



Product
Reference
Guide

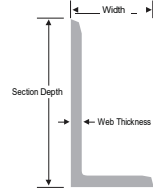
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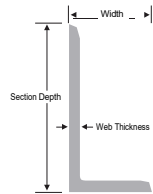
 **METALS
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**Angle - Hot Rolled
A36 / A529GR50 / A572GR50**



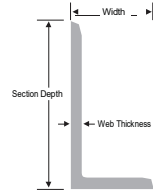
SIZE IN INCHES	LBS. PERFT.	ESTIMATED WEIGHT	
		20' BAR	40' BAR
1/2 x 1/2 x 1/8	0.38	7.60	15.20
3/4 x 3/4 x 1/8	0.59	11.80	23.60
1 x 1 x 1/8	0.80	16.00	32.00
	3/16	1.16	23.20
	1/4	1.49	29.80
1-1/4 x 1-1/4 x 1/8	1.01	20.20	40.40
	3/16	1.48	29.60
	1/4	1.92	38.40
1-1/2 x 1-1/2 x 1/8	1.23	24.60	49.20
	3/16	1.80	36.00
	1/4	2.34	46.80
1-3/4 x 1-3/4 x 1/8	1.44	28.80	57.60
	3/16	2.12	42.40
	1/4	2.77	55.40
2 x 1-1/4 x 3/16	1.96	39.20	78.40
	1/4	2.55	51.00
2 x 1-1/2 x 1/8	1.44	28.80	57.60
	3/16	2.12	42.40
	1/4	2.77	55.40
2 x 2 x 1/8	1.65	33.00	66.00
	3/16	2.44	48.80
	1/4	3.19	63.80
	5/16	3.92	78.40
	3/8	4.70	94.00
2-1/2 x 1-1/2 x 3/16	2.44	48.80	97.60
	1/4	3.19	63.80
2-1/2 x 2 x 3/16	2.75	55.00	110.00
	1/4	3.62	72.40
	5/16	4.50	90.00
	3/8	5.30	106.00
2-1/2 x 2-1/2 x 3/16	3.07	61.40	122.80
	1/4	4.10	82.00
	5/16	5.00	100.00
	3/8	5.90	118.00
	1/2	7.70	154.00



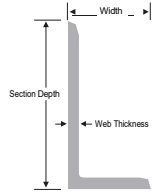
Angle - Hot Rolled
A36 / A529GR50 / A572GR50

SIZE IN INCHES	LBS. PER FT.	ESTIMATED WEIGHT	
		20' BAR	40' BAR
3 x 2 x 3/16	3.07	61.40	122.80
	4.10	82.00	164.00
	5.00	100.00	200.00
	5.90	118.00	236.00
	7.70	154.00	308.00
3 x 2-1/2 x 3/16	3.39	67.80	135.60
	4.50	90.00	180.00
	5.60	112.00	224.00
	6.60	132.00	264.00
	8.50	170.00	340.00
3 x 3 x 3/16	3.71	74.20	148.40
	4.90	98.00	196.00
	6.10	122.00	244.00
	7.20	144.00	288.00
	9.40	188.00	376.00
3-1/2 x 2-1/2 x 1/4	4.90	98.00	196.00
	6.10	122.00	244.00
	7.20	144.00	288.00
	9.40	188.00	376.00
	10.20	204.00	408.00
3-1/2 x 3 x 1/4	5.40	108.00	216.00
	6.60	132.00	264.00
	7.90	158.00	316.00
	10.20	204.00	408.00
	11.10	222.00	444.00
3-1/2 x 3-1/2 x 1/4	5.80	116.00	232.00
	7.20	144.00	288.00
	8.50	170.00	340.00
	11.10	222.00	444.00
	11.90	238.00	476.00
4 x 3 x 1/4	5.80	116.00	232.00
	7.20	144.00	288.00
	8.50	170.00	340.00
	11.10	222.00	444.00
	11.90	238.00	476.00
4 x 3-1/2 x 1/4	6.20	124.00	248.00
	7.70	154.00	308.00
	9.10	182.00	364.00
	11.90	238.00	476.00
	11.90	238.00	476.00

**Angle - Hot Rolled
A36 / A529GR50 / A572GR50**



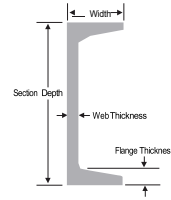
SIZE IN INCHES				LBS. PERFT.	ESTIMATED WEIGHT		
					20' BAR	40' BAR	
4	x	4	x	1/4	6.60	132.00	264.00
				5/16	8.20	164.00	328.00
				3/8	9.80	196.00	392.00
				1/2	12.80	256.00	512.00
				5/8	15.70	314.00	628.00
5	x	3	x	1/4	6.60	132.00	264.00
				5/16	8.20	164.00	328.00
				3/8	9.80	196.00	392.00
5	x	3-1/2	x	1/4	7.00	140.00	280.00
				5/16	8.70	174.00	348.00
				3/8	10.40	208.00	416.00
5	x	5	x	5/8	16.80	336.00	672.00
				3/4	19.80	396.00	792.00
				5/16	10.30	206.00	412.00
				3/8	12.30	246.00	492.00
				1/2	16.20	324.00	648.00
6	x	3-1/2	x	5/8	20.00	400.00	800.00
				3/4	23.60	472.00	944.00
				1/2	15.30	306.00	612.00
6	x	4	x	5/16	10.30	206.00	412.00
				3/8	12.30	246.00	492.00
				1/2	16.20	324.00	648.00
				5/8	20.00	400.00	800.00
				3/4	23.60	472.00	944.00
6	x	6	x	5/16	12.40	248.00	496.00
				3/8	14.90	298.00	596.00
				1/2	19.60	392.00	784.00
				5/8	24.20	484.00	968.00
				3/4	28.70	574.00	1,148.00
				1	37.40	748.00	1,496.00



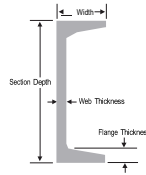
Angle - Hot Rolled
A36 / A529GR50 / A572GR50

SIZE IN INCHES				LBS. PER FT.	ESTIMATED WEIGHT		
					20' BAR	40' BAR	
7	x	4	x	3/8	13.60	272.00	544.00
				1/2	17.90	358.00	716.00
				5/8	22.10	442.00	884.00
				3/4	26.20	524.00	1,048.00
8	x	4	x	1/2	19.60	392.00	784.00
				3/4	28.70	574.00	1,148.00
				1	37.40	748.00	1,496.00
8	x	6	x	1/2	23.00	460.00	920.00
				3/4	33.80	676.00	1,352.00
				1	44.20	884.00	1,768.00
				1 1/8	56.90	1,138.00	2,276.00
8	x	8	x	1/2	26.40	528.00	1,056.00
				5/8	32.70	654.00	1,308.00
				3/4	38.90	778.00	1,556.00
				7/8	45.00	900.00	1,800.00
				1	51.00	1,020.00	2,040.00
9	x	4	x	1/2	21.30	426.00	852.00

Structural Channel (C Channel)
A36 / A529GR50 / A572GR50



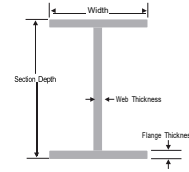
SECTION DEPTH IN INCHES	LBS. PER FT.	FLANGE IN INCHES		WEB THICKNESS IN INCHES	
		WIDTH	THICKNESS		
3.00	x	3.50	1.372	0.273	0.132
		4.10	1.410	0.273	0.170
		5.00	1.498	0.273	0.258
4.00	x	6.00	1.596	0.273	0.356
		4.50	1.584	0.296	0.125
		5.40	1.584	0.296	0.184
		6.25	1.647	0.296	0.247
5.00	x	7.25	1.721	0.296	0.321
		6.70	1.750	0.320	0.190
		9.00	1.885	0.320	0.325
6.00	x	8.20	1.920	0.343	0.200
		10.50	2.034	0.343	0.314
		13.00	2.157	0.343	0.437
7.00	x	9.80	2.090	0.366	0.210
		12.25	2.194	0.366	0.314
		14.75	2.299	0.366	0.419
		18.75	2.527	0.390	0.487
8.00	x	11.50	2.260	0.390	0.220
		13.75	2.343	0.390	0.303
		18.75	2.527	0.390	0.487
9.00	x	13.40	2.433	0.413	0.233
		15.00	2.485	0.413	0.285
		20.00	2.648	0.413	0.448
		30.00	3.033	0.436	0.673
10.00	x	15.30	2.600	0.436	0.240
		20.00	2.739	0.436	0.379
		25.00	2.886	0.436	0.526
12.00	x	30.00	3.033	0.436	0.673
		20.70	2.942	0.501	0.282
		25.00	3.047	0.501	0.387
		30.00	3.170	0.501	0.510
15.00	x	33.90	3.400	0.650	0.400
		40.00	3.520	0.650	0.520
		50.00	3.716	0.650	0.716



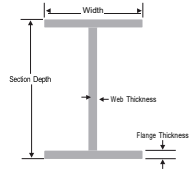
**Miscellaneous Channel
(MC Shapes)
A36 / A572GR50**

SECTION DEPTH IN INCHES	LBS. PER FT.	FLANGE IN INCHES		WEB THICKNESS IN INCHES	
		WIDTH	THICKNESS		
3.00	x	7.1	1.938	0.351	0.312
4.00	x	13.8	2.500	0.500	0.500
6.00	x	6.5	1.850	0.291	0.155
		12.0	2.497	0.375	0.310
		15.1	2.941	0.475	0.316
		15.3	3.500	0.385	0.340
		16.3	3.000	0.475	0.375
		18.0	3.504	0.475	0.379
7.00	x	19.1	3.452	0.500	0.352
		22.7	3.603	0.500	0.503
8.00	x	8.5	1.874	0.311	0.179
		18.7	2.978	0.500	0.353
		20.0	3.025	0.500	0.400
		21.4	3.450	0.525	0.375
		22.8	3.502	0.525	0.427
9.00	x	23.9	3.450	0.550	0.400
		25.4	3.500	0.550	0.450
10.00	x	6.5	1.170	0.202	0.152
		8.4	1.500	0.280	0.170
		22.0	3.315	0.575	0.290
		25.0	3.405	0.575	0.380
		28.5	3.950	0.575	0.425
		33.6	4.100	0.575	0.575
		41.1	4.321	0.575	0.796
12.00	x	10.6	1.500	0.309	0.190
		31.0	3.670	0.700	0.370
		35.0	3.767	0.700	0.467
		40.0	3.890	0.700	0.590
		45.0	4.010	0.700	0.710
		50.0	4.135	0.700	0.835
13.00	x	31.8	4.000	0.610	0.375
		40.0	4.185	0.610	0.560
		50.0	4.412	0.610	0.787
18.00	x	42.7	3.950	0.625	0.450
		45.8	4.000	0.625	0.500
		51.9	4.100	0.625	0.600
		58.0	4.200	0.625	0.700

Wide Flange Beams (WF Beams) A992



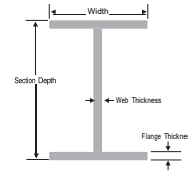
NOMINAL DEPTH IN INCHES		LBS. PER FT.	SECTION DEPTH IN INCHES	FLANGE IN INCHES		WEB THICKNESS IN INCHES
				WIDTH	THICKNESS	
4.00	x	13.0	4.16	4.060	0.345	0.280
5.00	x	16.0	5.01	5.000	0.360	0.240
		19.0	5.15	5.030	0.430	0.270
6.00	x	9.0	5.90	3.940	0.215	0.170
		12.0	6.03	4.000	0.280	0.230
		15.0	5.99	5.990	0.260	0.230
		16.0	6.28	4.030	0.405	0.260
		20.0	6.20	6.020	0.365	0.260
		25.0	6.38	6.080	0.455	0.320
8.00	x	10.0	7.89	3.940	0.205	0.170
		13.0	7.99	4.000	0.255	0.230
		15.0	8.11	4.015	0.315	0.245
		18.0	8.14	5.250	0.330	0.230
		21.0	8.28	5.270	0.400	0.250
		24.0	7.93	6.495	0.400	0.245
		28.0	8.06	6.535	0.465	0.285
		31.0	8.00	7.995	0.435	0.285
		35.0	8.12	8.020	0.495	0.310
		40.0	8.25	8.070	0.560	0.360
		48.0	8.50	8.110	0.685	0.400
		58.0	8.75	8.220	0.810	0.510
10.00	x	67.0	9.00	8.280	0.935	0.570
		12.0	9.87	3.960	0.210	0.190
		15.0	9.99	4.000	0.270	0.230
		17.0	10.11	4.010	0.330	0.240
		19.0	10.24	4.020	0.395	0.250
		22.0	10.17	5.750	0.360	0.240
		26.0	10.33	5.770	0.440	0.260
		30.0	10.47	5.810	0.510	0.300
		33.0	9.73	7.960	0.435	0.290
		39.0	9.92	7.985	0.530	0.315
		45.0	10.10	8.020	0.620	0.350
		49.0	9.98	10.000	0.560	0.340
54.0	10.09	10.030	0.615	0.370		
60.0	10.22	10.080	0.680	0.420		
68.0	10.40	10.130	0.770	0.470		



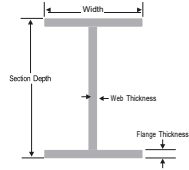
Wide Flange Beams (WF Beams) A992

NOMINAL DEPTH IN INCHES	LBS. PER FT.	SECTION DEPTH IN INCHES	FLANGE IN INCHES		WEB THICKNESS IN INCHES
			WIDTH	THICKNESS	
10.00	x	77.0	10.60	10.190	0.870
		88.0	10.84	10.265	0.990
		100.0	11.10	10.340	1.120
12.00	x	112.0	11.36	10.415	1.250
		14.0	11.91	3.970	0.225
		16.0	11.99	3.990	0.265
		19.0	12.16	4.005	0.350
		22.0	12.31	4.030	0.425
		26.0	12.22	6.490	0.380
		30.0	12.34	6.520	0.440
		35.0	12.50	6.560	0.520
		40.0	11.94	8.005	0.515
		45.0	12.06	8.045	0.575
		50.0	12.19	8.080	0.640
		53.0	12.06	9.995	0.575
		58.0	12.19	10.010	0.640
		65.0	12.12	12.000	0.605
		72.0	12.25	12.040	0.670
79.0	12.38	12.080	0.735		
87.0	12.53	12.125	0.810		
96.0	12.71	12.160	0.900		
106.0	12.89	12.220	0.990		
120.0	13.12	12.320	1.105		
136.0	13.41	12.400	1.250		
152.0	13.71	12.480	1.400		
14.00	x	22.0	13.74	5.000	0.335
		26.0	13.91	5.025	0.420
		30.0	13.84	6.730	0.385
		34.0	13.98	6.745	0.455
		38.0	14.10	6.770	0.515
		43.0	13.66	7.995	0.530
		48.0	13.79	8.030	0.595
		53.0	13.92	8.060	0.660
		61.0	13.89	9.995	0.645
		68.0	14.04	10.035	0.720
		74.0	14.17	10.070	0.785

Wide Flange Beams (WF Beams) A992



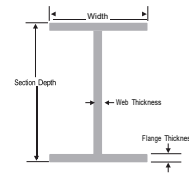
NOMINAL DEPTH IN INCHES	LBS. PERFT.	SECTION DEPTH IN INCHES	FLANGE IN INCHES		WEB THICKNESS IN INCHES	
			WIDTH	THICKNESS		
14.00	x	82.0	14.31	10.130	0.855	0.510
		90.0	14.02	14.520	0.710	0.440
		99.0	14.16	14.565	0.780	0.485
		109.0	14.32	14.605	0.860	0.525
		120.0	14.48	14.670	0.940	0.590
		132.0	14.66	14.725	1.030	0.645
		145.0	14.78	15.500	1.090	0.680
		159.0	14.98	15.565	1.190	0.745
		176.0	15.22	15.650	1.310	0.830
		193.0	15.48	15.710	1.440	0.890
		211.0	15.72	15.800	1.560	0.980
16.00	x	26.0	15.69	5.500	0.345	0.250
		31.0	15.88	5.525	0.440	0.275
		36.0	15.86	6.985	0.430	0.295
		40.0	16.01	6.995	0.505	0.305
		45.0	16.13	7.035	0.565	0.345
		50.0	16.26	7.070	0.630	0.380
		57.0	16.43	7.120	0.715	0.430
		67.0	16.33	10.235	0.665	0.395
		77.0	16.52	10.295	0.760	0.455
		89.0	16.75	10.365	0.875	0.525
		100.0	16.97	10.425	0.985	0.585
18.00	x	35.0	17.70	6.000	0.425	0.300
		40.0	17.90	6.015	0.525	0.315
		46.0	18.06	6.060	0.605	0.360
		50.0	17.99	7.495	0.570	0.355
		55.0	18.11	7.530	0.630	0.390
		60.0	18.24	7.555	0.695	0.415
		65.0	18.35	7.590	0.750	0.450
		71.0	18.47	7.635	0.810	0.495
		76.0	18.21	11.035	0.680	0.425
		86.0	18.39	11.090	0.770	0.480
		97.0	18.59	11.145	0.870	0.535
		106.0	18.73	11.200	0.940	0.590
		119.0	18.97	11.265	1.060	0.655
130.0	19.25	11.160	1.200	0.670		



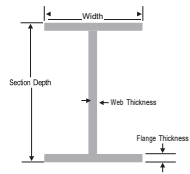
Wide Flange Beams (WF Beams) A992

NOMINAL DEPTH IN INCHES		LBS. PERFT.	SECTION DEPTH IN INCHES	FLANGE IN INCHES		WEB THICKNESS IN INCHES
				WIDTH	THICKNESS	
18.00	x	143.0	19.49	11.220	1.320	0.730
21.00	x	44.0	20.66	6.500	0.450	0.350
		48.0	20.65	8.140	0.430	0.350
		50.0	20.83	6.530	0.535	0.380
		55.0	20.80	8.220	0.522	0.375
		57.0	21.06	6.555	0.650	0.405
		62.0	20.99	8.240	0.615	0.400
		68.0	21.13	8.270	0.685	0.430
		73.0	21.24	8.295	0.740	0.455
		83.0	21.43	8.355	0.835	0.515
		93.0	21.62	8.420	0.930	0.580
		101.0	21.36	12.290	0.800	0.500
		111.0	21.51	12.340	0.875	0.550
		24.00	x	122.0	21.68	12.390
132.0	21.83			12.440	1.035	0.650
55.0	23.57			7.005	0.505	0.395
62.0	23.74			7.040	0.590	0.430
68.0	23.73			8.965	0.585	0.415
76.0	23.92			8.990	0.680	0.440
84.0	24.10			9.020	0.770	0.470
94.0	24.31			9.065	0.875	0.515
103.0	24.53			9.000	0.981	0.550
104.0	24.06			12.750	0.750	0.500
117.0	24.26			12.800	0.850	0.550
131.0	24.48			12.855	0.960	0.605
146.0	24.74			12.800	1.080	0.650
162.0	25.00	12.955	1.220	0.705		
176.0	25.24	12.890	1.340	0.750		
192.0	25.47	21.950	1.450	0.810		
27.00	x	84.0	26.71	9.960	0.640	0.460
		94.0	26.92	9.990	0.745	0.490
		102.0	27.09	10.015	0.830	0.515
		114.0	27.29	10.070	0.930	0.570
		129.0	27.63	10.010	1.100	0.610
		146.0	27.38	13.965	0.975	0.605
		161.0	27.59	14.020	1.080	0.660

Wide Flange Beams (WF Beams) A992



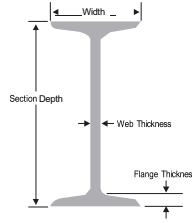
NOMINAL DEPTH IN INCHES		LBS. PERFT.	SECTION DEPTH IN INCHES	FLANGE IN INCHES WIDTH	FLANGE IN INCHES THICKNESS	WEB THICKNESS IN INCHES
27.00	x	178.0	27.81	14.085	1.190	0.725
		194.0	28.11	14.035	1.340	0.750
30.00	x	90.0	29.53	10.400	0.610	0.470
		99.0	29.65	10.450	0.670	0.520
		108.0	29.83	10.475	0.760	0.545
		116.0	30.01	10.495	0.850	0.565
		124.0	30.17	10.515	0.930	0.585
		132.0	30.31	10.545	1.000	0.615
		148.0	30.67	10.480	1.180	0.650
		173.0	30.44	14.985	1.065	0.655
		191.0	30.68	15.040	1.185	0.710
33.00	x	118.0	32.86	11.480	0.740	0.550
		130.0	33.09	11.510	0.855	0.580
		141.0	33.30	11.535	0.960	0.650
		152.0	33.49	11.565	1.055	0.635
		169.0	33.82	11.500	1.220	0.670
36.00	x	135.0	35.55	11.950	0.790	0.600
		150.0	35.85	11.975	0.940	0.625
		160.0	36.01	12.000	1.020	0.650
		170.0	36.17	12.030	1.100	0.680
		210.0	36.69	12.180	1.360	0.830
		230.0	35.90	16.470	1.260	0.760
		231.0	36.49	16.470	1.260	0.760
		232.0	37.12	12.120	1.570	0.870
		245.0	36.08	16.510	1.350	0.800
		256.0	37.43	12.215	1.730	0.960
		260.0	36.26	16.550	1.440	0.840
		280.0	36.52	16.595	1.570	0.885
		300.0	36.74	16.655	1.680	0.945
		328.0	37.09	16.630	1.850	1.020
		359.0	37.40	16.730	2.010	1.120
		393.0	37.80	16.830	2.200	1.220
		439.0	38.26	16.965	2.440	1.360
40.00	x	149.0	38.20	11.810	0.830	0.630
		167.0	38.59	11.810	1.025	0.650



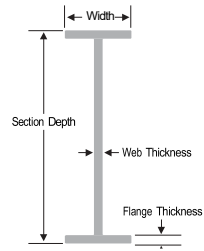
Wide Flange Beams (WF Beams) A992

NOMINAL DEPTH IN INCHES	LBS. PERFT.	SECTION DEPTH IN INCHES	FLANGE IN INCHES		WEB THICKNESS IN INCHES	
			WIDTH	THICKNESS		
40.00	x	174.0	38.20	15.750	0.830	0.650
		183.0	38.98	11.810	1.220	0.650
		199.0	38.67	15.750	1.065	0.650
		211.0	39.37	11.810	1.415	0.750
		215.0	38.98	15.750	1.220	0.650
		235.0	39.69	11.890	1.575	0.830
		249.0	39.38	15.750	1.420	0.750
		264.0	40.00	11.930	1.730	0.960
		277.0	39.69	15.830	1.575	0.830
		278.0	40.16	11.970	1.810	1.020
		297.0	39.84	15.825	1.650	0.930
		321.0	40.08	15.910	1.770	1.000
		331.0	40.79	12.170	2.130	1.220
		372.0	40.63	16.060	2.050	1.160
		392.0	41.57	12.360	2.520	1.420
		431.0	41.26	16.220	2.360	1.340
466.0	42.44	12.640	2.950	1.670		
503.0	42.05	16.420	2.760	1.540		
593.0	42.99	16.690	3.230	1.790		
44.00	x	230.0	42.91	15.750	1.220	0.710
		262.0	43.31	15.750	1.420	0.790
		290.0	43.62	15.830	1.580	0.870
		335.0	44.02	15.950	1.770	1.020

**I Beams (S Beams)
A572GR50 / A992**

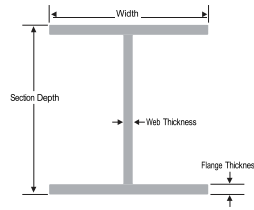


SECTION DEPTH IN INCHES	LBS. PER FT.	FLANGE IN INCHES		WEB THICKNESS IN INCHES
		WIDTH	THICKNESS	
3.00	x	5.70	2.330	0.260
		7.50	2.509	0.260
4.00	x	7.70	2.663	0.293
		9.50	2.796	0.293
5.00	x	10.00	3.004	0.326
6.00	x	12.50	3.332	0.359
		17.25	3.565	0.359
8.00	x	18.40	4.001	0.425
		23.00	4.171	0.425
10.00	x	25.40	4.661	0.491
		35.00	4.944	0.491
12.00	x	31.80	5.000	0.544
		35.00	5.078	0.544
		40.80	5.252	0.659
		50.00	5.477	0.659
15.00	x	42.90	5.501	0.622
		50.00	5.640	0.622
18.00	x	54.70	6.001	0.691
		70.00	6.251	0.691
20.00	x	66.00	6.255	0.795
		75.00	6.385	0.795
		86.00	7.060	0.920
		96.00	7.200	0.920
		100.00	7.245	0.870
24.00	x	80.00	7.000	0.870
		90.00	7.125	0.870
		100.00	7.245	0.870
		106.00	7.870	1.090



Junior Beams (M Beams)

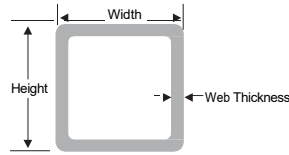
SECTION DEPTH IN INCHES	LBS. PERFT.	FLANGE IN INCHES		WEB THICKNESS IN INCHES
		WIDTH	THICKNESS	
6.00	x 4.40	1.844	0.171	0.114
8.00	x 6.50	2.281	0.189	0.135
10.00	x 9.00	2.690	0.206	0.157
12.00	x 11.80	3.065	0.225	0.177



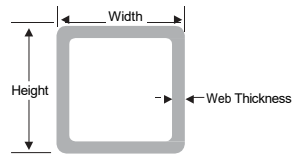
H-Pile

NOMINAL DEPTH IN INCHES	LBS. PERFT.	SECTION DEPTH IN INCHES	FLANGE IN INCHES		WEB THICKNESS IN INCHES
			WIDTH	THICKNESS	
8.00	x 36.00	8.02	8.155	0.445	0.445
10.00	x 42.00	9.70	10.075	0.420	0.415
12.00	x 53.00	11.78	12.045	0.435	0.435

**Square Tubing Mechanical and
Structural Sizes
A513 / A500**



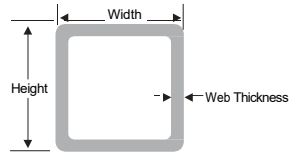
NOMINAL SIZE S IN INCHES	WALL THICKNESS		NOMINAL INSIDE DIMENSIONS IN INCHES	LBS. FT.
	GA	DEC.		
1/2x	16	0.065	0.370	0.380
3/4x	16	0.065	0.620	0.610
	14	0.083	0.584	0.750
1 x	11	0.120	0.510	1.030
	16	0.065	0.870	0.827
	15	0.067	0.866	0.910
	14	0.083	0.834	1.040
1-1/4 x	12	0.109	0.782	1.320
	11	0.120	0.760	1.440
	16	0.065	1.120	1.050
	14	0.083	1.084	1.320
1-1/2 x	11	0.120	1.010	1.840
	3/16	0.188	0.874	2.400
	16	0.065	1.370	1.270
	14	0.083	1.334	1.600
1-3/4 x	12	0.109	1.282	2.060
	11	0.120	1.260	2.250
	3/16	0.188	1.124	3.040
	1/4	0.250	1.000	4.070
2 x	14	0.083	1.584	1.880
	11	0.120	1.510	2.660
	16	0.065	1.870	1.710
	14	0.083	1.834	2.160
2-1/2 x	12	0.109	1.782	2.800
	11	0.120	1.760	3.070
	3/16	0.188	1.624	4.320
	1/4	0.250	1.500	5.410
	14	0.083	2.334	2.730
	11	0.120	2.260	3.900
3 x	3/16	0.188	2.124	5.590
	1/4	0.250	2.000	7.110
	14	0.083	2.834	3.260
	11	0.120	2.760	4.750
	3/16	0.188	2.624	6.870
4 x	1/4	0.250	2.500	8.810
	5/16	0.313	2.374	10.580



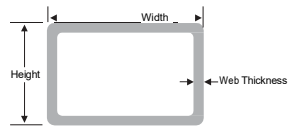
Square Tubing Mechanical and Structural Sizes A513 / A500

NOMINAL SIZES IN INCHES	WALL THICKNESS		NOMINAL INSIDE DIMENSIONS IN INCHES	LBS. FT.
	GA	DEC.		
3 x	3/8	0.375	2.250	12.160
	11	0.120	3.260	5.600
3-1/2 x	3/16	0.188	3.124	8.150
	1/4	0.250	3.000	10.510
	5/16	0.313	2.874	12.700
	14	0.083	3.834	4.320
4 x	11	0.120	3.760	6.460
	3/16	0.188	3.624	9.420
	1/4	0.250	3.500	12.210
	5/16	0.313	3.374	14.830
	3/8	0.375	3.250	17.270
	1/2	0.500	3.000	21.630
	3/16	0.188	4.124	10.700
4-1/2 x	1/4	0.250	4.000	13.910
	3/16	0.188	4.624	11.970
5 x	1/4	0.250	4.500	15.620
	5/16	0.313	4.374	19.080
	3/8	0.375	4.250	22.370
	1/2	0.500	4.000	28.430
	3/16	0.188	5.624	14.530
6 x	1/4	0.250	5.500	19.020
	5/16	0.313	5.374	23.340
	3/8	0.375	5.250	27.480
	1/2	0.500	5.000	35.240
	5/8	0.625	4.750	42.260
	3/16	0.188	6.624	17.080
7 x	1/4	0.250	6.500	22.420
	5/16	0.313	6.374	27.590
	3/8	0.375	6.250	32.580
	1/2	0.500	6.000	42.050
	3/16	0.188	7.624	19.630
8 x	1/4	0.250	7.500	25.820
	5/16	0.313	7.374	31.840
	3/8	0.375	7.250	37.690
	1/2	0.500	7.000	48.850
	5/8	0.625	6.750	59.320

**Square Tubing Mechanical and
Structural Sizes
A513 / A500**



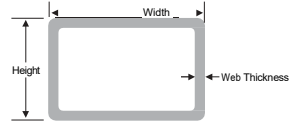
NOMINAL SIZES IN INCHES	WALL THICKNESS		NOMINAL INSIDE DIMENSIONS IN INCHES		LBS. FT.
	GA	DEC.			
10x	3/16	0.188	9.624	24.730	
	1/4	0.250	9.500	32.630	
	5/16	0.313	9.374	40.350	
	3/8	0.375	9.250	47.900	
	1/2	0.500	9.000	62.460	
12x	5/8	0.625	8.750	76.330	
	1/4	0.250	11.500	39.430	
	5/16	0.313	11.374	48.860	
	3/8	0.375	11.250	58.100	
	1/2	0.500	11.000	76.070	
14x	5/8	0.625	10.750	93.250	
	5/16	0.313	13.374	57.360	
	3/8	0.375	13.250	68.310	
	1/2	0.500	13.000	89.680	
	5/8	0.625	12.750	110.360	
16x	5/16	0.313	15.374	65.870	
	3/8	0.375	15.250	78.520	
	1/2	0.500	15.000	103.300	
	5/8	0.625	14.750	127.370	



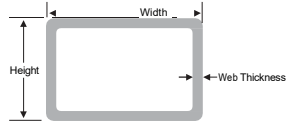
**Rectangular Tubing
Mechanical and Structural
Sizes
A513 / A500**

NOMINAL SIZES IN INCHES	WALL THICKNESS		LBS. FT.
	GA	DEC.	
1-1/2 x 3/4 x	14	0.083	1.18
1-1/2 x 1 x	16	0.065	1.05
	14	0.083	1.32
	11	0.120	1.84
2 x 1 x	16	0.065	1.27
	14	0.083	1.60
	11	0.120	2.25
2 x 1-1/2 x	14	0.083	1.88
	11	0.120	2.66
	14	0.083	2.16
2-1/2 x 1-1/2 x	11	0.120	3.07
	3/16	0.188	4.32
	14	0.083	2.16
3 x 1 x	11	0.120	3.05
	14	0.083	2.45
	11	0.120	3.48
3 x 1-1/2 x	3/16	0.188	4.94
	14	0.083	2.73
	11	0.120	3.90
	3/16	0.188	5.59
3 x 2 x	1/4	0.250	7.11
	3/16	0.188	6.87
	14	0.083	3.26
	11	0.120	4.75
3-1/2 x 2-1/2 x	3/16	0.188	6.87
	14	0.083	3.26
	11	0.120	4.75
	3/16	0.188	6.87
4 x 2 x	1/4	0.250	8.81
	5/16	0.313	10.58
	11	0.120	5.61
	3/16	0.188	8.15
4 x 3 x	1/4	0.250	10.51
	5/16	0.313	12.70
	3/8	0.375	14.71
	11	0.120	5.60
5 x 2 x	3/16	0.188	8.15

**Rectangular Tubing
Mechanical and Structural
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A513 / A500**



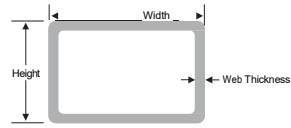
NOMINAL SIZES IN INCHES	WALL THICKNESS		LBS. FT.
	GA	DEC.	
5 x 2x	1/4	0.250	10.51
	5/16	0.313	12.70
5 x 3x	11	0.120	6.45
	3/16	0.188	9.42
	1/4	0.250	12.21
	5/16	0.313	14.83
	3/8	0.375	17.27
5 x 4x	1/2	0.500	21.63
	3/16	0.188	10.70
	1/4	0.250	13.91
6 x 2x	11	0.120	6.46
	3/16	0.188	9.42
	1/4	0.250	12.21
	5/16	0.313	14.83
6 x 3x	3/8	0.375	17.27
	3/16	0.188	10.70
	1/4	0.250	13.91
6 x 4x	5/16	0.313	16.96
	3/8	0.375	19.82
	11	0.120	7.96
	3/16	0.188	11.97
7 x 3x	1/4	0.250	15.62
	3/8	0.375	24.93
	1/2	0.500	28.43
7 x 4x	3/8	0.375	22.37
	1/4	0.250	17.32
7 x 5x	3/8	0.375	27.48
	1/4	0.250	19.02
	1/2	0.500	35.24
8 x 2x	3/8	0.375	22.37
	1/4	0.250	15.62
	3/16	0.188	11.97
8 x 3x	1/4	0.250	17.32
	3/16	0.188	13.25



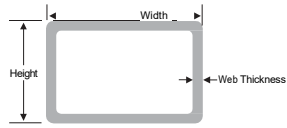
**Rectangular Tubing
Mechanical and Structural
Sizes
A513 / A500**

NOMINAL SIZES IN INCHES	WALL THICKNESS		LBS. FT.
	GA	DEC.	
8x3x	3/8	0.375	24.93
8x4x	3/16	0.188	14.53
	1/4	0.250	19.02
	5/16	0.313	23.34
	3/8	0.375	27.48
	1/2	0.500	35.24
8x6x	3/16	0.188	17.08
	1/4	0.250	22.42
	5/16	0.313	27.59
	3/8	0.375	32.58
	1/2	0.500	42.05
9x5x	3/16	0.188	17.08
	1/4	0.250	22.42
	5/16	0.313	27.59
	3/8	0.375	32.58
	1/2	0.500	42.05
9x7x	3/16	0.188	19.63
	1/4	0.250	25.82
	5/16	0.313	31.84
	3/8	0.375	37.69
	1/2	0.500	48.85
10x2x	5/8	0.625	59.32
	3/16	0.188	14.53
	1/4	0.250	19.02
	5/16	0.313	23.34
	3/8	0.375	27.48
10x3x	3/16	0.188	13.99
	1/4	0.250	20.72
	5/16	0.313	25.46
	3/8	0.375	30.03
10x4x	3/16	0.188	17.08
	1/4	0.250	22.42
	5/16	0.313	27.59
	3/8	0.375	32.58
	1/2	0.500	42.05
10x6x	3/16	0.188	19.63
	1/4	0.250	25.82

**Rectangular Tubing
Mechanical and Structural
Sizes
A513 / A500**



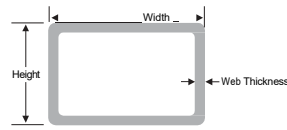
IN INCHES	NOMINAL SIZES		WALL THICKNESS
	GA	DEC.	LBS. FT.
10x6 x	3/8	0.375	37.69
	1/2	0.500	48.85
10x8 x	1/4	0.250	29.23
	3/8	0.375	42.79
12x2 x	3/16	0.188	17.08
	1/4	0.250	22.42
12x4 x	3/16	0.188	19.63
	1/4	0.250	25.82
	5/16	0.313	31.84
	3/8	0.375	37.69
12x6 x	1/2	0.500	48.85
	3/16	0.188	22.18
	1/4	0.250	29.23
	3/8	0.375	42.79
	1/2	0.500	55.66
12x8 x	5/8	0.625	67.82
	3/16	0.188	24.73
	1/4	0.250	32.63
	5/16	0.313	40.35
	3/8	0.375	47.90
	1/2	0.500	62.46
12x10x	5/8	0.625	76.33
	1/4	0.250	36.03
	5/16	0.313	44.60
	3/8	0.375	53.00
14x4 x	1/2	0.500	69.26
	3/16	0.188	22.18
	1/4	0.250	29.23
	5/16	0.313	36.10
	3/8	0.375	42.79
14x6 x	1/2	0.500	55.66
	3/16	0.188	24.73
	1/4	0.250	32.63
	5/16	0.313	40.35
14x6 x	3/8	0.375	47.90
	1/2	0.500	62.46
	5/8	0.625	76.33



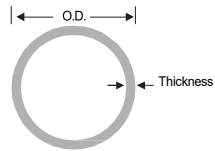
**Rectangular Tubing
Mechanical and Structural
Sizes
A513 / A500**

IN INCHES	NOMINAL SIZES		WALL THICKNESS
	GA	DEC.	LBS. FT.
14 x 10x	1/4	0.250	39.43
	5/16	0.313	48.86
	3/8	0.375	58.10
	1/2	0.500	76.07
	5/8	0.625	93.34
16 x 4x	1/4	0.250	32.63
	5/16	0.313	40.35
	3/8	0.375	47.90
16 x 8x	1/2	0.500	62.46
	1/4	0.250	39.43
	5/16	0.313	48.86
	3/8	0.375	58.10
16 x 12x	1/2	0.500	76.07
	5/8	0.625	93.34
	5/16	0.313	57.36
	3/8	0.375	68.31
	1/2	0.500	89.68
18 x 6x	5/8	0.625	110.36
	1/4	0.250	39.43
	5/16	0.313	48.86
	3/8	0.375	58.10
	1/2	0.500	76.07
18 x 10x	5/8	0.625	93.34
	5/16	0.313	57.36
	3/8	0.375	68.31
	1/2	0.500	89.68
	5/8	0.625	110.36
18 x 14x	5/16	0.313	65.870
	3/8	0.375	78.520
	1/2	0.500	103.300
	5/8	0.625	127.370
20 x 4x	1/4	0.250	39.43
	5/16	0.313	48.86
	3/8	0.375	58.10
20 x 8x	1/2	0.500	76.07
	5/16	0.313	57.36
	3/8	0.375	68.31

**Rectangular Tubing
Mechanical and Structural
Sizes
A513 / A500**



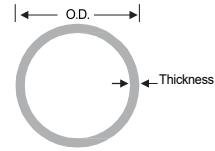
IN INCHES	NOMINAL SIZES		WALL THICKNESS	
	GA	DEC.	LBS. FT.	
20x8x	1/2	0.500	89.68	
	5/8	0.625	110.36	
20x12x	5/16	0.313	65.870	
	3/8	0.375	78.520	
	1/2	0.500	103.300	
	5/8	0.625	127.370	



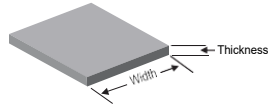
ERW Pipe & Pipe Size Tubing A53 / A500 / A513

NOMINAL SIZE IN INCHES	O.D. IN INCHES	GRADE	STD.	ASA PIPE SCHEDULES- THICKNESS& LBS.PERFT.					
				SCH 40	SCH 60	EH	SCH 80	SCH 120	SCH 160
1/8	0.405	A53	0.068	0.068		0.095	0.095		
			0.24	0.24		0.31	0.31		
1/4	0.540	A53	0.088	0.088		0.119	0.119		
			0.42	0.42		0.54	0.54		
3/8	0.675	A53	0.091	0.091		0.126	0.126		
			0.57	0.57		0.74	0.74		
1/2	0.840	A53	0.109	0.109		0.147	0.147		0.188
			0.85	0.85		1.09	1.09		1.31
		A500/A513	0.109	0.109		0.147	0.147		0.188
		0.85	0.85		1.09	1.09		1.31	
3/4	1.050	A53	0.113	0.113		0.154	0.154		0.219
			1.13	1.13		1.48	1.48		1.94
		A500/A513	0.113	0.113		0.154	0.154		0.219
		1.13	1.13		1.48	1.48		1.94	
1	1.315	A53	0.133	0.133		0.179	0.179		0.250
			1.68	1.68		2.17	2.17		2.84
		A500/A513	0.133	0.133		0.179	0.179		0.250
		1.68	1.68		2.17	2.17		2.84	
1 1/4	1.660	A53	0.140	0.140		0.191	0.191		0.250
			2.27	2.27		3.00	3.00		3.76
		A500/A513	0.140	0.140		0.191	0.191		0.250
		2.27	2.27		3.00	3.00		3.76	
1 1/2	1.900	A53	0.145	0.145		0.200	0.200		0.281
			2.72	2.72		3.63	3.63		4.86
		A500/A513	0.145	0.145		0.200	0.200		0.281
		2.18	2.72		3.63	3.63		4.86	
2	2.375	A53	0.203	0.203		0.276	0.276		0.375
			5.80	5.80		7.67	7.67		10.01
		A500/A513	0.154	0.154		0.218	0.218		0.344
		3.66	3.66		5.03	5.03		7.46	
2 1/2	2.875	A500/A513	0.203	0.203		0.276	0.276		0.375
			5.80	5.80		7.67	7.67		10.01
3	3.500	A53	0.216	0.216		0.300	0.300		0.438
			7.58	7.58		10.26	10.26		14.31
		A500/A513	0.216	0.216		0.300	0.300		0.438
		7.58	7.58		10.26	10.26		14.31	
3 1/2	4.000	A53	0.226	0.226		0.318	0.318		
			9.12	9.12		12.52	12.52		
		A500/A513	0.226	0.226		0.318	0.318		
		9.12	9.12		12.52	12.52			
4	4.500	A53	0.237	0.237		0.337	0.337	0.438	0.531
			10.80	10.80		15.00	15.00	19.02	22.53
		A500/A513	0.237	0.237		0.337	0.337	0.438	0.531
		10.80	10.80		15.00	15.00	19.02	22.53	

**ERW Pipe & Pipe Size Tubing
A53 / A500 / A513**



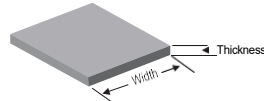
NOMINAL SIZE IN INCHES	O.D. IN INCHES	GRADE	STD.	ASA PIPE SCHEDULES - THICKNESS & LBS. PER FT.						
				SCH 40	SCH 60	EH	SCH 80	SCH 120	SCH 160	
5	5.563	A500/A513	0.258	0.258		0.375	0.500	0.625		
			14.63	14.63		20.80	20.80	27.06	32.99	
6	6.625	A500/A513	0.280	0.280		0.432	0.432	0.562	0.719	
			18.97	18.97		28.57	28.57	36.42	45.34	
8	8.625	A500/A513	0.322	0.322	0.406	0.500	0.500	0.719	0.906	
			28.55	28.55	35.66	43.39	43.49	60.69	74.71	
10	10.750	A500/A513	0.365	0.365	0.500	0.500	0.594	0.844	1.125	
			40.48	40.48	54.74	54.74	64.40	89.27	115.65	
12	12.750	A500/A513	0.375	0.406	0.562	0.500	0.688	1.000	1.312	
			49.56	53.56	73.22	65.42	88.57	125.49	160.33	
14	14.000	A500/A513	0.375	0.438	0.594	0.500	0.750	1.094	1.406	
			54.57	63.37	85.01	72.09	106.13	150.76	189.15	
16	16.000	A500/A513	0.375	0.500	0.656	0.500	0.844	1.219	1.594	
			62.58	82.77	107.54	82.77	136.58	192.40	245.22	
18	18.000	A500/A513	0.375	0.562	0.750	0.500	0.938	1.375	1.781	
			70.59	104.76	138.17	93.45	170.84	244.14	308.55	
20	20.000	A500/A513	0.375	0.594	0.812	0.500	1.031	1.500	1.969	
			78.60	123.06	166.50	104.13	208.92	296.37	379.14	
24	24.000	A500/A513	0.375	0.688	0.969	0.500	1.219	1.812	2.344	
			94.62	171.17	238.29	125.49	296.53	429.50	542.09	



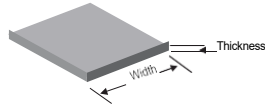
Hot Rolled Flats
A36 / A529GR50
A572GR50 / A529GR55

SIZE IN INCHES		LBS.	EST LBS.	SIZE IN INCHES		LBS.	EST LBS.
THICKNESS X WIDTH		PER FT.	20' LENGTH	THICKNESS X WIDTH		PER FT.	20' LENGTH
1/4 x	1/2	0.425	8.50	5/16 x	2 1/4	2.391	47.82
	5/8	0.531	10.62		2 1/2	2.656	53.12
	3/4	0.638	12.76		3	3.188	63.76
	7/8	0.744	14.88		3 1/2	3.719	74.38
	1	0.850	17.00		4	4.250	85.00
	1 1/4	1.063	21.26		4 1/2	4.781	95.62
	1 3/8	1.169	23.38		5	5.313	106.26
	1 1/2	1.275	25.50		5 1/2	5.844	116.88
	1 3/4	1.488	29.76		6	6.375	127.50
	2	1.700	34.00		7	7.438	148.76
	2 1/4	1.913	38.26		8	8.500	170.00
	2 1/2	2.125	42.50		10	10.630	212.60
2 3/4	2.338	46.76	3/8 x	1/2	0.638	12.76	
	3	2.550		51.00	5/8	0.797	15.94
	3 1/4	2.763		55.26	3/4	0.956	19.12
	3 1/2	2.975		59.50	7/8	1.116	22.32
	3 3/4	3.188		63.76	1	1.275	25.50
	4	3.400		68.00	1 1/4	1.594	31.88
	4 1/4	3.612		72.24	1 1/2	1.913	38.26
	4 1/2	3.825		76.50	1 3/4	2.231	44.62
	5	4.250		85.00	2	2.550	51.00
	5 1/2	4.675		93.50	2 1/4	2.869	57.38
	6	5.100		102.00	2 1/2	3.188	63.76
	6 1/2	5.525		110.50	2 3/4	3.506	70.12
7	5.950	119.00	3	3.825	76.50		
	7 1/2	6.375	127.50	3 1/4	4.144	82.88	
	8	6.800	136.00	3 1/2	4.463	89.26	
	9	7.660	153.20	4	5.100	102.00	
	10	8.510	170.20	4 1/2	5.738	114.76	
	11	9.360	187.20	5	6.375	127.50	
	12	10.210	204.20	5 1/2	7.013	140.26	
	5/16 x	1/2	0.531	10.62	6	7.650	153.00
		3/4	0.797	15.94	6 1/2	8.288	165.76
		1	1.063	21.26	7	8.925	178.50
		1 1/4	1.328	26.58	7 1/2	9.563	191.26
		1 1/2	1.594	31.88	8	10.200	204.00
1 3/4		1.859	37.18	9	11.490	229.80	
2	2.125	42.50	10	12.770	255.40		

Hot Rolled Flats
A36 / A529GR50
A572GR50 / A529GR55



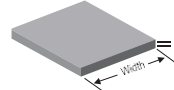
SIZE IN INCHES		LBS.	EST LBS.	SIZE IN INCHES		LBS.	EST LBS.
THICKNESS X WIDTH		PER FT.	20' LENGTH	THICKNESS X WIDTH		PER FT.	20' LENGTH
3/8x	11	14.040	280.80	5/8x	5	10.625	212.50
	12	15.320	306.40		5 1/2	11.688	233.76
1/2x	14	17.850	357.00		6	12.750	255.00
	3/4	1.275	25.50		7	14.875	297.50
	1	1.700	34.00		8	17.000	340.00
	1 1/4	2.125	42.50		9	19 3/20	383.00
	1 1/2	2.550	51.00		10	21.270	425.40
	1 3/4	2.975	59.50		11	23.380	467.60
2	3.400	68.00	12		25.530	510.60	
2 1/4	3.825	76.50	3/4x		1	2.550	51.00
2 1/2	4.250	85.00			1 1/4	3.188	63.76
2 3/4	4.675	93.50			1 1/2	3.825	76.50
3	5.100	102.00		1 5/8	4.144	82.88	
3 1/4	5.525	110.50		1 3/4	4.463	89.26	
3 1/2	5.950	119.00		2	5.100	102.00	
4	6.800	136.00		2 1/4	5.738	114.76	
4 1/2	7.650	153.00		2 1/2	6.375	127.50	
5	8.500	170.00		2 3/4	7.013	140.26	
5 1/2	9.350	187.00		3	7.650	153.00	
6	10.200	204.00		3 1/4	8.288	165.76	
6 1/2	11.050	221.00		3 1/2	8.925	178.50	
7	11.900	238.00		4	10.200	204.00	
8	13.600	272.00		4 1/2	11.475	229.50	
9	15.320	306.40		5	12.750	255.00	
10	17.020	340.40		5 1/2	14.025	280.50	
11	18.720	374.40		6	15.300	306.00	
12	20.420	408.40		7	17.850	357.00	
14	23.800	476.00	8	20.400	408.00		
5/8x	3/4	1.594	31.88	9	22.970	459.40	
	1	2.125	42.50	10	25.520	510.40	
	1 1/4	2.656	53.12	11	28.050	561.00	
	1 1/2	3.188	63.76	12	30.360	612.60	
	2	4.250	85.00	14	35.700	714.00	
	2 1/4	4.781	95.62	2	5.950	119.00	
	2 1/2	5.313	106.26	3	8.925	178.50	
	3	6.375	127.50	3 1/2	10.413	208.26	
	3 1/2	7.438	148.76	4	11.900	238.00	
	4	8.500	170.00	6	17.850	357.00	
	4 1/2	9.563	191.26	10	29.780	595.60	



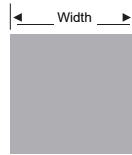
Hot Rolled Flats
A36 / A529GR50
A572GR50 / A529GR55

SIZE IN INCHES		LBS.	EST LBS.	SIZE IN INCHES		LBS.	EST LBS.	
THICKNESS X WIDTH		PER FT.	20' LENGTH	THICKNESS X WIDTH		PER FT.	20' LENGTH	
3/4 x	12	35.740	714.80	1 1/2 x	2	10.200	204.00	
1 x	1 1/4	4.250	85.00	2 1/4	2	11.480	229.60	
	1 1/2	5.100	102.00	2 1/2	2	12.750	255.00	
	1 3/4	5.950	119.00	2 3/4	2	14.030	280.60	
	2	6.800	136.00	3	2	15.300	306.00	
	2 1/4	7.650	153.00	3 1/2	2	17.850	357.00	
	2 1/2	8.500	170.00	4	2	20.400	408.00	
	2 3/4	9.350	187.00	4 1/2	2	22.950	459.00	
	3	10.200	204.00	5	2	25.500	510.00	
	3 1/4	11.050	221.00	6	2	30.600	312.00	
	3 1/2	11.900	238.00	7	2	35.700	714.00	
	4	13.600	272.00	8	2	40.800	816.00	
	4 1/2	15.300	306.00	10	2	51.050	1,021.00	
	5	17.000	340.00	12	2	61.260	1,225.20	
	5 1/2	18.700	374.00	1 3/4 x	2	11.900	238.00	
6	20.400	408.00	3		3	17.850	357.00	
7	23.800	476.00	3 1/2		3	20.830	416.600	
8	27.200	544.00	4		3	23.800	476.00	
9	30.630	612.60	4 1/2		3	26.780	535.600	
10	34.030	680.60	5		3	29.750	595.00	
11	37.400	748.00	6		3	35.700	714.00	
12	40.840	816.80	2 1/2		3	17.000	340.00	
14	47.600	952.00	3		3	20.400	408.00	
1 1/4 x	1 1/2	6.375	127.50		3 1/2	3	23.800	476.00
	2	8.500	170.00		4	3	27.200	544.00
	2 1/4	9.563	191.26		4 1/2	3	30.600	312.00
	2 1/2	10.625	212.50		5	3	34.000	680.00
	2 3/4	11.688	233.71		6	3	40.800	816.00
	3	12.750	255.00	7	3	47.600	952.00	
	3 1/2	14.875	297.50	8	3	54.400	1,088.00	
	4	17.000	340.00	9	3	61.260	1,225.20	
	4 1/2	19.125	382.50	10	3	68.060	1,361.20	
	5	21.250	425.00	12	3	81.680	1,633.60	
	5 1/2	23.375	467.50	4	4	34.000	680.00	
	6	25.500	510.00	5	4	42.500	850.00	
7	29.750	595.00	3 x	4	40.800	816.00		
8	34.000	680.00		5	5	51.000	1,020.00	
10	42.540	850.80						
12	51.050	1,021.00						
1 1/2 x	1 3/4	8.925	178.60					

Hot Rolled Steel Strip Commercial Quality



SIZE IN INCHES THICKNESS X WIDTH		LBS. PER FT.	EST. LBS. 20' LENGTH
1/8 x	1/2	0.213	4.26
	3/4	0.319	6.38
	1	0.425	8.5
	1 1/4	0.531	10.62
	1 1/2	0.638	12.76
	1 3/4	0.744	14.88
	2	0.850	17
	2 1/4	0.956	19.12
	2 1/2	1.062	21.26
	2 3/4	1.169	23.38
	3	1.275	25.5
	3 1/2	1.488	29.76
	4	1.700	34
	4 1/2	1.913	38.26
3/16 x	5	2.125	42.5
	5 1/2	2.338	46.76
	6	2.550	51
	7	2.975	59.5
	8	3.400	68
	10	4.250	85
	12	5.100	102
	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 7/10	1.116	22.32
	2	1.275	25.5
2 1/4	1.434	28.68	
2 1/2	1.594	31.88	
2 3/4	1.753	35.06	
3	1.913	38.26	
3 1/2	2.232	44.64	
4	2.550	51	
4 1/2	2.869	57.38	
5	3.188	63.76	
5 1/2	3.507	70.14	
6	3.825	76.5	
7	4.462	89.26	
8	5.100	102	
10	6.375	127.5	
12	7.650	153	

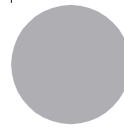


Hot Rolled Square Bars A36

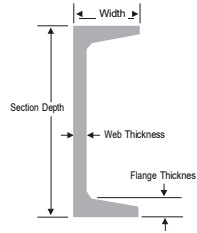
SIZE IN INCHES	LBS. PERFT.	EST. LBS 20' LENGTH
5/16	0.332	6.64
3/8	0.478	9.56
1/2	0.850	17.00
5/8	1.329	26.58
3/4	1.914	38.28
7/8	2.605	52.10
1	3.402	68.04
1 1/4	5.316	106.32
1 1/2	7.655	153.10
1 3/4	10.419	208.38
2	13.600	272.00
2 1/2	21.250	425.00
3	30.600	612.00

|◀ Diameter ▶|

**Hot Rolled Round Bars
A36**



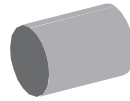
SIZE IN INCHES	LBS. PER FT.	EST. LBS 20' LENGTH
1/4	0.167	3.34
5/16	0.261	5.21
3/8	0.375	7.51
7/16	0.511	10.22
1/2	0.688	13.35
9/16	0.846	16.93
5/8	1.043	20.86
3/4	1.502	30.04
7/8	2.044	40.88
1	2.67	53.40
1 1/8	3.379	67.58
1 1/4	4.172	83.44
1 3/8	5.048	100.96
1 1/2	6.008	120.15
1 5/8	7.05	141.01
1 3/4	8.177	163.54
1 7/8	9.387	187.73
2	10.68	213.60
2 1/8	12.06	241.13
2 1/4	13.52	270.34
2 3/8	15.06	301.21
2 1/2	16.69	333.75
2 3/4	20.19	403.84
3	24.03	480.60



Bar Channel A36

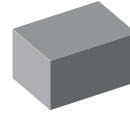
SIZES IN INCHES					LBS. PER FT.	EST. LBS. 20' LENGTH
3/4	x	3/8	x	1/8	0.56	11.20
1	x	1/2	x	1/8	0.84	16.80
1-1/4	x	1/2	x	1/8	1.01	20.20
1-1/2	x	1/2	x	1/8	1.12	22.40
1-1/2	x	9/16	x	3/16	1.44	28.80
1-1/2	x	3/4	x	1/8	1.17	23.40
2	x	1/2	x	1/8	1.33	26.60
2	x	9/16	x	3/16	1.86	37.20
2	x	5/8	x	1/4	2.28	45.60
2	x	1	x	1/8	1.78	35.60
2	x	1	x	3/16	2.57	51.40
2-1/2	x	5/8	x	3/16	2.27	45.40

Cold Finished Steel Round Bars C1018 / C1045



SIZE IN INCHES	LBS. PER FT.	SIZE IN INCHES	LBS. PER FT.
3/16	.094	1 11/16	7.600
1/4	0.167	1 3/4	8.180
5/16	0.261	1 7/8	9.390
3/8	0.376	1 5/16	10.020
7/16	0.511	2	10.680
1/2	0.668	2 1/8	12.060
9/16	0.845	2 3/16	12.780
5/8	1.040	2 1/4	13.520
11/16	1.260	2 5/16	14.280
3/4	1.500	2 3/8	15.060
13/16	1.760	2 7/16	15.870
7/8	2.040	2 1/2	16.690
15/16	2.350	2 5/8	18.400
1	2.670	2 3/4	20.190
1 1/8	3.380	2 7/8	22.070
1 3/16	3.770	2 15/16	23.040
1 1/4	4.170	3	24.030
1 5/16	4.600	3 1/4	28.200
1 3/8	5.050	3 7/16	31.550
1 7/16	5.520	3 1/2	32.710
1 1/2	6.010	3 3/4	37.550
1 9/16	6.520	3 15/16	41.400
1 5/8	7.050	4	42.730

Cold Finished Steel Square Bars C1018 / C1045

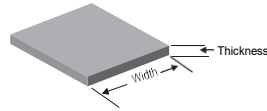


SIZE IN INCHES	LBS. PER FT.	SIZE IN INCHES	LBS. PER FT.
3/16	0.120	7/8	2.600
1/4	0.213	1	3.400
5/16	0.332	1 1/8	4.300
3/8	0.478	1 1/4	5.310
1/2	0.850	1 1/2	7.650
5/8	1.330	2	13.600
3/4	1.910		

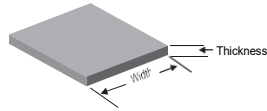
Concrete Reinforcing Bars (Rebar)
A615 / GR40 & 60

SIZE IN INCHES	BAR NO.	LBS. SQ. FT	DIAMETER INCHES
1/4	2	0.167	0.250
3/8	3	0.376	0.375
1/2	4	0.668	0.500
5/8	5	1.043	0.625
3/4	6	1.502	0.750
7/8	7	2.044	0.875
1	8	2.670	1.000
1-1/8	9	3.400	1.128

**Hot Rolled Steel Plate
A36 / A572 / A871**



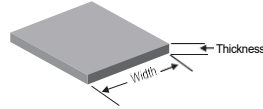
SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH	SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH
3/16" (0.188) x	7.66		5/16" (0.313) x	12.76	
48x 96		245.12	48 x 144		612.48
48 x 120		306.40	48 x 240		1,020.80
48 x 144		367.68	60x 96		510.40
48 x 240		612.80	60 x 120		638.00
60x 96		306.40	60 x 144		765.60
60 x 120		383.00	60 x 240		1,276.00
60 x 144		459.60	72x 96		612.48
60 x 240		766.00	72 x 120		765.60
72x 96		1,532.00	72 x 144		918.72
72 x 120		459.60	72 x 240		1,531.20
72 x 144		551.52	84 x 120		3,062.40
72 x 240		919.20	84 x 240		1,786.40
84 x 120		536.20	96 x 240		2,041.60
84 x 240		1,072.40	3/8" (0.375) x	15.32	
96 x 120		612.80	48x 96		490.24
96 x 144		735.36	48 x 120		612.80
96 x 240		1,225.60	48 x 144		735.36
1/4" (0.250) x	10.21		48 x 240		1,225.60
48x 96		326.72	60x 96		612.80
48 x 120		408.40	60 x 120		766.00
48 x 144		490.08	60 x 144		919.20
48 x 240		816.80	60 x 240		1,532.00
60x 96		1,633.60	72x 96		735.36
60 x 120		510.50	72 x 120		919.20
60 x 144		612.60	72 x 144		1,103.04
60 x 240		1,021.00	72 x 240		1,838.40
72x 96		2,042.00	84 x 120		1,072.40
72 x 120		612.60	84 x 240		2,144.80
72 x 144		735.15	96 x 240		2,451.20
72 x 240		1,225.20	1/2" (0.500) x	20.42	
84 x 120		2,450.40	48x 96		653.44
84 x 240		1,429.40	48 x 120		816.80
96 x 120		816.80	48 x 144		980.16
96 x 144		980.16	48 x 240		1,633.60
96 x 240		1,633.60	60x 96		816.80
5/16" (0.313) x	12.76		60 x 120		1,021.00
48x 96		408.32	60 x 144		1,225.20
48 x 120		510.40			



Hot Rolled Steel Plate A36 / A572 / A871

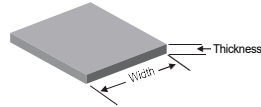
SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH	SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH
1/2" (0.500) x	20.42		7/8" (0.875) x	35.74	
60 x 240		2,042.00	72 x 120		2,144.40
72 x 96		4,084.00	72 x 240		4,288.80
72 x 120		1,225.20	84 x 240		5,003.60
72 x 144		1,470.24	96 x 240		5,718.40
72 x 240		2,450.40	120 x 240		7,148.00
84 x 120		4,900.80	1" (1.000) x	40.84	
84 x 240		2,858.80	48 x 96		1,306.88
96 x 120		1,633.60	48 x 120		1,633.60
96 x 240		3,267.20	48 x 240		3,267.20
5/8" (0.625) x	25.53		60 x 120		2,042.00
48 x 96		816.96	60 x 240		4,084.00
48 x 120		1,021.20	72 x 120		2,450.40
48 x 240		2,042.40	74 x 240		4,900.80
60 x 120		1,276.50	84 x 120		2,858.20
60 x 240		2,553.00	84 x 240		5,717.60
72 x 120		1,531.80	96 x 120		3,267.20
72 x 240		3,063.60	96 x 240		6,534.40
84 x 120		1,787.10	120 x 240		8,168.00
84 x 240		3,574.20	120 x 480		16,336.00
96 x 240		4,084.80	1-1/8" (1.125) x	45.95	
120 x 240		5,106.00	48 x 120		1,838.00
3/4" (0.750) x	30.63		60 x 120		2,297.50
48 x 96		980.16	60 x 240		4,595.00
48 x 120		1,225.20	72 x 120		2,757.00
60 x 120		1,531.50	72 x 240		5,514.00
60 x 240		3,063.00	84 x 240		6,433.00
72 x 120		1,837.80	96 x 240		7,352.00
72 x 240		3,675.60	1-1/4" (1.250) x	51.05	
84 x 240		4,288.20	48 x 96		1,633.60
96 x 120		2,450.40	48 x 120		2,042.00
96 x 240		4,900.80	60 x 120		2,552.50
120 x 240		6,126.00	60 x 240		5,105.00
7/8" (0.875) x	35.74		72 x 120		3,063.00
48 x 96		1,143.68	72 x 240		6,126.00
48 x 120		1,429.60	84 x 120		12,252.00
60 x 120		1,787.00	84 x 240		7,147.00
60 x 240		3,574.00	96 x 240		8,168.00

Hot Rolled Steel Plate A36 / A572 / A871



SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH	SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH
1-1/4" 120 x 240		10,210.00	3" (3.000) x	122.52	
1-3/8" (1.375)	56.16		60 x 120		6,126.00
96 x 240		8,985.60	60 x 144		7,351.20
1-1/2" (1.500) x	61.26		60 x 240		12,252.00
48 x 96		1,960.32	72 x 120		7,351.20
48 x 120		2,450.40	72 x 240		14,702.40
60 x 120		3,063.00	84 x 240		17,152.80
60 x 240		6,126.00	96 x 240		19,603.20
72 x 120		3,675.60			
72 x 240		7,351.20			
84 x 120		4,288.20			
84 x 240		8,576.40			
96 x 240		9,801.60			
120 x 240		12,252.00			
1-5/8" (1.625) x	66.37				
96 x 240		10,619.20			
1-3/4" (1.750) x	71.47				
72 x 120		4,288.20			
72 x 240		8,576.40			
96 x 240		11,435.20			
1-7/8" (1.875) x	76.58				
96 x 240		10,721.20			
2" (2.000) X	81.68				
48 x 96		2,613.76			
48 x 120		3,267.20			
60 x 120		4,084.00			
60 x 240		8,168.00			
72 x 120		4,900.80			
72 x 240		9,801.60			
84 x 240		11,435.20			
96 x 240		13,068.80			
2-1/4" (2.250) x	91.89				
72 x 240		11,026.80			
96 x 240		14,702.40			
2-1/2" (2.500) x	102.1				
72 x 240		12,252.00			
96 x 240		16,336.00			
2-3/4" (2.750) x	112.31				
96 x 240		17,969.60			

Hot Rolled Steel Sheet CQ / GD50 / GD55



SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH	SIZE IN INCHES THICKNESS X WIDTH	LBS. PER SQ. FT.	EST LBS. 20' LENGTH
7 Ga. (.1793") x	7.500		12 Ga. (.1046") x	4.375	
48x 96		240.00	48 x 120		175.00
48 x 120		300.00	48 x 144		210.00
48 x 144		360.00	60x 96		175.00
48 x 240		600.00	60 x 120		218.75
60x 96		300.00	60 x 144		262.50
60 x 120		375.00	72x 96		210.00
60 x 144		450.00	72 x 120		262.50
60 x 240		750.00	72 x 144		315.00
72 x 120		450.00	14 Ga. (.0747") x	3.125	
72 x 144		540.00	48x 96		100.00
10 Ga. (.1345") x	5.625		48 x 120		125.00
48x 96		180.00	48 x 144		150.00
48 x 120		225.00	60x 96		125.00
48 x 144		270.00	60 x 120		156.25
48 x 240		450.00	60 x 144		187.50
60x 96		225.00	72x 96		150.00
60 x 120		281.25	72 x 120		187.50
60 x 144		337.50	72 x 144		225.00
60 x 240		562.50	16 Ga. (.0598") x	2.500	
72x 96		270.00	48x 96		80.00
72 x 120		337.50	48 x 120		100.00
72 x 144		405.00	48 x 144		120.00
72 x 240		675.00	60x 96		100.00
84 x 240		787.50	60 x 120		125.00
96 x 240		900.00	60 x 144		150.00
11 Ga. (.1196") x	5.000				
48x 96		160.00			
48 x 120		200.00			
48 x 144		240.00			
60x 96		200.00			
60 x 120		250.00			
60 x 144		300.00			
60 x 240		500.00			
72x 96		240.00			
72 x 120		300.00			
72 x 144		360.00			
72 x 240		600.00			
12 Ga. (.1046") x	4.375				
48 x 96		140.00			

Floor Plate A36 / A786

SIZE IN INCHES THICKNESS X WIDTH X LENGTH	LBS. PER SQ. FT.	EST. LBS PER PLATE	SIZE IN INCHES THICKNESS X WIDTH X LENGTH	LBS. PER SQ. FT.	EST. LBS PER PLATE
14 Ga. (.0747") x	3.75		1/4" (0.250) x	11.26	
48x 96		120.00	60 x 240		1,126.00
48x 120		150.00	72x 96		540.48
48x 144		180.00	72x 120		675.60
12 Ga. (.1046") x	5.25		72x 144		810.72
48x 96		168.00	72x 240		1,351.20
48x 120		210.00	1/4" (0.250) x	11.26	
48x 144		252.00	96x 240		1,801.60
1/8" (0.125) x	6.16		3/8" (0.375) x	16.37	
48x 96		197.12	48x 96		523.84
48x 120		246.40	48x 120		654.80
48x 144		295.68	48x 144		785.76
60x 96		246.40	48x 240		1,309.60
60x 120		308.00	60x 96		654.80
60x 144		369.60	60x 120		818.50
60x 240		616.00	60x 144		982.20
72x 96		295.68	60x 240		1,637.00
72x 120		369.60	72x 96		785.76
72x 144		443.52	72x 120		982.20
72x 240		739.20	72x 144		1,178.64
3/16" (0.188) x	8.71		72x 240		1,964.40
48x 96		278.72	96x 240		2,619.20
48x 120		348.40	1/2" (0.500) x	21.47	
48x 144		418.08	48x 96		687.04
48x 240		696.80	48x 120		858.80
60x 96		348.40	48x 240		1,717.60
60x 120		435.50	60x 96		858.80
60x 144		522.60	60x 120		1,073.50
60x 240		871.00			
72x 96		418.08			
72x 120		522.60			
72x 144		627.12			
72x 240		1,045.20			
96x 240		1,219.40			
1/4" (0.250) x	11.26				
48x 96		360.32			
48x 120		450.40			
48x 144		540.48			
48x 240		900.80			
60x 96		450.40			
60x 120		563.00			
60x 144		675.60			



Standard



Flattened

Expanded Metal - Standard Diamond Pattern Carbon Steel

STYLE	LBS. PER 100 SQ. FT.	DESIGN SIZE / PITCH (INCHES)		STANDARD SIZE (INCHES)		STANDARD SHEET SIZE (FEET)		OPEN AREA APPR. (%)
		WIDTH	LENGTH	THICKNESS	WIDTH	WIDTH	LENGTH	
		SWO	LWO			SWO	LWO	
1/2" - #16	86.00	0.510	1.200	0.060	0.088	4	8&10	75
1/2" - #13	147.00	0.510	1.200	0.090	0.100	4	8	57
3/4" - #34 (16 ga)	34.00	0.889	2.000	0.060	0.060	3,4&6	8	87
3/4" - #16	54.00	0.889	2.000	0.060	0.096	4	8	78
3/4" - #13	80.00	0.889	2.000	0.090	0.095	4	8	76
3/4" - #10 (13 ga)	120.00	0.889	2.000	0.090	0.142	4	8	72
3/4" - #9 (10 ga)	180.00	0.889	2.000	0.128	0.150	3,4&5	8&10	68
1-1/2" - #13	60.00	1.330	3.000	0.090	0.107	4	8	85
1-1/2" - #10 (13 ga)	79.00	1.330	3.000	0.090	0.140	3,4&6	8&10	80
1-1/2" - #9 (10 ga)	120.00	1.330	3.000	0.128	0.150	3,4&6	8,10&12	76
1-1/2" - #6 (6 ga)	250.00	1.330	3.000	0.198	0.203	3,4&6	8&12	69
2" - #10 (13 ga)	68.00	1.850	4.000	0.089	0.164	3,4&6	8&12	82
2" - #9 (10 ga)	90.00	1.850	4.000	0.134	0.149	3,4&6	8&12	84

Expanded Metal - Flattened Diamond Pattern Carbon Steel

STYLE	LBS. PER 100 SQ. FT.	DESIGN SIZE / PITCH (INCHES)		STANDARD SIZE (INCHES)		STANDARD SHEET SIZE (FEET)		OPEN AREA APPR. (%)
		WIDTH	LENGTH	THICKNESS	WIDTH	WIDTH	LENGTH	
		SWO	LWO			SWO	LWO	
1/4" - #18	108.00	0.255	1.050	0.041	0.080	4	8	35
1/2" - #20	41.00	0.515	1.250	0.031	0.080	3&4	8	65
1/2" - #40 (18 ga)	38.00	0.515	1.250	0.041	0.057	3&4	8	77
1/2" - #18	67.00	0.515	1.250	0.041	0.099	3&4	8&10	60
1/2" - #16	82.00	0.515	1.250	0.051	0.098	4	8&10	63
1/2" - #13	140.00	0.515	1.250	0.077	0.111	4&5	8&10	52
3/4" - #16	51.00	0.894	2.100	0.051	0.107	4&5	8&10	74
3/4" - #13	76.00	0.894	2.100	0.077	0.105	4	8&10	74
3/4" - #9	171.00	0.894	2.100	0.109	0.167	4&5	8&10	63
1-1/2" - #13	57.00	1.370	3.200	0.077	0.119	4	8	80
1-1/2" - #9	114.00	1.370	3.200	0.109	0.167	4	8	75

Expanded Metal - Carbon Steel Grating

STYLE	LBS. PER 100 SQ. FT.	DESIGN SIZE / PITCH (INCHES) WIDTH LENGTH SWO LWO		STANDARD SIZE (INCHES) THICKNESS WIDTH		STANDARD SHEET SIZE (FEET) WIDTH LENGTH SWO LWO		OPEN AREA APPR. s
		3.00 lb	3.00	1.330	5.330	0.183	0.267	
3.14 lb	3.14	2.000	6.000	0.250	0.312	4	8	69
4.00 lb	4.00	1.330	5.330	0.215	0.300	4	8	55
4.27 lb	4.27	1.410	4.000	0.250	0.300	4	8	58
5.00 lb	5.00	1.330	5.330	0.250	0.331	4	8	50
6.25 lb	6.25	1.410	5.330	0.312	0.350	4	8	50
7.00 lb	7.00	1.410	5.330	0.312	0.391	4	8	45

Spouting

SIZE IN INCHES THICKNESS X WIDTH	WALL THICKNESS	LBS. PER FT.	SIZE IN INCHES THICKNESS X WIDTH	WALL THICKNESS	LBS. PER FT.
4	11	4.97	8	10	11.60
5	11	6.51	8	0.188	15.60
6	14	4.80	10	12	11.30
6	12	6.80	10	10	14.50
6	11	7.84	10	0.188	19.70
6	10	8.60	12	12	13.60
8	14	6.50	12	10	17.50
8	12	8.85	12	0.188	23.72

Concrete Reinforcing Mesh (re-mesh)

SPACING OF WIRES		GAUGE OF WIRE		LBS. PER SQ. FT.
LONG	TRANS	LONG	TRANS	
6	x 6	10	10	0.21
6	x 6	6	6	0.42
6	x 6	4	4	0.58
4	x 4	10	10	0.31
4	x 4	8	8	0.44
4	x 4	6	6	0.62
4	x 4	4	4	0.85

