1196	C-11*	2.320	0.1196		C-11	5.877	0.1196		C-11*	9.415	
1 1/2" X 1"	0.0747	C-14*	1.851		0.1250	1/8*	6.133		0.1250	1/8*	9.859
	0.0897	C-13*	2.205		0.1345	C-10	6.592		0.1345	C-10*	10.588
	0.1046	C-12*	2.555		0.1495	C-9*	7.236		0.1495	C-9*	11.738
1 3/4" X 3/4"	0.1196	C-11*	2.903		0.1793	C-7	8.596		0.1793	C-7*	14.014
	0.0747	C-14*	1.851		0.1875	3/16*	8.97		0.1875	3/16*	14.627
	0.0897	C-13*	2.205		0.2500	1/4*	11.745		0.2500	1/4*	19.287
2" X 1"	0.1046	C-12*	2.555	0.0747	C-14	4.446	0.2800	*	21.487		
	0.1196	C-11*	2.903	0.1046	C-12*	6.175	0.0747	C-14	5.945		
	0.0747	C-14	2.221	0.1196	C-11	7.040	0.0897	C-13*	7.116		
2 1/4" X 3/4"	0.0897	C-13*	2.264	4" X 2"	0.1250	1/8*	7.345	6" X 2"	0.1046	C-12*	8.277
	0.1046	C-12*	3.055		0.1345	C-10*	7.883		0.1196	C-11*	9.415
	0.1196	C-11	3.517		0.1495	C-9	8.732		0.1250	1/8*	9.859
0.0747	C-14*	2.221	0.1793		C-7	10.408	0.1345		C-10*	10.588	
2 1/2" X 1 1/4"	0.0897	C-13*	2.264		0.1875	3/16*	10.408		0.1495	C-9*	11.738
	0.1046	C-12*	3.055		0.25	1/4*	14.284		0.1793	C-7*	14.014
	0.1196	C-11*	3.517		0.0747	C-14	5.156		0.1875	3/16*	14.627
2 3/4" X 1"	0.0747	C-14*	2.785		0.0897	C-13*	6.167		0.2500	1/4*	19.287
	0.1046	C-12*	3.931		0.1046	C-12*	7.182		0.2800	*	21.487
	0.1196	C-11*	4.483		0.1196	C-11	8.188		0.1046	C-12*	9.467
3" X 1"	0.0747	C-14	2.971	4" X 3"	0.1250	1/8*	8.548	6" X 3"	0.1196	C-11*	10.800
	0.0897	C-13*	3.553		0.1345	C-10*	9.153		0.1250	1/8*	11.275
	0.1046	C-12*	4.133		0.1495	C-9	10.144		0.1345	C-10*	12.118
0.1196	C-11*	4.701	0.1793		C-7	12.093	0.1495		C-9*	13.439	
3 1/2" X 1 1/2"	0.1250	1/8*	4.863		0.1875	3/16*	12.627		0.1793	C-7*	16.054
	0.1345	C-10*	5.215		0.2500	1/4*	16.671		0.1875	3/16*	16.760
	0.1495	C-9*	5.771		0.2800	*	18.558		0.2500	1/4*	22.118
3 3/4" X 1"	0.1793	C-7*	6.848		0.0747	C-14*	5.156		0.2800	*	24.672
	0.1875	3/16*	7.132		0.0897	C-13*	6.177		0.1196	C-11*	11.942
	0.2500	1/4*	9.294		0.1046	C-12*	7.182		0.1250	1/8*	12.462
3 1/2" X 1 1/4"	0.0747	C-14*	2.785	0.1196	C-11*	8.188	0.1345	C-10*	13.395		
	0.1046	C-12*	3.931	0.125	1/8*	8.545	0.1495	C-9*	14.859		
	0.1196	C-11*	4.483	0.1345	C-10*	9.153	0.1793	C-7*	17.748		
3 3/4" X 1 1/2"	0.0747	C-14*	2.971	0.1495	C-9*	10.144	0.1875	3/16	18.531		
	0.0897	C-13*	3.553	0.1793	C-7*	12.093	0.2500	1/4	24.493		
	0.1046	C-12*	4.133	0.1875	3/16*	12.627	0.2800	*	27.317		
3 3/4" X 1"	0.1196	C-11*	4.701	0.25	1/4*	16.671	0.1196	C-11*	12.889		
	0.1250	1/8*	4.863	0.28	*	18.558	0.1250	1/8	13.465		
	0.1345	C-10*	5.215				0.1345	C-10*	14.413		
3 3/4" X 1 1/4"	0.1495	C-9*	5.771				0.1495	C-9*	15.990		
	0.1793	C-7*	6.848				0.1793	C-7*	19.105		
	0.1875	3/16*	7.132				0.1875	3/16*	19.950		
0.2500	1/4*	9.294				0.2500	1/4*	26.435			

Note: Consult special products at manufacturing minimums with your sales representative

* Special manufacturing measures



Round Mechanical Tube

Standard Specification ASTM A513

Theoretical Weights Table

Size	Ced. No.	Nominal Diameter inches	External Diameter inches	Thickness inches	Theoretical Weight weight per piece
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

Note: The theoretical weights can be variable according to the length of the pipe from 6 m to 6.40 m

Industrial Pipe

Standard Specification ASTM A513



Theoretical Weights Table

External Diameter		Thickness	Kg per meters	Kg per piece
Inch	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



Black Structural Pipe

Standard Specification A500 – B / ASTM A53 – B / API 5L

Theoretical Weights Table

Nominal Diameter		External Diameter		Thickness		
Inch	mm	Inch	mm	fraction of an inch	Inch	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



Black Structural Pipe

Standard Specification A500 – B / ASTM A53 – B / API 5L

Ced. No.	Nominal Weight		Pressures Hydrostatic Test			
			Astm A-53 Ga		Astm A-53 Gb	
	lb/ft	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



Tubular Profile (square)

Standard Specification Q. Commercial

32 mm.



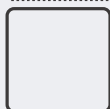
c-125

38 mm.



c-150

50 mm.



c-200

13 mm



c-050

19 mm



c-075

25 mm

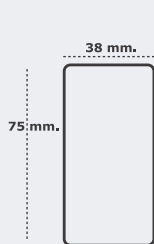


c-100



Tubular Profile (rectangular)

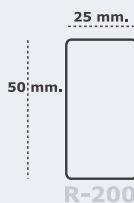
Standard Specification Q. Commercial



R-300



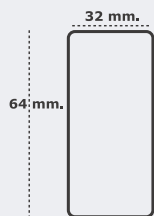
R-400



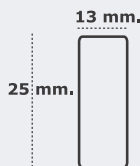
R-200



R-225



R-249



R-100



R-125



R-175

Tubular Profile

Standard Specification Q. Commercial



Square

no.	tickness	kg x m	kg x pc
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

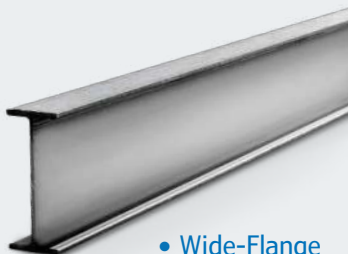
Rectangular

no.	tickness	kg x m	kg x pc
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

Structrural Profiles

Serviacero Comercial offers a wide range of measures and availability in Structural Profiles, for different applications.

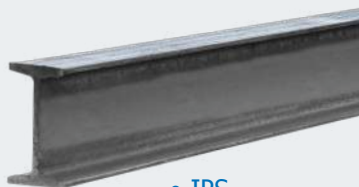
Uses: Ships, buildings, structures, towers, supports and tanks, etc.



- Wide-Flange Beams



- Channel U



- IPS



Wide-Flange Beams

Standard Specification ASTM A36, A572 GR50, A992

Theoretical Weights Table

Size	Weight		Area	Web	Flange		Web thickness
	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
W6 (6 X 6)	16	23.81	4.74	6.28	4.03	0.405	0.260
	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
W8 (8X4)	25	37.20	7.34	6.38	6.08	0.460	0.320
	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
W8 (8X5 1/4)	15	22.32	4.44	8.11	4.02	0.315	0.245
	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
	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
W8 (8 X 8)	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
W10 (10X4)	*67	99.79	19.70	9.02	8.28	0.935	0.570
	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
W10 (10X5 3/4)	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
	22	32.74	6.49	10.17	5.75	0.360	0.240
W10 (10X8)	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
	33	49.10	9.71	9.73	7.96	0.435	0.290
W10 (10X10)	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
	49	73.00	14.40	9.98	10.00	0.560	0.340
W12 (12X4)	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
	14	20.83	4.16	11.91	3.97	0.225	0.200
W12 (12X6 1/2)	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 (12X8)	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 (12X10)	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 (12X12)	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
	65	96.85	19.10	12.12	12.00	0.605	0.390
W12 (12X12)	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

*New measures



Wide-Flange Beams

Standard Specification ASTM A36, A572 GR50, A992

Theoretical Weights Table

Size	Weight		Area	Web	Flange		Web thickness
	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	11.14	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

*New mesures

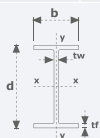
Wide-Flange Beams

Standard Specification ASTM A36, A572 GR50, A992



Theoretical Weights Table

Size	Weight		Area A in 2	Web D in	Flange		Web thickness Tw in
	lb/ft	kg/m			B in	Tf 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
W21 (21X12 1/4)	93	138.00	27.30	21.62	8.42	0.930	0.580
	*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
W24 (24X7)	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 (24X9)	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
	103	153.00	30.30	24.53	9.00	0.980	0.550
W24 (24X12 3/4)	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
	*162	241.29	47.70	25.00	12.96	1.220	0.705
W27 (27X10)	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
W30 (30X10 1/2)	*90	133	26.40	29.53	10.40	0.610	0.470
	*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
W33 (33X16)	152	226.40	44.70	33.49	11.57	1.055	0.635
	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



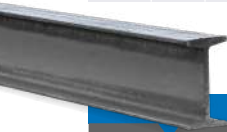
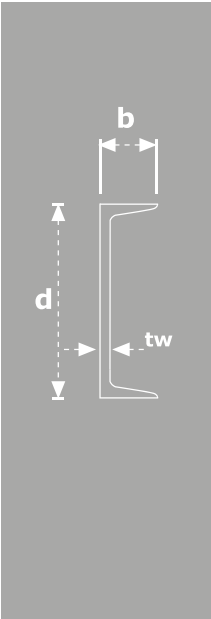
*New measures



Channel U

Standard Specification ASTM A36, A572 GR50

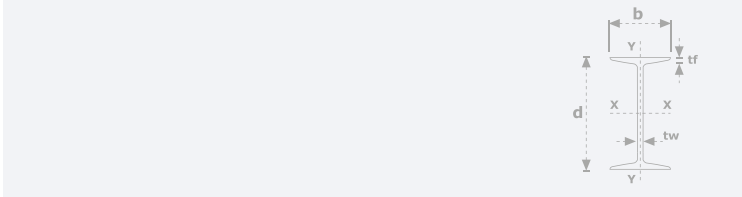
Theoretical Weights Table							
Web (d)		Flange (b)		Web Thickness (tw)		Weight	
mm	inch	mm	inch	mm	inch	kg/m	lb/ft
76.2	3	34.8	1.37	3.35	0.13	5.21	3.50
		35.8	1.40	4.32	0.17	6.10	4.10
101.6	4	40.2	1.58	3.17	0.12	6.70	4.50
		40.2	1.58	4.67	0.18	8.04	5.40
152.4	6	48.7	1.91	5.1	0.2	12.20	8.20
		51.6	2.03	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

Standard Specification ASTM A36

Theoretical Weights Table										
Size	web (d)		flange (b)		thickness (tf)		web thickness (tw)		Weight	
	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



Commercial Profiles

Uses:

Structures, electrification towers, machinery, ironworks, agricultural implements, structures, anchors, grills, fittings, railings, threaded parts, ornaments, etc.



• Angles



• Bearing Bar



• Cross Bar



• Square Bar



Angles

Standard Specification ASTM A36, A572 GR50, A529 GR50, A709

Theoretical Weights Table

Inches		Size	mm	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
1/4	x 3	6.3	x 76.2	5.97
	x 1		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
5/16	x 4	7.9	x 101.6	9.90
	x 4x3		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
3/8	x 3 1/2	9.5	x 88.9	10.71
	x 4		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
1/2	x 4 x 3	12.7	x 101.6 x 76.3	12.65
	x 4 x 6		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
5/8	x 6	15.9	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
	x 4		x 101.6	23.36
	x 6		x 152.4	36.01
3/4	x 4 x 3	19	x 101.6 x 76.3	20.24
	x 4 x 6		x 101.6 x 152.4	29.76
	x 4		x 101.6	27.53
	x 6		x 152.4	42.71
1	x 4 x 3	25.4	x 101.6 x 76.3	23.81
	x 4 x 6		x 101.6 x 152.4	35.12
	x 6		x 152.4	55.66
	x 6 x 4		x 152.4 x 101.6	45.54

Existence in GR50



Bearing Bar

Standard Specification ASTM A36, A709 y Q. Commercial

Theoretical Weights Table

Size		mm	Kg / m
Inches			
1/8*	x 1/2	3.2	x 12.7
	x 3/4		x 19.1
	x 1		x 25.4
	x 1 1/4		x 31.7
	x 1 1/2		x 38.1
3/16*	x 2	4.8	x 50.8
	x 1/2		x 12.7
	x 3/4		x 19.1
	x 1		x 25.4
	x 1 1/4		x 31.7
1/4	x 1 1/2	6.3	x 38.1
	x 2		x 50.8
	x 2 1/2		x 63.5
	x 1/2		x 12.7
	x 3/4		x 19.1
	x 1		x 25.4
	x 1 1/4		x 31.7
	x 1 1/2		x 38.1
	x 2		x 50.8
	x 2 1/2		x 63.5
5/16	x 3	7.9	x 76.2
	x 4		x 101.6
	x 5		x 127.0
	x 6		x 152.4
	x 8		x 203.2
	x 1 1/4		x 31.7
	x 1 1/2		x 38.1
	x 2		x 50.8
	x 2 1/2		x 63.5
	x 3		x 76.2
3/8	x 4	9.5	x 101.6
	x 6		x 152.4
	x 1		x 25.4
	x 1 1/4		x 31.7
	x 1 1/2		x 38.1
	x 2		x 50.8
	x 2 1/2		x 63.5
1/2	x 3	12.7	x 76.2
	x 4		x 101.6
	x 5		x 127.0
	x 6		x 152.4
	x 8		x 203.2
	x 10		x 254.0
5/8	x 1 1/2	15.9	x 38.1
	x 2		x 50.8
	x 2 1/2		x 63.5
	x 3		x 76.2
	x 4		x 101.6
3/4	x 5	19.1	x 127.0
	x 6		x 152.4
	x 8		x 203.2
	x 2		x 50.8
	x 2 1/2		x 63.5
1'	x 3	25.4	x 76.2
	x 4		x 101.6
	x 6		x 152.4
	x 8		x 203.2
	x 2		x 50.8

* Bearing Bar Slitter



Cross Bar

Standard Specification ASTM A36 y Q. Commercial

Theoretical Weights Table

Fraction	Size		kg / m
	mm	Inches	
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

Note: Round Polished available from 3/16



Square Bar

Norma ASTM A36 y Q. Commercial

Theoretical Weights Table

Fraction	Size		kg/m
	mm	Inches	
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

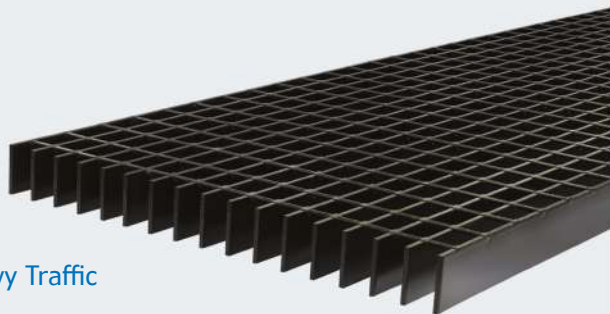
Steel Bar Grating

We are manufacturers of:

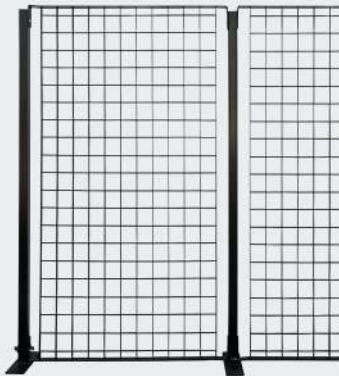
- Light Traffic

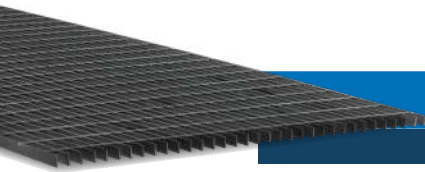


- Heavy Traffic



- Security Fences





Steel Bar Grating

(Light Duty)

Theoretical Weights Table

MODEL W19-100, W19-50						Carbon steel											
Camber Inch	Thick- ness Inch	Camber (mm)	Thick- ness (mm)	Approx. weight kg/m ²	Load	kg/m ² - cm deflexion in 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	1822.529	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	8.927	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	0.556	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: Permissible uniform load (in kg/m²)

DU: Deflection with uniform load (mm)








C: Permissible concentrated load (in kg/m)

DC: Deflection with concentrated load (mm)

Steel Bar Grating

(Heavy Duty)

Theoretical Weights Table

Bearing Bar														
	H-25 load		H-20 load		H-15 load		Auto Traffic		5 Ton Forklift		3 Ton Forklift		1 Ton Forklift	
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(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

Stair Steps

Galvanized Standard: ASTM 123 NAAMM MBG531-17

Theoretical Weights Table

Width (mm)	Flats		Maximum Length (Mm)	
	Thickness per Peralth		Smooth Surface	Dented Surface
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

Finish: natural, painted and galvanized.
Fence and Architectural Standard: Galvanized: ASTM 123 NAAMM MBG531-17

Finish: Natural, painted and galvanized.

If you do not find the required combination, please consult your sales agent.

Construction

- Rebar
- Rebar High Strength
- Welded Wire Mesh
- Ladder
- Wire Rod
- Annealed Wire
- Bard Wire
- Polished Wire
- Steel Wire, Galvanized



Rebar / Rebar High Strength

Standard Specification NMX-B-506 (R-42) and Standard Specification NMX-B-72 (R-6000)

Theoretical Weights Table

Size	Nominal Diameter		Area in cm ²	Perimeter in cm	Kg x ml	pieces per ton (approx)
	mm	inches				
**-	--	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					

Mechanical Properties of Tension (R-42)

Resistance to tension (minimum)	6,300 kg/cm ²
Resistance (minimum)	4,200 kg/cm ²

Minimum elongation in 200 mm:

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

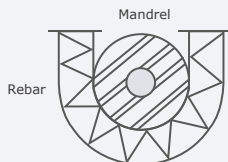
Mechanical Bending Properties (R-42)

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 = Nominal diameter of the specimen

At room temperature (16 ° minimum) under the following conditions:

- Making use of the right mandrel
- Applying a continuous and uniform force
- Keeping the product and mandrel together during bending





Welded Wire Mesh

Standard Specification NMX-B-253, NMX-B290

Theoretical Weights Table

Size	Thickness of wire	Weight (kg/m ²)	Roll	Sheet
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



Ladder

Standard Specification NMX-B-500

Theoretical Weights Table

Size	Width	Separation	Longe (m)	Thickness
10 - 02	7	25	3	10
12 - 02	9	25	3	10
15 - 02	12	25	3	10



Wire Rod

Standard Specification NMX-B-365

Theoretical Weights Table

Size	Inch	mm	Kg / m
1/4	0.25	6.35	0.249

Annealed Wire

Roll 60 to 70 kg per pc



Bard Wire

Theoretical Weights Table

Product	Thickness Wire	Thickness Bard	No. Tips	Separation Between Tips	Roll Length
				Inch	m
High Resistance	15.5	16.5	4	5	360
Bard wire 34	12.5	14	4	4	340 approx.



Polished Wire

Standard Specification NMX-B-366

Theoretical Weights Table

Tickness	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





Steel Wire Galvanized

Standard Specification ASTM A641

Theoretical Weights Table

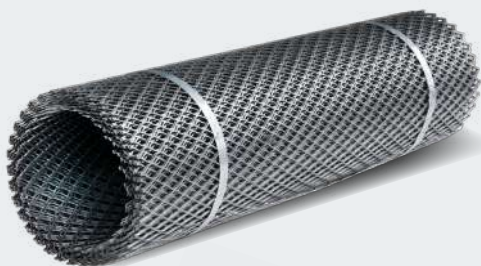
Diameter		Zinc minimum weight per unit area			kg/m
Thickness	Inches	mm	Size OZ/FT	III OZ/FT	
5	0.207"	5.25	0.53	1	0.167
6	0.192"	4.87	0.5	1	0.146
7	0.177"	4.49	0.44	0.9	0.124
8	0.162"	4.11	0.35	0.9	0.104
9	0.148"	3.76	0.35	0.9	0.087
10	0.135"	3.42	0.30	0.85	0.072
10 1/2	0.128"	3.25	0.30	0.85	0.065
11	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

Coating in galvanized wire class I and class III

Accessories



- Fence Panel



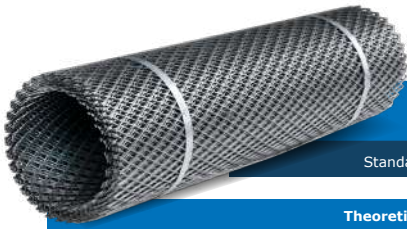
- Expanded Metal



- Nail



- Welding

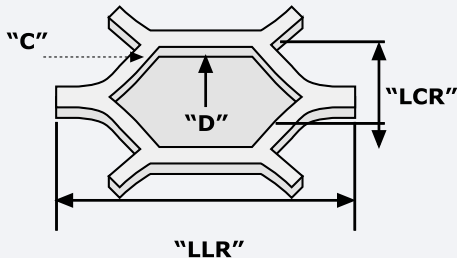


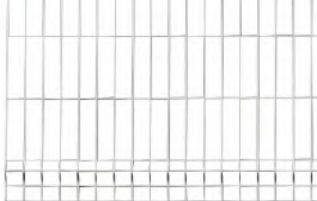
Expanded Metal

Standard Specification ASTM A36, A572 GR50

Theoretical weights table

Size	Tickness	Tickness (mm)	Weight Kg/m ²	Section (mm)	Mesh height (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





Fence Panel

Theoretical Weights Table

Height (m)	Panel			Post	
	Length (m)	Panel Clamps	Tickness	Dimensions (inches)	Tickness
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)

Nail

Standard Specification NMX-B-505



Theoretical Weights Table

Inches	mm	kg/box
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

Welding

Welding 1/8" 6013

Welding 1/8" 7018

Welding 3/32" 6013

Packaging: 20 kg box with 4 plastic bags of 5 kg each



Equivalents of fractions to decimals of inches and conversion to millimeters

Equivalents of fractions to decimals of inches and conversion to millimeters					
Fraction of inches	Decimals of inches	mm	Fraction of inches	Decimals of inches	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

Table of weights and measures

Linear	1	Centimeter	=	0.3937	Inches
	1	Inch	=	2.54	Centimeters
	1	Foot	=	3.048	Decimeters
	1	Yard	=	0.9544	Meters
	1	Kilometer	=	0.62137	Mile
	1	Mile	=	1.6094	Kilometers
Weight	1	Gram	=	0.03527	Ounces
	1	Ounce	=	28.35	Grams
	1	Kilogram	=	2.2046	Pounds
	1	Pounds	=	0.4536	Kilograms
Area	1	Square Inch	=	6.452	Square Centimeters
	1	Square Foot	=	0.093	Square Meter
	1	Square Meter	=	1.196	Square Yards
	1	Acre	=	4047	Square Meter
	1	Square Kilometer	=	0.386	Square Mile
	1	Square Mile	=	2.59	Square Kilometers
Volume	1	Cubic Centimeter	=	0.061	Cubic Inch
	1	Cubic Inch	=	16.39	Cubic Centimeter
	1	Cubic Foot	=	0.28	Cubic Meter
	1	Cubic Yard	=	0.7646	Cubic Meter
	1	Cubic Meter	=	0.2759	Cord.



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