PRODUCTS CATALOG

EVERGLADES
STEEL
CORPORATION

SOUTH FLORIDA
LATIN AMERICA
CARIBBEAN

EVERGLADES
STEEL
CORPORATION

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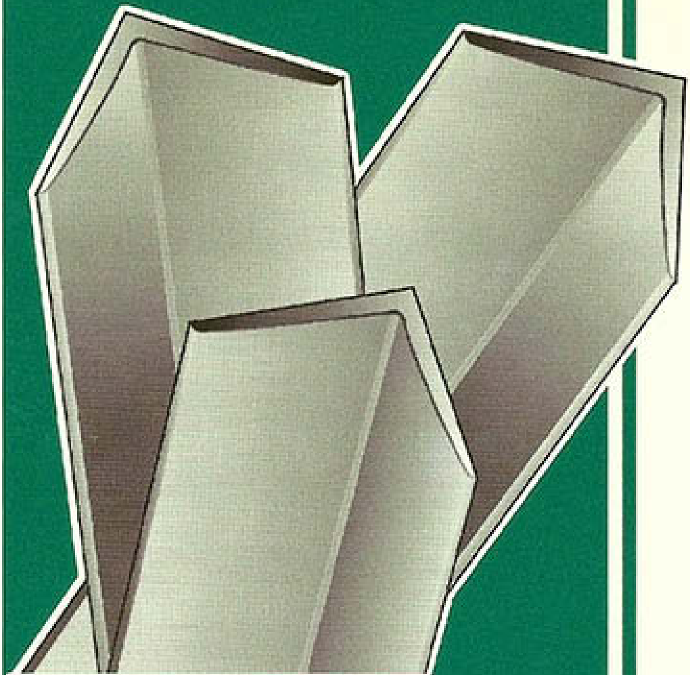
INTRODUCTION

Since 1974, Everglades Steel Corporation has been engaged in the wholesale distribution of steel and alloys in South Florida, the Caribbean, and Latin America. Our line of products range from structural steel such as beams, angles, channels, and tubing to specialized items such as galvanized pipes and sheets, expanded metal, bar gratings, and fittings. We are also involved in the distribution of a wide line of aluminum, stainless steel, brass, and copper products.

Our goal is to offer a wide variety of products at competitive prices with unbeatable service. Our extensive inventory and our fleet of vehicles allows us to provide fast and efficient delivery both locally and overseas. Through our years of experience and our knowledge of the industry we can readily provide any materials or products that may not be included in this catalogue.

EVERGLADES STEEL CORPORATION

ANGLES



CARBON STEEL ANGLES

BAR SIZE
STOCK LENGTHS: 20'
STRUCTURAL STOCK LENGTHS: 20', 40'

SIZE IN INCHES	Est. Wt. Lbs. Per. Ft.	SIZE IN INCHES	Est. Wt. Lbs. Per. Ft.
1/2 x 1/2 x 1/8	.38	x 3/8	6.60
3/4 x 3/4 x 1/8	.59	x 1/2	8.50
1 x 1 x 1/8	.80	3 x 3 x 3/16	3.71
x 3/16	1.16	x 1/4	4.90
x 1/4	1.49	x 5/16	6.10
1 1/4 x 1 1/4 x 1/8	1.01	x 3/8	7.20
x 3/16	1.48	x 1/2	9.40
x 1/4	1.92	3 1/2 x 2 1/2 x 1/4	4.90
1 1/2 x 1 1/2 x 1/8	1.23	x 5/16	6.10
x 3/16	1.80	x 3/8	7.20
x 1/4	2.34	x 1/2	9.40
1 3/4 x 1 3/4 x 1/8	1.44	3 1/2 x 3 x 1/4	5.40
x 3/16	2.12	x 5/16	6.60
x 1/4	2.77	x 3/8	7.90
2 x 1 1/2 x 1/8	1.44	x 1/2	10.20
x 3/16	2.12	3 1/2 x 3 1/2 x 1/4	5.80
x 1/4	2.77	x5/16	7.20
2 x 2 x 1/8	1.65	x 3/8	8.50
x 3/16	2.44	x 1/2	11.10
x 1/4	3.19	4 x 3 x 1/4	5.80
x 5/16	3.92	x 5/16	7.20
x 3/8	4.70	x 3/8	8.50
2 1/2 x 1 1/2 x 3/16	2.44	x 1/2	11.10
x 1/4	3.19	4 x 3 1/2 x 1/4	6.2
x 5/16	3.92	x 5/16	7.7
2 1/2 x 2 x 3/16	2.75	x 3/8	9.1
x 1/4	3.62	x 1/2	11.9
x 5/16	4.50	4 x 4 x1/4	6.6
x 3/8	5.30	x 5/16	8.2
2 1/2 x 2 1/2 x 3/16	3.07	x 3/8	9.8
x 1/4	4.10	x 1/2	12.8
x 5/16	5.00	x 5/8	15.7
x 3/8	5.90	x 3/4	18.5
x 1/2	7.70	5 x 3 x 1/4	6.6
STRUCTURAL		x 5/16	8.2
3 x 2 x 3/16	3.07	x 3/8	9.8
x 1/4	4.10	x 1/2	12.8
x 5/16	5.00	5 x 3 1/2 x 1/4	7.0
x 3/8	5.90	x 5/16	8.7
x 1/2	7.70	x 3/8	10.4
3 x 2 1/2 x 1/4	4.50	x 1/2	13.6
x 5/16	5.60	x 5/8	16.8
		x 3/4	19.8

(continued)

EVERGLADES
STEEL
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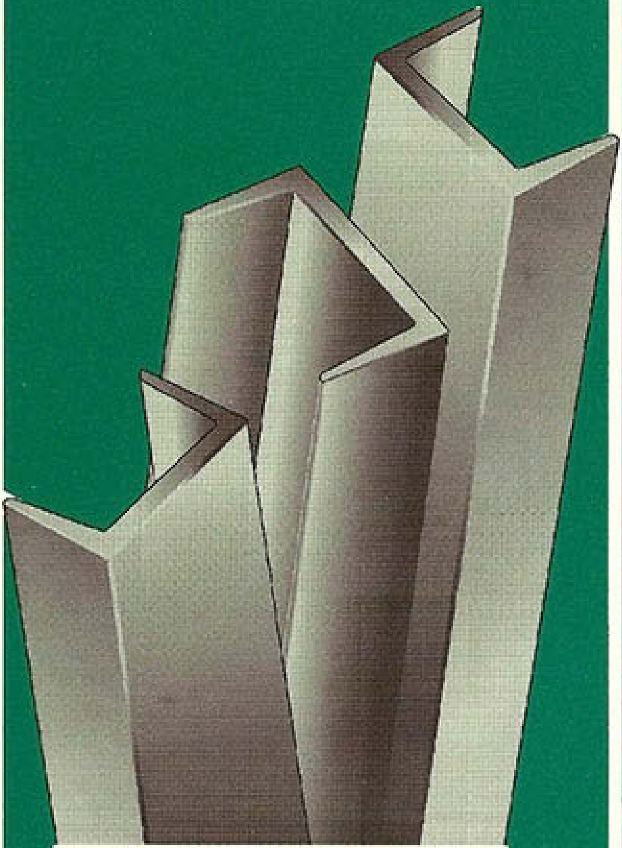
CARBON STEEL ANGLES

STRUCTURAL STOCK LENGTHS: 20', 40'

SIZE IN INCHES		Est. Wt. Lbs. per. Ft.
5 x 5	x 5/16	10.3
	x 3/8	12.3
	x 1/2	16.2
	x 5/8	20.0
	x 3/4	23.6
6 x 3 1/2	x 5/16	9.8
	x 3/8	11.7
	x 1/2	15.3
6 x 4	x 5/16	10.3
	x 3/8	12.3
	x 1/2	16.2
	x 5/8	20.0
	x 3/4	23.6
6 x 6	x 3/8	14.9
	x 1/2	19.6
	x 5/8	24.2
	x 5/16	12.4
	x 3/4	28.7
	x 7/8	33.1
	x 1	37.4
7 x 4	x 3/8	13.6
	x 1/2	17.9
	x 5/8	22.1
	x 3/4	26.2
8 x 4	x 1/2	19.6
	x 5/8	24.2
	x 3/4	28.7
	x 1	37.4
8 x 6	x 1/2	23.0
	x 3/4	33.8
	x 1	44.2
8 x 8	x 1/2	26.4
	x 5/8	32.7
	x 3/4	38.9
	x 1	51.0
	x 1 1/8	56.9

CHANNELS



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STANDARD CHANNELS

STOCK LENGTHS: 20', 40'.

Depth of Section Wt. Per. Ft/Lbs.	Flange Width in inches	Web Thickness in inches
3" x 4.10	1.410	.170
5.00	1.498	.258
6.00	1.596	.356
4" x 5.40	1.580	.184
7.25	1.721	.321
5" x 6.70	1.750	.190
9.00	1.885	.325
6" x 8.20	1.920	.200
10.50	2.034	.314
13.00	2.157	.437
7" x 9.80	2.090	.210
12.25	2.194	.314
14.75	2.299	.419
8" x 11.50	2.260	.220
13.75	2.343	.303
18.75	2.527	.487
9" x 13.40	2.433	.233
15.00	2.485	.285
20.00	2.648	.448
10" x 15.30	2.600	.240
20.00	2.739	.379
25.00	2.886	.526
30.00	3.033	.673
12" x 20.70	2.942	.282
25.00	3.047	.387
30.00	3.170	.510
15" x 33.90	3.400	.400
40.00	3.520	.520
50.00	3.716	.716

EVERGLADES
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MISCELLANEOUS CHANNELS

STOCK LENGTHS: 20', 40'.

Depth of Section Wt. Per. Ft/Lbs.		Flange Width in inches	Web Thickness in inches
MC 3" x	7.1	1.938	.312
4" x	13.8	2.500	.500
6" x	12.0	2.497	.310
	15.1	2.941	.316
	15.3	3.500	.340
	16.3	3.000	.375
	18.0	3.504	.379
MC 7" x	19.1	3.452	.352
	22.7	3.603	.503
8" x	8.5	1.874	.179
8" x	18.7	2.978	.353
	20.0	3.025	.400
	21.4	3.450	.375
	22.8	3.502	.427
9" x	23.9	3.450	.400
	25.4	3.500	.450
10" x	6.5	1.127	.152
	8.4	1.500	.170
	22	3.315	.290
	25	3.405	.380
	28.5	3.950	.425
10" x	33.6	4.100	.575
10" x	41.1	4.321	.796
12" x	10.6	1.500	.190
	31	3.70	.370
	35.0	3.767	.467
	40.0	3.890	.590
12" x	45	4.012	.712
	50.0	4.135	.835
13" x	31.8	4.000	.375
	35.0	4.072	.447
	40.0	4.185	.560
	50.0	4.412	.787
18" x	42.7	3.950	.450
	45.8	4.000	.500
	51.9	4.100	.600
	58.0	4.200	.700

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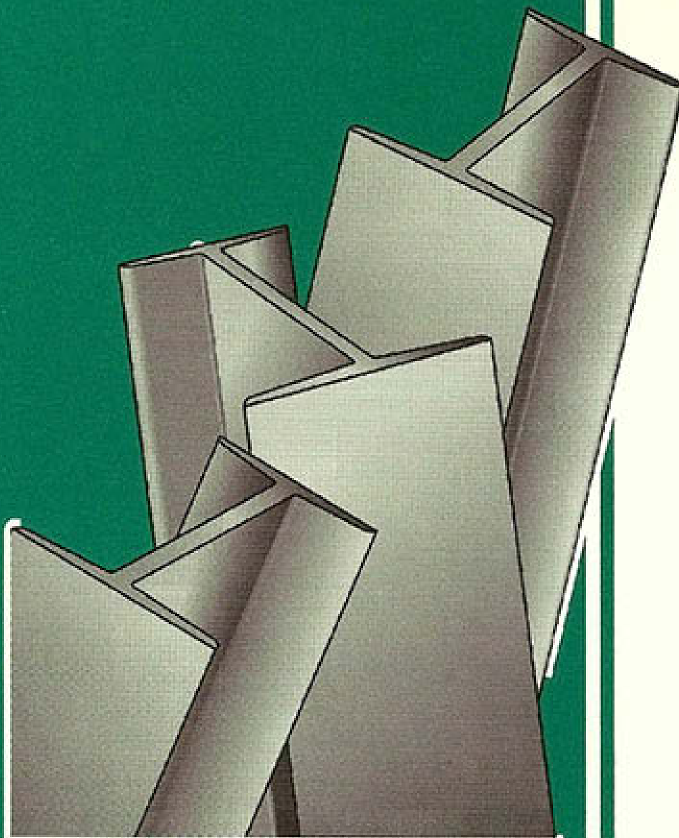
CHANNELS - BAR SIZE

STOCK LENGTHS: 20'

Size in inches	Est. Wt. Per Ft./Lbs.
1 x 1/2 x 1/8	.84
1 1/2 x 1/2 x 1/8	1.12
2 x 1 x 1/8	1.59
2 x 1 x 3/16	2.32

BEAMS



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ASTM A-36

STANDARD BEAMS

STOCK LENGTHS:
20', 30', 40' and 60'

Nominal Size	Weight Per Ft. Lbs.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
S 3	5.70	3.00	2.330	.260	.170
	7.50	3.00	2.509	.260	.349
S 4	7.70	4.00	2.663	.293	.193
	9.50	4.00	2.796	.293	.326
S 5	10.0	5.00	3.004	.326	.214
	14.75	5.00	3.284	.326	.494
S 6	12.5	6.00	3.332	.359	.232
	17.25	6.00	3.565	.359	.465
S 7	15.30	7.00	3.662	.392	.252
	20.00	7.00	3.860	.392	.450
S 8	18.40	8.00	4.001	.426	.271
	23.00	8.00	4.171	.426	.441
S 10	25.40	10.00	4.661	.491	.311
	35.00	10.00	4.944	.491	.594
S 12	31.80	12.00	5.000	.544	.350
	35.00	12.00	5.078	.544	.428
	40.80	12.00	5.252	.659	.462
	50.00	12.00	5.477	.659	.687
S 15	42.90	15.00	5.501	.622	.411
	50.00	15.00	5.640	.622	.550
S 18	54.70	18.00	6.001	.691	.461
	70.00	18.00	6.251	.691	.711
S 20	66.00	20.00	6.255	.795	.505
	75.00	20.00	6.385	.795	.635
	86.00	20.30	7.060	.920	.660
	96.00	20.30	7.200	.920	.800
S 24	80.00	24.00	7.000	.870	.500
	90.00	24.00	7.125	.870	.625
	100.00	24.00	7.245	.870	.745
	106.00	24.50	7.870	1.090	.620
	121.00	24.50	8.050	1.090	.800

EVERGLADES STEEL CORPORATION

ASTM A-36

WIDE FLANGE BEAMS

STOCK LENGTHS:
20', 30', 40' and 60'

Nominal Size	Weight Per Ft. Lbs.	Depth of Section Inches	Flange Width Inches	Flange Thickness Inches	Web Thickness Inches
W 4	13.0	4.16	4.060	.345	.280
W 5	16.0	5.01	5.000	.360	.240
	19.0	5.15	5.030	.430	.270
W 6	9.0	5.90	3.940	.215	.170
	12.0	6.03	4.000	.280	.230
	15.0	5.99	5.990	.260	.230
	16.0	6.28	4.030	.405	.260
	20.0	6.20	6.020	.365	.260
	25.0	6.38	6.080	.455	.320
W 8	10.0	7.89	3.940	.205	.170
	13.0	7.99	4.000	.255	.230
	15.0	8.11	4.015	.315	.245
	18.0	8.14	5.250	.330	.230
	21.0	8.28	5.270	.400	.250
	24.0	7.93	6.495	.400	.245
	28.0	8.06	6.535	.465	.285
	31.0	8.00	7.995	.435	.285
	35.0	8.12	8.020	.495	.310
	40.0	8.25	8.070	.560	.360
	48.0	8.50	8.110	.685	.400
	58.0	8.75	8.220	.810	.510
	67.0	9.00	8.280	.935	.570
W10	12.0	9.87	3.960	.210	.190
	15.0	9.99	4.000	.270	.230
	17.0	10.11	4.010	.330	.240
	19.0	10.24	4.020	.395	.250
	22.0	10.17	5.750	.360	.240
	26.0	10.33	5.770	.440	.260
	30.0	10.47	5.810	.510	.300
	33.0	9.73	7.960	.435	.290
	39.0	9.92	7.985	.530	.315
	45.0	10.10	8.020	.620	.350
	49.0	9.98	10.000	.560	.340
	54.0	10.09	10.030	.615	.370
	60.0	10.22	10.080	.680	.420
	68.0	10.40	10.130	.770	.470
	77.0	10.60	10.190	.870	.530

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EVERGLADES STEEL CORPORATION

ASTM A-36

WIDE FLANGE BEAMS

STOCK LENGTHS:
20', 30', 40' and 60'

Nominal Size	Weight Per Ft. Lbs.	Depth of Section Inches	Flange Width Inches	Flange Thickness Inches	Web Thickness Inches
W 10	88.0	10.84	10.265	.990	.605
	100.0	11.10	10.340	1.120	.680
	112.0	11.36	10.415	1.250	.755
W 12	14.0	11.91	3.970	.225	.200
	16.0	11.99	3.990	.265	.220
	19.0	12.16	4.005	.350	.235
	22.0	12.31	4.030	.425	.260
	26.0	12.22	6.490	.380	.230
	30.0	12.34	6.520	.440	.260
	35.0	12.50	6.560	.520	:300
	40.0	11.94	8.005	.515	.295
	45.0	12.06	8.045	.575	.335
	50.0	12.19	8.080	.640	.370
	53.0	12.06	9.995	.575	.345
	58.0	12.19	10.010	.640	.360
	65.0	12.12	12.000	.605	.390
	72.0	12.25	12.040	.670	.430
	79.0	12.38	12.080	.735	.470
	87.0	12.53	12.125	.810	.515
	96.0	12.71	12.160	.900	.550
	106.0	12.89	12.220	.990	.610
	120.0	13.12	12.320	1.105	.710
	136.0	13.41	12.400	1.250	.790
	152.0	13.71	12.480	1.400	.870
	170.0	14.03	12.570	1.560	.960
	190.0	14.38	12.670	1.735	1.060
W 14	22.0	13.74	5.000	.335	.230
	26.0	13.91	5.025	.420	.255
	30.0	13.84	6.730	.385	.270
	34.0	13.98	6.745	.455	.285
	38.0	14.10	6.770	.515	.310
	43.0	13.66	7.995	.530	.305
	48.0	13.79	8.030	.595	.340
	53.0	13.92	8.060	.660	.370
	61.0	13.89	9.995	.645	.375
	68.0	14.04	10.035	.720	.415
	74.0	14.17	10.070	.785	.450
	82.0	14.31	10.130	.855	.510
	90.0	14.02	14.520	.710	.440
	99.0	14.16	14.565	.780	.485
	109.0	14.32	14.605	.860	.525

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EVERGLADES
STEEL
CORPORATION

ASTM A-36

WIDE FLANGE BEAMS

STOCK LENGTHS:
20', 30', 40' and 60'

Nominal Size	Weight Per Ft. Lbs.	Depth of Section Inches	Flange Width Inches	Flange Thickness Inches	Web Thickness Inches
W 14	120.0	14.48	14.670	.940	.590
	132.0	14.66	14.725	1.030	.645
	145.0	14.78	15.500	1.090	.680
	159.0	14.98	15.565	1.190	.745
	176.0	15.22	15.650	1.310	.830
W 16	26.0	15.69	5.500	.345	.250
	31.0	15.88	5.525	.440	.275
	36.0	15.86	6.985	.430	.295
	40.0	16.01	6.995	.505	.305
	45.0	16.13	7.035	.565	.345
	50.0	16.26	7.070	.630	.380
	57.0	16.43	7.120	.715	.430
	67.0	16.33	10.235	.665	.395
	77.0	16.52	10.295	.760	.455
	89.0	16.75	10.365	.875	.525
	100.0	16.97	10.425	.985	.585
W 18	35.0	17.70	6.000	.425	.300
	40.0	17.90	6.015	.525	.315
	46.0	18.06	6.060	.605	.360
	50.0	17.99	7.495	.570	.355
	55.0	18.11	7.530	.630	.390
	60.0	18.24	7.555	.695	.415
	65.0	18.35	7.590	.750	.450
	71.0	18.47	7.635	.810	.495
	76.0	18.21	11.035	.680	.425
	86.0	18.39	11.090	.770	.480
	97.0	18.59	11.145	.870	.535
	106.0	18.73	11.200	.940	.590
	119.0	18.97	11.265	1.060	.655
	130.0	19.25	11.160	1.200	.670
	143.0	19.49	11.220	1.320	.730
W 21	44.0	20.66	6.500	.450	.350
	50.0	20.83	6.530	.535	.380
	57.0	21.06	6.555	.650	.405
	62.0	20.99	8.240	.615	.400
	68.0	21.13	8.270	.685	.430
	73.0	21.24	8.295	.740	.455
	83.0	21.43	8.355	.835	.515
	93.0	21.62	8.420	.930	.580
	101.0	21.36	12.290	.800	.500

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EVERGLADES
STEEL
CORPORATION

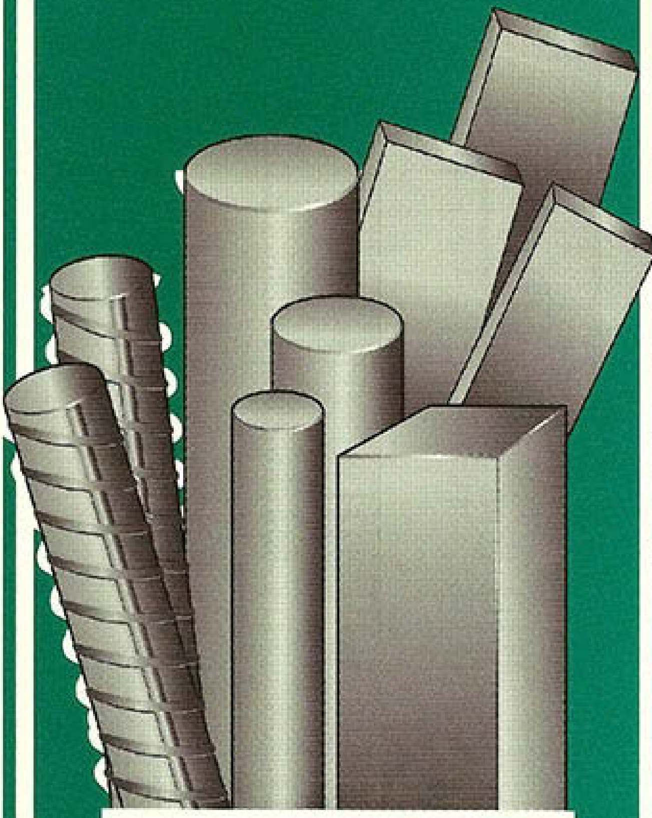
ASTM A-36

WIDE FLANGE BEAMS

STOCK LENGTHS:
20', 30', 40' and 60'

Nominal Size	Weight Per Ft. Lbs.	Depth of Section Inches	Flange Width Inches	Flange Thickness Inches	Web Thickness Inches
W 21	111.0	21.51	12.340	.875	.550
	122.0	21.68	12.390	.960	.600
	132.0	21.83	12.440	1.035	.650
	147.0	22.06	12.510	1.150	.720
W 24	55.0	23.57	7.005	.505	.395
	62.0	23.74	7.040	.590	.430
	68.0	23.73	8.965	.585	.415
	76.0	23.92	8.990	.680	.440
	84.0	24.10	9.020	.770	.470
	94.0	24.31	9.065	.875	.515
	104.0	24.06	12.750	.750	.500
	117.0	24.26	12.800	.850	.550
	131.0	24.48	12.855	.960	.605
	146.0	24.74	12.900	1.090	.650
	162.0	25.00	12.955	1.220	.705
W 27	84.0	26.71	9.960	.640	.460
	94.0	26.92	9.990	.745	.490
	102.0	27.09	10.015	.830	.515
	114.0	27.29	10.070	.930	.570
	146.0	27.38	13.965	.975	.605
	161.0	27.59	14.020	1.080	.660
	178.0	27.81	14.085	1.190	.725
W 30	99.0	29.65	10.450	.670	.520
	108.0	29.83	10.475	.760	.545
	116.0	30.01	10.495	.850	.565
	124.0	30.17	10.515	.930	.585
	132.0	30.31	10.545	1.000	.615
W 33	118.0	32.86	11.480	.740	.550
	130.0	33.09	11.510	.855	.580
	141.0	33.30	11.535	.960	.605
	152.0	33.49	11.565	1.055	.635
W 36	135.0	35.55	11.950	.790	.600
	150.0	35.85	11.975	.940	.625
	160.0	36.01	12.000	1.020	.650
	170.0	36.17	12.030	1.100	.680
	182.0	36.33	12.075	1.180	.725
	194.0	36.49	12.115	1.260	.765
	210.0	36.69	12.180	1.360	.830

BARS / STRIPS



STRIP - HOT ROLLED

COMMERCIAL QUALITY - LOW CARBON
STOCK LENGTHS: 20'

Size in inches	Weight Per Foot / Pounds	Weight Per 20'.Bar
1/8 x 1/2	0.213	4.26
3/4	0.319	6.38
1	0.425	8.50
1 1/4	0.531	10.62
1 1/2	0.638	12.76
2	0.850	17.00
2 1/2	1.063	21.26
3	1.275	25.50
3 1/2	1.490	29.80
4	1.700	34.00
5	2.130	42.60
6	2.550	51.00
3/16 x 1/2	0.319	6.38
3/4	0.478	9.56
1	0.638	12.76
1 1/4	0.797	15.94
1 1/2	0.956	19.12
1 3/4	1.120	22.40
2	1.280	25.60
2 1/2	1.594	31.88
3	1.913	38.26
3 1/2	2.231	44.62
4	2.550	51.00
5	3.190	63.80
6	3.830	76.60
8	5.100	102.00

FLAT BARS-HOT ROLLED

STOCK LENGTHS: 20'

Size in inches	Weight Per Foot/Pounds	Weight Per 20' Bar
1/4 x 1/2	0.425	8.50
3/4	0.638	12.76
1	0.850	17.00
1 1/4	1.060	21.20
1 1/2	1.280	25.60
2	1.700	34.00
2 1/2	2.130	42.60
3	2.550	51.00
3 1/2	2.980	59.60
4	3.400	68.00
4 1/2	3.830	76.60
5	4.250	85.00
6	5.100	102.00
7	5.950	119.00
8	6.800	136.00
10	8.500	170.00
11	9.350	187.00
12	10.200	204.00
5/16 x 1	1.063	21.26
1 1/2	1.594	31.68
2	2.130	42.60
2 1/2	2.660	53.20
3	3.190	63.80
3 1/2	3.720	74.40
4	4.250	85.00
5	5.310	106.20
6	6.380	127.60
8	8.500	170.00
10	10.630	212.60
3/8 x 1	1.280	25.60
1 1/4	1.590	31.80
1 1/2	1.910	38.20
2	2.550	51.00
2 1/2	3.190	63.80
3	3.830	76.60
3 1/2	4.460	89.20
4	5.100	102.00
4 1/2	5.740	114.80
5	6.380	127.60
6	7.650	153.00
7	8.930	178.60
8	10.200	204.00
9	11.490	229.80

 (continued)

FLAT BARS-HOT ROLLED

STOCK LENGTHS: 20'

Size in inches	Weight Per Foot/Pounds	Weight Per 20' Bar
3/8 x 10	12.75	255.00
11	14.02	280.40
12	15.30	306.00
1/2 x 1	1.70	34.00
1 1/4	2.13	42.60
1 1/2	2.55	51.00
2	3.40	68.00
2 1/2	4.25	85.00
3	5.10	102.00
3 1/2	5.95	119.00
4	6.80	136.00
4 1/2	7.65	153.00
5	8.50	170.00
6	10.20	204.00
7	11.90	238.00
8	13.60	272.00
9	15.30	306.00
10	17.00	340.00
11	18.70	374.00
12	20.40	408.00
5/8 x 1	2.13	42.60
1 1/2	3.19	63.80
2	4.25	85.00
3	6.38	127.60
4	8.50	170.00
4 1/2	9.56	191.20
5	10.63	212.60
6	12.75	255.00
7	14.88	297.60
8	17.00	340.00
9	19.13	382.60
10	21.25	425.00
11	23.38	467.60
12	25.50	510.00
3/4 x 2	5.10	102.00
2 1/2	6.38	127.60
3	7.65	153.00
4	10.20	204.00
4 1/2	11.48	229.60
5	12.75	255.00
6	15.30	306.00
7	17.85	357.00
8	20.40	408.00
9	22.95	459.00

(continued)

EVERGLADES
STEEL
CORPORATION

FLAT BARS-HOT ROLLED

STOCK LENGTHS: 20'

Size in inches	Weight Per Foot/Pounds	Weight Per 20' Bar
11	28.05	561.00
12	30.60	612.00
7/8 x 2	5.95	119.00
3	8.93	178.60
4	11.90	238.00
5	14.88	297.60
6	17.85	357.00
8	23.80	476.00
9	26.78	535.60
10	29.76	595.20
11	32.72	654.40
12	35.70	714.00
1 x 1 1/2	5.10	102.00
2	6.80	136.00
2 1/2	8.50	170.00
3	10.20	204.00
4	13.60	272.00
4 1/2	15.30	306.00
5	17.00	340.00
6	20.40	408.00
8	27.20	544.00
1 x 9	30.60	612.00
10	34.00	680.00
11	37.40	748.00
12	40.80	816.00
1 1/4 x 2	8.50	170.00
3	12.75	255.00
4	17.00	340.00
5	21.25	425.00
6	25.50	510.00
8	34.00	680.00
1 1/4 x 9	38.25	765.00
10	42.50	850.00
12	51.00	1020.00
1 1/2 x 3	15.30	306.00
4	20.40	408.00
5	25.50	570.00
6	30.60	612.00
8	40.80	816.00
2 x 3	20.40	408.00
4	27.20	544.00
5	34.00	680.00
6	40.80	816.00
8	54.40	1088.00

EVERGLADES
STEEL
CORPORATION

SQUARE BARS-HOT ROLLED

STOCK LENGTHS: 20'

Size	Wt/Ft/Lbs.	Wt/20'	Size	Wt/Ft/Lbs.	Wt/20'
1/4	.213	4.26	1 1/2	7.656	153.12
5/16	.332	6.64	1 3/4	10.421	208.42
3/8	.479	9.58	2	13.611	272.22
7/16	.651	13.02	2 1/4	17.227	344.54
1/2	.850	17.00	2 1/2	21.267	425.34
5/8	1.330	26.60	3	30.63	612.60
3/4	1.914	38.28	3 1/2	41.68	833.60
7/8	2.605	52.10	4	54.44	1088.80
1	3.403	68.06	4 1/2	68.91	1378.20
1 1/8	4.307	86.14	5	85.07	1701.40
1 1/4	5.317	106.34	5 1/2	102.93	2058.60
			6	122.50	2450.00

CONCRETE REINFORCING BARS

GRADES: 40 & 60
STOCK LENGTHS: 20', 40'

Nº	Size in Inches Diameter	Weight Per Foot Pounds	Area Square Inches	Peri-Meter Inches	Weight Per 20' Bar
3	3/8	0.376	0.11	1.178	7.52
4	1/2	0.668	0.20	1.571	13.36
5	5/8	1.043	0.31	1.964	20.86
6	3/4	1.502	0.44	2.356	30.04
7	7/8	2.044	0.60	2.749	40.88
8	1	2.670	0.79	3.142	53.40
9	1.128	3.400	1.00	3.544	68.00
10	1.270	4.303	1.27	3.990	86.06
11	1.410	5.313	1.56	4.430	106.26

EVERGLADES
STEEL
CORPORATION

ROUND BARS - HOT ROLLED

STOCK LENGTHS: 20'

Size Dia.	Wt/Ft	Wt/20'	Size Dia.	Wt/Ft	Wt/20'
1/4"	.167	3.34	4"	42.76	855.20
5/16"	.261	5.22	4 1/4"	48.27	965.40
3/8"	.376	7.52	4 1/2"	54.12	1082.40
7/16"	.511	10.22	4 3/4"	60.30	1206.00
1/2"	.668	13.36	5"	66.81	1336.20
9/16"	.845	16.90	5 1/4"	73.66	1473.20
5/8"	1.044	20.88	5 1/2"	80.84	1616.80
3/4"	1.503	30.06	5 3/4"	88.36	1767.20
7/8"	2.046	40.92	6"	96.21	1924.20
1"	2.673	53.46	6 1/4"	104.40	2088.00
1 1/8"	3.382	67.64	6 1/2"	112.91	2258.20
1 1/4"	4.176	83.52	6 3/4	121.77	2435.40
1 3/8"	5.053	101.05	7"	130.95	2619.00
1 1/2"	6.013	120.26	7 1/4	140.48	2809.60
1 5/8"	7.067	141.34	7 1/2"	150.33	3006.60
1 3/4"	8.185	163.70	8"	171.04	3420.80
1 7/8"	9.396	187.92	8 1/4	181.90	3638.00
2"	10.690	213.80	8 1/2	193.09	3861.80
2 1/8"	12.068	241.36	8 3/4	204.62	4092.40
2 1/4"	13.530	270.60	9"	216.48	4329.60
2 3/8"	15.075	301.50	9 1/4"	228.67	4573.40
2 1/2"	16.703	334.06	9 1/2"	241.20	4824.00
2 3/4"	20.211	404.22	9 3/4"	254.06	5081.20
2 7/8"	22.090	441.80	10"	267.25	5345.00
3"	24.05	481.0	10 1/2	294.65	5893.00
3 1/4"	28.23	564.60	11"	323.38	6467.60
3 1/2"	32.74	654.80	11 1/2"	353.44	7068.80
3 3/4"	37.58	751.60	12"	384.85	7697.00

COLD FINISHED STEEL BARS

C 1018

A low carbon grade steel with a medium manganese content. Has good hardening properties and is used where cold forming stresses are not too severe. It is suitable for shafting and for applications that do not require the greater strength of high carbon and alloy steels.

C 1040-1045

A medium carbon range steel which is valuable for parts requiring moderate strength. It offers mechanical property advantages over C 1018 and other low carbon steels.

C 1117

Suitable for cutting, threading and automatic screw machine operations at moderate speeds. Excellent for case hardening and may be formed where cold working operations are not too severe.

C12L14 (Leaded)

A leaded bearing steel designed to provide the ideal free cutting steel. It retains all the advantages to open hearth steel which includes ductility, high impact values and improved carbarization.

EVERGLADES STEEL CORPORATION

COLD FINISHED BARS

MECHANICAL PROPERTIES

	Tensile Strength PSI	Yield Point PSI	Elongation in 2" %	Reduction of area %	Brinell Hardness	Machineability Rating %
C 1018	82,000	70,000	20	57	163	65
C 1040 - 1045	102,000	89,000	16	40	207	63
12L14 (Leaded)	78,000	72,000	15	50	179	136

EVERGLADES STEEL CORPORATION

COLD FINISHED BARS

CHEMISTRY

	Carbon	Manganese	Phosphorus	Sulphur	Lead
C 1018	.15/.20	.60/.90	.04 max	.05 max	
C 1042	.40/.47	.60/.90	.04 max	.05 max	
C 12L14 (Leaded)	.09 max.	.75/1.05	.04/.09	.26/.35	.15/.35

COLD FINISHED STEEL ROUNDS

Size in Inches	Weight Per Foot Lbs.	Grade and Lengths in Stock				
		C1018	C1042	C1215	C12L14	Stress Proof
3/16"	0.094	20'				
1/4"	0.167	20'	20'	16'		12'
5/16"	0.261	20'		12'	12'	12' & 20'
3/8"	0.376	20'	20'	12'	12'	12' & 20'
7/16"	0.512	20'		12'	12'	12'
1/2"	0.668	20'	20'	12'	12'	12'
9/16"	0.846	20'		12'	12'	
5/8"	1.044	20'	20'	12'	12'	12'
11/16"	1.263	20'				
3/4"	1.503	20'	20'	12'	12'	12'
13/16"	1.764	20'		12'	12'	
7/8"	2.046	20'	20'	12'	12'	12'
15/16"	2.349	20'	20'		12'	12'
1"	2.673	20'	20'	12'	12'	12'
1 1/16"	3.017	20'		12'		12'
1 1/8"	3.382	20'	20'	12'	12'	12'
1 3/16"	3.769	20'	20'	12'	12'	12'
1 1/4"	4.176	20'	20'	12'	12'	12'
1 5/16"	4.604	20'			12'	
1 3/8"	5.053	20'	20'		12'	12'
1 7/16"	5.523	20'	20'		12'	12'
1 1/2"	6.013	20'	20'	12'	12'	12'
1 9/16"	6.525	20'				
1 5/8"	7.067	20'	20'		12'	12'
1 11/16"	7.610	20'	20'			
1 3/4"	8.185	20'	20'	12'	12'	12'
1 13/16"	8.780	20'				12'
1 7/8"	9.396	20'	20'			12'
1 15/16"	10.032	20'	20'		12'	12'
2"	10.690	20'	20'	12'	12'	12'
2 1/16"	11.369	20'				
2 1/8"	12.068	20'				12'
2 3/16"	12.788	20'	20'	12'		12'
2 1/4"	13.530	20'	20'	12'	12'	12'
2 5/16"	14.292	20'				
2 3/8"	15.075	20'	20'			
2 7/16"	15.879	20'	20'			12'
2 1/2"	16.703	20'	20'	12'	12'	12'
2 9/16"	17.549	20'				12'
2 5/8"	18.415	20'			12'	
2 11/16"	19.303	20'				
2 3/4	20.211	20'	20'		12'	12'

 (continued)

EVERGLADES
STEEL
CORPORATION

COLD FINISHED STEEL ROUNDS

Size in Inches	Weight Per Foot Lbs.	Grade and Lengths in Stock				
		C1018	C1042	C1215	C12L14	Stress Proof
2 13/16"	21.141	20'				
2 7/8	22.090	20'				12'
2 15/16"	23.061	20'	20'			12'
3"	24.05	20'	20'		12'	12'
3 1/8"	26.10	20'				
3 3/16"	27.15	20'				
3 1/4"	28.23	20'	20'			9', 12'
3 5/16"	29.32	20'	20'			
3 3/8"	30.44	20'				9', 12'
3 7/16"	31.58	20'	20'			9', 12'
3 1/2"	32.74	20'	20'		12'	9', 12'
3 9/16"	33.92	20'				
3 5/8	35.12	20'			12'	
3 11/16"	36.34	20'				
3 3/4"	37.58	20'				12'
3 13/16"	38.85	20'				
3 7/8"	40.13	20'				
3 15/16"	41.43	20'	20'			9'-12'
4"	42.76	20'	20'		12'	9'-12'
4 3/16"	46.86	20'				
4 1/4"	48.27	20'				12'
4 5/16"	49.70	20'				
4 3/8"	51.15	20'				
4 7/16"	52.63	20'	20'			
4 1/2"	54.12	20'	20'			9'-12'
4 3/4"	60.30	20'	20'			
4 15/16"	65.15	20'	20'			
5"	66.81	20'				
5 5/16"	75.43	20'				
5 7/16"	79.02	20'	20'			
5 1/2"	80.84	20'				
5 15/16"	94.22	20'	20'			
6"	96.21	20'	20'			20'
6 1/2"	112.91	20'				
7"	130.95	10'-12'	20'			
7 1/2"	150.33	10'-12'				
8"	171.04	12'				
8 1/2"	193.09	20'				
9"	216.48	20'				
10"	267.25	12'				

EVERGLADES
STEEL
CORPORATION

AISI C-1018

COLD FINISHED STEEL FLATS

Size in Inches	Weight Per Foot Pounds	Stock Lengths Feet
1/8 x 1/4	.106	10'-12'
5/16	.133	10'-12'
3/8	.159	10'-12'
7/16	.186	10'-12'
1/2	.213	10'-12'
5/8	.266	10'-12'
3/4	.319	10'-12'
7/8	.372	10'-12'
1	.425	10'-12'
1 1/4	.531	10'-12'
1 1/2	.638	10'-12'
1 3/4	.744	10'-12'
2	.850	10'-12'
2 1/2	1.063	10'-12'
3	1.280	10'-12'
3 1/2	1.490	10'-12'
4	1.700	10'-12'
5	2.130	10'-12'
6	2.550	10'-12'
8	3.400	10'-12'
3/16 x 1/2	.319	10'-12'
3/4	.478	10'-12'
7/8	.558	10'-12'
1	.638	10'-12'
1 1/4	.797	10'-12'
1 1/2	.956	10'-12'
1 3/4	1.120	10'-12'
2	1.280	10'-12'
2 1/4	1.440	10'-12'
2 1/2	1.600	10'-12'
3	[illegible].310	10'-12'
3 1/2	2.230	10'-12'
4	2.550	10'-12'
5	3.190	10'-12'
6	3.830	10'-12'
1/4 x 3/8	.319	10'-12'
1/2	.425	10'-12'
5/8	.531	10'-12'
3/4	.638	10'-12'
1	.850	10'-12'
1 1/4	1.063	10'-12'

 (continued)

EVERGLADES STEEL CORPORATION

AISI C-1018

COLD FINISHED STEEL FLATS

Size in Inches	Weight Per Foot Pounds	Stock Lengths Feet
1/4" x 1 1/2	1.280	10'-12'
1 3/4	1.490	10'-12'
2	1.700	10'-12'
2 1/4	1.910	10'-12'
2 1/2	2.130	10'-12'
3	2.550	10'-12'
3 1/2	2.980	10'-12'
4	3.400	10'-12'
4 1/2	3.830	10'-12'
5	4.250	10'-12'
6	5.100	10'-12'
8	6.810	10'-12'
10	8.510	10'-12'
12	10.200	10'-12'
5/16 x 1/2	.531	10'-12'
5/8	.664	10'-12'
3/4	.797	10'-12'
1	1.060	10'-12'
1 1/4	1.330	10'-12'
1 1/2	1.600	10'-12'
2	2.130	10'-12'
2 1/2	2.660	10'-12'
3	3.190	10'-12'
3 1/2	3.720	10'-12'
4	4.250	10'-12'
5	5.320	10'-12'
6	6.380	10'-12'
3/8 x 1/2	.638	10'-12'
5/8	.797	10'-12'
3/4	.956	10'-12'
7/8	1.120	10'-12'
1	1.280	10'-12'
1 1/4	1.600	10'-12'
1 1/2	1.910	10'-12'
1 3/4	2.230	10'-12'
2	2.550	10'-12'
2 1/2	3.190	10'-12'
3	3.830	10'-12'
3 1/2	4.470	10'-12'
4	5.100	10'-12'
5	6.380	10'-12'

(continued)

COLD FINISHED STEEL FLATS

Size in Inches		Weight Per Foot Pounds	Stock Lengths Feet
5/8 x	6	12.800	10'-12'
	8	17.000	10'-12'
	10	21.300	10'-12'
	12	25.500	10'-12'
3/4 x	1	2.550	10'-12'
	1 1/4	3.190	10'-12'
	1 1/2	3.830	10'-12'
	1 3/4	4.470	10'-12'
	2	5.100	10'-12'
	2 1/4	5.740	10'-12'
	2 1/2	6.380	10'-12'
	3	7.660	10'-12'
	3 1/2	8.930	10'-12'
	4	10.200	10'-12'
	4 1/2	11.500	10'-12'
	5	12.800	10'-12'
	6	15.300	10'-12'
	8	20.400	10'-12'
	10	25.500	10'-12'
	12	30.600	10'-12'
7/8 x	1	2.980	10'-12'
	1 1/2	4.470	10'-12'
	2	5.950	10'-12'
	2 1/2	7.440	10'-12'
	3	8.930	10'-12'
	5	14.900	10'-12'
	6	17.900	10'-12'
1 x	1 1/4	4.250	10'-12'
	1 1/2	5.100	10'-12'
	1 3/4	5.950	10'-12'
	2	6.810	10'-12'
	2 1/4	7.660	10'-12'
	2 1/2	8.510	10'-12'
	3	10.200	10'-12'
	3 1/2	11.900	10'-12'
	4	13.600	10'-12'
	4 1/2	15.300	10'-12'
	5	17.000	10'-12'
	6	20.400	10'-12'
	8	27.200	10'-12'

(continued)

EVERGLADES
STEEL
CORPORATION

AISI C-1018

COLD FINISHED STEEL FLATS

Size in Inches	Weight Per Foot Pounds	Stock Lengths Feet
1 x 10	34.000	10'-12'
12	40.800	10'-12'
1 1/4 x 2	8.500	10'-12'
2 1/2	10.630	10'-12'
3	12.750	10'-12'
4	17.000	10'-12'
5	21.250	10'-12'
6	25.500	10'-12'
8	34.000	10'-12'
10	42.500	10'-12'
12	51.000	10'-12'
1 1/2 x 2	10.200	10'-12'
2 1/2	12.750	10'-12'
3	15.300	10'-12'
3 1/2	17.850	10'-12'
4	20.400	10'-12'
5	25.500	10'-12'
6	30.600	10'-12'
8	40.800	10'-12'
10	51.000	10'-12'
12	61.200	10'-12'
2 x 2 1/2	17.000	10'-12'
3	20.400	10'-12'
3 1/2	23.800	10'-12'
4	27.200	10'-12'
5	34.000	10'-12'
6	40.800	10'-12'
8	54.400	10'-12'
10	68.000	10'-12'
12	81.600	10'-12'
2 1/4 x 4	30.600	10'-12'
4 1/2	34.430	10'-12'
2 1/2 x 3 1/2	29.750	10'-12'
x 4	34.000	10'-12'
5	42.500	10'-12'
6	51.000	10'-12'
8	68.000	10'-12'
3 x 4	40.800	10'-12'
4 1/2	45.900	10'-12'

EVERGLADES STEEL CORPORATION

AISI C-1018

COLD FINISHED STEEL SQUARES

Size in Inches	Weight Per Foot Pounds	Stock Lengths Feet
1/8	.053	10'-12'
3/16	.120	10'-12'
1/4	.213	10'-12'
5/16	.332	10'-12'
3/8	.479	10'-12'
7/16	.652	10'-12'
1/2	.851	10'-12'
9/16	1.080	10'-12'
5/8	1.330	10'-12'
11/16	1.610	10'-12'
3/4	1.914	10'-12'
13/16	2.246	10'-12'
7/8	2.605	10'-12'
15/16	2.991	10'-12'
1	3.403	10'-12'
1 1/8	4.307	10'-12'
1 3/16	4.796	10'-12'
1 1/4	5.317	10'-12'
1 3/8	6.433	10'-12'
1 1/2	7.656	10'-12'
1 3/4	10.421	10'-12'
2	13.611	10'-12'
2 1/4	17.227	10'-12'
2 1/2	21.267	10'-12'
2 3/4	25.734	10'-12'
3	30.630	10'-12'
3 1/2	41.680	10'-12'
4	54.440	10'-12'
4 1/2	68.910	10'-12'
5	85.070	10'-12'
5 1/2	102.930	10'-12'
6	122.500	10'-12'

SHEETS

SHEET- HOT ROLLED

SIZES IN STOCK

Gauge	Size in Inches	Thickness Decimal in Inches	Est. Wt. per Sq. Ft in Lbs.	Est. Wt. per Sheet in Lbs.
7	48 x 96	.1793	7.500	240.0
	48 x 120	.1793	7.500	300.0
	48 x 144	.1793	7.500	360.0
	48 x 192	.1793	7.500	480.0
	48 x 240	.1793	7.500	600.0
	60 x 96	.1793	7.500	300.0
	60 x 120	.1793	7.500	375.0
	60 x 144	.1793	7.500	450.0
	60 x 168	.1793	7.500	525.0
	60 x 240	.1793	7.500	750.0
	72 x 96	.1793	7.500	360.0
	72 x 120	.1793	7.500	450.0
	72 x 144	.1793	7.500	540.0
	72 x 240	.1793	7.500	900.0
8	48 x 96	.1644	6.875	220.0
	48 x 120	.1644	6.875	275.0
	60 x 96	.1644	6.875	275.0
	60 x 120	.1644	6.875	343.8
	72 x 120	.1644	6.875	412.5
10	48 x 96	.1345	5.625	180.0
	48 x 120	.1345	5.625	225.0
	48 x 144	.1345	5.625	270.0
	48 x 192	.1345	5.625	360.0
	48 x 240	.1345	5.625	450.0
	60 x 96	.1345	5.625	225.0
	60 x 120	.1345	5.625	281.3
	60 x 144	.1345	5.625	337.5
	60 x 168	.1345	5.625	393.8
	60 x 240	.1345	5.625	562.5
	72 x 96	.1345	5.625	270.0
	72 x 120	.1345	5.625	337.5
	72 x 144	.1345	5.625	405.0
	72 x 192	.1345	5.625	540.0
	72 x 240	.1345	5.625	675.0

(continued)

SHEET- HOT ROLLED

SIZES IN STOCK

Gauge	Size in Inches	Thickness Decimal in Inches	Est. Wt. per Sq. Ft in Lbs.	Est. Wt. per Sheet in Lbs.
11	48 x 96	.1196	5.000	160.0
	48 x 120	.1196	5.000	200.0
	48 x 144	.1196	5.000	240.0
	48 x 240	.1196	5.000	400.0
	60 x 96	.1196	5.000	200.0
	60 x 120	.1196	5.000	250.0
	60 x 144	.1196	5.000	300.0
	60 x 192	.1196	5.000	400.0
	60 x 240	.1196	5.000	500.0
	72 x 96	.1196	5.000	240.0
	72 x 120	.1196	5.000	300.0
	72 x 144	.1196	5.000	360.0
	72 x 192	.1196	5.000	480.0
	72 x 240	.1196	5.000	600.0
12	48 x 96	.1046	4.375	140.0
	48 x 120	.1046	4.375	175.0
	48 x 144	.1046	4.375	210.0
	48 x 240	.1046	4.375	350.0
	60 x 96	.1046	4.375	175.0
	60 x 120	.1046	4.375	218.8
	60 x 144	.1046	4.375	262.5
	60 x 240	.1046	4.375	437.5
	72 x 96	.1046	4.375	210.0
	72 x 120	.1046	4.375	262.5
	72 x 132	.1046	4.375	288.8
	72 x 144	.1046	4.375	315.0
	72 x 240	.1046	4.375	525.0

 (continued)

SHEET- HOT ROLLED

SIZES IN STOCK

Gauge	Size in Inches	Thickness Decimal in Inches	Est. Wt. per Sq. Ft in Lbs.	Est. Wt. per Sheet in Lbs.
13	48 x 96	.0897	3.750	120.0
	48 x 120	.0897	3.750	150.0
14	48 x 96	.0747	3.125	100.0
	48 x 120	.0747	3.125	125.0
	48 x 144	.0747	3.125	150.0
	60 x 96	.0747	3.125	125.0
	60 x 120	.0747	3.125	156.3
	60 x 144	.0747	3.125	187.5
16	48 x 96	.0598	2.500	80.0
	48 x 120	.0598	2.500	100.0
	48 x 144	.0598	2.500	120.0
	60 x 120	.0598	2.500	125.0

EVERGLADES
STEEL
CORPORATION

ASTM A525

SHEET - GALVANIZED

The coating weight of hot dipped galvanized sheets conforms to ASTM A-525 Electro galvanized sheets conforms to ASTM A591.

Coatings are G 90 (.90 oz. per feot) or G 60 (light commercial)

SIZES IN STOCK

Gauge	Size in Inches	Thick - ness Decimal in Inches	Est. Wt. per Sq. Ft. in Lbs.	Est. Wt. per Feet in Lbs.
8	48 x 96	.1681	7.031	225.0
	48 x 120	.1681	7.031	281.2
	48 x 144	.1681	7.031	337.5
10	48 x 96	.1382	5.781	185.0
	48 x 120	.1382	5.781	231.2
	48 x 144	.1382	5.781	277.5
11	48 x 96	.1233	5.156	165.0
	48 x 120	.1233	[illegible]56	206.2
	48 x 144	.1233	5.156	247.5

 (continued)

SHEET - GALVANIZED

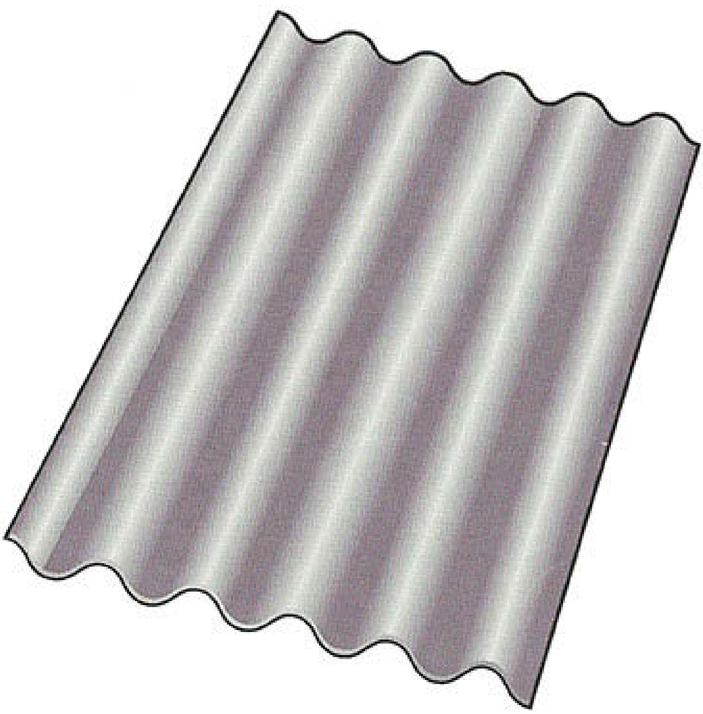
SIZES IN STOCK

Gauge	Size in Inches	Thickness Decimal in Inches	Est. Wt. per Sq. Ft. in Lbs.	Est. Wt. per Sheet in Lbs.
12	48 x 96	.1084	4.531	145.0
	48 x 120	.1084	4.531	181.2
	48 x 144	.1084	4.531	217.5
14	48 x 96	.0785	3.281	105.0
	48 x 120	.0785	3.281	131.2
	48 x 144	.0785	3.281	157.5
15	48 x 120	.0710	2.969	118.8
	48 x 144	.0710	2.969	142.5
16	48 x 96	.0635	2.656	85.0
	48 x 120	.0635	2.656	106.2
	48 x 144	.0635	2.656	127.5
18	48 x 96	.0516	2.156	69.0
	48 x 120	.0516	2.156	86.2
	48 x 144	.0516	2.156	103.5
20	48 x 96	.0396	1.656	53.0
	48 x 120	.0396	1.656	66.2
	48 x 144	.0396	1.656	79.5
22	48 x 96	.0336	1.406	45.0
	48 x 120	.0336	1.406	56.2
	48 x 144	.0336	1.406	67.5
24	48 x 96	.0276	1.281	41.0
	48 x 120	.0276	1.281	51.2
	48 x 144	.0276	1.281	61.5
26	48 x 96	.0217	.906	29.0
	48 x 120	.0217	.906	36.2
	48 x 144	.0217	.906	43.5

GALVANIZED CORRUGATED SHEETS

Our line of Galvanized Corrugated Sheets include these dimensions"

29 ga.	26" (24" coverage) x 96"
29 ga.	26" (24" coverage) x 120"
29 ga.	26" (24" coverage) x 144"
26 ga.	26" (24" coverage) x 96"
26 ga.	26" (24" coverage) x 120"
26 ga.	26" (24" coverage) x 144"



NOTE: These sheets can be cut to different specifications upon request, depending upon order quantity.

COILS

EVERGLADES
STEEL
CORPORATION

PLATE COILS - HOT ROLLED

SHEET AND PLATE COILS - can be furnished in stock widths to standard mill width tolerances or slit to the exact width you require. They can also be leveled into flat sheets up to 20 feet long. Other sizes, tempers, grades etc., can also be furnished to meet your needs.

COMMERCIAL QUALITY, MILL EDGE
SIZES IN STOCK

Thickness & Width in inches	Thickness Decimal in Inches	Est. Wt. per Sq. Ft. in Lbs.
1/2 x 48	.5000	20.42
60	.5000	20.42
72	.5000	20.42
3/8 x 48	.3750	15.32
60	.3750	15.32
72	.3750	15.32
5/16 x 48	.3125	12.76
60	.3125	12.76
72	.3125	12.76
1/4 x 48	.2500	10.21
60	.2500	10.21
72	.2500	10.21
3/16 x 48	.1875	7.660
60	.1875	7.660
72	.1875	7.660

COILS - HOT ROLLED

SIZES IN STOCK

Ga. & Width in Inches		Thickness Decimal in Inches	Est. Wt. per Sq. Ft. in Lbs.	Suggested Minimum Thickness, Inches
7	48	.1793	7.500	.171
	60	.1793	7.500	.171
	72	.1793	7.500	.171
8	48	.1644	6.875	.156
	60	.1644	6.875	.156
	72	.1644	6.875	.156
10	48	.1345	5.625	.127
	60	.1345	5.625	.127
	72	.1345	5.625	.127
11	48	.1196	5.000	.112
	60	.1196	5.000	.112
	72	.1196	5.000	.112
12	48	.1046	4.375	.097
	60	1046	4.375	.097
	72	.1046	4.375	.097
13	48	.0897	3.750	.083
	60	.0897	3.750	.083
14	48	.0747	3.125	.068
	60	.0747	3.125	.068
16	48	.0598	2.500	.054

COILS - GALVANIZED

SIZES IN STOCK

Ga.	Width in Inches	Decimal in Inches Thickness	Est. Wt. per Sq. Ft. in Lbs.	Suggested Minimum Thickness, Inches
10	48	.1382	5.781	.130
	60	.1382	5.781	.130
11	48	.1233	5.156	.115
12	36	.1084	4.531	.100
	48	.1084	4.531	.100
	60	.1084	4.531	.100
14	36	.0785	3.281	.071
	48	.0785	3.281	.071
	60	.0785	3.281	.071
15	48	.0710	2.969	.065
	60	.0710	2.969	.065
16	36	.0635	2.656	.058
	48	.0635	2.656	.058
18	36	.0516	2.156	.047
	48	.0516	2.156	.047
19	48	.0456	1.906	.041
20	36	.0396	1.656	.036
	48	.0366	1.656	.036
22	36	.0336	1.406	.030
	48	.0336	1.406	.030
23	48	.0306	1.281	.027
24	36	.0276	1.156	.024
	48	.0276	1.156	.024
26	36	.0217	.906	.019
	48	.0217	.906	.019
28	36	.0187	.781	.016
	48	.0187	.781	.016

PLATES

EVERGLADES
STEEL
CORPORATION

PLATES

UNIVERSAL MILL EDGE, SHEARED EDGE, FLAME CUT, CUT-TO-LENGTH. GRADES AVAILABLE (INQUIRE FOR SIZES) ASTM A-36, ASTM A-283, COMMERCIAL QUALITY, ASTM A-5 16 GRADE 70, ASTM A-572 GRADE 50 STOCK LENGTHS: 8', 10', 12' 20'

Thickness in inches	Width in inches	WT. SQ. FT. in lbs.
3/16	48	7.66
	60	
	72	
	96	
1/4	48	·10.21
	60	
	72	
	96	
5/16	48	12.76
	60	
	72	
	96	
3/8	48	15.3
	60	
	72	
	84	
	96	
7/16	60	17.87
	72	
1/2	48	20.42
	60	
	72	
	84	
	96	
9/16	72	22.98

Thickness in inches	Width in inches	WT. SQ. FT. in Lbs.
5/8	48	25.53
	60	
	72	
	84	
	96	
3/4	48	30.63
	60	
	72	
	96	
13/16	72	33.19
	96	
7/8	60	35.74
	72	
	96	
1	48	40.84
	60	
	72	
	96	
1 1/8	72	45.90
1 1/4	48	51.00
	60	
	72	
	96	
1 3/8	72	56.16
	96	

(continued)

PLATES

UNIVERSAL MILL EDGE, SHEARED EDGE, FLAME CUT, CUT-TO-LENGTH. GRADES AVAILABLE (INQUIRE FOR SIZES) ASTM A-36, ASTM A-283, COMMERCIAL QUALITY, ASTM A-5 16 GRADE 70, ASTM A-572 GRADE 50 STOCK LENGTHS: 8', 10', 12' 20'

Thickness in inches	Width in inches	WT. SQ. FT. in lbs.
1 1/2	48	61.26
	60	
	72	
	96	
1 5/8	72	66.37
1 3/4	60	71.47
	72	
	96	
2"	48	81.68
	60	
	72	
	96	
2 1/4"	72	91.89
2 1/2"	48	102.10
	72	
	96	
2 3/4"	72	112.31
	96	

Thickness in inches	Width in inches	WT. SQ. FT. in Lbs.
3"	72	122.52
	96	
3 1/4"	72	132.73
	96	
3 1/2"	72	142.94
	96	
3 3/4"	72	153.15
4"	48	163.36
	72	
	96	
4 1/4"	48	173.57
4 1/2"	48	183.78
5"	48	204.20
6"	48	245.04
7"	48	285.88
8"	48	326.78

FLOOR PLATE

STOCK LENGTHS: 8', 10', 12', 20'

Gauge Thickness in inches	Width in inches	Wt. in Lbs Sq. Ft. in Lbs.
3/16	48 60 72 96	8.71
1/4	48 60 72 96	11.26
5/16	48 60 72 96	13.81
3/8	48 60 72 96	16.37
1/2	48 60 72	21.47

The thickness does not include the height of the lug.

FLOOR SHEET

STOCK LENGTHS: 8', 10', 12', 20'

Gauge Thickness in inches	Width in Inches	Wt. Sq. Ft. in Lbs.
11 Ga.	48 60	6.15
12 Ga.	48	5.25
14 Ga.	48	3.75

ABRASION RESISTANT PLATES

AR-235 PLATE FOR ABRASION RESISTANT APPLICATIONS:

3/16" x 48 x 96 - 72 x 144 - 96 x 240
1/4" x 48 x 96 - 72 x 144 - 96 x 240
5/16" x 48 x 96 - 72 x 144 - 96 x 240
3/8" x 48 x 96 - 72 x 144 - 96 x 240
1/2" x 48 x 96 - 72 x 144 - 96 x 240
5/8" x 48 x 96 - 72 x 144 - 96 x 240
3/4" x 48 x 96 - 72 x 144 - 96 x 240
1 " x 48 x 96 - 72 x 144 - 96 x 240

1-1/4" x 72 x 288
1-1/2" x 72 x 288
1-3/4" x 72 x 288
2 " x 72 x 288
2 -1/2 " x 72 x 288

MIN. AR 360/400 AND T1 HEAT TREATED QUENCHED AND TEMPERED PLATE FOR IMPACT AND ABRASION:

3/16" x 48 x 96 - 72 x 144 - 96 x 240 - 96 x 288
1/4" x 48 x 96 - 72 x 144 - 96 x 240 - 96 x 288
5/16" - 72 x 144 -96 x 288
3/8" x 48 x 96 - 72 x 144 - 96 x 240 - 96 x 288
1/2" x 48 x 96 - 72 x 144 - 96 x 240 - 96 x 288
5/8" x 48 x 96 - 72 x 144 - 96 x 240 - 96 x 288
3/4" x 48 x 96 - 72 x 144 - 96 x 240 - 96 x 288
1 " x 48 x 96 - 72 x 144 - 96 x 240 - 96 x 288

1-1/4" x 72 x 144 - 96 x 288
1-1/2" x 72 x 144 - 96 x 288
1-3/4" x 72 x 144 - 96 x 288
2 " x 72 x 144 - 96 x 288
2-1/2" x 72 x 170 - 96 x 288

WEAR STRIPS: ABRASION RESISTANT OR HEAT TREATED BAR

1/4" x 2" x 20' RDM
3/8" x 2" x 20' RDM
3/8" X 3" x 20' RDM
1/2" x 2" x 20' RDM

1/2" x 3" x 20' RDM
1/2" x 4" x 20' RDM
1/2" X 6" x 20' RDM
3/4" x 2" x 20' RDM

3/4" x 4" x 20' RDM
3/4" x 6" x 20' RDM
1 " x 2" x 20' RDM
1 " x 6" x 20' RDM

11 to 14% MANGANESE WORK HARDENING ROUND APPLICATOR BARS - 18-20' RDM

1/2" — 5/8" — 3/4" — 7/8" — 1" — 1- 1/8" — 1 - 1/4" — 1- 1/2" — 2" —
2 -1/2" — 3" — 3 - 1/2" — 4"

11 to 14% MANGANESE WORK HARDENING SQUARE APPLICATOR BARS - 18-20' RDM

1" — 1-1/2" — 2"

PIPES

PIPE CARBON STEEL

PIPE-CARBON STEEL
CONTINUOUS BUTTWELD. A general purpose pipe for use in steam, gas and air lines. Not intended for close coiling, bending or high temperature service. Stocked in standard black coating. Meets ASTM A53 (which has replaced the obsolete ASTM A120 specification). No minimum mechanical properties specified.
ELECTRIC RESISTANCE WELDED. (ERW) Suitable for welding, coiling bending, flaring and flanging. Pressure tested. Standard black çoating. Plain ends, bevelled edge. No color identification. Meets ASTM A53 Grade B Type E (electrical resistance welded).

Minimum Mechanical Properties

Tensile strength psi 60,000
Yield strength psi 35,000

PIPE SIZE ERW. A structural purpose pipe sized tube ordered to ASTM A500. Compared to pipe, this product offers higher strength, better straightness as well as a superior finish and usually costs less than pipe.

Minimum Mechanical Properties

Tensile strength psi 62,000
Yield strength psi 46,000

PIPE & PIPE SIZE ERW TUBING

CARBON STEEL

SIZES IN STOCK

Nominal Size in Inch	Weight per Ft. in Lbs.	O.D. in Inches	Wall Thickness Inches
Schedule 10			
1	1.404	1.315	.109
1 1/4	1.806	1.660	.109
1 1/2	2.085	1.900	.109
2	2.638	2.375	.109
Schedule 40 - Standard •			
1/8	.244	.405	.068
1/4	.425	.540	.088
3/8	.568	.675	.091
1/2	.851	.840	.109
3/4	1.131	1.050	.113
1	1.679	1.315	.133

• For sizes 10" and under Schedule 40 and Standard are the same.

(continued)

Weights and Dimensions Seamless and Welded Pipe

Pipe Size	O.D. In. Inches	A.S.A. PIPE SCHEDULES 5	10	20	30	Std.	40	60	E.H.	80	100	120	140	160	DBLE. E.H.
1/8	.405	.035 .1383	.049 .1863			.068 .2447	.068 .2447		.095 .3145	.095 .3145					
1/4	.540	.049 .2570	.065 .3297			.088 .4248	.088 .4248		.119 .5351	.119 .5351					
3/8	.675	.049 .3276	.065 .4235			.091 .5676	.091 .5676		.126 .7388	.126 .7388					
1/2	.840	.065 .5383	.083 .6710			.109 .8510	.109 .8510		.147 1.088	.147 1.088				.187 1.304	.294 1.714
3/4	1.050	.065 .6838	.083 .8572			.113 1.131	.113 1.131		.154 1.474	.154 1.474				.218 1.937	.308 2.441
1	1.315	.065 .8678	.109 1.404			.133 1.679	.133 1.679		.179 2.172	.179 2.172				.250 2.844	.358 3.659
1 1/4	1.660	.065 1.107	.109 1.806			.140 2.273	.140 2.273		.191 2.997	.191 2.997				.250 3.765	.382 5.214
1 1/2	1.900	.065 1.274	.109 2.085			.145 2.718	.145 2.718		.200 3.631	.200 3.631				.281 4.859	.400 6.408
2	2.375	.065 1.604	.109 2.638			.154 3.653	.154 3.653		.218 5.022	.218 5.022				.343 7.444	.436 9.029
2 1/2	2.875	.083 2.475	.120 3.531			.203 5.793	.203 5.793		.276 7.661	.276 7.661				.375 10.01	.552 13.70
3	3.500	.083 3.029	.120 4.332			.216 7.576	.216 7.576		.300 10.25	.300 10.25				.437 14.32	.600 18.58
3 1/2	4.000	.083 3.472	.120 4.973			.226 9.109	.226 9.109		.318 12.51	.318 12.51					.636 22.85
4	4.500	.083 3.915	.120 5.613			.237 10.79	.237 10.79	.281 12.66	.337 14.98	.337 14.98		.437 19.01		.531 22.51	.674 27.54

Weights and Dimensions   Seamless and Welded Pipe

Pipe Size	O.D. In. Inches	A.S.A. PIPE SCHEDULES													DBLE. E.H.
		5	10	20	30	Std.	40	60	E.H.	80	100	120	140	160	
$4^1/_2$	5.000					.247 12.53			.355 17.61						.710 32.53
5	5.563	.109 6.349	.134 7.770			.258 14.62	.258 14.62		.375 20.78	.375 20.78		.500 27.04		.625 32.96	.750 38.55
6	6.625	.109 7.585	.134 9.290			.280 18.97	.280 18.97		.432 28.57	.432 28.57		.562 36.39		.718 45.30	.864 53.16
7	7.625					.301 23.57			.500 38.05						.875 63.08
8	8.625	.109 9.914	.148 13.40	.250 22.36	.277 24.70	.322 28.55	.322 28.55	.406 35.64	.500 43.39	.500 43.39	.593 50.87	.718 60.93	.812 67.76	.906 74.69	.875 72.42
9	9.625					.342 33.90			.500 48.72						
10	10.750	.134 15.19	.165 18.70	.250 28.04	.307 34.24	.365 40.48	.365 40.48	.500 54.74	.500 54.74	.593 64.33	.718 76.93	.843 89.20	1.000 104.1	1.125 115.7	
11	11.750					.375 45.55			.500 60.07						
12	12.750	.165 22.18	.180 24.20	.250 33.38	.330 43.77	.375 49.56	.406 53.53	.562 73.16	.500 65.42	.687 88.51	.843 107.2	1.000 125.5	1.125 139.7	1.312 160.3	
14	14.000		.250 36.71	.312 45.68	.375 54.57	.375 54.57	.437 63.37	.593 84.91	.500 72.09	.750 106.1	.937 130.7	1.093 150.7	1.250 170.2	1.406 189.1	
16	16.000		.250 42.05	.312 52.36	.375 62.58	.375 62.58	.500 82.77	.656 107.5	.500 82.77	.843 136.5	1.031 164.8	1.218 192.3	1.437 223.5	1.593 245.1	
18	18.000		.250 47.39	.312 59.03	.437 82.06	.375 70.59	.562 104.8	.750 138.2	.500 93.45	.937 170.8	1.156 208.0	1.375 244.1	1.562 274.2	1.781 308.5	
20	20.000		.250 52.73	.375 78.60	.50 104.1	.375 78.60	.593 122.9	.812 166.4	.500 104.1	1.031 208.9	1.280 256.1	1.500 296.4	1.750 341.1	1.968 379.0	
24	24.000		.250 63.41	.375 94.62	.562 140.8	.375 94.62	.687 171.2	.968 238.1	.500 125.5	1.218 296.4	1.531 367.4	1.812 429.4	2.062 483.1	2.343 541.9	

(continued)

EVERGLADES
STEEL
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ASTM A53

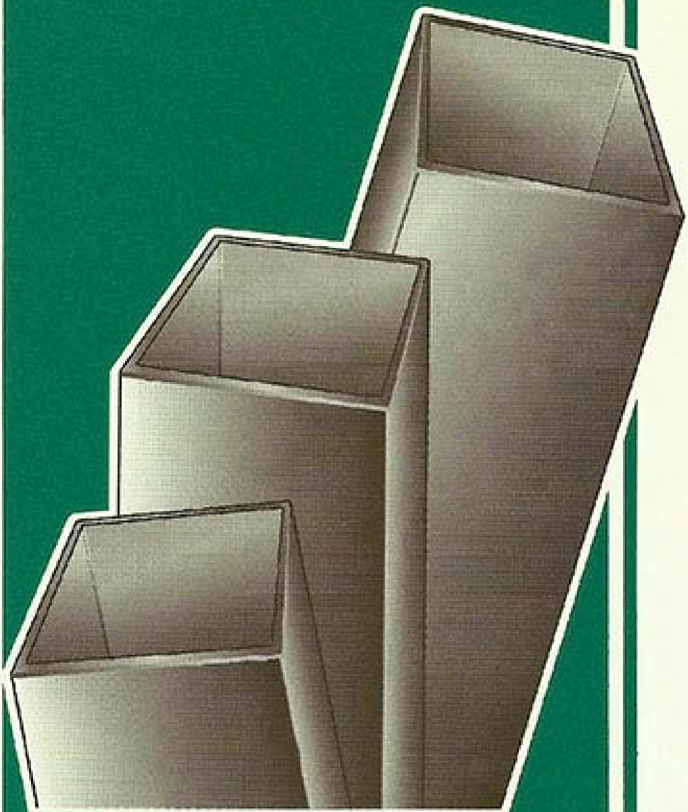
GALVANIZED PIPES

STANDARD SIZES & WEIGHTS

THREADED & COUPLED PIPE

Nominal Size	Outside Dia		Wall Thickness			Weight	
in.	in.	mm	in.	mm	Sch. No.	lb/ft	kg/m
1/2	0.840	21.3	0.109 0.147	2.77 3.73	40 (STD) 80 (XS)	0.85 1.09	1.26 1.62
3/4	1.050	26.7	0.113 0.154	2.87 3.91	40 (STD) 80 (XS)	1.13 1.48	1.68 2.20
1	1.315	33.4	0.133 0.179	3.38 4.55	40 (STD) 80 (XS)	1.68 2.18	2.50 3.24
1 1/4	1.660	42.2	0.140 0.191	3.56 4.85	40 (STD) 80 (XS)	2.28 3.02	3.39 4.49
1 1/2	1.900	48.3	0.145 0.200	3.68 5.08	40 (STD) 80 (XS)	2.73 3.66	4.06 5.45
2	2.375	60.3	0.154 0.218	3.91 5.54	40 (STD) 80 (XS)	3.68 5.07	5.48 7.55
2 1/2	2.875	73.0	0.203 0.276	5.16 7.01	40 (STD) 80 (XS)	5.82 7.73	8.66 11.50
3	3.500	88.9	0.216 0.300	5.49 7.62	40 (STD) 80 (XS)	7.62 10.33	11.34 15.37
3 1/2	4.000	101.6	0.226 0.318	5.74 8.08	40 (STD) 80 (XS)	9.20 12.63	13.69 18.80
4	4.500	114.3	0.237 0.337	6.02 8.56	40 (STD) 80 (XS)	10.89 15.17	16.21 22.58
5	5.563	141.3	0.258 0.375	6.55 9.53	40 (STD) 80 (XS)	14.81 21.09	22.04 31.39
6	6.625	168.3	0.280 0.432	7.11 10.97	40 (STD) 80 (XS)	19.18 28.89	28.54 42.99

SQUARE & RECTANGULAR TUBING



SQUARE & RECTANGULAR TUBING

GUIDE TO SELECTION

STRUCTURAL ASTM A500-GRADE B (UNS K03000) cold formed, electric resistance welded tubing has a high strength-to-weight ratio, is relatively low in cost and is easily welded, formed, punched and drilled. The hollow shape offers good appearance and ease of maintenance.

STRUCTURAL HIGH STRENGTH, LOW ALLOY (HSLA-70) tubing with 70,000 psi minimum yield. It has the same features and benefits of ASTM A500-Grade B, but with 52% higher strength-to-weight ratio.

Minimum Mechanical Properties

	Tensile Strength psi	Yield Strength psi	% Elong. in 2"
ASTM A500-Grade B	58,000	46,000	23
ASTM A500-Grade C*	62,000	50,000	21
HSLA-70	75,000	70,000	14
ASTM A618 Grade III	65,000	50,000	20

* Material can be selected to meet these requirements.

MECHANICAL. An electric resistance welded tubing made from low carbon steel. Walls heavier than 18 ga. are produced from hot rolled steel, walls 18 ga. and lighter are cold rolled. Offers good surface finish and forming qualities. Meets ASTM A513 Type 1 (HR) or Type 2 (CR).

SQUARE TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: MECHANICAL-24 FT. random
STRUCTURAL 20 FT., 24 FT., & 40 FT Random
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
3/8" x 3/8"		
20	.035	.1618
18	.049	.2172
16	.065	.2740
1/2" x 1/2"		
20	.035	.2213
18	.049	.3005
.063	.063	.0363
16	.065	.3642
5/8" x 5/8"		
20	.035	.2808
18	.049	.3838
.063	.063	.4815
16	.065	.4747
3/4" x 3/4"		
20	.035	.3403
18	.049	.4671
.063	.063	.606
16	.065	.6085
15	.072	.6640
14	.083	.7529
13	.095	.8463
11	.120	1.02
7/8" x 7/8"		
18	.049	.5504
.063	.063	.6957
16	.065	.6957
14	.083	.8940
13	.095	1.008
1" x 1"		
20	.035	.4533
18	.049	.6337
.063	.063	.7910
16	.065	.827
15	.072	.9087
14	.083	1.035
13	.095	1.169
12	.109	1.321
11	.120	1.436
1-1/8" x 1-1/8"		
18	.049	.7170
16	.065	.9167

 (continued)

EVERGLADES STEEL CORPORATION

SQUARE TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: MECHANICAL-24 FT. random
STRUCTURAL-20 FT., 24 FT. & 40 FT. random
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
1-1/4" x 1-1/4"		
18	.049	.8003
.063	.063	1.010
16	.065	1.048
15	.072	1.140
14	.083	1.317
13	.095	1.492
12	.109	1.691
11	.120	1.844
.135	.135	1.890
3/16	.187	2.400
1-1/2" x 1-1/2"		
18	.049	.9669
.063	.063	1.220
16	.065	1.269
15	.072	1.380
14	.083	1.600
13	.095	1.815
12	.109	1.992
11	.120	2.252
.145	.145	2.350
3/16	.187	3.040
1/4	.250	4.000
1-3/4" x 1-3/4"		
16	.065	1.49
14	.083	1.882
13	.095	2.138
11	.120	2.66
2" x 2"		
18	.049	1.300
.063	.063	1.650
16	.065	1.71
15	.072	1.880
14	.083	2.164
13	.095	2.450
12	.109	2.803
11	.120	3.068
10	.134	3.282
.145	.145	3.510

(continued)

SQUARE TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: MECHANICAL-24 FT. random
STRUCTURAL-20 FT., 24 FT., & 40 FT. random
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
2" x 2"		
3/16	.187	4.320
1/4	.250	5.410
2-1/4" x 2-1/4"		
16	.065	1.932
1/4	.250	6.800
2-1/2" x 2-1/2"		
16	.065	2.157
14	.083	2.728
13	.095	3.107
12	.109	3.544
11	.120	3.90
10	.134	4.193
3/16	.187	5.590
1/4	.250	7.110
3" x 3"		
14	.083	3.263
11	.120	4.75
3/16	.187	6.870
1/4	.250	8.810
5/16	.312	10.58
3/8	.375	12.17
3-1/2" x 3-1/2"		
11	.120	5.60
3/16	.187	8.150
1/4	.250	10.51
5/16	.312	12.70
4" x 4"		
11	.120	6.46
3/16	.187	9.420
1/4	.250	12.21
5/16	.312	14.83
3/8	.375	17.27
1/2	.500	21.63

 (continued)

SQUARE TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: MECHANICAL-24 FT. random
STRUCTURAL-20 FT., 24 FT., & 40 FT. random
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
4-1/2" x 4-1/2"		
3/16	.187	10.70
1/4	.250	13.91
5" x 5"		
11	.120	7.964
3/16	.187	11.97
1/4	.250	15.62
5/16	.312	19.08
3/8	.375	22.37
1/2	.500	28.43
6" x 6"		
3/16	.187	14.53
1/4	.250	19.02
5/16	.312	23.34
3/8	.375	27.48
1/2	.500	35.24
7" x 7"		
3/16	.187	17.08
1/4	.250	22.42
5/16	.312	27.59
3/8	.375	32.58
1/2	.500	42.05
8" x 8"		
3/16	.187	19.63
1/4	.250	25.82
5/16	.312	31.84
3/8	.375	37.69
1/2	.500	48.85
5/8	.625	59.32

(continued)

SQUARE TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: MECHANICAL-24 FT. random
STRUCTURAL-20 FT., 24 FT., & 40 FT. random
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
10" x 10"		
1/4	.250	32.63
5/16	.312	40.35
3/8	.375	47.90
1/2	.500	62.46
5/8	.625	76.33
12" x 12"		
1/4	.250	39.43
5/16	.312	48.86
3/8	.375	58.10
1/2	.500	76.07
5/8	.625	93.25
14" x 14"		
3/8	.312	68.31
1/2	.500	89.68
16" x 16"		
5/16	.312	65.87
3/8	.375	78.52
1/2	.500	103.3

RECTANGULAR TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: 20 FT., 24 FT., & 40 FT. RANDOM
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
1" x 1/2"		
18	.049	.4671
.063	.063	.5886
16	.065	.606
1" x 3/4"		
16	.065	0.716
1-1/2" x 1/2"		
16	.065	0.827
1-1/2"x 3/4"		
.063	.063	.9099
16	.065	0.937
15	.072	1.031
14	.083	1.176
11	.120	1.640
1-1/2" x 1"		
.063	.063	1.017
16	.065	1.048
15	.072	1.153
14	.083	1.317
13	.095	1.492
11	.120	1.844
2" x 3/4"		
16	.065	1.158
2" x 1"		
18	.049	.9669
.063	.063	1.231
16	.065	1.269
15	.072	1.398
14	.083	1.600
13	.095	1.815
12	.109	2.062
11	.120	2.252
2" x 1-1/4"		
14	.083	1.741
2"x 1-1/2"		
.063	.063	1.49
15	.072	1.643
14	.083	1.882
13	.095	2.138
11	.120	2.66
2-1/2" X 1"		
14	.083	1.882
2-1/2" X 1-1/4"		
14	.083	2.023

(continued)

EVERGLADES
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RECTANGULAR TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: 20 FT., 24 FT., & 40 FT. RANDOM
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
2-1/2" x 1-1/2"		
.063	.063	1.71
15	.072	1.888
14	.083	2.164
13	.095	2.461
11	.120	2.989
1/8	.125	3.068
9	.148	3.728
3/16	.187	4.320
1/4	.250	5.410
2-1/2" x 2"		
11	.120	3.531
3" x 1"		
.063	.063	1.660
16	.065	1.711
14	.083	2.164
13	.095	2.461
11	.120	3.068
3" x 1-1/2"		
14	.083	2.446
13	.095	2.784
12	.109	3.104
11	.120	3.476
1/8	.125	3.480
3/16	.187	4.960
1/4	.250	6.800
3" x 2"		
16	.065	2.153
14	.083	2.728
11	.120	3.90
3/16	.187	5.590
1/4	.250	7.110
5/16	.312	8.430
3-1/2" x 2-1/2"		
3/16	.187	6.880
1/4	.250	8.810
4" x 1-1/2"		
11	.120	4.292

 (continued)

EVERGLADES
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RECTANGULAR TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: 20 FT., 24 FT., & 40 FT. RANDOM
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
4" x 2"		
16	.065	2.595
14	.083	3.293
11	.120	4.75
3/16	.187	6.870
1/4	.250	8.810
5/16	.312	10.58
3/8	.375	13.43
4" x 3"		
11	.120	5.60
3/16	.187	8.150
1/4	.250	10.51
5/16	.312	12.70
3/8	.375	14.71
4-1/2" x 2-1/2"		
1/4	.250	10.51
5" x 2"		
11	.120	5.60
10	.134	5.980
3/16	.187	8.150
1/4	.250	10.51
5/16	.312	12.70
5" x 2-1/2"		
3/16	.187	8.880
5" x 3"		
11	.120	6.46
3/16	.187	9.420
1/4	.250	12.21
5/16	.312	14.83
3/8	.375	17.27
1/2	.500	21.63
5" x 4"		
3/16	.187	10.70
1/4	.250	13.91

(continued)

RECTANGULAR TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: 20 FT., 24 FT., & 40 FT. RANDOM
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
6" x 2"		
11	.120	6.46
3/16	.187	9.420
1/4	.250	12.21
5/16	.312	14.83
3/8	.375	17.27
6" x 3"		
11	.120	7.148
3/16	.187	10.70
1/4	.250	13.91
5/16	.312	16.96
3/8	.375	19.82
1/2	.500	25.03
6" x 4"		
3/16	.187	11.97
1/4	.250	15.62
5/16	.312	19.08
3/8	.375	22.37
1/2	.500	28.43
7" x 3"		
3/16	.187	11.97
1/4	.250	15.62
3/8	.375	22.37
7" x 4"		
3/16	.187	13.25
1/4	.250	17.32
3/8	.375	24.93
7" x 5"		
3/16	.187	14.53
1/4	.250	19.02
5/16	.312	23.34
3/8	.375	27.48
1/2	.500	35.24
8" x 2"		
3/16	.187	11.97
1/4	.250	15.62
3/8	.375	22.37

 (continued)

RECTANGULAR TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: 20 FT., 24 FT., & 40 FT. RANDOM
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
8" x 3"		
3/16	.187	13.25
1/4	.250	17.32
5/16	.312	21.21
3/8	.375	24.93
1/2	.500	31.81
8" x 4"		
3/16	.187	14.53
1/4	.250	19.02
5/16	.312	23.34
3/8	.375	27.48
1/2	.500	35.24
8" x 6"		
3/16	.187	17.08
1/4	.250	22.42
5/16	.312	27.59
3/8	.375	32.58
1/2	.500	42.05
9" x 5"		
3/8	.375	32.58
9" x 7"		
1/4	.250	25.82
5/16	.312	31.84
10" x 2"		
3/16	.187	14.53
1/4	.250	19.02
10" x 3"		
3/16	.187	15.80
1/4	.250	20.72
10" x 4"		
3/16	.187	17.08
1/4	.250	22.42
5/16	.312	27.59
3/8	.375	32.58
1/2	.500	42.05
10" x 5"		
1/4	.250	24.12
5/16	.312	29.72
10" x 6"		
3/16	.187	19.63
1/4	.250	25.82
5/16	.312	31.84
3/8	.375	37.69
1/2	.500	48.85

(continued)

EVERGLADES
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RECTANGULAR TUBING

MECHANICAL AND STRUCTURAL CARBON STEEL
STOCK LENGTHS: 20 FT., 24 FT., & 40 FT. RANDOM
SIZES IN STOCK

Wall Gauge	Wall Decimal	Weight per Ft. in Lbs.
10" x 8"		
1/4	.250	29.23
5/16	.312	36.12
3/8	.375	42.79
1/2	.500	55.66
12" x 2"		
3/16	.187	17.08
1/4	.250	22.42
12" x 3"		
3/16	.187	18.65
1/4	.250	24.12
12" x 4"		
3/16	.187	19.63
1/4	.250	25.82
5/16	.312	31.84
3/8	.375	37.69
1/2	.500	48.85
12" x 6"		
1/4	.250	29.23
5/16	.312	36.10
3/8	.375	42.79
1/2	.500	55.66
12" x 8"		
1/4	.250	32.63
3/8	.375	47.90
1/2	.500	62.46
5/8	.625	76.33
14" x 4"		
1/4	.250	29.23
3/8	.375	42.79
14" x 6"		
1/4	.250	32.63
3/8	.375	47.90
14" x 10"		
5/16	.312	49.67
3/8	.375	58.10
16 x 4"		
3/8	.375	47.90
16" x 8"		
5/16	.312	48.86
3/8	.375	58.10
1/2	.500	76.07
16" x 12"		
5/16	.312	57.36
3/8	.375	68.31
1/2	.500	89.68
18" x 6"		
3/8	.375	58.10
20" x 8"		
3/8	.375	68.31

EXPANDED METAL & GRATING

EXPANDED METAL

EXPANDED METAL is a continuous mesh in sheet form produced by slitting and expanding solid sheets to form an open diamond pattern. It has only about one-tenth the weight of solid sheet, yet maintains considerable strength and rigidity.

Additional advantages are its light weight, ease of fabrication and free passage of air, light and spilled liquids. Its skid-resistant surface makes it well suited for walkways and catwalk gratings. There are no sharp edges or burrs, and the mesh is easily cleaned.

In the standard raised pattern of **EXPANDED METAL**, the strands are set at a sharp angle to the plane of the sheet, while in the flattened pattern, the mesh has been cold rolled so that the strands are all flat and in one plane. This results in a smooth surface on which small objects can be placed or slid without danger of tipping. In addition, it can easily be welded and electroplated or painted with various finishes for decorative purposes.

EXPANDED METAL is available from our warehouses as listed on the following pages. It is also available in other sizes to meet your requirements on special order. Both the standard and flattened **EXPANDED METAL** have numerous structural applications, including shelving, machinery guards, walkways, stair treads and risers, window guards, and partitions.

When ordering **EXPANDED METAL,** it should be remembered that the width of the sheet is always measured in the direction of the short dimension of the diamond, while the length is measured in the direction of the long dimension of the diamond. Since this material is not available in all sizes in all metals, please check with us for your specific requirements.

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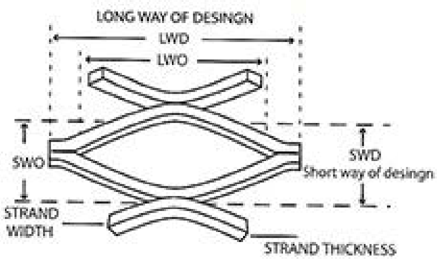
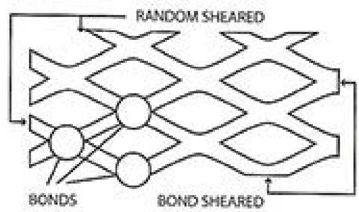
CARBON STEEL EXPANDED METAL





TERMINOLOGY AND SHEARING TOLERANCES

STYLE DIMENSION - Nominal dimension Short Way of Design (SWD).

DESIGN SIZE - Actual dimension SWD & LWD. Measured from a point to a corresponding point on the following desing.

(SWO) - Short Way of Opening

(LWO) - Long Way of Opening

STRANDS - The sides of the expanded metal design.

STRAND THICKNESS - Gauge thickness of metal expanded.

STRAND WIDTH - Amount of metal fed under dies to produce one strand.

BOND - Where two strands intersect. Eliminates prongs or jagged edges.

Tolerance: Minus 0 plus 1/2 the design size, either SWD or LWD.
Special bond tolerances on meshes of 1/4" and under.

RANDOM: This type of shearing leaves prongs or jagged edges.
Tolerance" ± 1/16".

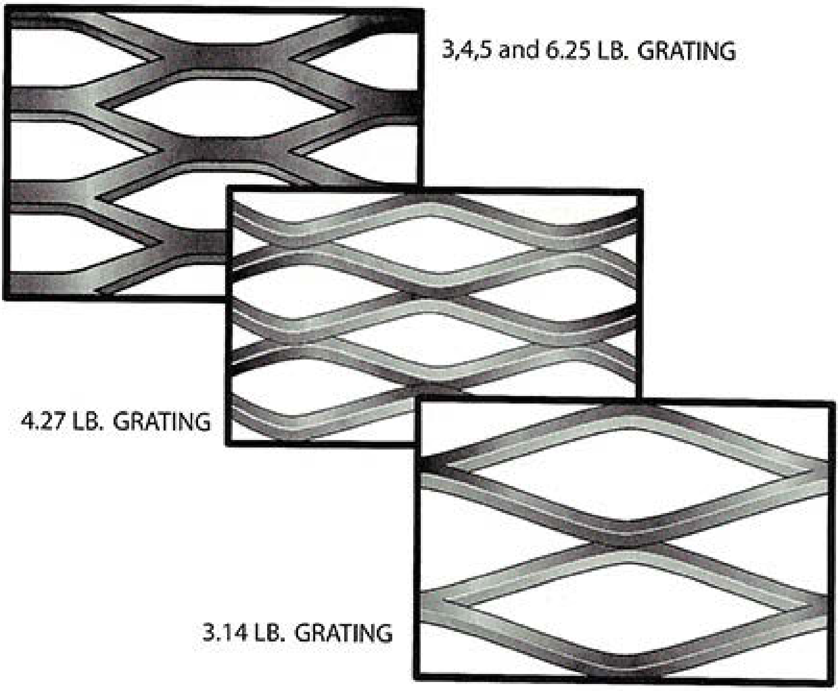
CARBON STEEL EXPANDED METAL (FLATTENED)

STYLE	Weight in lbs. Per c.s.f.		Standard Sizes in Feet		Size of Openings In Inches		Center to Center of Bond In Inches		Size of Strands In Inches		Percent Open Area	Overall Thick-ness In Inches
	Plain	Galv.	Width	Length	Width	Length	Width	Length	Width	Thickness		
1/4" - #20	83	124	4	8	.094	.688	.255	1.03	.086	.030	47	.030
1/4" - #18	111	165	4	8	.094	.688	.255	1.03	.086	.040	40	.040
1/2" - # 20	40	51	4	8	.375	1.000	.500	1.26	.070	.029	72	.029
1/2" - #18	66	88	3-4-6	8-10	.281	1.000	.500	1.26	.109	.039	69	.039
1/2" - #16	82	100	3-4-6	8-10	.250	1.000	.500	1.26	.103	.050	60	.050
1/2" - #13	140	162	3-4-6	8-10	.250	1.000	.500	1.26	.122	.070	57	.070
3/4" - #16	51	61	3-4-6	8-10	.750	1.750	.923	2.10	.115	.048	75	.048
3/4" - #14	63	75	3-4-6	8-10	.688	1.813	.923	2.12	.119	.061	70	.061
3/4" - #13	75	86	3-4-6	8-10	.688	1.782	.923	2.10	.119	.070	73	.070
3/4" - # 9	171	186	3-4-6	8-10-12	.563	1.688	.923	2.12	.164	.120	63	.120
1" - #16	41	50	4	8	.875	2.250	1.090	2.56	.115	.048	77	.048
1 1/2" - #16	38	44	4	8	1.063	2.750	1.330	3.20	.123	.048	82	.048
1 1/2" - #14	46	56	3-4-6	8	1.063	2.750	1.330	3.20	.138	.060	82	.060
1 1/2" - #13	57	68	3-4-6	8	1.063	2.750	1.330	3.20	.138	.070	80	.070
1 1/2" - # 9	111	128	3-4-6	8-10-12	1.000	2.563	1.330	3.20	.175	.110	77	.110

Weights, Gauges, Dimensions and Sizes listed above are approximate

EVERGLADES
STEEL
CORPORATION

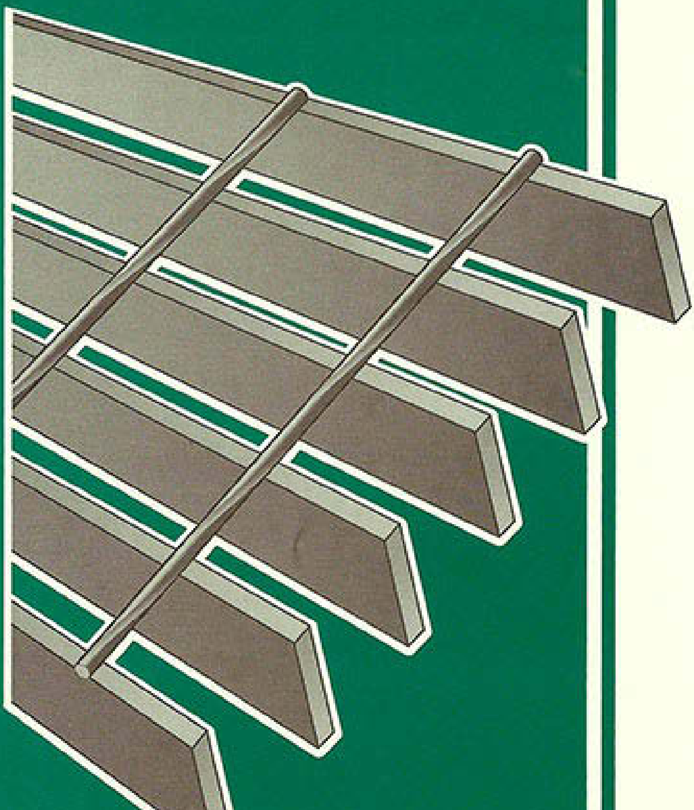
EXPANDED METAL GRATINGS



SIZES • DIMENSIONS • WEIGHTS

Style Designation	Approx. Wt. in Lbs. per Sq. Ft. Plain	Stock Sizes of Sheets	Approx. Size of Mesh Center To Center of Bridges (in Inches) Width	Length	Size of Strand (in inches) Thick-ness	Width	No. Diamonds in 12" Wid	Lgth	Size of Opening (in inches)	Percent Open Area	Approx. Over-all Thickness (in inches)
4.27 lb. Grating	4.29	4' & 5' x 10'	1.412	4.00	.250	.295	8 1/2	3	1.006 x 2.968	56 to 62	.600
3.14 lb. Grating	3.14	4' & 5' x 10	2.000	6.00	.250	.308	6	2	1.657 x 4.903	70 to 74	.616
3.0 lb. Grating	3.00	4' & 5' x 8' & 10'	1.333	5.33	.183	.264	9	2 1/4	.938 X 3.438	70 to 76	.530
4.0 lb. Grating	4.00	4' & 5' x 8' & 10'	1.333	5.33	.215	.297	9	2 1/4	.975 x 3.594	62 to 70	.578
5.0 lb. Grating	5.00	4' x 8'	1.333	5.33	.215	.371	9	2 1/4	.950 x 3.40	49 to 54	.679
6.25 lb. Grating	6.25	4' x 8'	1.412	5.33	.312	.346	8 1/2	2 1/4	.915 x 3.460	52 to 60	.718
7.0 Grating	7.00	4' x 8'	1.333	5.33	.281	.407	9	2 1/4	.735 x 2.750	38 to 43	.740

BAR GRATING



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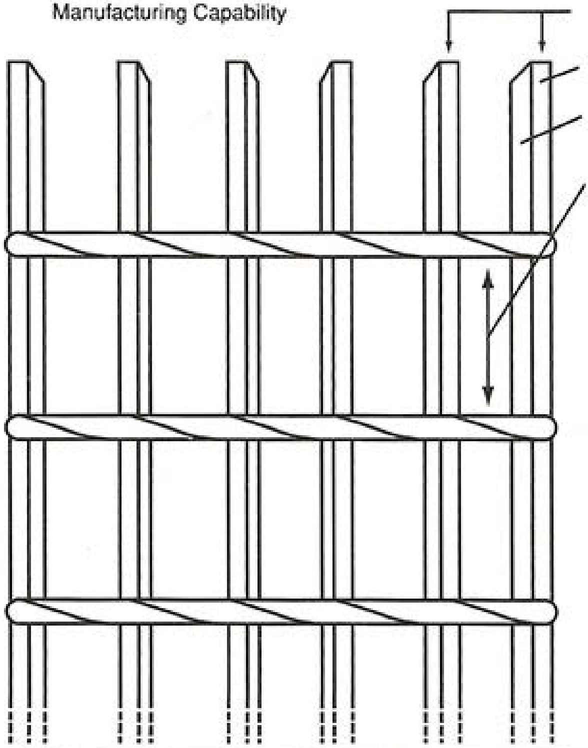
BAR GRATING

Manufacturing Capability



Bearing Bar Spacing
1 3/16", 15/16", C.C.

Bearing Bar Thickness
1/8", 3/16", 1/4"

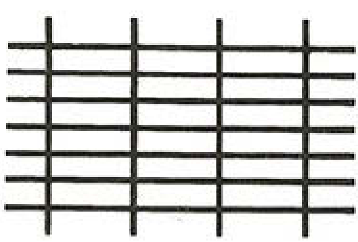
Bearing Bar Depth
3/4" - 2 1/2" in 1/4" increments

Cross Bar Spacing
4", 2"

Panel Widths and Lengths:
24" x 20' & 24'
36" x 20' & 24'
Surface Conditions:
Plain (smooth) & Serrated
Finish:
Unpainted, Painted (red or black.) hot-dip Galvanized after fabricatio
Stair Treads:
Abrasive or patterned floor plate nosings are available.
Anchoring Clips:
Readily available.
Special Products:
Aluminum, heavy duty & fabricate gratings are available on special order.

TYPES OF WELDED BAR GRATING

Type 1
1 3/16" Bearing bar spacing
4" Cross bar spacing
Ideal general purpose grating



Type 2
1 3/16" Bearing bar spacing
2" Cross bar spacing
Same as 194 with smaller openings

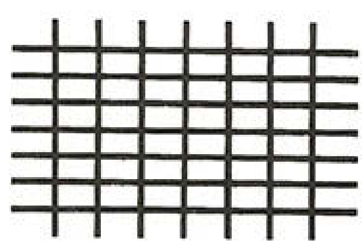


TABLE OF WEIGHTS PER SQUARE FOOT IN LBS.

BB SIZE	TYPE I	TYPE II
3/4" x 1/8"	3.9	4.4
3/4" x 3/16"	5.5	6.0
1" x 1/8"	4.9	5.5
1" x 3/16"	7.1	7.2
1" x 1/4"	9.2	10.0
1 1/4" x 1/8"	6.0	6.4
1 1/4" x 3/16"	8.7	9.0
1 1/4" x 1/4"	11.4	12.0
1 1/2" x 1/8"	7.1	7.5
1 1/2" x 3/16"	10.3	10.6
1 1/2" x 1/4"	13.5	14.2
1 3/4" x 3/16"	12.1	13.2
1 3/4" x 1/4"	15.7	17.4
2" x 3/16"	13.8	14.8
2" x 1/4"	18.1	19.1
2 1/4" x 3/16"	14.8	15.7
2 1/4" x 1/4"	20.0	21.1
2 1/2" x 3/16"	17.0	17.2
2 1/2" x 1/4"	22.1	23.2

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CORPORATION

STAIR TREADS

Table of Tread Widths and "A"

WIDTH OF TREAD		END PLATE
1/8" BB	3/16" BB	DIMENSION A
6 1/8"	6 3/16"	2 1/2"
7 5/16"	7 3/8"	4 1/2"
8 1/2"	8 9/16"	4 1/2"
9 11/16"	9 3/4"	7"
10 7/8"	10 15/16"	7"
12 1/16"	12 1/8"	7"

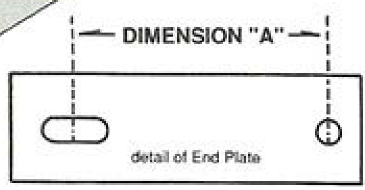


Table of Tread Weights

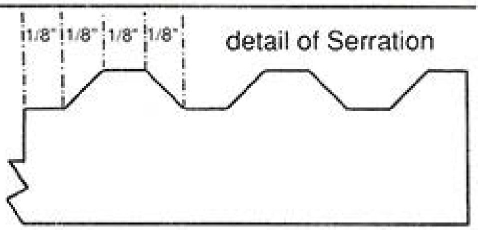
TREAD WIDTH	3/4 X 3/16		1 X 3/16		1 1/4 X 3/16	
	Wt.	ADD PER INCH	Wt.	ADD. PER INCH	Wt.	ADD. PER INCH
6 3/16"	7.83	.34	9.03	.41	10.23	.48
7 3/8"	8.97	.39	10.41	.47	11.85	.55
8 9/16"	10.11	.43	11.79	.52	13.47	.62
9 3/4"	11.25	.48	13.17	.59	15.09	.69
10 15/16"	12.39	.53	14.55	.65	16.71	.76
12 1/8"	13.53	.57	15.93	.71	10.33	.84

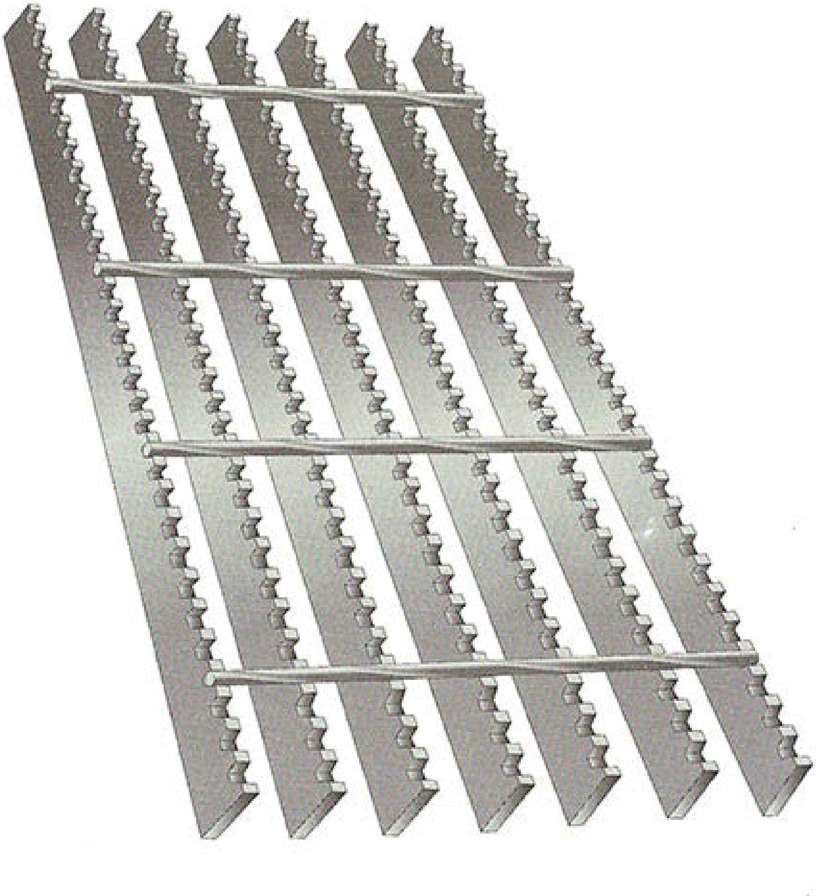
Table of Bearing Bar Sizes

BB SIZE	RECOMMENDED LENGTH OF TREAD
3/4" x 3/16"	2'3"
1" x 1/8"	3'0"
1" x 3/16"	3'6"
1 1/4" x 1/8"	4'0"
1 1/4" x 3/16"	4'6"
1 1/2" x 3/16"	5'6"

EVERGLADES STEEL CORPORATION

SERRATED BAR GRATING





Note: Serrated Bar Grating has a slip free surface which offers superior safety in any condition. The dimensions of the serrated Bar Grating are the same as the Type 1 bar grating.

ALUMINUM

EVERGLADES
STEEL
CORPORATION

ALUMINUM FLAT SHEET
3003 - H14
Mill Finish

QQ-A-250/2 ASTM B 209 AMS 4008

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.016 x 36 x 96	.2281	5.474
36 x 120	.2281	6.843
.020 x 36 x 96	.2851	6.842
36 x 120	.2851	8.553
.025 x 36 x 96	.3564	8.554
36 x 120	.3564	10.69
48 x 96	.3564	11.40
48 x 120	.3564	14.26
48 x 144	.3564	17.11
.032 x 36 x 96	.4562	10.95
36 x 120	.4562	13.69
48 x 96	.4562	14.60
48 x 120	.4562	18.25
48 x 144	.4562	21.90
.040 x 36 x 96	.5702	13.68
36 x 120	.5702	17.11
48 x 96	.5702	18.25
48 x 120	.5702	22.81
48 x 144	.5702	27.37
60 x 144	.5702	34.21
.050 x 36 x 96	.7128	17.11
36 x 120	.7128	21.38
48 x 96	.7128	22.81
48 x 120	.7128	28.51
48 x 144	.7128	34.21
60 x 144	.7128	42.77
.063 x 36 x 96	.8981	21.55
36 x 120	.8981	26.94
48 x 96	.8981	28.74
48 x 120	.8981	35.92
.063 x 48 x 144	.8981	43.11
60 x 144	.8981	53.89
.080 x 36 x 96	1.141	27.38
48 x 120	1.141	45.64
48 x 144	1.141	54.77
60 x 144	1.141	68.46
.090 x 36 x 96	1.283	30.79
48 x 120	1.283	51.32
48 x 144	1.283	61.58
60 x 144 *	1.283	76.98
.100 x 36 x 96	1.426	34.22
48 x 120 *	1.426	57.04
48 x 144	1.426	68.45
60 x 144 *	1.426	85.56
.125 x 36 x 96	1.782	42.77
36 x 120	1.782	53.46
48 x 96	1.782	57.02
48 x 120	1.782	71.28
48 x 144	1.782	85.54
60 x 144	1.782	106.9
72 x 144	1.782	128.3
.190 x 36 x 96	2.709	65.02
48 x 120	2.709	108.4
48 x 144	2.709	130.0
60 x 144	2.709	162.5
72 x 144	2.709	195.0
.249 x 48 x 144 **	3.550	170.4
60 x 144 **	3.550	213.0

EVERGLADES
STEEL
CORPORATION

ALUMINUM FLAT SHEET

5052-H32

Mill Finish

.063" and heavier Paper Interleaved

QQ-A-250/8 ASTM B 209 AMS 4016

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.020 x 36 x 96	.2794	6.706
.025 x 36 x 96	.3492	8.381
48 x 96	.3492	11.17
.032 x 36 x 96	.4470	10.73
48 x 120	.4470	17.88
48 x 144	.4470	.21.46
.040 x 36 x 96	.5587	13.41
48 x 96	.5587	17.88
48 x 120	.5587	22.35
48 x 144	.5587	26.82
.050 x 36 x 96	.6984	16.76
48 x 96	.6984	22.35
48 x 120	.6984	27.94
48 x 144	.6984	33.52
60 x 144	.6984	41.90
.063 x 36 x 96	.8800	21.12
48 x 96	.8800	28.16
48 x 120	.8800	35.20
48 x 144	.8800	42.24
60 x 144	.8800	52.80
.080 x 36 x 96	1.117	26.81
48 x 96	1.117	35.74

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.080 x 36 x 120	1.117	44.68
48 x 144	1.117	53.62
.090 x 36 x 96	1.257	30.17
48 x 96	1.257	40.22
48 x 120	1.257	50.28
48 x 144	1.257	60.34
60 x 144	1.257	75.42
.100 x 48 x 120	1.397	55.88
48 x 144	1.397	67.06
.125 x 36 x 96	1.746	41.90
36 x 120	1.746	52.38
48 x 96	1.746	55.87
48 x 120	1.746	69.84
48 x 144	1.746	83.81
60 x 144	1.746	104.8
72 x 144	1.746	125.7
.160 x 48 x 144	2.235	107.3
.190 x 36 x 96	2.654	63.70
48 x 96	2.654	84.93
48 x 144	2.654	127.4
72 x 144	2.654	191.1
.249 x 48 x 144	3.478	166.9
60 x 144	3.478	208.7

EVERGLADES STEEL CORPORATION

ALUMINUM ANGLES / AMERICAN STANDARD
6061-T6 (Extruded)

QQ-A-200/8 (Except for Marking)
QQ-A-200/16 ASTM B 308
Identified / Stock Lengths 25 Ft.

Size in Inches	Lbs. per Ft.
3/4 x 3/4 x 1/16**	.1058
1/8	.2011
1 x 1 x 1/8	.2752
3/16	.3998
1/4	.5139
1 1/4 x 1 1/4 x 1/8	.3434
3/16	.5104
1/4	.6562
1 1/2 x 1 1/4 x 1/8	.3869
3/16	.5657
1/4	.7338
1 1/2 x 1 1/2 x 1/8	.4234
3/16	.6221
1/4	.8091
1 3/4 x 1 1/4 x 1/8	.4210
3/16	.6209
1/4	.8091
1 3/4 x 1 3/4 x 1/8	.4974
3/16	.7315
1/4	.9561
2 x 1 1/2 x 1/8	.4963
3/16	.7315
1/4	.9561
2 x 2 x 1/8	.5774
3/16	.8502
1/4	1.110
3/8	1.606
2 1/2 x 2 x 3/16	.9608
1/4	1.257
2 1/2 x 2 1/2 x 3/16	1.070
1/4	1.404
2 1/2 x 2 1/2 x 5/16	1.729
3/8	2.047
3 x 2 x 3/16	1.071
1/4	1.403
3/8	2.047
3 x 2 1/2 x 1/4	1.537
3 x 3 x 3/16	1.275
1/4	1.684
5/16	2.082
3/8	2.474
1/2	3.227
3 1/2 x 2 1/2 x 1/4	1.684
5/16	2.082
3/8	2.470
3 1/2 x 3 1/2 x 1/4	1.989
5/16	2.461
4 x 3 x 1/4	1.989
3/8	2.926
4 x 4 x 1/4	2.283
3/8	3.366
1/2	4.414
5 x 3 x 3/8	3.349
5 x 3 1/2 x 1/2	4.704
5 x 5 x 3/8	4.237
1/2	5.578
6 x 3 1/2 x 3/8	4.121
6 x 4 x 3/8	4.237
1/2	5.578
6 x 6 x 3/8	5.119
1/2	6.754
8 x 8 x 1/2	9.141

EVERGLADES STEEL CORPORATION

ALUMINUM RECTANGLES 6061-T6511 (Extruded)

QQ-A-200/8 ASTM B 221

Identified / Stock Lengths 12 Ft. (Sharp Corners)

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/8 x 3/4	.1103	1.324
1	.1470	1.764
1 1/4	.1838	2.206
1 1/2	.2205	2.646
2	.2940	3.528
3/16 x 3/4	.1654	1.985
1	.2205	2.646
1 1/4	.2756	3.307
1 1/2	.3308	3.970
2	.4410	5.292
3	.6615	7.938
1/4 x 3/4	.2205	2.646
1	.2940	3.528
1 1/4	.3675	4.410
1 1/2	.4410	5.292
2	.5880	7.056
2 1/2	.7350	8.820
3	.8820	10.58
3 1/2	1.032	12.38
4	1.176	14.11
4 1/2	1.320	15.84
5	1.470	17.64
6	1.764	21.17
12	3.528	42.34
5/16 x 3/4	.2756	3.307
1	.3675	4.410
1 1/2	.5513	6.616
2	.7350	8.820
3	1.103	13.24
3/8 x 1/2	.2205	2.646
3/4	.3308	3.970
1	.4410	5.292
1 1/4	.5513	6.616
1 1/2	.6615	7.938
2	.8820	10.58
2 1/2	1.103	13.24
3	1.323	15.88
4	1.764	21.17
5	2.205	26.46
6	2.646	31.75
1/2 x 3/4	.4410	5.292
1	.5880	7.056
1 1/4	.732	8.784
1 1/2	.8820	10.58
1 3/4	1.029	12.35
2	1.176	14.11
2 1/2	1.470	17.64
3	1.764	21.17
4	2.352	28.22
4 1/2	2.646	31.75
5	2.940	35.28
6	3.528	42.34
5/8 x 1	.7350	8.820
1 1/2	1.103	13.24
2	1.470	17.64
3/4 x 1	.8820	10.58
1 1/4	1.103	13.24
1 1/2	1.323	15.88
1 3/4	1.544	18.53
2	1.764	21.17
2 1/2	2.205	26.46
3	2.646	31.75
3 1/2	3.087	37.04
4	3.528	42.34
5	4.416	52.99
6	5.292	63.50
1 x 1 1/4	1.470	17.64
1 1/2	1.764	21.17
2	2.352	28.22
2 1/2	2.940	35.28
3	3.528	42.34
3 1/2	4.116	49.39
4	4.704	56.45
5	5.880	70.56
6	7.056	84.67
8	9.408	112.9
1 1/4 x 1 1/2	2.205	26.46
2	2.940	35.28
2 1/2	3.675	44.10
3	4.410	52.92
3 3/4	5.513	66.16
4	5.880	70.56
4 1/2	6.615	79.38
5 1/2	8.085	97.02
1 1/2 x 2	3.528	42.34
2 1/2	4.410	52.92
3	5.292	63.50
4	7.056	84.67
5 1/2	9.702	116.4
6	10.58	127.0
6 1/2	11.47	137.6
8 1/2	14.99	179.9
1 5/8 x 2	3.828	45.94
1 3/4 x 3 3/4	7.718	92.62
4 1/2	9.261	111.1
5 1/2	11.32	135.8
2 x 3	7.056	84.67
4	9.408	112.9
5	11.76	141.1
6 1/2	15.29	183.5
8 1/2	19.99	239.9
2 1/2 x 4	11.76	141.1
3 x 4	14.11	169.3
5	17.64	211.7

EVERGLADES STEEL CORPORATION

ALUMINUM SHEET, PLATE AND COIL
GUIDE TO SELECTION

NON-HEAT TREATABLE (COMMON) ALLOYS

1100 (UNS A91100) is commercially pure aluminum (99.00% minimun). Excellent corrosion resistance, workability and weldability; high thermal conductivity. Tensile strength range 14,000 to 24,000 psi. Uses include deep drawing and spinning requirements, sheet metal work, decorative and architectural applications, air ducts, name plates, fan blades, etc. Conforms to Federal specification: QQ-A-250/1.

3003 (UNS A93003) is alloyed with 1.2% manganese to provide a tensile strength range of 17,000 to 30,000 psi. Excellent workability, weldability and corrosion resistance. Used for drawing, spinning, fuel tanks, sheet metal work and other applications where slightly higher strength than 1100 is required. Conforms to Federal specification QQ-A-250/2.

5005 (UNS A955005) Is alloyed with .8% magnesium. Tensile strength range 18,000 to 30,000 psi. Excellent workability, weldability, and corrosion resistance. Specified for applications comparable to 1100 and 3003- were anodizing is requieres. Anodized finish matches that of architectural alloy 6063. Conforms to ASTM spcification B209.

5052 (UNS A95052) is alloyed with 2.5% magnesium. Tensile strength range 31,000 to 44,000 psi. Very good corrosion resistance, good workability, weldability and strength. Used for aircraft fuel tanks, storm shutters, refrigerator liners, utensils, electronic mounting plates and panels, fans blades, etc. Conforms to Federal specification QQ-A-258/8.

5083 (UNS A95083) is alloyed with 4.45% magnesium, 0.65% manganese and 0.15% chromium. Tensile strength range: 40,000 to 59,000 psi. For use in structures requiring hight weld efficiency for maximum joint strength-plus light weight and corrosion resistance. Aplications: marine components, truck bodies, construction equipment, tanks, structural towers, drilling rigs, cryogenic applications, etc. Conforms to ASME SB 209.

5086 (UNS A95086) is alloyed with 4.0% magnesium, 45% manganese and 0.15% chromium. This alloy has a typixal tensile strength range 40,000 to 59,000 psi. It offers resistance to stress corrosion and superior resistence to atmospheric corrosion plus good general workability. Applicatons include tanks (stationary, trailer and rail car), marine components and welded assemblies of all kinds. Conforms to Federal specification QQ-A-250/7.

5454 (UNS A95454) is alloyed with 2.7% magnesium, 0.8% manganese and 0.12% chromium. Tensile strength range 36,000 to 47,000 psi. Good formability, weldability and corrosion resistance. Uses include pressure vessels (ASME code approved for up to 400° F), tanks, welded structures, etc. Conforms to Federal specification QQ-A-250/10.

STAINLESS STEEL

EVERGLADES STEEL CORPORATION

STAINLESS STEEL PLATES
TYPES 304, 304L

Hot Rolled, Annealed and Pickled / Non - Magnetic *

ASTM A 167　ASTM A 240　ASME SA- 240　QQ-S-766 Cond. A

Size in Inches			Lbs. per Sq. Ft.	Est. Lbs. per Ft.	Stock Lengths, Feet 304	304L
3/16	x	48	8.579	34.32	8, 10, 12, 20	8, 10, 12, 20
		60		42.90	8, 10, 12, 20	8, 10, 12, 20
		72		51.47	10, 12, 20R	
		84		60.05	20R	
		96		68.63	20R	20R
1/4	x	48	11.16	44.64	8, 10, 12, 20	8, 10, 12, 20
		60		55.80	8, 10, 12, 20	8, 10, 12, 20
		72		66.96	10, 12, 20R	
		84		78.12	20R	20R
		96		89.28	20R	20R
5/16	x	48	13.75	55.00	8, 10, 12, 20	
		84		96.25	20R	
		96		110.0	20R	
3/8	x	48	16.50	66.00	8, 10, 12, 20R	
		60		82.50	20R	20R
		72		99.00	20R	20R
		96		132.0	20R	20R
1/2	x	48	21.66	86.64	8, 10, 12, 20R	
		60		108.3	20R	
		72		130.0	20R	20R
		96		173.3	20R	20R
5/8	x	96	26.83	214.6	20R	
3/4	x	96	32.12	257.0	20R	20R
7/8	x	96	37.29	298.3	20R	
1	x	96	42.67	341.4	20R	20R
1 1/8	x	96	47.83	382.6	20R	
1 1/4	x	96	53.00	424.0	20R	20R
1 1/2	x	96	63.34	506.7	20R	20R
1 3/4	x	96	73.67	589.4	20R	20R
2	x	96	84.01	672.1	20R	20R
2 1/2	x	96	105.1	840.8		20R
3	x	96	126.3	1010.4		20R

* MAY BE SLIGHTLY MAGNETIC WHEN COLD WORKED

EVERGLADES STEEL CORPORATION

STAINLESS STEEL PLATES
TYPES 316, 316L

Hot Rolled, Annealed and Pickled / Non - Magnetic *

ASTM A 167 ASTM A 240 ASME SA- 240 QQ-S-766 Cond. A

Size in Inches			Lbs. per Sq. Ft.	Est. Lbs. per Ft.	Stock Lengths, Feet 316	Stock Lengths, Feet 316L
3/16	x	48	8.579	34.32	8, 10, 12, 20	8, 10, 12, 20
		60		42.90	8, 10, 12, 20	8, 10, 12, 20
		72		51.47	20R	20R
		84		60.05	20R	20R
		96		68.63	20R	20R
1/4	x	48	11.16	44.64	8, 10, 12, 20	8, 10, 12, 20
		60		55.80	8, 10, 12, 20	8, 10, 12, 20
		72		66.96	20R	20R
		84		78.12	20R	20R
		96		89.28	20R	20R
3/8	x	60	16.50	82.50	20R	20R
		72		99.00	20R	20R
		96		132.0	20R	20R
1/2	x	72	21.66	130.0	20R	20R
		96		173.3	20R	20R
5/8	x	96	26.83	214.6	20R	20R
3/4	x	96	32.12	257.0	20R	20R
7/8	x	96	37.29	298.3	20R	20R
1	x	96	42.67	341.4	20R	20R
1 1/4	x	96	53.00	424.0		20R
1 1/2	x	96	63.34	506.7		20R

* MAY BE SLIGHTLY MAGNETIC WHEN COLD WORKED

EVERGLADES
STEEL
CORPORATION

STAINLESS STEEL FLATS
TYPES 304, 316

Annealed and Pickled / Non - Magnetic *

QQ-S-763 Cond. A ASTM A 276 ASTM A 479 ASME SA- 479

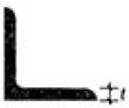
Size in Inches			Lbs. per Foot.	Est. Lbs. 12' Bar	304	316
1/8	x	* 1/2	.2125	2.550	x	---
		* 5/8	.2656	3.187	x	---
		* 3/4	.3188	3.826	x	---
		*1	.4250	5.100	x	x
		*1 1/4	.5313	6.376	x	---
		*1 1/2	.6375	7.650	x	x
		*2	.8500	10.20	x	x
		*2 1/2	1.063	12.76	x	---
		*3	1.275	15.30	x	---
3/16	x	1/2	.3188	3.826	x	---
		5/8	.3984	4.781	x	---
		* 3/4	.4781	5.737	x	---
		*1	.6375	7.650	x**	x
		*1 1/4	.7969	9.563	x	---
		*1 1/2	.9563	11.48	x**	x
		*1 3/4	1.116	13.39	x	---
		*2	1.275	15.30	x**	x
		*2 1/2	1.594	19.13	x	---
		*3	1.913	22.96	x	---
1/4	x	1/2	.4250	5.100	x	x
		5/8	.5313	6.376	x	---
		* 3/4	.6375	7.650	x	---
		*1	.8500	10.20	x**	x
		*1 1/4	1.063	12.76	x**	x
		*1 1/2	1.275	15.30	x**	x
		*1 3/4	1.488	17.86	x	---
		*2	1.700	20.40	x**	x
		*2 1/2	2.125	25.50	x	x
		*3	2.550	30.60	x**	x
		*4	3.400	40.80	x	---
		*6	5.100	61.20	x	---
3/8	x	1/2	.6375	7.650	x	---
		3/4	.9563	11.48	x	---
		1	1.275	15.30	x	x
		1 1/4	1.594	19.13	x	---
		1 1/2	1.913	22.96	x	x
		1 3/4	2.231	26.77	x	---
		2	2.550	30.60	x	x
		2 1/2	3.188	38.26	x	---
		*3	3.825	45.90	x	x
		4	5.100	61.20	x	---
3/8	x	5	6.375	76.50.	x	---
		6	7.650	91.80	x	---
1/2	x	3/4	1.275	15.30	x	---
		1	1.700	20.40	x	x
		1 1/4	2.125	25.50	x	---
		1 1/2	2.550	30.60	x	x
		1 3/4	2.975	35.70	x	---
		2	3.400	40.80	x	x
		2 1/2	4.250	51.00	x	x
		3	5.100	61.20	x	x
		3 1/2	5.950	71.40	x	---
		4	6.800	81.60	x	---
		4 1/2	7.650	91.80	x	---
		5	8.500	102.0	x	---
		6	10.20	122.4	x	---
5/8	x	3/4	1.594	19.13	x	---
		1	2.125	25.50	x	---
		1 1/2	3.188	38.26	x	---
		2	4.250	51.00	x	---
		2 1/2	5.313	63.76	x	---
		3	6.375	76.50	x	---
		3 1/2	7.438	89.26	x	---
		4	8.500	102.0	x	---
		6	12.75	153.0	x	---
3/4	x	1	2.550	30.60	x	---
		1 1/4	3.188	38.26	x	---
		1 1/2	3.825	45.90	x	---
		2	5.100	61.20	x	---
		2 1/2	6.375	76.50	x	---
		3	7.650	91.80	x	---
		4	10.20	122.4	x	---
		5	12.75	153.0	x	---
		6	15.30	183.6	x	---
1	x	1 1/2	5.100	61.20	x	---
		1 3/4	5.950	71.40	x	---
		2	6.800	81.60	x	x
		2 1/2	8.500	102.0	x	---
		3	10.20	122.4	x	---
		4	13.60	163.2	x	---
		6	20.40	244.8	x	---

+ MAY BE SLIGHTLY MAGNETIC WHEN COLD WORKED
* PRODUCED FROM STRIP
** ALSO 20 ft.

EVERGLADES
STEEL
CORPORATION

STAINLESS STEEL ANGLES
Types: 304,316 -Non magnetic*

Annealed and Pickled



ASTM A 276 ASTM A 497 ASME SA- 479
QQ-S-763 Cond. A
Stock Lengths 20 Ft. Random

Size in Inches	Est. Lbs. per Ft.	Stock Lengths, Feet 304	316
3/4 x 3/4 x 1/8	0.59	11.80	----
1 x 1 x 1/8	0.80	16.00	16.00
3/16	1.16	23.20	----
1/4	1.49	29.80	----
1 1/4 x 1 1/4 x 1/8	1.01	20.20	----
3/16	1.48	29.60	----
1/4	1.92	38.40	----
1 1/2 x 1 1/2 x 1/8	1.23	24.60	24.60
3/16	1.80	36.00	36.00
1/4	2.34	46.80	46.80
2 x 2 x 1/8	1.65	33.00	----
3/16	2.44	48.80	48.80
1/4	3.19	63.80	63.80
3/8	4.70	94.00	----
2 1/2 x 2 1/2 x 3/16	3.07	61.40	----
1/4	4.10	82.00	----
3/8	5.90	118.00	----
3 x 3 x 1/4	4.90	98.00	98.00
3/8	7.20	144.00	144.00
3 1/2 x 3 1/2 x 1/4	5.80	116.00	----
4 x 4 x 1/4	6.60	132.00	----
3/8	9.80	196.00	----

* May be slightly magnetic when cold worked

EVERGLADES
STEEL
CORPORATION

RANDOM LENGTHS: 10 TO 22 FT.

STAINLESS ROUND

TYPES: 303, 304, 316

Type 303 / Specs: AMS-5640, ASTM-A582, ASTM-A581.

Type 304 / SW-300M (Materials) and SW-800M (Testing), AMS-5639, ASTM-A276, ASTM-A479.

Type 316 / SW-300M (Materials) and SW-800M (Testing), AMS-5648, ASTM-A276, ASTM-A479.

Size in Inches	Est. Wt. per Ft. in Lbs.	Type 303 UNS S30300	Type 304 UNS S30400	Type 316 UNS S31600
3/32	.023	X	---	---
1/8	.042	X	X	---
.132	.047	X	---	---
5/32	.065	X	---	---
3/16	.094	X	X	X
.194	.100	X	---	---
7/32	.128	X	---	---
1/4	.168	X	X	X
.256	.175	X	---	---
9/32	.211	---	---	---
5/16	.262	X	X	X
11/32	.316	---	---	---
.372	.369	---	---	---
3/8	.378	X	X	X
.383	.392	X	---	---
7/16	.514	X	X	X
.431	.496	---	---	---
.445	.529	X	---	---
1/2	.671	X	X	X
5/8	1.05	---	---	---

ANNEALED AND CENTERLESS GROIND

Size in Inches	Est. Wt. per Ft. in Lbs.	Type 303 UNS S30300	Type 304 UNS S30400	Type 316 UNS S31600
17/32	.754	---	---	---
1/2	.668	X	---	---
.508	.689	X	---	---
9/16	.845	X	X	---
5/8	1.05	X	X	X
.633	1.07	X	---	---
11/16	1.27	X	X	X
3/4	1.51	X	X	X
.758	1.53	X	---	---
13/16	1.77	X	X	X
7/8	2.06	X	X	X
29/32	.219	---	---	---
15/16	2.36	X	---	X
1	2.68	X	X	X
1.008	2.71	X	---	---
1 1/16	3.01	X	---	---
1 1/8	3.38	X	X	X
1 3/16	3.76	X	X	X
1 7/32	3.97	---	---	---
1 1/4	4.17	X	X	X

* Tolerance 1" and under; + or - .0005".
2 Annealed and centerless ground.

(Continued)

EVERGLADES STEEL CORPORATION

STAINLESS ROUNDS

TYPES: 303, 304, 316

Size in Inches	Est. Wt. per Ft. in Lbs.	Type 303 UNS S30300	Type 304 UNS S30400	Type 316 UNS S31600
1 5/16	4.60	X	X	---
1 3/8	5.02	X	X	X
1 7/16	5.52	X	X*	X
1 1/2	6.01	X	X	X
1 9/16	6.52	X	---	---
1 5/8	7.05	X	X	X
1 11/16	7.60	X	---	---
1 3/4	8.18	X	X	X
1 7/8	9.39	X	X	X
1 15/16	10.02	X	X	X
2	10.68	X	X*	X*
2 1/8	12.06	X	X	X
2 3/16	12.78	X	X	X
2 1/4	13.52	X	X	X
2 9/32	13.90	---	---	---
2 3/8	15.07	X	X	X
2 7/16	15.86	X	X	---
2 1/2	16.69	X	X*	X*
2.526	17.04	---	X	---
2 5/8	18.40	X	X	X
2 3/4	20.19	X	X	X
2 7/8	22.07	X	X	X
2 15/16	23.04	---	X	X
3	24.03	X	X*	X*
3 1/8	26.08	X	X	X
3 1/4	28.20	X	X	X
3 3/8	30.42	X	X	X
3 1/2	32.71	X	X*	X*
3 5/8	35.09	---	X	X
3 3/4	37.56	X	X	X
4	42.73	X	X*	X*
4 1/2	54.07	---	X	---
HOT ROLLED, ANNEALED AND ROUGH TURNED				
4 1/4	48.23	X	X	X
4 1/2	54.07	X	X	X
4 3/4	60.25	X	X	X
5	66.76	X	X	X
5 1/4	73.60	---	X	X
5 1/2	80.77	X	X	X
5 3/4	88.29	---	---	X
6	96.14	X	X	X
6 1/4	104.3	---	---	X
6 1/2	112.8	---	---	X
6 3/4	121.7	---	---	X
7	130.9	---	X	---
7 1/4	140.4	---	---	X
7 1/2	150.2	---	---	X
8	170.9	---	X	X
8 1/2	192.9	---	---	X
9	216.3	---	---	X
10	267.0	---	X	---
12	384.5	---	X	---

* Also available in special tolerances.

(Continued)

STAINLESS SHEET

TYPES: 304, 316.

Type 304 / Cold rolled annealed pickled Finishes:
2B, 3, 4.Spec.: QQ-S-766, MIL-S-5059, ASTM-A240, ASME SA240
Type 316 / Cold rolled annealed, pickled, 2B and 3 Finish.
Spec.: QQ-S-766, ASTM-A240, ASME SA240.
All sizes can be furnished polished to No. 3 or No. 4 Finish.

Gauge & Size in Inches	Thickness Inches.	Est. Wt. in Lbs. per Sq. Ft.	Est. Wt. in Lbs. per Sheet
7 Ga. x 48 x 96	.1875	7.871	251.9
48 x 120	.1875	7.871	314.8
60 x 120	.1875	8.020	401.0
8 Ga. x 48 x 120	.1650	6.930	277.2
10 Ga. x 36 x 120	.1350	5.670	170.1
36 x 144	.1350	5.670	204.1
48 x 96	.1350	5.670	181.4
48 x 120	.1350	5.670	226.8
48 x 144	.1350	5.670	272.2
60 x 96	.1376	5.779	231.2
60 x 120	.1376	5.779	289.0
60 x 144	.1376	5.779	346.7
72 x 144	.1406	5.905	425.2
11 Ga. x 36 x 96	.1200	5.040	121.0
36 x 120	.1200	5.040	151.2
48 x 96	.1200	5.040	161.3
48 x 120	.1200	5.040	201.6
48 x 144	.1200	5.040	241.9
60 x 96	.1225	5.145	205.8
60 x 120	.1225	5.145	257.3
60 x 144	.1225	5.145	308.7
72 x 144	.1250	5.250	378.0
12 Ga. x 36 x 96	.1054	4.427	106.2
36 x 120	.1054	4.427	132.8
36 x 144	.1054	4.427	159.4
42 x 120	.1054	4.427	154.9
42 x 144	.1054	4.427	185.9
48 x 120	.1054	4.427	177.1
48 x 144	.1054	4.427	212.5
60 x 96	.1074	4.511	180.4
60 x 120	.1074	4.511	225.6
60 x 144	.1074	4.511	270.7
72 x 144	.1094	4.595	330.8
13 Ga. x 36 x 96	.0900	3.780	90.72
36 x 120	.0900	3.780	113.4
48 x 120	.0900	3.780	151.2
14 Ga. x 30 x 120	.0751	3.154	78.85
36 x 96	.0751	3.154	75.70
36 x 120	.0751	3.154	94.62
36 x 144	.0751	3.154	113.5
42 x 120	.0751	3.154	110.4
42 x 144	.0751	3.154	132.5
48 x 96	.0751	3.154	100.9

* Most sizes also available with a No. 3 finish.
Some sizes available with a No. 8 mirror finish.

(Continued)

EVERGLADES STEEL CORPORATION

STAINLESS SHEETS

TYPES: 304, 316

Gauge & Size in Inches	Thickness Inches.	Est. Wt. in Lbs. per Sq. Ft.	Est. Wt. in Lbs. per Sheet
14 Ga. x 48 x 120	.0751	3.154	126.2
48 x 144	.0751	3.154	151.4
60 x 96	.0766	3.217	128.7
60 x 120	.0766	3.217	160.9
60 x 144	.0766	3.217	193.0
72 x 144	.0781	3.280	236.2
16 Ga. x 30 x 96	.0595	2.499	49.98
30 x 120	.0595	2.499	62.48
32 x 120	.0595	2.499	66.64
36 x 96	.0595	2.499	59.98
36 x 120	.0595	2.499	74.97
36 x 144	.0595	2.499	89.96
42 x 120	.0595	2.499	87.47
48 x 96	.0595	2.499	79.97
48 x 108	.0595	2.499	89.96
48 x 120	.0595	2.499	99.96
48 x 144	.0595	2.499	120.0
60 x 96	.0610	2.562	102.5
60 x 120	.0610	2.562	128.2
60 x 144	.0610	2.562	153.7
18 Ga. x 30 x 96	.0480	2.016	40.32
30 x 120	.0480	2.016	50.40
36 x 96	.0480	2.016	48.38
36 x 120	.0480	2.016	60.48
36 x 144	.0480	2.016	72.58
42 x 120	.0480	2.016	70.56
48 x 96	.0480	2.016	64.51
48 x 120	.0480	2.016	80.64
48 x 144	.0480	2.016	96.77
56 x 120	.0490	2.058	96.05
60 x 120	.0490	2.058	102.9
60 x 144	.0490	2.058	123.5
19 Ga. x 36 x 120	.0420	1.764	52.92
20 Ga. x 30 x 96	.0355	1.491	29.92
30 x 120	.0355	1.491	37.28
36 x 96	.0355	1.491	35.78
36 x 120	.0355	1.491	44.73
36 x 144	.0355	1.491	53.68
42 x 96	.0355	1.491	41.75
42 x 120	.0355	1.491	52.19
48 x 96	.0355	1.491	47.71
48 x 120	.0355	1.491	59.64
48 x 144	.0355	1.491	71.57
22 Ga. x 30 x 120	.0293	1.231	30.78
36 x 96	.0293	1.231	29.54
36 x 120	.0293	1.231	36.93
48 x 96	.0293	1.231	39.39
48 x 120	.0293	1.231	49.24
48 x 144	.0293	1.231	59.09

* Most sizes also available with a No. 3 finish.

EVERGLADES STEEL CORPORATION

STAINLESS TUBING

COLD DRAWN, ANNEALED AND PICKLED

Seamless or Welded - Type 304

RANDOM LENGTHS: 17 to 24 Ft.

O.D. in Inches	Average Wall B.W. Ga	Average Wall Dec. Inches	I.D. in Inches	Wt. per Ft. in Lbs.
1/2 x	**20**	.035	.430	.1738
	18	.049	.402	.2360
	16	.065	.370	.3020
	13	.095	.310	.4109
5/8 x	**20**	.035	.555	.2205
	18	.049	.527	.3014
	16	.065	.495	.3888
	11	.120	.385	.6472
3/4 x	**20**	.035	.680	.2673
	18	.049	.652	.3668
	16	.065	.620	.4755
	13	.095	.560	.6646
7/8 x	**18**	.049	.777	.4323
	16	.065	.745	.5623
	11	.120	.635	.9676
1 x	**20**	.035	.930	.3607
	18	.049	.902	.4977
	16	.065	.870	.6491
	14	.083	.834	.8129
	13	.095	.810	.9182
	11	.120	.760	1.128
	3/16	.188	.625	1.630
	1/4	.250	.500	2.003
1 1/4 x	**16**	.065	1.120	.8226
	14	.083	1.084	1.034
	11	.120	1.010	1.448
	3/16	.188	.875	2.132
	1/4	.250	.750	2.670
1 1/2 x	**16**	.065	1.370	.9962
	11	.120	1.260	1.769
	3/16	.188	1.125	2.634
	1/4	.250	1.000	3.338
1 3/4 x	**16**	.065	1.620	1.170
	11	.120	1.510	2.089
	3/16	.188	1.375	3.136
1 7/8 x	**13**	.095	1.685	1.806
2 x	**16**	.065	1.870	1.343
	14	.083	1.834	1.699
	11	.120	1.760	2.409
	3/16	.188	1.625	3.638
	1/4	.250	1.500	4.673

(Continued)

EVERGLADES
STEEL
CORPORATION

STAINLESS TUBING

COLD DRAWN, ANNEALED AND PICKLED

Seamless or Welded - Type 304

O.D. in Inches	Average Wall B.W. Ga	Average Wall Dec. Inches	I.D. in Inches	Wt. per Ft. in Lbs.
2 1/4 x	16	.065	2.120	1.517
	11	.120	2.010	2.730
	3/16	.188	1.875	4.140
	1/4	.250	1.750	5.340
2 1/2 x	18	.049	2.402	1.283
	14	.083	2.334	2.143
	11	.120	2.260	3.050
	1/4	.250	2.000	6.008
2 3/4 x	16	.065	2.620	1.864
	11	.120	2.510	3.371
3 x	16	.065	2.870	2.037
	11	.120	2.760	3.691
	3/16	.188	2.625	5.646
	1/4	.250	2.500	7.343
3 1/4 x	11	.120	3.010	4.011
3 1/2 x	16	.065	3.370	2.385
3 x	14	.083	3.834	3.472
	11	.120	2.760	4.973

(Continued)

STAINLESS SQUARES

Type 303, 304

Type 303 / Free machining. identification color : black
Specs: QQ-S-764, ASTM-A582

Type 304 / Specs: QQ-S-763, AMS-5639, ASTM-A276, DuPond
SW-300M (Materials) and SW-800M (Testing)

Size in Inches	Est. Wt. per Ft. in Lbs.	Type 303 UNS S30300	Type 304 UNS S30400	Size in Inches	Est. Wt. per Ft. in Lbs.	Type 303 UNS S30300	Type 304 UNS S30400
1/8*	.053	X	---	3/4	1.92	X	X
3/16*	.120	X	---	7/8	2.62	X	---
1/4*	.214	X	X	1	3.42	X	X
5/16*	.332	X	---	1 1/8	4.30	X	---
3/8*	.481	X	X	1 1/4	7.65	X	X
7/16*	.651	---	X	1 1/2	5.31	X	X
1/2*	.855	X	X	1 3/4	10.41	X	---
5/8	1.33	X	X	2	13.60	X	X

* Wire size

EVERGLADES
STEEL
CORPORATION

STAINLESS PIPE

HOT FINISHED, ANNEALED AND PICKLED

Seamless

Type 304 / Specs.: MIL-P-1144, ASTM-A312, ASTM-A376
Type 316 / Spec.: MIL-P-1144, ASTM-A312, ASTM-A376
Random Lengths: 17 to 24 Ft.

Iron Pipe Size in Inches	Wt. per Ft. in Lbs.	Diameter in Inches O.D.	Diameter in Inches I.D.	Wall Thick. in Inches	Type 304 UNS S30400	Type 316 UNS S31600
Schedule 40 - Standard Iron Pipe Sizes						
3/4	1.131	1.050	.824	.113	X	X
1	1.679	1.315	1.049	.133	X	X
1 1/4	2.273	1.660	1.380	.140	X	X
1 1/2	2.718	1.900	1.610	.145	X	X
2	3.653	2.375	2.067	.154	X	X
2 1/2	5.793	2.875	2.469	.203	X	—
3	7.576	3.500	3.068	.216	X	X
3 1/2	9.109	4.000	3.548	.226	X	X
4	10.79	4.500	4.026	.237	X	X
Schedule 80 - Extra Heavy Iron Pipe Sizes						
1	2.172	1.315	.957	.179	X	---
1 1/4	2.997	1.660	1.278	.191	X	---
1 1/2	3.631	1.900	1.500	.200	X	---
2	5.022	2.375	1.939	.218	X	---
2 1/2	7.661	2.875	2.323	.276	X	---
3	10.25	3.500	2.900	.300	X	---
3 1/2	12.51	4.000	3.364	.318	X	X
4	14.98	4.500	3.826	.337	X	X

Other types and sizes of seamless hot finished stainless pipe are available on request.

STANDARD WROUGHT STAINLESS STEEL - CHEMICAL COMPOSITION LIMITS*

AISI Type No.	SAE No.	UNS Number	Composition Limits, Per Cent: C Max.	Mn Max.	Si Max.	P Max.	S Max.	Cr	Ni	Other Elements
201	30201	S20100	0.15	5.50/7.50	1.00	0.060	0.030	16.00/18.00	3.50/5.50	N 0.25 Max.
202	30202	S20200	0.15	7.50/10.00	1.00	0.060	0.030	17.00/19.00	4.00/6.00	N 0.25 Max.
205	---	S20500	0.12/0.25	14.00/15.50	1.00	0.060	0.030	16.50/18.00	1.00/1.75	N 0.32/040
301	30301	S30100	0.15	2.00	0.75	0.045	0.030	16.00/18.00	6.00/8.00	N 0.10 Max.
302	30302	S30200	0.15	2.00	1.00*	0.045	0.030	17.00/19.00	8.00/10.00	N 0.10 Max.
302B	30302B	S30215	0.15	2.00	2.00/3.00	0.045	0.030	17.00/19.00	8.00/10.00	----
303	30303	S30300	0.15	2.00	1.00	0.20	0.15 Min	17.00/19.00	8.00/10.00	Mo Max.0.75
303 Se	30303Se	S30323	0.15	2.00	1.00	0.20	0.060	17.00/19.00	8.00/10.00	Se 0.15 Min.
304	30304	S30400	0.08	2.00	1.00*	0.045	0.030	18.00/20.00	8.00/10.50	N 0.10 Max.
304L	30304L	S30403	0.030	2.00	1.00*	0.045	0.030	18.00/20.00	8.00/12.00	N 0.10 Max.
304N	---	S30451	0.08	2.00	1.00*	0.045	0.030	18.00/20.00	8.00/10.50	N 0.10/016
305	30305	S30500	0.12	2.00	1.00*	0.045	0.030	17.00/19.00	10.50/13.00	----
308	30308	S30800	0.08	2.00	1.00	0.045	0.030	19.00/21.00	10.00/12.00	----
309	30309	S30900	0.20	2.00	1.00	0.045	0.030	22.00/24.00	12.00/15.00	----
309S	30309S	S30908	0.08	2.00	1.00*	0.045	0.030	22.00/24.00	12.00/15.00	----
310	30310	S31000	0.25	2.00	1.50	0.045	0.030	24.00/26.00	19.00/22.00	----
310S	30310S	S31008	0.08	2.00	1.50	0.045	0.030	24.00/26.00	19.00/22.00	----
314	30314	S31400	0.25	2.00	1.50/3.00	0.045	0.030	23.00/26.00	19.00/22.00	----
316	30316	S31600	0.08	2.00	1.00*	0.045	0.030	16.00/18.00	10.00/14.00	Mo 2.00/3.00, N 0.10 Max.
316F	---	S31620	0.08	2.00	1.00	0.02	0.10 Min	16.00/18.00	10.00/14.00	Mo 1.75/2.50
316L	30316L	S31603	0.030	2.00	1.00*	0.045	0.030	16.00/18.00	10.00/14.00	Mo 2.00/3.00, N 0.10 Max.
316N	---	S31651	0.08	2.00	1.00*	0.045	0.030	16.00/18.00	10.00/14.00	Mo 2.00/3.00, N 0.10/0.16 Max.
317	30317	S31700	0.08	2.00	1.00*	0.045	0.030	18.00/20.00	11.00/15.00	Mo 3.00/4.00, N 0.10 Max.
317L	---	S31703	0.030	2.00	1.00*	0.045	0.030	18.00/20.00	11.00/15.00	Mo 3.00/4.00, N 0.10 Max.
321	30321	S32100	0.08	2.00	1.00*	0.045	0.030	17.00/19.00	9.00/12.00	Ti 5x(C+N) Min. - 0.70 Max.
329	---	S32900	0.08	2.00	0.75	0.040	0.030	23.00/28.00	2.50/5.00	Mo 1.00/2.00
330	30330	N08330	0.08	2.00	0.75/1.50	0.040	0.030	17.00/20.00	34.00/37.00	----
347	30347	S34700	0.08	2.00	1.00*	0.045	0.030	17.00/19.00	9.00/13.00	Cb +Ta 10xC Min.
348	30348	S34800	0.08	2.00	1.00*	0.045	0.030	17.00/19.00	9.00/13.00	Cb +Ta 10xC Min.,Ta 0.10 Max. Ca 0.20 Max.
384	30384	S38400	0.08	2.00	1.00	0.045	0.030	15.00/17.00	17.00/19.00	----
---	30385	S38500	0.08	2.00	1.00	0.045	0.030	11.50/13.50	14.00/16.00	----

* Maximums unless otherwise indicated. * Bars 1.00 Max., Sheet/Plate 0.75 Max. Tubing varies depending on specific action.

EVERGLADES STEEL CORPORATION

TYPICAL MECHANICAL PROPERTIES OF STANDARD STEELS

These figures are NOT GUARANTEED

			MECHANICAL PROPERTIES				TYPICAL HARDNESS		
AISI Number	SAE Number	Material	Tensile Strength ksi	Yield Strength ksi	Elongation in 2" %	Reduction of Area %	BHN	Rockwell	Machinability % of CD 1212
303	30303	*Annealed Bar	85/95	30/40	45/55	50/60	160/180	B83/95	73
304	30304	*Annealed Bar *Sheet/Plate	80/90 75 min	30/40 30 min	55/65 40 min	65/75 ----	150/180 202 max	B80/90 B92 max	45 ----
304L	30304L	*Sheet/Plate	70 min	25 min	40 min	----	183 max	B88 max	----
309	30309	*Sheet	75 min	30 min	40 min	----	217 max	B95 max	----
316	30316	*Annealed Bar *Sheet/Plate	75/90 75 min	30/40 30 min	40/50 40 min	60/70 ----	150/180 217 max	B80/90 B95 max	40 ----
316L	30316L	*Sheet/Plate	70 min	25 min	40 min	----	217 max	B95 max	----
321	30321	*Sheet	75 min 100 max	30 min	40 min	----	217 max	B95 max	----
416	51416	Annealed Bar	80/100	55/65	15/25	40/50	190/220	B90/95	90
420	51420	Annealed Bar	95	50	25	55	195	B92	55
430	51430	Sheet	65 min	30 min	20 min	----	183 max	B88 max	----
440F Se	51440F Se	Annealed Bar	100/120	60/70	10/15	20/30	200/260	B94/C25	48
630 (17-4)	---	Cond-A Bar ** Cond - H900 Bar ** Cond - H1025 Bar	150 200 170	110 185 165	6/15 14 15	30/60 50 56	321 415 352	C35 C44 C38	45 ---- ----

* May be slightly magnetic when cold worked / ** Not stoked - typical properties

MISCELLANEOUS

EVERGLADES
STEEL
CORPORATION

MISCELLANEOUS

Our lines of products also include certain materials described below:

1) **Mechanical Tubing:** We carry a line of round mechanical tubing from 18 to 24 feet in length with a wide range of diameters and wall dimensions.

2) **Processing And Fabricating:** We are equipped to perfom many value added services to help our customers become more efficient. Such services include sawing, punching, shearing, galvanizing, painting, bending and many more.
Please ask about our fabricating services so we can assist wirh your final product.

3) We also service a vast line of **aluminum** and **brass products.** Specifications are available upon request.

4) **Fittings:** We stock a wide line of pipe fittings. Our line includes products such as elbows (45° and 90°), flanges, blind flanges, tees, reducers, and caps of all sizes and level of tolerance.

5) We specialize in supplying sugar cane mills and the sugar industry in South America, Central America and the Caribbean with items such as shafts, bronce bearings, cast bronze bars, copper bearings, and stainless steel used in the fabrication of vacuum pans, evaporators, etc.

EVERGLADES
STEEL
CORPORATION

USEFUL DATA

• **To find circumference** of a circle, multiply diameter by 3.1416.

• **To find diameter** of a circle, multiply circumference by .31831.

• **To find area** of a circle, multiply square of diameter by .7854.

• **Area of a rectangle** = length multiplied by breadth. Doubling the diameter of a circle increases its area four times.

• **To find area of a triangle**, multiply base by 1/2 perpendicular height.

• **Area of ellipse** = product of both diameters times .7854.

• **Area of parallelogram**= base times altitude.

• **To find side of an inscribed square** multiply diameter by 0.7071. or multiply circumference by 0.2251 or divide circumference by 4.4428.

• **Side of inscribed cube=** radius of sphere times 1.1547.

• **To find side of an equal square**, multiply diameter by .8862. Square. A side multiplied by 1.4142 equals diameter of its circumscribing circle.

• A side multiplied by 4.443 equals **circumference of its circumcribing circle.**

• A side multiplied by 1.128 equals **diameter of an equal circle.**

• A side multiplied by 3.547 equals **circumference of an equal circle.**

• **To find cubic inches in a ball**, multiply cube of diameter by .5236.

• **To find cubic contents of a cone**, multiply area of base 1/3 the altitude.

• **Surface of frustrum of cone or pyramid** = sum of circumference of both ends times 1/2 slant height plus area of both ends.

• **Contents of frustrum of cone or pyramid** = multiply area of two ends and get square root. Add the 2 areas and multiply 1/3 altitude.

• **Doubling the diameter of a pipe** increases its capacity four times.

• **A gallon of water** (U.S. standard) weighs 8-1/3 lbs. and contains 231 cubic inches.

• **A cubic foot of water** contains 7-1/2 gallons 1728 cubic inches, and weighs 62-1/2 lbs.

• To find the **pressure in pounds per square inch of a column of water,** multiply the height of the column in feet by .434.

• **To find capacity of tanks** any size given dimensions of a cylinder in inches, to find its capacity in U.S. gallons: square the diameter, multiply by the length and by .0034.

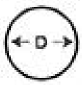
EVERGLADES STEEL CORPORATION

WEIGHT FORMULAS

Steel weigths are based on 2836 lbs. per cubic inch, aluminum on .0979 lbs. per cubic inch (1100 alloy). Use conversion factors to convert steel weights to other metals.

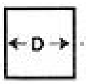
Lbs. Per Lineal Foot

ROUNDS



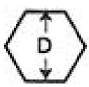
Steel: $2.6729 \times D^2$
Aluminum: $.924 \times D^2$
D= Size. Inches

SQUARES



Steel: $3.4032 \times D^2$
Aluminum: $1.18 \times D^2$
D= Size. Inches

HEXAGONS



Steel: $2.9473 \times D^2$
Aluminum: $1.02 \times D^2$
D= Size. Inches

OCTAGONS

Steel: $2.8193 \times D^2$
Aluminum: $.974 \times D^2$
D= Size. Inches

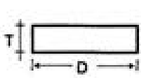
FLATS

Steel: $3.4032 \times T \times W$
Aluminum: $1.18 \times T \times W$
T= Thickness, In.
W= Width, Inches

TUBING

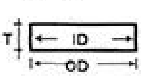
Steel: $10.68 \times (OD\text{-}W \times W)$
Aluminum: $3.70 \times (OD\text{-}W) \times W)$
OD= OD. Inches
W= Wall, Inches

CIRCLES



Steel: $.22274 \times T \times D^2$
Aluminum: $.077 \times T \times D^2$
D= Diameter. In.
T= Thickness. In.

RINGS



Steel: $.22274 \times T \times (OD^2 - ID^2)$
Aluminum: $.077 \times T \times (OD^2 - ID^2)$
OD= OD. Inches
ID= ID. Inches
ID= Thickness. In.

Conversion Factors

	Multiply Stell Weight by	Density Lbs./In.^{3}
Aluminum:		
1100	.3462	.098
2011	.3604	.102
2014	.3568	.101
2017	.3568	.101
2024	.3533	.100
3003	.3498	.099
5005	.3462	.098
5052	.3427	.097
5056	.3356	.095
5083	.3392	.096
5086	.3392	.096
6061	.3462	.098
6063	.3462	.098
7075	.3568	.101
7178	.3604	.102
Stainless		
300 Series	1.010	.286
400 Series	1.000	.283
Nickel		
200	1.132	.321
201	1.132	.321
400	1.125	.319
600	1.072	.304
625	1.075	.305
718	1.047	.297
X750	1.051	.298
800	1.012	.287
800H	1.012	.287
825	1.037	.294
904 L	1.026	.291
Hastelloy ®		
C-276	1.132	.321
B-2	1.174	.333
C-4	1.100	.312
G-3	1.058	.300
Magnesium	.229	.065
Beryllium	.236	.067
Titanium	.575	.163
Zirconium	.812	.230
Cast Iron	.911	.258
Zinc	.911	.258
Brass	1.084	.307
Columbium	1.095	.310
Copper	1.144	.324
Molybdenum	1.303	.369
Silver	1.339	.379
Lead	1.448	.410
Tantalum	2.120	.600
Tungsten	2.462	.697
Gold	2.466	.698

EVERGLADES
STEEL
CORPORATION

CONVERTING INCHES INTO DECIMALS OF A FOOT

Inches	Decimal of a Ft.	Inches	Decimal of a Ft.
1/16 ...	.005208	1/16 ...	.255208
1/8 ...	.010416	1/8 ...	.260416
3/16 ...	.015625	3/16 ...	.265625
1/4 ...	.020833	1/4 ...	.270833
5/16 ...	.026042	5/16 ...	.276042
3/8 ...	.031250	3/8 ...	.281250
7/16 ...	.036458	7/16 ...	.286458
0" 1/2 ...	.041666	3" 1/2 ...	.291666
9/16 ...	.046875	.250 9/16 ...	.296875
5/8 ...	.052083	5/8 ...	.302083
11/16 ...	.057292	11/16 ...	.307292
3/4 ...	.062500	3/4 ...	.312500
13/16 ...	.067708	13/16 ...	.317708
7/8 ...	.072916	7/8 ...	.322916
15/16 ...	.078125	15/16 ...	.328125
1/16 ...	.088542	1/16 ...	.338542
1/8 ...	.093750	1/8 ...	.343750
3/16 ...	.098958	3/16 ...	.348958
1/4 ...	.104166	1/4 ...	.354166
5/16 ...	.109375	5/16 ...	.359375
3/8 ...	.114583	3/8 ...	.364583
1" 7/16 ...	.119792	7/16 ...	.369792
.083333 1/2 ...	.125000	4" 1/2 ...	.375000
9/16 ...	.130208	.33333 9/16 ...	.380208
5/8 ...	.135416	5/8 ...	.385416
11/16 ...	.140625	11/16 ...	.390625
3/4 ...	.145833	3/4 ...	.395833
13/16 ...	.151042	13/16 ...	.401042
7/8 ...	.156250	7/8 ...	.406250
15/16 ...	.161458	15/16 ...	.411458
1/16 ...	.171875	1/16 ...	.421875
1/8 ...	.177083	1/8 ...	.427083
3/16 ...	.182292	3/16 ...	.432292
1/4 ...	.187500	1/4 ...	.437500
5/16 ...	.192708	5/16 ...	.442708
3/8 ...	.197906	3/8 ...	.447916
7/16 ...	.203125	7/16 ...	.453125
2" 1/2 ...	.208333	5" 1/2 ...	.458333
.166666 9/16 ...	.213542	9/16 ...	.463542
5/8 ...	.218750	.416666 5/8 ...	.468750
11/16 ...	.223958	11/16 ...	.473958
3/4 ...	.229166	3/4 ...	.479166
13/16 ...	.234375	13/16 ...	.484375
7/8 ...	.239583	7/8 ...	.489583
15/16 ...	.244792	15/16 ...	.494792

 (continued)

EVERGLADES STEEL CORPORATION

CONVERTING INCHES INTO DECIMALS OF A FOOT

Inches		Decimal of a Ft.	Inches		Decimal of a Ft.
	1/16 ...	.505208		1/16 ...	.755208
	1/8 ...	.510416		1/8 ...	.760416
	3/16 ...	.515625		3/16 ...	.765625
	1/4 ...	.520833		1/4 ...	.770833
	5/16 ...	.526042		5/16 ...	.776042
	3/8 ...	.531250		3/8 ...	.781250
	7/16 ...	.536458		7/16 ...	.786458
6"	1/2 ...	.541666	9"	1/2 ...	.791666
.50	9/16 ...	.546875	.750	9/16 ...	.796875
	5/8 ...	.552083		5/8 ...	.802083
	11/16 ...	.557292		11/16 ...	.807292
	3/4 ...	.562500		3/4 ...	.812500
	13/16 ...	.567708		13/16 ...	.817708
	7/8 ...	.572916		7/8 ...	.822916
	15/16 ...	.578125		15/16 ...	.828125
	1/16 ...	.588542		1/16 ...	.838542
	1/8 ...	.593750		1/8 ...	.843750
	3/16 ...	.598958		3/16 ...	.848958
	1/4 ...	.604166		1/4 ...	.854166
	5/16 ...	.609375		5/16 ...	.859375
	3/8 ...	.614583		3/8 ...	.864583
	7/16 ...	.619792		7/16 ...	.869792
7"	1/2 ...	.625000	10"	1/2 ...	.875000
.583333	9/16 ...	.630208	.833333	9/16 ...	.880208
	5/8 ...	.635416		5/8 ...	.885416
	11/16 ...	.640625		11/16 ...	.890625
	3/4 ...	.645833		3/4 ...	.895833
	13/16 ...	.651042		13/16 ...	.901042
	7/8 ...	.656250		7/8 ...	.906250
	15/16 ...	.661458		15/16 ...	.911458
	1/16 ...	.671875		1/16 ...	.921875
	1/8 ...	.677083		1/8 ...	.927083
	3/16 ...	.682292		3/16 ...	.932292
	1/4 ...	.687500		1/4 ...	.937500
	5/16 ...	.692708		5/16 ...	.942708
	3/8 ...	.697916		3/8 ...	.947916
	7/16 ...	.703125		7/16 ...	.953125
8"	1/2 ...	.708323	11"	1/2 ...	.958333
.66666	9/16 ...	.713542	.916666	9/16 ...	.963542
	5/8 ...	.718750		5/8 ...	.968750
	11/16 ...	.723958		11/16 ...	.973958
	3/4 ...	.729166		3/4 ...	.979166
	13/16 ...	.734375		13/16 ...	.984375
	7/8 ...	.739583		7/8 ...	.989583
	15/16 ...	.744792		15/16 ...	.994792

EFFECTS OF ALLOYS IN STEEL

IRON

Iron is the chief element of steel. Normally commercial iron constains other elements present in varying quantities which produce the required physical properties. Iron lacks strenght, is very ductile and soft and does not respond to heat treatment to any appreciable degree. It can be hardened somewhat by cold working, but not nearly as much as even plain low carbon steel.

CARBON

When a small amount of carbon is added to iron, the properties wich give steel its great value begin to appear. As the amount of carbon increases up to .80 per cent or .90 per cent, the metal becomes harder, possesses greater tensile strength, and, what is most important, becomes increasingly responsive to heat treatment with corresponding development of very high strength and hardness. If carbon were to be increased beyond certain limits in plain carbon steel, the ability to be worked either hot or cold would disappear almost entirely, and it would begin to assume the characteristic of cast iron. In cast iron, the carbon usually ranges from 1.7 per cent to 4.5 per cent.

MANGANESE

Next in importance to carbon is manganese. It is normally present in all steel, and functions both as a deoxidizer and also to impart strength and responsiveness to heat treatment. Manganese is usually present in quantities from 1/2 per cent to 2 per cent, but certain special steels are made in range of 10 per cent to 15 per cent.

PHOSPHORUS

Phosphorus is present in some quantity in all steel. In addition to increasing yield strength and reducing ductility at low temperatures, phosphorus is believed to increase resitance to atmospheric corrosion.

SILICON

Silicon is one of the common deoxidizers used during the process of manufacturing. It also may be present in varying quantities up to 1 per cent in the finished steel and has a beneficial effect on certain properties such as tensile strength. It is also used in special steels in the range of 1.5 per cent to 2.5 per cent silicon to improve the hardenability. In higher percentages, silicon is added as an alloy to produce certain electrical characteristics in the so-called silicon electrical steels, and also finds certain applications in some tool steels where it seems to have hardening and toughening effect.

 (continued)

EFFECTS OF ALLOYS IN STEEL

NICKEL

Nickel increases strength and toughness, but is one of the least effective elements with respect to increasing hardenability. The most general quantity addition is from 1 per cent to 4 per cent, although for certain applications, percentages as high as 36 per cent are used. Steels containing nickel usually have more impact resistance, especially al low temperatures. Certain stainless steels employ nickel up to about 10 per cent.

CHROMIUM

Chromium increases the response of steel to heat treatment. It also increases the depth of hardness penetration. Most chromium-bearing alloys contain .50 to 1.50 per cent chromium. Stainless steels contain chromium in large quantities (12 per cent to 25 per cent), frequently in combination with nickel, and possess increased resistance to oxidation and corrosion.

MOLYBDENUM

Molybdenum adds greatly to the penetration of hardness, and increases toughness. Molybdenum tends to help steel resist softening at high temperatures and is an important means of assuring high creep strength. It is generally used in comparatively small quantities ranging from .10 per cent to .40 per cent.

VANADIUM

Vanadium retards grain growth, even after hardening from high temperatures or after periods of extended heating. Vanadium is usually added in quantities from .15 to .20 per cent. Tool steels containing vanadium seem to resist shock better than those which do not have this element.

TUNGSTEN

Tungsten is used as an alloying element in tool steel and tends to produce a fine, dense grain and keen cutting edge when used in relatively small quantities. When used in larger quantities of 17 per cent to 20 per cent and in combination with other alloys, it produces a high speed steel which retains its hardness at the high temperatures developed in high speed cutting. Tungsten is also used in certain heat-resisting steel where the retention of strength at high temperatures is important. It is usually used in combinations with chrome or some other alloying elements.

ALUMINUM

Aluminum is probably the most active deoxidizer in common use in producing steel. It is used in controlling inherent grain size.

LEAD

Lead increases the machinability of steel. A process has been developed that assures a uniform dispersion of finely divided lead that has no effect upon the physical properties of the steel, but greatly increases the rate at which it can be machined. The lead is usually added in amounts from .15 per cent to .30 per cent.

TERMS, APPLICATION AND RESULTANT EFFECT

NORMALIZE

Normalizing is a treatment consisting of heating uniformly to a temperature at least 100° F, above the critical range and cooling in still air at room temperature.
The treatment produces a recrytallization and refinement of the grain structure and gives uniformity in hardness and structure to the product.
This type of treatment is applied to different analyses to produce different end results.

A- Normalizing is applied to certain grades of steel as a prior treatment to cold working or machining or for minimum distortion.
B- Normalizing is applied to other grades to produce a desired range of mechanical properties or as the first step of a double treatment to produce the desired range of mechanical properties, or to establish a preferred grain structure for a subsequent softening treatment.

QUENCH

Quenching is a treatment consisting of heating uniformly to a predetermined temperature and cooling rapidly in an air or liquid medium to produce a desired crystalline structure.
This treatment, like normalizing, is applied to different analyses to produce different end results.

A- Quenching is applied to the hardening grades as the first step in a double treatment to produce a desired range of mechanical properties or to establish a preferred crystalline structure for a subsequent softening treatment .

B- Quenching is applied to the austenitic or non-hardening stainless grades to produce a desired crystalline structure and relief of cold working stresses.

TEMPERING

Tempering is a treatment consisting of heating uniformly to some predetermined temperature under the critical range, holding at that temperature a designated period of time and cooling in air or liquid.
This treatment is used to produce one or more of the following end results:

A- To soften material for subsequent machining or cold working.
B- To improve ductility and relieve stresses resulting from prior treatment or cold working.
C- To produce the desired mechanical properties or structure in the second step of a double treatment.

ANNEALING

Annealing is a treatment consisting of heating uniformly to a temperature within or above the critical range and cooling at a controlled rate to a temperature under the critical range.
This treatment is used to produce a definite microstructure, usually one designed for best machinability, and/or to remove stresses, induce softness, and alter ductility, toughness or other mechanical properties.

TERMS, APPLICATION AND RESULTANT EFFECT

(continued)

SPHERODIZE ANNEAL

This is special type annealing and differs from that shown above only in the extemely long cycle required.

This treatment is used to produce a globular condition of the carbide and maximum softness for best machinability in some analyses or ability to withstand cold forming.

SOFT ANNEAL

This term is used to signify the thermal treatment applied after the final cold drawing or cold forming operation when maximum softness and ductility are desired.

The usual practice is to heat to a temperature just under the lower critical and cool in still air. It is sometimes necessary to modify this by heating to a slightly higher temperature and use a controlled furnace cool.

FINISH ANNEAL

The meaning of this term is often confused with that shown above for "soft anneal". The term "finish anneal" refers to the thermal treatment applied after the cold forming operation on mechanical tubing. This treatment is used when it is desired to relieve the stresses induced by cold working but retain the smooth surface produced by cold drawing. The temperature of this treatment would be 950˚F., and the light oxide formed at this temperature does not ordinarily require pickling.

STRESS RELIEF TEMPER

This treatment, often referred to as strain relief temper, is used to denote a final thermal treatment when stress free material is desired. Its purpose is to restore elastic properties and minimize distortion on subsequent machining or hardening operations. Ordinarily, no straightening is performed after the stress relief temper.

This treatment usually applies on material that has heat treated (quenched and tempered). Normal practice would be to heat to a temperature 100˚F lower than the tempering temperatures used to establish mechanical properties and hardness.

When the stress relieving treatment is applied to cold formed or cold sized product, the temperature used may produce on oxide coating that would require a pickling operation and loss in size necessitating a wider tolerance allowance.

EVERGLADES STEEL CORPORATION

HARDNESS CONVERSION TABLE

(Approximate Value)

BRINELL		ROCKWELL					
Diameter 3000 Kg. Load 10mm. Ball	Hard-ness No.	C	B	A	15-N	Shore	Tensile Streingsh Lb. / Sq. in
2.25	745	65.3	-	84.1	92.3	91	-
2.30	712	-	-	-	-	-	-
2.35	682	61.7	-	82.2	91.0	84	-
2.40	653	60.0	-	81.2	90.2	81	-
2.45	627	58.7	-	80.5	89.6	79	-
2.50	601	57.3	-	79.8	89.0	77	-
2.55	578	56.0	-	79.1	88.4	75	-
2.60	555	54.7	-	78.4	87.8	73	298
2.65	534	53.5	-	77.8	87.2	71	288
2.70	514	52.1	-	76.9	86.5	70	274
2.75	495	51.0	-	76.3	85.9	68	264
2.80	477	49.6	-	75.6	85.3	66	252
2.85	461	48.5	-	74.9	84.7	65	242
2.90	444	47.1	-	74.2	84.0	63	230
2.95	429	45.7	-	73.4	83.4	61	219
3.00	415	44.5	-	72.8	82.8	59	212
3.05	401	43.1	-	72.0	82.0	58	202
3.10	388	41.8	-	71.4	81.4	56	193
3.15	375	40.4	-	70.6	80.6	54	184
3.20	363	39.1	-	70.0	80.0	52	177
3.25	352	37.9	(110.0)	69.3	79.3	51	170
3.30	341	36.6	(109.0)	68.7	78.6	50	163
3.35	331	35.5	(108.5)	68.1	78.0	48	158
3.40	321	34.3	(108.0)	67.5	77.3	47	152
3.45	311	33.1	(107.5)	66.9	76.7	46	147
3.50	302	32.1	(107.0)	66.3	76.1	45	143
3.55	293	30.9	(106.0)	65.7	75.5	43	139
3.60	285	29.9	(105.5)	65.3	75.0	-	135
3.65	277	28.8	(104.5)	64.6	74.4	41	131
3.70	269	27.6	(104.0)	64.1	73.7	40	128
3.75	262	26.6	(103.0)	63.6	73.1	39	125
3.80	255	25.4	(102.0)	63.0	72.5	38	121
3.85	248	24.2	(101.0)	62.5	71.7	37	118
3.90	241	22.8	100.0	61.8	70.9	36	114
3.95	235	21.7	99.0	61.4	70.3	35	111
4.00	229	20.5	98.2	60.8	69.7	34	109
4.05	223	(18.8)	97.3	-	-	-	104
4.10	217	(17.5)	96.4	-	-	33	103
4.15	212	(16.0)	95.5	-	-	-	100
4.20	207	(15.2)	94.6	-	-	32	99
4.25	201	(13.8)	93.8	-	-	31	97
4.30	197	(12.7)	92.8	-	-	30	94
4.35	192	(11.5)	91.9	-	-	29	92
4.40	187	(10.0)	90.7	-	-	-	90
4.45	183	(9.0)	90.0	-	-	28	89
4.50	179	(8.0)	89.0	-	-	27	88
4.55	174	(6.4)	87.8	-	-	-	86
4.60	170	(5.4)	86.8	-	-	26	84
4.65	167	(4.4)	86.0	-	-	-	83
4.70	163	(3.3)	85.0	-	-	25	82
4.80	156	(0.9)	82.9	-	-	-	80
4.90	149	-	80.8	-	-	23	-
5.00	143	-	78.7	-	-	22	-
5.10	137	-	76.4	-	-	21	-
5.20	131	-	74.0	-	-	-	-
5.30	126	-	72.0	-	-	20	-
5.40	121	-	69.8	-	-	19	-
5.50	116	-	67.6	-	-	18	-
5.60	111	-	65.7	-	-	15	-

Hardness values are from SAE-ASM-ASTM Commitees on Hardness Conversions as printed in ASTME 140, Table 3. Tensile Strength values are from Federal Test Methods Standard No. 151A-method 241.2 dated Jan. 10 1961

EVERGLADES STEEL CORPORATION

METRIC

MEASUREMENT AND CONVERSION

LENGTH- Basic unit. is meter (m)

Metric Unit.	Meter	Inches	Feet	Yards	Miles
Millimeter (mm.)	.001	-	-	-	-
Centimeter (cm.)	.01	.3937	-	-	-
Decimeter (dm)	.1	3.937	.3281	.1094	-
Meter (m)	1	39.37	3.281	1.094	-
Decameter (dkm)	10	393.7	32.81	10.94	-
Hectometer (hm)	100	3937	328.1	109.4	-
Kilometer (Km)	1000	-	3281	1094	.6214

To Convert

In. to Millimeters - multiply by 25.4
Millimeters to In - multiply by .03937
Feet to Meters - multiply by .3048
Meters to Feet - multiply by 3.281
Yards to Meters - multiply by .9144
Meters to Yards - multiply by 1.094
Miles to Kilometer - multiply by 1.609
Kilometers to Miles - multiply by .6214

AREA- Basic unit is centare (ca) which is 1 square meter

Metric Unit	Centares	Square Inches	Square Feet	Square Yards	Acres
Sq. Millimeter (sq. mm.)	.000001	-	-	-	-
Sq. Centimeter (sq. cm.)	.0001	.1550	-	-	-
Sq. Decimeter (sq. dm.)	.01	15.50	.1076	-	-
Centare/Sq. Meter (ca/sq. m)	1	1550	10.76	1.196	-
Area (a)	100	-	1076	119.6	-
Hectare (ha)	10,000	-	-	-	2.471
Sq. Kilometer (sq. km)	1,000,000	-	-	-	247.1

To convert

Sq. In. to Sq. cm. - multiply by 6.452
Sq cm. to Sq. In. - multiply by .1550
Sq. Ft. to Sq. m. - multiply by .0929
Sq. m. to Sq. Ft. - multiply by 10.76
Sq. Yds. to Sq. m. - multiply by .8361
Sq. m. to Sq. Yds. - multiply by 1.196
Acres to Hectares - multiply by .4047
Hectares to Acres - multiply by 2.471
Acres to Sq. Km. - multiply by .004047
Sq. Km. to Acres - multiply by 247.1
Sq. Mile to Sq. Km. - multiply by 2.590
Sq. Km. to Sq. Miles - multiply by .3861

VOLUMEN- Basic unit is stere(s) which is 1 cubic meter

Metric Unit	Steres	Cubic Inch	Cubic Foot	Cubic Yards
Cu. Millimeter (cu mm)	.000000001	-	-	-
Cu. Centimeter (cu cm)	.000001	.06102	-	-
Cu. Decimeter (cu dm)	.001	61.023	-	-
Decistere (ds)	.1	6102.3	3.531	.1308
Stere/Cu. Meter (s/cu m)	1	61023	35.31	1.308
Decastere (dks.)	10	-	353.1	13.08

To convert

Cu. In. to Cu. mm. - multiply by 1639
Cu mm. to Cu. In. - multiply by .000061
Cu. In. to Cu. cm - multiply by 16.39
Cu. cm to Cu. In. - multiply by .06102
Cu. Ft. to Cu. m - multiply by .0283
Cu. m to Cu. Ft. - multiply by 35.31
Cu. Yds. to Cu. m - multiply by .7646
Cu. m. to Cu. Yds. - multiply by 1.308

WEIGHT- Basic unit is gram (g)

Metric Unit	Grams	Grains	Ounce	Pounds
Milligram (mg)	.001	.01543	-	-
Centigram (cg)	.01	.1543	-	-
Decigram (dg)	.1	1.543	-	-
Gram	1	15.43	.03527	-
Decagram (dkg)	10	154.3	.3527	-
Hectogram (hg)	100	1543	3.527	.22046
Kilogram (kg)	1000	-	35.27	2.2046
Quintal (q)	100,000	-	3527	220.46
Metric Ton (MT)	1,000,000	-	-	2204.6

To convert

Grains to Centigrams - multiply by 6.48
Centigrams to Grains - multiply by .1543
Ounces to grams - multiply by 28.35
Tons (2000#) to Metric Tons - multiply by .9078
Metric Tons to Tons (2000#) - multiply by 1.1023
Grams to Ounces - multiply by .03527
Pounds to Kilograms - multiply by .4536
Kilograms to Pounds - multiply by 2.2046

EVERGLADES
STEEL
CORPORATION

AISI /SAE STEEL COMPOSITIONS

REFERENCE ASTM A29 & SAEJ403
NONRESULPHURIZED CARBON STEEL

AISI No.	C	Mn	P Mx	S Mx	SAE No.
1005	0.06 max	0.35 max	.040	.050	1005
1006	0.08 max	0.25-0.40	.040	.050	1006
1008	0.10 max	0.30-0.50	.040	.050	1008
1010	0.08-0.13	0.30-0.60	.040	.050	1010
1011	0.08-0.13	0.60-0.90	.040	.050	-
1012	0.10-0.15	0.30-0.60	.040	.050	1012
1013	0.11-0.16	0.50-0.80	.040	.050	1013
1015	0.13-018	0.30-0.60	.040	.050	1015
1016	0.13-0.18	0.60-0.90	.040	.050	1016
1017	0.15-0.20	0.30-0.60	.040	.050	1017
1018	0.15-0.20	0.60-0.90	.040	.050	1018
1019	0.15-0.20	0.70-1.00	.040	.050	1019
1020	0.10-0.23	0.30-0.60	.040	.050	1020
M1020	0.17-0.24	0.25-0.60	.040	.050	-
1021	0.18-0.23	0.60-0.90	.040	.050	1021
1022	0.18-0.23	0.70-1.00	.040	.050	1022
1023	0.20-0.25	0.30-0.60	.040	.050	1023
1025	0.22-0.28	0.30-0.60	.040	.050	1025
1026	0.22-0.28	0.60-0.90	.040	.050	1026
1029	0.25-0.31	0.60-0.90	.040	.050	-
1030	0.28-0.34	0.60-0.90	.040	.050	1030
1034	0.32-0.28	0.50-0.80	.040	.050	-
1035	0.32-0.38	0.60-0.90	.040	.050	1035
1037	0.32-0.38	0.70-1.00	.040	.050	1037
1038	0.35-0.42	0.60-0.90	.040	.050	1038
1039	0.37-0.44	0.70-1.00	.040	.050	1039
1040	0.37-0.44	0.60-0.90	.040	.050	1040
1042	0.40-0.47	0.60-0.90	.040	.050	1042
1043	0.40-0.47	0.70-1.00	.040	.050	1043
1044	0.43-0.50	0.30-0.60	.040	.050	1044
M1044	0.40-0.50	0.25-0.60	.040	.050	-
1045	0.43-0.50	0.60-0.90	.040	.050	1045
1046	0.43-0.50	0.70-1.00	.040	.050	1046
1049	0.46-0.53	0.60-0.90	.040	.050	1049
1050	0.48-0.55	0.60-0.90	.040	.050	1050

(continued)

EVERGLADES STEEL CORPORATION

AISI /SAE STEEL COMPOSITIONS

REFERENCE ASTM A29 & SAEJ403
NONRESULPHURIZED CARBON STEEL

AISI No.	C	Mn	P Mx	S Mx	SAE No.
M 1053	0.48-0.55	0.70-1.00	.040	.050	-
1055	0.50-0.60	0.60-0.90	.040	.050	1055
1059	0.55-0.65	0.50-0.80	.040	.050	1059
1060	0.55-0.65	0.60-0.90	.040	.050	1060
1064	0.60-0.70	0.50-0.80	.040	0.50	1064
1065	0.60-0.70	0.60-0.90	.040	.050	1065
1069	0.65-0.75	0.40-0.70	.040	.050	1069
1070	0.65-0.75	0.60-0.90	.040	.050	1070
1071	0.65-0.70	0.75-1.05	.040	.050	-
1074	0.70-0.80	3.50-0.80	.040	.050	1074
1075	0.70-0.80	0.40-0.70	.040	.050	1075
1078	0.72-0.85	0.30-0.60	.040	.050	1076
1080	0.75-0.88	0.60-0.90	.040	.050	1080
1084	0.80-0.93	0.60-0.90	.040	.050	1084
1086	0.80-0.93	0.30-0.50	.040	.050	1386
1090	0.85-0.98	0.60-0.90	.040	.050	1086
1095	0.90-1.03	0.30-0.50	.040	.050	1095
1513	0.10-0.16	1.10-1.40	.040	.050	1513
1518	0.15-0.21	1.10-1.40	.040	.050	-
1522	0.18-0.24	1.10-1.40	.040	.050	1522
1524	0.19-0.25	1.35-1.65	.040	.050	1524
1525	0.23-0.29	0.80-1.10	.040	.050	-
1526	0.22-0.29	1.10-1.40	.040	.050	1526
1527	0.22-0.29	1.20-1.50	.040	.050	1527
1536	0.30-0.37	1.20-1.50	.040	.050	1536
1541	0.36-0.44	1.35-1.65	.040	.050	1541
1547	0.43-0.51	1.35-1.65	.040	.050	-
1548	0.44-0.52	1.10-1.40	.040	.050	1548
1551	0.45-0.56	0.85-1.25	.040	.050	1551
1552	0.47-0.55	1.20-1.50	.040	.050	1552
1561	0.55-0.65	0.75-1.05	.040	.050	1561
1566	0.60-0.71	0.85-1.15	.040	.050	1566
1572	0.65-0.76	1.00-1.30	.040	.050	

*Prefix M denotes merchant quality grades with wider carbon and manganese ranges than standard steels.

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