Hot Rolled Strip Commercial Quality

A - 1011

Size in Inches	Weight Lbs. Per Foot	20 Ft. Length
1/8 x 1/2	.213	4.26
3/4	.319	6.38
1	.425	8.50
1 1/4	.531	10.62
1 1/2	.638	12.76
2	.850	17.00
2 1/2	1.063	21.26
3	1.275	25.50
4	1.700	34.00
5	2.125	42.50
6	2.550	51.00
3/16 x 1/2	.319	6.38
3/4	.478	9.56
1	.638	12.76
1 1/4	.797	15.94
1 1/2	.956	19.12
2	1.275	25.50
2 1/2	1.594	31.88
3	1.913	38.26
4	2.550	51.00
5	3.188	63.76
5 1/2	3.506	70.12
6	3.825	76.50
8	5.100	102.00
10	6.380	127.50
12	7.660	153.20

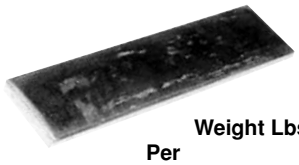
* **Commercial quality** low carbon (15 max) good ductility easy to fabricate and weld. Used for ornamental iron work banding strapping and other general uses where cold forming is required.

Hot Rolled Carbon Flats

ASTM A-36

Size in Inches	Weight Lbs. Per Foot	20 Ft. Length
1/4 x 1/2	.425	8.50
3/4	.638	12.76
1	.850	17.00
1 1/4	1.063	21.26
1 1/2	1.275	25.50
2	1.700	34.00
2 1/2	2.125	42.50
3	2.550	51.00
3 1/2	2.975	59.50
4	3.400	68.00
4 1/2	3.830	76.60
5	4.250	85.00
6	5.100	102.00
8	6.800	136.00
10	8.508	170.16
12	10.210	204.20

Hot Rolled Carbon Flats



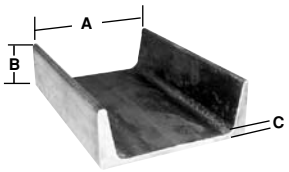
ASTM A-36

Size in Inches	Weight Lbs. Per Foot	20 Ft. Length
5/16 x 4	4.250	85.00
x 6	6.375	127.50
x 8	8.500	170.00
3/8 x 1	1.275	25.50
1 1/4	1.594	31.88
1 1/2	1.913	38.26
2	2.550	51.00
2 1/2	3.188	63.76
3	3.825	76.50
3 1/2	4.463	89.26
4	5.100	102.00
5	6.375	127.50
6	7.650	153.00
8	10.200	204.00
10	12.76	255.20
12	15.31	306.20
1/2 x 1	1.700	34.00
1 1/2	2.550	51.00
2	3.400	68.00
2 1/2	4.250	85.00
3	5.100	102.00
3 1/2	5.950	119.00
4	6.800	136.00
5	8.500	170.00
6	10.200	204.00
8	13.600	272.00
9	15.320	306.40
10	17.02	340.40
12	20.42	408.40
5/8 x 2	4.250	85.00
2 1/2	5.313	106.30
3	6.375	127.50
4	8.500	170.00
5	10.630	212.60
6	12.75	255.00
3/4 x 1 1/2	3.825	76.50
2	5.100	102.00
2 1/2	6.375	127.50
3	7.650	153.00
4	10.200	204.00
5	12.750	255.00
6	15.300	306.00
8	20.400	408.00
10	25.500	510.00
12	30.600	612.00
1 x 2	6.800	136.00
3	10.200	204.00
4	13.600	272.00
5	17.000	340.00
6	20.400	408.00
8	27.200	544.00
10	34.000	680.00
12	40.800	816.00

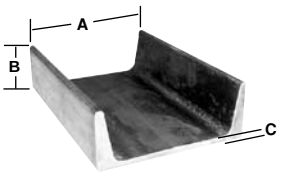
* These hot rolled steel bars, flats, rounds, and squares, are M-1020 or ASTM A-36. They are of a low carbon grade with good overall mechanical properties.

Used for general purpose structural and miscellaneous applications that involve cold bending, hot forming, welding and punching. Mill test reports of some sizes are available on request.

Channels – Bar Sizes



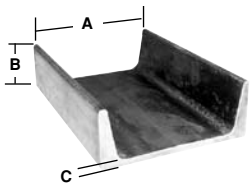
Size in Inches A x B x C	Estimated Weight, Lbs. Per Foot	Per Length
1 x 1/2 x 1/8	.80	16.0
1 1/4 x 1/2 x 1/8	1.00	20.0
1 1/2 x 1/2 x 1/8	1.12	22.4
2 x 1/2 x 1/8	1.34	26.8
2 x 1 x 1/8	1.59	31.8
2 x 1 x 3/16	2.32	46.4



Miscellaneous Channels
Structural Sizes Junior Channels

AISI Designation Depth in Inches Pounds Per Foot	A Width in Inches	B Flange Depth Inches	C Web Thickness Inches
MC3 x 3.5 x 20’	3	1.35	.130
MC3 x 3.5 x 40’	3	1.35	.130
MC4 x 4.5 x 20’	4	1.56	.140
MC4 x 4.5 x 40’	4	1.56	.140
MC10 x 8.4 x 20’	10	1.500	.170
MC10 x 8.4 x 40’	10	1.500	.170
MC12 x 10.6 x 20’	12	1.500	.190
MC12 x 10.6 x 40’	12	1.500	.190

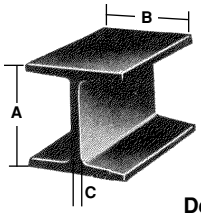
* **Structural Shapes** are commonly riveted, bolted or welded when used for general structural purposes in buildings, bridges, and support columns. The American Iron and Steel Institute designates structural shapes with a prefix letter or letters preceeding the size and weight per foot.



Channels — Structural Sizes

ASTM A-36

AISI Designation Depth in In. & Lbs. Per Foot	A Width In Inches	B Flange Depth Inches	C Web Thickness Inches
C3 x 4.1 x 20’	3	1.410	.170
40’	3	1.410	.170
C3 x 5 x 20’	3	1.498	.258
40’	3	1.498	.258
C4 x 5.4 x 20’	4	1.580	.180
40’	4	1.580	.180
C4 x 7.25 x 20’	4	1.720	.320
40’	4	1.720	.320
C5 x 6.7 x 20’	5	1.750	.190
40’	5	1.750	.190
C5 x 9 x 20’	5	1.885	.325
40’	5	1.885	.325
C6 x 8.2 x 20’	6	1.920	.200
40’	6	1.920	.200
C6 x 10.5 x 20’	6	2.034	.314
40’	6	2.034	.314
C6 x 13 x 20’	6	2.157	.437
40’	6	2.157	.437
C7 x 9.8 x 20’	7	2.090	.210
40’	7	2.090	.210
C8 x 11.5 x 20’	8	2.260	.220
30’	8	2.260	.220
40’	8	2.260	.220
C8 x 13.75 x 40’	8	2.343	.303
C9 x 13.4 x 20’	9	2.430	.230
40’	9	2.430	.230
C10 x 15.3 x 20’	10	2.600	.240
40’	10	2.600	.240
C10 x 20 x 20’	10	2.739	.379
40’	10	2.739	.379
C12 x 20.7 x 20’	12	2.940	.280
40’	12	2.940	.280



Wide Flange (W) Beams

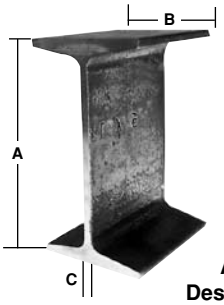
ASTM A-36

AISI Designation Depth in In. & Lbs. Per Foot	A Depth In Inches	B Flange Width Inches	C Web Thickness Inches
W4 x 13 x 20’	4.16	4.060	.280
13 x 40’	4.16	4.060	.280
W5 x 16 x 20’	5.00	5.000	.240
16 x 40’	5.00	5.000	.240
W6 x 9 x 20’	5.90	3.940	.170
9 x 40’	5.90	3.940	.170
12 x 20’	6.00	4.000	.230
12 x 40’	6.00	4.000	.230
15 x 20’	5.99	5.990	.230
15 x 40’	5.99	5.990	.230
20 x 20’	6.20	6.020	.260
20 x 40’	6.20	6.020	.260
25 x 20’	6.38	6.080	.320
25 x 40’	6.38	6.080	.320
W8 x 10 x 20’	7.89	3.940	.170
10 x 40’	7.89	3.940	.170
13 x 20’	7.99	4.000	.230
13 x 40’	7.99	4.000	.230
18 x 20’	8.14	5.250	.230
18 x 40’	8.14	5.250	.230
21 x 20’	8.28	5.270	.250
21 x 40’	8.28	5.270	.250
24 x 20’	7.93	6.495	.245
24 x 40’	7.93	6.495	.245
28 x 20’	8.06	6.535	.285
28 x 40’	8.06	6.535	.285
31 x 20’	8.00	7.995	.285
31 x 40’	8.00	7.995	.285
35 x 20’	8.12	8.027	.315
35 x 40’	8.12	8.027	.315
40 x 40’	8.25	8.070	.360
W10 x 12 x 40’	9.87	3.960	.190
15 x 20’	9.99	4.000	.230
15 x 40’	9.99	4.000	.230
22 x 20’	10.17	5.750	.240
22 x 40’	10.17	5.750	.240
26 x 20’	10.33	5.770	.260
26 x 40’	10.33	5.770	.260
77 x 40’	10.60	10.19	.530
W12 x 14 x 20’	11.91	3.970	.200
14 x 40’	11.91	3.970	.200
16 x 20’	11.99	3.99	.220
16 x 40’	11.99	3.99	.220
19 x 20’	12.16	4.010	.240
19 x 40’	12.16	4.010	.240
26 x 20’	12.22	6.490	.230
26 x 40’	12.22	6.490	.230
35 x 20’	12.50	6.560	.300
35 x 40’	12.50	6.560	.300
40 x 20’	11.94	8.005	.295
40 x 40’	11.94	8.005	.295
W14 x 22 x 20’	13.72	5.00	.230
22 x 40’	13.72	5.00	.230
30 x 20’	13.86	6.73	.270
30 x 40’	13.86	6.73	.270
53 x 40’	13.92	8.06	.370
W16 x 26 x 20’	15.65	5.50	.250
26 x 40’	15.65	5.50	.250
W18 x 35 x 20’	17.71	6.00	.300
35 x 40’	17.71	6.00	.300
50 x 40’	17.99	7.495	.355
W24 x 55 x 40’	23.57	7.005	.395

Miscellaneous “M” Beams— Structural Sizes Junior Beams

ASTM A-36

M6 x 4.4 x 20’			
M6 x 4.4 x 40’	6.00	1.875	.114
M8 x 6.5 x 20’			
M8 x 6.5 x 40’	8.00	2.250	.135
M10 x 9 x 20’			
M10 x 9 x 40’	10.00	2.750	.155
M12 x 11.8 x 20’			
M12 x 11.8 x 40’	12.00	3.000	.175



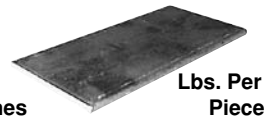
Standard “I” Beams— Structural Sizes

ASTM A-36

AISI Designation Depth in In. & Lbs. Per Foot	A Depth In Inches	B Flange Width Inches	C Web Thickness Inches
S3 x 5.7 x 20’	3	2.330	.170
S3 x 5.7 x 40’			
S4 x 7.7 x 20’	4	2.660	.190
S4 x 7.7 x 40’			
S5 x 10 x 20’	5	3.000	.210
S5 x 10 x 40’			
S6 x 12.5 x 20’	6	3.330	.230
S6 x 12.5 x 40’			
S6 x 17.25 x 20’	6	3.565	.465
S6 x 17.25 x 40’			
S8 x 18.4 x 20’	8	4.000	.270
S8 x 18.4 x 40’			
S10 x 25.4 x 20’	10	4.660	.310
S10 x 25.4 x 40’			
S12 x 31.8 x 20’	12	5.000	.350
S12 x 31.8 x 40’			

Hot Rolled Sheets

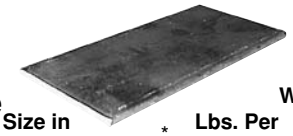
Grade A-1011



Size in Inches	Lbs. Per Piece
16 Ga. Approx.1/16” 2.5# Sq. Ft.	
48” x 96”	80.0
48” x 120”	100.0
48” x 144”	120.0
60” x 96”	100.0
60” x 120”	125.0
14 GA 3.125# Sq. Ft.	
48” x 96”	100.0
48” x 120”	125.0
48” x 144”	150.0
60” x 96”	125.0
60” x 120”	156.3
60” x 144”	187.5
12 GA. 4.37# Sq. Ft., .104	
48” x 96”	140.0
48” x 120”	175.0
48” x 144”	210.0
48” x 240”	350.0
60” x 120”	218.8
60” x 240”	437.5
72” x 120”	262.5
72” x 144”	314.6
72” x 240”	525.0
11 GA. Approx. 5.00# Sq. Ft.	
48” x 96”	160.0
10 GA. Approx. 1/8” 5.625# Sq. Ft., .135	
48” x 96”	180.0
48” x 120”	225.0
48” x 144”	270.0
48” x 240”	450.0
60” x 96”	225.0
60” x 120”	281.3
60” x 240”	563.0
72” x 120”	337.5
72” x 144”	405.0
72” x 240”	675.0

* Hot Rolled Sheets are ductile enough to withstand simple bending and forming without cracking along the outside radius of a bend. They are used to construct various agricultural, automotive and equipment parts.

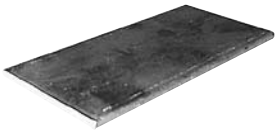
Carbon Steel Plate



Size in Inches	* Lbs. Per Square Foot	Weight Lbs. Lbs. Per Piece
3/16" x 48" x 96"	7.66	245.1
3/16" x 48" x 120"		306.4
3/16" x 48" x 240"		612.8
3/16" x 60" x 120"		383.0
3/16" x 60" x 240"		766.0
3/16" x 72" x 120"		459.6
3/16" x 72" x 144"		551.52
3/16" x 72" x 240"		919.2
3/16" x 96" x 240"		1,225.6
1/4" x 48" x 96"	10.21	326.7
1/4" x 48" x 120"		408.4
1/4" x 48" x 240"		816.8
1/4" x 60" x 96"		408.4
1/4" x 60" x 120"		510.5
1/4" x 60" x 240"		1,021.0
1/4" x 72" x 120"		612.6
1/4" x 72" x 144"		735.12
1/4" x 72" x 240"		1,225.2
1/4" x 84" x 120"		714.70
1/4" x 96" x 240"		1,633.6
5/16" x 48" x 96"	12.76	408.3
5/16" x 48" x 120"		510.4
5/16" x 48" x 240"		1,020.8
5/16" x 60" x 240"		1,276.0
5/16" x 72" x 240"		1,531.2
5/16" x 96" x 240"		2,041.6
3/8" x 48" x 96"	15.31	489.9
3/8" x 48" x 120"		612.4
3/8" x 48" x 240"		1,224.8
3/8" x 60" x 120"		765.5
3/8" x 60" x 240"		1,531.0
3/8" x 72" x 120"		918.6
3/8" x 72" x 240"		1,837.2
3/8" x 96" x 240"		2,449.6
1/2" x 48" x 96"	20.42	653.4
1/2" x 48" x 120"		816.8
1/2" x 48" x 240"		1,633.6
1/2" x 60" x 120"		1,021.0
1/2" x 60" x 240"		2,042.0
1/2" x 72" x 120"		1,225.2
1/2" x 72" x 240"		2,450.4
1/2" x 96" x 240"		3,267.2
5/8" x 72" x 240"	25.52	3,062.4
5/8" x 96" x 240"	25.52	4,084.8
3/4" x 48" x 96"	30.63	980.2
3/4" x 60" x 240"	30.63	3,063.0
3/4" x 72" x 240"	30.63	3,675.6
3/4" x 96" x 240"	30.63	4,900.8
1" x 48" x 96"	40.84	1,305.8
1" x 60" x 240"	40.84	4,084.0
1" x 72" x 240"	40.84	4,900.8
1" x 96" x 240"	40.84	6,534.4
1 1/8" x 96" x 240"	45.94	7,350.4
1 1/4" x 96" x 240"	51.05	8,168.0
1 1/2" x 60" x 480"	61.26	12,252.00
1 1/2" x 96" x 240"	61.26	9,801.6
1 3/4" x 96" x 240"	71.47	11,435.2
2" x 96" x 240"	81.68	13,068.8
2 1/4" x 96" x 240"	91.89	14,072.4
2 1/2" x 96" x 240"	102.10	16,336.0
2 3/4" x 96" x 240"	112.30	17,968.0
3" x 96" x 240"	122.52	19,603.2

Carbon Steel Plate is used for a variety of structural applications including bridges, ships, containers, storage tanks, machinery, and buildings. It is machineable and highly weldable.

Abrasion Resistant (AR) Carbon Steel Plates



Brinell Hardness 200 to 225

Size	Lbs. Per Sq. Foot	Lbs. Per Piece
3/16" x 72" x 120"	7.66	459.6
3/16" x 72" x 240"		919.2
3/16" x 96" x 240"		1,255.6
1/4" x 72" x 120"	10.21	612.6
1/4" x 72" x 240"		1,225.2
1/4" x 96" x 240"		1,633.6
3/8" x 72" x 120"	15.32	919.2
3/8" x 72" x 240"		1,838.4
3/8" x 96" x 240"		2,451.2
1/2" x 72" x 120"	20.42	1,225.2
1/2" x 72" x 240"		2,450.4
1/2" x 96" x 240"		3,267.2
3/4" x 72" x 120"	30.63	1,837.8
3/4" x 72" x 240"		3,675.6
3/4" x 96" x 240"		4,900.8
1" x 72" x 120"	40.84	2,450.4
1" x 72" x 240"		4,900.8
1" x 96" x 240"		6,534.4

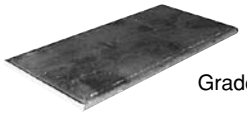
* Abrasion Resistant Plate has an increased yield strength and a resistance to penetration and wear.It can be welded with some difficulties. Applications include: cutting teeth, blades, aggregate crushers, liners, mixers, loaders and other harsh environments subject to severe wear.

Pressure Vessel Quality Plate

A516 grade 70

Size in Inches	Weight Lbs. Lbs. Per Square Foot	Lbs. Per Piece
1/4" x 8' x 20'	10.21	1,633.60
3/8" x 8' x 20'	15.31	2,449.60
1/2" x 8' x 20'	20.42	3,267.20
5/8" x 8' x 20'	25.52	4,083.20
3/4" x 8' x 20'	30.63	4,900.80
7/8" x 8' x 20'	35.74	5,718.40
1" x 8' x 20'	40.84	6,534.40
1 1/2" x 8' x 40'	61.26	19,603.20

Construction Alloy Plate (T-1 Plate)



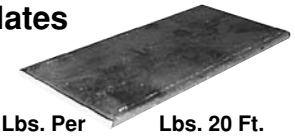
Grade A-514

Brinell Hardness Approx. 235

Quenched and tempered high strength alloy steel with a yield strength nearly 3 times that of A36 carbon steel plate. Used extensively for component parts and as liners for construction equipment, mining machinery, truck bodies, chutes, and wear plates.

Size in Inches	Weight Lbs. Lbs. Per Square Foot	Lbs. Per Piece
3/16" x 96" x 240"	7.66	1,225.60
1/4" x 96" x 240"	10.21	1,633.60
3/8" x 96" x 240"	15.31	2,449.60
1/2" x 96" x 240"	20.42	3,267.20
3/4" x 96" x 240"	32.63	4,900.80

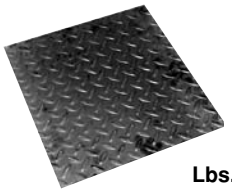
High Strength/Low Alloy Plates



A-572 Grade 50

Size in Inches	Lbs. Per Square Foot	Lbs. 20 Ft. Length
1/4 x 96" x 240"	10.21	1,633.66
5/16 x 96" x 240"	12.76	2,041.60
3/8 x 96" x 240"	15.31	2,449.60
1/2 x 96" x 240"	20.42	3,267.20

Floor Plates



4 Way Medium Pattern
Commercial Quality

Size	Lbs. Per Square Foot	Lbs. Per Piece
14 Ga. x 48" x 96"	3.75	120.0
x 48" x 120"	3.75	150.0
12 Ga. x 48" x 96"	5.25	168.0
x 48" x 120"		210.0
1/8" x 48" x 96"	6.15	196.8
1/8" x 48" x 120"		246.0
48' x 144"		295.2
x 48" x 240"		492.0
x 60" x 120"		307.5
x 60" x 240"		615.0
x 72" x 240"		738.0
3/16" x 48" x 96"	8.71	278.8
3/16" x 48" x 120"		348.4
x 48" x 240"		696.8
x 60" x 120"		435.5
x 60" x 240"		871.0
x 72" x 240"		1,045.2
1/4" x 48" x 96"	11.26	360 .4
1/4" x 48" x 120"		450.4
x 48" x 240"		900.8
x 60" x 120"		563.0
x 60" x 240"		1,126.0
1/4" x 72" x 120"		675.6
x 72" x 240"		1,351.2
x 96" x 240"		1,801.6
3/8" x 72" x 240"	16.35	1,962.0
96" x 240"		2,616.0
1/2" x 48" x 96"	21.45	686.4
1/2" x 72" x 240"		2,574.0

4 Way Medium Pattern Floor Plate provides a skid resistant surface for stairs, walkways, platforms and floors. The raised patterns run continuously regardless of plate orientation. Floor plate is easily welded, machined and drilled.

Hot Rolled Squares

ASTM A-36

Size in Inches	Weight Lbs. Per Foot	Weight Lbs. 20 Ft. Length
3/8	.478	9.56
1/2	.850	17.00
5/8	1.328	26.56
3/4	1.913	38.26
1	3.400	68.00

1018 Cold Drawn Carbon Squares

Number	Size in Inches	Weight Lbs. Per Foot	Weight Lbs. 12 Ft. Length
	3/16"	.1196	1.436
	1/4"	.2127	2.552
	5/16"	.3323	3.988
	3/8"	.4786	5.743
	7/16"	.6514	7.817
	1/2"	.850	10.20
	5/8"	1.328	15.94
	3/4"	1.913	22.96
	7/8"	2.603	31.24
	1"	3.400	40.80
	1 1/4"	5.313	63.76
	1 1/2"	7.650	91.80
	2"	13.600	163.20

ERW Structural Steel Tubing Square and Rectangular

ASTM A-500
A-513

Size	Wall/Ga.	Weight Per Ft.
1/2" x 1/2" x 24'	.065/16 ga	.36
3/4" x 3/4" x 24'	.065/16 ga	.61
1" x 1" x 24'	.065/16 ga	.83
1" x 1" x 24'	.083/14 ga	1.04
1" x 1" x 24'	.120/11 ga	1.44
1 1/4" x 1 1/4" x 24'	.083/14 ga	1.32
1 1/4" x 1 1/4" x 24'	.120/11 ga	1.84
1 1/2" x 1 1/2" x 24'	.065/16 ga	1.26
1 1/2" x 1 1/2" x 24'	.083/14 ga	1.60
1 1/2" x 1 1/2" x 24'	.120/11 ga	2.25
1 1/2" x 1 1/2" x 24'	.188/3/16"	3.22
2" x 1" x 24'	.083/14 ga	1.60
2" x 1" x 24'	.120/11 ga	2.25
2" x 2" x 24'	.065/16 ga	1.71
2" x 2" x 24'	.083/14 ga	2.10
2" x 2" x 24'	.120/11 ga	3.07
2" x 2" x 20'	.188/3/16"	4.49
2" x 2" x 24'	.188/3/16"	4.49
2" x 2" x 20'	.250/1/4"	5.41
2" x 2" x 24'	.250/1/4"	5.41
2" x 2" x 40'	.250/1/4"	5.41
2 1/2" x 2 1/2" x 24'	.120/11 ga	3.85
2 1/2" x 2 1/2" x 24'	.188/3/16"	5.59
2 1/2" x 2 1/2" x 20'	.250/1/4"	7.11
2 1/2" x 2 1/2" x 40'	.250/1/4"	7.11
3" x 1" x 24'	.120/11ga	3.05
3" x 1 1/2" x 24'	.083/14 ga	2.38
3" x 1 1/2" x 24'	.120/11 ga	3.48
3 x 2 x 20'	.120/11ga	3.90
3" x 2" x 24'	.120/11 ga	3.90
3" x 2" x 20'	.188/3/16"	5.59
3" x 2" x 24'	.188/3/16"	5.59
3" x 2" x 40'	.188/3/16"	5.59
3" x 2" x 20'	.250/1/4"	7.11
3" x 3" x 24'	.083/14 ga	4.70
3" x 3" x 24'	.120/11 ga	4.70
3" x 3" x 20'	.188/3/16"	6.87
3" x 3" x 24'	.188/3/16"	6.87
3" x 3" x 40'	.188/3/16"	6.87
3" x 3" x 20'	.250/1/4"	8.81
3" x 3" x 24'	.250/1/4"	8.81
3" x 3" x 40'	.250/1/4"	8.81
3" x 3" x .375 x 20'		12.5
3 1/2" x 3 1/2" x 40'	.250/1/4"	10.81
4" x 2" x 24'	.120/11 ga	4.75
4" x 2" x 20'	.188/3/16"	6.87
4" x 2" x 24'	.188/3/16"	6.87
4" x 2" x 40'	.188/3/16"	6.87
4" x 2" x 20'	.250/1/4"	8.80
4" x 2" x 40'	.250/1/4"	8.80
4" x 3" x 20'	.250/1/4"	10.51
4" x 4" x 24'	.083/14 ga	4.422
4" x 4"x 24'	.120/11 ga	6.330
4" x 4" x 20'	.188/3/16"	9.42
4" x 4" x 24'	.188/3/16"	9.42
4" x 4" x 40'	.188/3/16"	9.42
4" x 4" x 20'	.250/1/4"	12.51
4" x 4" x 40'	.250/1/4"	12.51
5" x 3" x 20'	.250/1/4"	12.21
5" x 5" x 40'	.250/1/4"	15.91
5" x 5" x .375 x 20'		22.37
6" x 2" x 20'	.188/3/16"	9.42
6" x 2" x 24'	.188/3/16"	9.42
6" x 2" x 40'	.188/3/16"	9.42
6 x 3 x 40'	.188/3/16"	10.07
6" x 3" x 20'	.250/1/4"	13.91
6" x 4" x 24'	.120/11 ga	8.16
6" x 4" x 40'	.188/3/16"	11.97
6" x 4" x 40'	.250/1/4"	15.62
6" x 6" x 40'	.250/1/4"	19.02

• **Structural Steel Tubing** is available in square and rectangular shapes in a wide variety of sizes. It combines strength with light weight and can be fabricated by all standard methods. It is used for braces, columns, supports and other structural members.

Red Oxide (Primed) Square Tubing

Size in Inches	Weight Per Foot
½" X ½" X 16GA	.38
1" X 1" X 16GA	.83
1¼" X 1¼" X 16GA	1.05
1½" X 1½" X 16GA	1.27
1" X 1" X 14GA	1.035
1¼" X1¼" X 14GA	1.317
1½" X1½" X 14GA	1.599
2" X 2" X 14GA	2.16
3" X 3" X 14GA	3.29

1018 Cold Finished Carbon Rounds

Size in Inches	Estimated Weight Lbs. Per Foot	20 Ft. Length
1/8"	.042	.504/12 Ft
3/16"	.094	1.88
1/4"	.167	3.34
5/16"	.261	5.22
3/8"	.376	7.52
7/16"	.511	10.22
1/2"	.668	13.36
9/16"	.845	16.90
5/8"	1.043	20.86
11/16"	1.262	25.24
3/4"	1.502	30.04
13/16"	1.763	35.26
7/8"	2.044	40.88
15/16"	2.347	46.94
1"	2.670	53.40
1 1/16"	3.014	60.28
1 1/8"	3.379	67.58
1 3/16"	3.766	75.32
1 1/4"	4.173	83.46
1 5/16"	4.604	92.08
1 3/8"	5.049	101.00
1 7/16"	5.518	110.40
1 1/2"	6.015	120.30
1 5/8"	7.051	141.00
1 11/16"	7.604	152.10
1 3/4"	8.178	163.60
1 7/8"	9.388	187.80
1 15/16"	10.020	200.40
2"	10.680	213.60
2 3/16"	12.780	255.60
2 1/4"	13.520	270.40
2 3/8"	15.060	301.20
2 7/16"	15.870	317.40
2 1/2"	16.690	333.80
2 3/4"	20.200	404.00
2 15/16"	23.040	460.80
3"	24.030	480.60
3 1/4"	28.23	564.60
3 7/16"	31.55	631.00
3 1/2"	32.710	654.20
3 3/4"	37.59	751.80
3 15/16"	41.44	828.80
4"	42.730	854.60
4 1/2"	54.080	1,081.60
5"	66.760	1,335.20

Cold Finished Shapes, both rounds and squares are provided by cold drawing oversized hot rolled bars to a required size. This type steel is weldable and machineable but is particularly well suited to hardening by heat treatment or carbonizing. Applications include gears, pins, and shafts

Hot Rolled Rounds

ASTM A-36

Size in Inches	Weight Lbs. Per Foot	20 Ft. Length
1/4	.167	3.34
5/16	.261	5.22
3/8	.376	7.52
1/2	.668	13.36
5/8	1.043	20.86
3/4	1.502	30.04
7/8	2.044	40.88
1	2.670	53.40
1 1/8	3.379	67.58
1 1/4	4.173	83.46
1 3/8	5.049	101.00
1 1/2	6.008	120.20
1 3/4	8.178	163.60
2	10.680	213.60
2 1/2	16.690	333.80

4142 Round Hot Rolled Alloy Bars Heat-Treated 285/341 Bhn

Random Lengths

Size In Inches	Weight Per Foot
5/8"	1.044
3/4"	1.504
7/8"	2.046
1"	2.673
1 1/4"	4.176
1 1/2"	6.014
1 3/4"	8.186
2"	10.69
2 1/4"	13.53
2 1/2"	16.71
2 3/4"	20.21
3"	24.06
3 1/2"	32.74
4"	42.77
4 1/2"	54.13
5"	66.82
5 1/2"	80.86
6"	96.22

1008 Industrial Quality Rounds

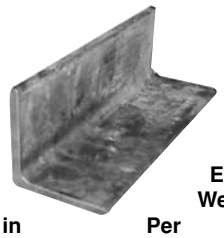
Size in Inches	Estimated Weight Lbs. Per Foot	20 Ft. Length
1/4" x 20'	.167	3.34
3/8" x 20'	.376	7.52
5/16" x 20'	.261	5.22
1/2" x 20'	.668	13.36

Galvanized Mild Steel Shapes

Size	Lbs. Per Sq. Foot	Lbs. Per 20 Ft. Length
1/2"	.701	14.02
5/8"	1.110	22.20
3/4"	1.590	31.80
7/8"	2.170	43.40
1"	2.830	56.60
Galvanized Bar Size Angles—20'-0"		
3/4" x 3/4" x 1/8"	.650	13.00
1 x 1 x 1/8"	.840	16.80
1 x 1 x 3/16"	1.220	24.40
1 1/2" x 1 1/2" x 1/8"	1.290	25.80
1 1/2" x 1 1/2" x 3/16"	1.890	37.80
1 1/2" x 1 1/2" x 1/4"	2.460	49.20
2 x 2 x 1/8"	1.750	35.00
2 x 2 x 3/16"	2.560	51.20
2 x 2 x 1/4"	3.350	67.00
2 1/2" x 2 1/2" x 1/4"	4.310	86.10

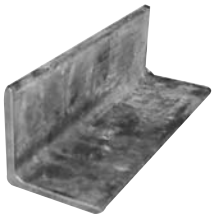
* Galvanized Shapes are hot dipped with a rich coating of zinc to insure long lasting protection from rusting and Corrosion. Special orders are custom galvanized to customer specification.

Angles – Bar Sizes



Angles, Bar Size
ASTM A-36

Size in Inches	Estimated Weight, Lbs. Per Foot	Lbs. Length
1/2 x 1/2 x 1/8 x 20'	.38	7.6
3/4 x 3/4 x 1/8 x 20'	.59	11.8
1 x 1 x 1/8 x 20'	.80	16.0
3/16 x 20'	1.16	23.2
1/4 x 20'	1.49	29.8
1 1/4 x 1 1/4 x 1/8 x 20'	1.01	20.2
3/16 x 20'	1.48	29.6
1/4 x 20'	1.92	38.4
1 1/2 x 1 1/2 x 1/8 x 20'	1.23	24.6
3/16 x 20'	1.80	36.0
1/4 x 20'	2.34	46.8
1 3/4 x 1 3/4 x 1/8 x 20'	1.44	28.8
3/16 x 20'	2.12	42.4
1/4 x 20'	2.77	55.4
2 x 1 1/2 x 1/8 x 20'	1.44	28.8
3/16 x 20'	2.12	42.4
1/4 x 20'	2.77	55.4
2 x 2 x 1/8 x 20'	1.65	33.0
1/8 x 40'	1.65	66.0
3/16 x 20'	2.44	48.8
3/16 x 40'	2.44	
1/4 x 20'	3.19	63.8
2 x 2 x 1/4 x 40'	3.19	127.6
3/8 x 20'	4.70	94.0
2 1/2 x 1 1/2 x 3/16 x 40'	2.44	97.6
2 1/2 x 2 x 3/16 x 20'	2.75	55.0
1/4 x 20'	3.62	72.4
2 1/2 x 2 1/2 x 3/16 x 20'	3.07	61.4
1/4 x 20'	4.10	82.0
1/4 x 40'	4.10	164.0
3/8 x 20'	5.90	118.0

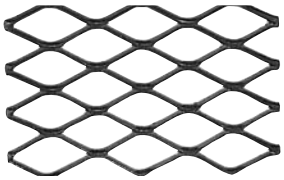


Angles — Structural Sizes

ASTM A-36

Size in Inches	Weight Per Foot	Lbs.. Length
3 x 2 x 3/16 x 20'	3.07	61.4
3/16 x 40'	3.07	122.8
1/4 x 20'	4.10	82
5/16 x 20'	5.00	100
3/8 x 20'	5.90	118
3 x 2 1/2 x 1/4 x 20'	4.50	90
3/8 x 20'	6.60	132
3 x 3 x 3/16 x 20'	3.71	74.2
3/16 x 40'	3.71	148.4
1/4 x 20'	4.90	98
1/4 x 40'	4.90	196
5/16 x 20'	6.10	122
3/8 x 20'	7.20	144
1/2 x 20'	9.40	188
3 1/2 x 2 1/2 x 1/4 x 20'	4.90	98
3 1/2 x 3 x 1/4 x 20'	5.40	108
3 1/2 x 3 x 3/8 x 20'	7.90	158
3 1/2 x 3 1/2 x 1/4 x 20'	5.80	116
3/8 x 20'	8.50	170
4 x 3 x 1/4 x 20'	5.80	116
1/4 x 40'	5.80	232
5/16 x 20'	7.20	144
5/16 x 40'	7.20	288
3/8 x 20'	8.50	170
3/8 x 40'	8.50	340
4 x 4 x 1/4 x 20'	6.60	132
1/4 x 40'	6.60	264
3/8 x 20'	9.80	196
3/8 x 40'	9.80	392
1/2 x 20'	12.80	256
1/2 x 40'	12.80	512
5 x 3 x 1/4 x 20'	6.6	132
x 1/4 x 40'	6.6	264
5 x 3 x 5/16 x 20'	8.2	164
5 x 3 1/2 x 5/16 x 20'	8.7	174
5/16 x 40'	8.7	348
3/8 x 20'	10.4	208
3/8 x 40'	10.4	416
5 x 5 x 3/8 x 20'	12.3	246
3/8 x 40'	12.3	492
6 x 3 1/2 x 5/16 x 40'	9.8	392
3/8 x 40'	11.7	468
6 x 4 x 5/16 x 40'	10.3	412
3/8 x 40'	12.3	492
1/2 x 20'	16.2	324
1/2 x 40'	16.2	648
6 x 6 x 3/8 x 40'	14.9	596
1/2 x 40'	19.6	784
7 x 4 x 3/8 x 20'	13.6	272
1/2 x 40'	17.9	716

Expanded Metals

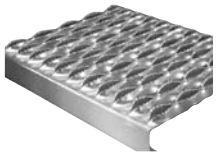


Description	Size Sheet	Wgt. Per Sq. Ft.
Standard Pattern (Raised)		
3/4" - #9	4' x 8'	1.80#
3/4" - #9	6' x 8'	1.80#
1 1/2" - #9	4' x 8'	1.20#
1 1/2" - #6	4' x 8'	2.50#
1 1/2" - #6	6' x 8'	2.50#
Flattened		
1/2" - #16	4' x 8'	.82#
1/2" - #13	4' x 8'	1.40#
3/4" - #16	4' x 8'	.51#
3/4" - #13	4' x 8'	.75#
3/4" - #9	4' x 8'	1.71#
3/4" - #9	5' x 10'	14.71#
1" - #16	4' x 8'	.41#
1 1/2" - #16	4' x 8'	.38#
1 1/2" - #13	4' x 8'	.57#
1 1/2" - #9	4' x 8'	1.14#
Expanded Metal Grating		
4#	4' x 8'	4.00#
4.27#	4' x 8'	4.27#
	4' x 12'	4.27#
5#	4' x 8'	5.00#
Catwalk Grating		
3.00#	10' x 2'	3.00#
3.00#	10' x 3'	3.00#
4.27#	10' x 2'	4.27#
4.27#	10' x 3'	4.27#

Expanded Metal is formed by slitting and pulling standard sheets to create a diamond pattern of strands and bonds. It is available in standard and flattened configuration. Primary uses are structural applications, grates, partitions and enclosures.

Galvanized, aluminum and stainless steel expanded metal available on request.

Diamond-Grip® Safety Grating



ASTM A-526 G90 (2-75)

Width	Channel Heigth	Wgt. Per Ft.
14 Gauge		
4 3/4"	1 1/2"	2.3#
9 1/2"	1 1/2 "	3.5#
11 3/4"	1 1/2"	4.1#
24"	2"	7.6#
24"	4 1/2"	8.9#
12 Gauge		
9 1/2"	1 1/2"	4.8#
11 3/4"	1 1/2"	5.7#
24"	2"	10.8#

Diamond-Grip® is a one piece metal plank-type grating manufactured by a cold forming process in the shape of a channel. The walking surface has rough serrated edges around diamond shaped openings. Diamond openings are complete with radius corners at the saddle and side channel locations.

Grip Strut® Grating Galvanized

Width	Channel Ht.	Dia-monds	Wgt./Ft.
14 Gauge			
4 3/4"	1 1/2"	2	2.3#
7"	1 1/2 "	3	3.0#
9 1/2"	1 1/2"	4	3.6#
11 3/4"	1 1/2"	5	4.2#
18 3/4"	1 1/2"	8	6.1#
24"	2"	10	7.4#
24"	4 1/2"	10	8.9#
12 Gauge			
9 1/2"	1 1/2"	4	5.0#
11 3/4"	1 1/2"	5	5.9#
18 3/4"	1 1/2"	8	8.5#
24"	2"	10	10.4#
Heavy Duty 10 Gauge			
36"	2"	8	19.9#

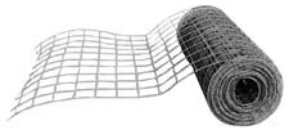
Welded Steel Bar Grating

Size	Spacing	Width	Weight Sq. Ft.
Unpainted - Plain Bearing Bars			
1/8" x 1"	19W4	24"	4.9
1/8" x 1"	19W4	36"	4.9
3/16"x 1"	19W4	24"	7.1
3/16" x 1"	19W4	36"	7.1
3/16" x 1 1/4"	19W4	24"	8.7
3/16" x 1 1/4"	19W4	36"	8.7
HOT DIP GALVANIZED - Plain Bearing Bars			
1/8" x 1"	19W4	24"	5.2
3/16" x 1"	19W4	24"	7.8
3/16" x 1 1/2"	19W4	36"	10.5
Unpainted - Serrated Bearing Bars			
3/16" x 1"	19W4	36"	7.1
Hot Dip Galvanized - Serrated Bearing Bars			
3/16" x 1"	19W4	36"	7.8
SADDLE CLIPS - FOR ABOVE GRATING			
3/16" and 1/8"			

Bolt or self tap screw not included with saddle clip. 19W4 Spacing Has the bearing bars on 1 3/16" Centers and the 1/4" Cross bars on 4" centers.

Welded Steel Grating can be supplied either unpainted or galvanized to customer requirements. Special requests for unusual sizes can be filled. Also serrated or smooth top.

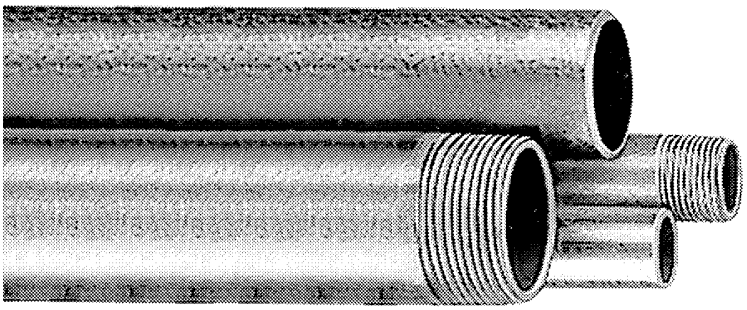
Reinforcing Wire Mesh



ASTM - A185

Plain Wire Mesh

Size	Width	Length	Wt. Per 100 Sq. Ft.
6 x 6 6/6 (6 ga.)	5'	150' - 0"	42#
New Designation 6 x 6 W2.9 x W2.9			
6 x 6 10/10 (10ga.)	5	150' - 0"	21#
New Designation 6 x 6 W1.4 x W1.4			



Domestic Galvanized Steel Pipe — Threaded & Coupled — 21’ Lengths, Schedule 40

This Pipe meets ASTM-A53 Type F Specifications.

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/8”	.405	.068	.24	420
1/4”	.540	.088	.42	420
3/8”	.675	.091	.57	420
1/2”	.840	.109	.85	420
3/4”	1.05	.113	1.13	420
1”	1.315	.133	1.68	420
1 1/4”	1.66	.140	2.28	600
1 1/2”	1.90	.145	2.73	600
2”	2.375	.154	3.68	600
2 1/2”	2.875	.203	5.82	600
3”	3.50	.216	7.62	600
3 1/2”	4.00	.226	9.20	720
4”	4.50	.237	10.89	720

Domestic Black Steel Pipe — Threaded & Coupled — 21’ Lengths, Schedule 40

This Pipe meets ASTM-A53 Type F Specifications.

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/8”	.405	.068	.24	420
1/4”	.540	.088	.42	420
3/8”	.675	.091	.57	420
1/2”	.840	.109	.85	420
3/4”	1.05	.113	1.13	420
1”	1.315	.133	1.68	420
1 1/4”	1.66	.140	2.28	600
1 1/2”	1.90	.145	2.73	600
2”	2.375	.154	3.68	600
2 1/2”	2.875	.203	5.82	600
3”	3.50	.216	7.62	600
4”	4.50	.237	10.89	720

Domestic Black Steel Pipe — Bevel Ends — 21’ Lengths, Schedule 40

ASTM-A53 Type F

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/4”	.540	.088	.42	420
3/8”	.675	.091	.57	420
1/2”	.840	.109	.85	420
3/4”	1.05	.113	1.13	420
1”	1.315	.133	1.68	420
1 1/4”	1.66	.140	2.27	600
1 1/2”	1.90	.145	2.72	600
2”	2.375	.154	3.65	600
2 1/2”	2.875	.203	5.79	600
3”	3.50	.216	7.58	600
3 1/2”	4.00	.226	9.11	720
4”	4.50	.237	10.79	720

Domestic Galvanized Steel Pipe – Reamed & Drifted, Threaded & Coupled — 21’ Lengths, Schedule 40

ASTM-A53 Type F

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
2”	2.375	.154	3.75	600
2 1/2”	2.875	.203	5.90	600
3”	3.50	.216	7.70	600

Round Tubing
(Equivalent to Sch 10 Pipe Sizes)

OD in in.	Wall Thickness	Length
1.66	.110	24’
2.375	.105	24’
2.875	.145	24’

Import Steel Bare (No Mill Coating) Pipe — Beveled Ends — 21’ Lengths, Schedule 40

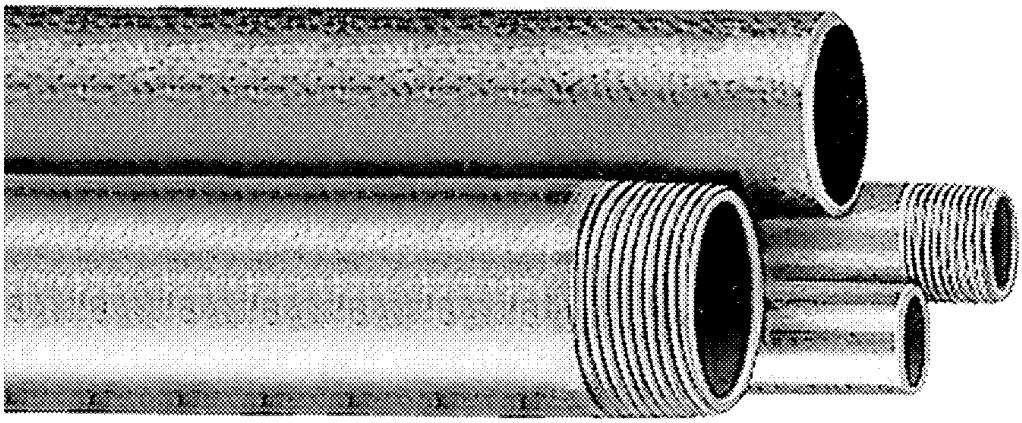
ASTM-A53 Grade A

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
3/4”	1.05	.113	1.13	420
1”	1.315	.133	1.68	420
1 1/4”	1.66	.14	2.27	600
1 1/2”	1.9	.145	2.72	600
2	2.375	.154	3.65	600

Imported Galvanized Steel Pipe Threaded & Coupled — 21’ Lengths, Schedule 40

ASTM-A53 Grade A

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/2”	.84	.109	.85	420
3/4”	1.05	.113	1.13	420
1”	1.315	.133	1.68	420
1 1/4”	1.66	.140	2.28	600
1 1/2”	1.90	.145	2.73	600
2”	2.375	.154	3.68	600
2 1/2”	2.875	.203	5.82	600
3”	3.50	.216	7.62	600
4”	4.50	.237	10.89	750
6”	6.625	.280	18.97	912



Imported Black Steel Pipe Threaded & Coupled — 21' Lengths — Schedule 40 Pipe Ends

ASTM-A53 Grade A

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/2"	.84	.109	.85	420
3/4"	1.05	.113	1.13	420
1"	1.315	.133	1.68	420
1 1/4"	1.66	.140	2.28	600
1 1/2"	1.900	.145	2.72	600
2"	2.375	.154	3.65	600
3"	3.50	.216	7.58	720
4"	4.50	.237	10.79	720

Imported Black Steel Pipe Beveled Ends — 21' Lengths — Schedule 40

ASTM-A53 Grade A

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/2"	.84	.109	.85	420
3/4"	1.05	.113	1.13	420
1"	1.315	.133	1.68	420
1 1/4"	1.66	.140	2.27	600
1 1/2"	1.900	.145	2.72	600
2	2.375	.154	3.65	600
2 1/2"	2.875	.202	5.79	600
3"	3.50	.216	7.58	600
4"	4.50	.237	10.79	720

Imported Black Steel Pipe Standard Wall Thickness — Beveled Ends Stocked in Single Random

ASTM-A53 Grade A

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
5"	5.563"	.258	14.62	1670
6"	6.625"	.280	18.97	1900
8"	8.625"	.322	28.55	1680
10"	10.75"	.365	40.48	1530
12"	12.75"	.375	49.56	1320

Import Sch 80 Black PE — 21' Lengths

ASTM-A53 Type F

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/2"	.840	.147	1.09	510
3/4"	1.05	.154	1.47	510
1"	1.315	.179	2.17	510
1 1/4"	1.66	.191	3.00	780
1 1/2"	1.90	.200	3.63	780
2"	2.375	.218	5.02	780
2 1/2"	2.875	.276	7.66	780
3"	3.50	.300	10.25	780
4"	4.50	.337	14.98	1020
6"	6.625	.432	28.57	1410

Import Steel Seamless Pipe Random Lengths (SRL)* Schedule 40 Plain Ends A 106 Grade B

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/2"	.84	.109	.85	3743
3/4"	1.05	.113	1.13	3059
1"	1.315	.133	1.68	2847
1 1/4"	1.66	.140	2.28	2363
1 1/2"	1.90	.145	2.72	2119
2"	2.375	.154	3.65	1787
3"	3.50	.216	7.58	1693
4"	4.50	.237	10.79	1433
6"	6.625	.280	18.97	1332

Import Steel Seamless Pipe Random Lengths (SRL)* Schedule 80

(A106 Grade B)

Size	OD in in.	Wall Thickness	Weight Per Ft.	Max. Working Press.
1/2"	.84	.147	1.09	5252
3/4"	1.05	.154	1.47	4299
1"	1.315	.179	2.17	3960
1 1/4"	1.66	.191	3.00	3282
1 1/2"	1.90	.200	3.63	2983
2"	2.375	.218	5.02	2579
3"	3.50	.300	10.25	2398
4"	4.50	.337	14.98	2076
6"	6.625	.432	28.57	1680

* SRL - Single Random Lengths run between 18 and 22 feet in length