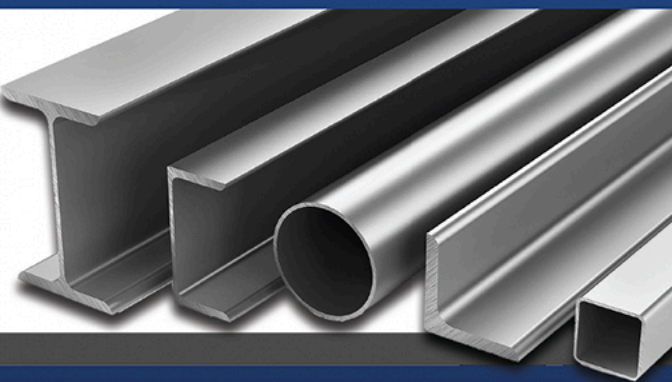


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REFERENCE GUIDE



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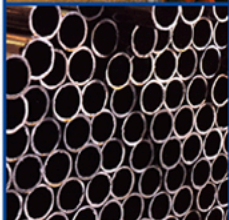
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BAR ANGLES

Also available in Galvanized



A x B x C SIZE (INCHES)	WEIGHT LBS.			A x B x C SIZE (INCHES)	WEIGHT LBS.		
	Per Foot	20 ft.	40 ft.		Per Foot	20 ft.	40 ft.
1/2 x 1/2 x 1/8	.38	7.6	15.2	1-3/4 x 1-3/4 x 1/8	1.44	28.8	57.6
5/8 x 5/8 x 1/8	.48	9.6	19.2	x 3/16	2.12	42.4	84.8
3/4 x 3/4 x 1/8	.59	11.8	23.6	x 1/4	2.77	55.4	110.8
x 3/16	.84	16.8	33.6	2 x 1-1/4 x 3/16	1.96	39.2	78.4
7/8 x 7/8 x 1/8	.70	14.0	28.0	x 1/4	2.55	51.0	102.0
1 x 5/8 x 1/8	.64	12.8	25.6	2 x 1-1/2 x 1/8	1.44	28.8	57.6
x 3/4 x 1/8	.70	14.0	28.0	x 3/16	2.12	42.4	84.8
1 x 1 x 1/8	.80	16.0	32.0	x 1/4	2.77	55.4	110.8
x 3/16	1.16	23.2	46.4	2 x 2 x 1/8	1.65	33.0	66.0
x 1/4	1.49	29.8	59.6	x 3/16	2.44	48.8	97.6
1-1/8 x 1-1/8 x 1/8	.900	18.0	36.0	x 1/4	3.19	63.8	127.6
1-1/4 x 1-1/4 x 1/8	1.01	20.2	40.4	x 5/16	3.92	78.4	156.8
x 3/16	1.48	29.6	59.2	x 3/8	4.70	94.0	188.0
x 1/4	1.92	38.4	76.8	2-1/4 x 1-1/2 x 3/16	2.28	45.6	91.2
1-3/8 x 7/8 x 1/8	.91	18.2	36.4	x 1/4	2.98	59.6	119.2
x 3/16	1.32	26.4	52.8	2-1/2 x 1-1/2 x 3/16	2.44	48.8	97.6
1-1/2 x 1-1/4 x 3/16	1.64	32.8	65.6	x 1/4	3.19	63.8	127.6
1-1/2 x 1-1/2 x 1/8	1.23	24.6	49.2	x 5/16	3.92	78.4	156.8
x 3/16	1.80	36.0	72.0	2-1/2 x 2 x 3/16	2.75	55.0	110.0
x 1/4	2.34	46.8	93.6	x 1/4	3.62	72.4	144.8
x 3/8	3.35	67.0	134.0	x 5/16	4.50	90.0	180.0
1-3/4 x 1-1/4 x 1/8	1.23	24.6	49.2	x 3/8	5.30	106.0	212.0
x 3/16	1.80	36.0	72.0	2-1/2 x 2-1/2 x 3/16	3.07	61.4	122.8
x 1/4	2.34	46.8	93.6	x 1/4	4.10	82.0	164.0
				x 5/16	5.00	100.0	200.0
				x 3/8	5.90	118.0	236.0
				x 1/2	7.70	154.0	308.0



STRUCTURAL ANGLES

Also available in Galvanized



A x B x C SIZE (INCHES)	WEIGHT LBS.			A x B x C SIZE (INCHES)	WEIGHT LBS.		
	Per Foot	20 ft.	40 ft.		Per Foot	20 ft.	40 ft.
3 x 2 x 3/16	3.1	62.0	124.0	4 x 3 x 1/4	5.8	116.0	232.0
x 1/4	4.1	82.0	164.0	x 5/16	7.2	144.0	288.0
x 5/16	5.0	100.0	200.0	x 3/8	8.5	170.0	340.0
x 3/8	5.9	118.0	236.0	x 1/2	11.1	222.0	444.0
x 1/2	7.7	154.0	308.0	x 5/8	13.6	272.0	544.0
3 x 2-1/2 x 3/16	3.39	67.8	135.6	4 x 3-1/2 x 1/4	6.2	124.0	248.0
x 1/4	4.5	90.0	180.0	x 5/16	7.7	154.0	308.0
x 5/16	5.6	112.0	224.0	x 3/8	9.1	182.0	364.0
x 3/8	6.6	132.0	264.0	x 1/2	11.9	238.0	476.0
x 1/2	8.5	170.0	340.0	x 5/8	14.7	294.0	588.0
3 x 3 x 3/16	3.71	74.2	148.4	4 x 4 x 1/4	6.6	132.0	264.0
x 1/4	4.9	98.0	196.0	x 5/16	8.2	164.0	328.0
x 5/16	6.1	122.0	244.0	x 3/8	9.8	196.0	392.0
x 3/8	7.2	144.0	288.0	x 1/2	12.8	256.0	512.0
x 1/2	9.4	188.0	376.0	x 5/8	15.7	314.0	628.0
3-1/2 x 2-1/2 x 1/4	4.9	98.0	196.0	x 3/4	18.5	370.0	740.0
x 5/16	6.1	122.0	244.0	5 x 3 x 1/4	6.6	132.0	264.0
x 3/8	7.2	144.0	288.0	x 5/16	8.2	164.0	328.0
x 1/2	9.4	188.0	376.0	x 3/8	9.8	196.0	392.0
3-1/2 x 3 x 1/4	5.4	108.0	216.0	x 1/2	12.8	256.0	512.0
x 5/16	6.6	132.0	264.0	5 x 3-1/2 x 1/4	7.0	140.0	280.0
x 3/8	7.9	158.0	316.0	x 5/16	8.7	174.0	348.0
x 1/2	10.2	204.0	408.0	x 3/8	10.4	208.0	416.0
3-1/2 x 3-1/2 x 1/4	5.8	116.0	232.0	x 1/2	13.6	272.0	544.0
x 5/16	7.2	144.0	288.0	x 5/8	16.8	336.0	672.0
x 3/8	8.5	170.0	340.0	x 3/4	19.8	396.0	792.0
x 1/2	11.1	222.0	444.0				



STRUCTURAL ANGLES

Also available in Galvanized



A x B x C SIZE (INCHES)	WEIGHT LBS.			A x B x C SIZE (INCHES)	WEIGHT LBS.		
	Per Foot	20 ft.	40 ft.		Per Foot	20 ft.	40 ft.
5 x 5 x 5/16	10.3	206.0	412.0	8 x 4 x 7/16	17.2	344.0	688.0
x 3/8	12.3	246.0	492.0	x 1/2	19.6	392.0	784.0
x 1/2	16.2	324.0	648.0	x 5/8	24.2	484.0	968.0
x 5/8	20.0	400.0	800.0	x 3/4	28.7	574.0	1148.0
x 3/4	23.60	472.0	944.0	x 7/8	33.1	662.0	1324.0
6 x 3-1/2 x 5/16	9.8	196.0	392.0	x 1	37.4	748.0	1496.0
x 3/8	11.7	234.0	468.0	8 x 6 x 7/16	20.2	404.0	808.0
x 1/2	15.3	306.0	612.0	x 1/2	23.0	460.0	920.0
6 x 4 x 5/16	10.3	206.0	412.0	x 9/16	25.7	514.0	1028.0
x 3/8	12.3	246.0	492.0	x 5/8	28.5	570.0	1140.0
x 7/16	14.3	286.0	572.0	x 3/4	33.8	676.0	1352.0
x 1/2	16.2	324.0	648.0	x 7/8	39.1	782.0	1564.0
x 5/8	20.0	400.0	800.0	x 1	44.2	884.0	1768.0
x 3/4	23.6	472.0	944.0	8 x 8 x 1/2	26.4	528.0	1056.0
x 7/8	27.2	544.0	1088.0	x 9/16	29.6	592.0	1184.0
6 x 6 x 5/16	12.4	248.0	496.0	x 5/8	32.7	654.0	1308.0
x 3/8	14.9	298.0	596.0	x 3/4	38.9	778.0	1556.0
x 7/16	17.2	344.0	688.0	x 7/8	45.0	900.0	1800.0
x 1/2	19.6	392.0	784.0	x 1	51.0	1020.0	2040.0
x 5/8	24.2	484.0	968.0	x 1-1/8	56.9	1138.0	2276.0
x 3/4	28.7	574.0	1148.0	9 x 4 x 1/2	21.3	426.0	852.0
x 7/8	33.1	662.0	1324.0	x 9/16	23.8	476.0	952.0
x 1	37.4	748.0	1496.0	x 5/8	26.3	526.0	1052.0
7 x 4 x 3/8	13.6	272.0	544.0	x 3/4	31.3	626.0	1252.0
x 7/16	15.8	316.0	632.0	x 7/8	36.1	722.0	1444.0
x 1/2	17.9	358.0	716.0	x 1	40.8	816.0	1632.0
x 9/16	20.0	400.0	800.0				
x 5/8	22.1	442.0	884.0				
x 3/4	26.2	524.0	1048.0				



STANDARD BEAMS (I)

ASTM A-36 and dual A-36/A-572 Stocked in Lengths up to 60'



		SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
3	x	5.7	3.00	2.330	0.260	0.170
		7.5	3.00	2.509	0.260	0.349
4	x	7.7	4.00	2.660	0.293	0.193
		9.5	4.00	2.796	0.293	0.326
5	x	10	5.00	3.000	0.326	0.214
		14.75	5.00	3.284	0.326	0.494
6	x	12.5	6.00	3.332	0.359	0.232
		17.25	6.00	3.565	0.359	0.465
7	x	15.3	7.00	3.662	0.392	0.252
		20	7.00	3.860	0.392	0.450
8	x	18.4	8.00	4.001	0.425	0.271
		23	8.00	4.171	0.425	0.441
10	x	25.4	10.00	4.661	0.491	0.311
		35	10.00	4.944	0.491	0.594
12	x	31.8	12.00	5.000	0.544	0.350
		35	12.00	5.078	0.544	0.428
		40.8	12.00	5.252	0.659	0.462
		50	12.00	5.477	0.659	0.687
15	x	42.9	15.00	5.501	0.622	0.411
		50	15.00	5.640	0.622	0.550
18	x	54.7	18.00	6.001	0.691	0.461
		70	18.00	6.251	0.691	0.711
20	x	66	20.00	6.255	0.795	0.505
		75	20.00	6.385	0.795	0.635
		86	20.30	7.060	0.920	0.660
		96	20.30	7.200	0.920	0.800
24	x	80	24.00	7.000	0.870	0.500
		90	24.00	7.125	0.870	0.625
		100	24.00	7.245	0.870	0.745
		106	24.50	7.870	1.090	0.620
		121	24.50	8.050	1.090	0.800

Also available in Galvanized



JUNIOR BEAMS

ASTM A-36
20'-65' in 5' increments



SIZE & WEIGHT PER FOOT		A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
5	x 18.9	5	5.000	0.416	0.313
6	x 4.4	6	1.875	0.171	0.125
8	x 6.5	8	2.250	0.189	0.125
10	x 9.0	10	2.750	0.206	0.188
12	x 11.8	12	3.000	0.225	0.188



WIDE FLANGE (W)

ASTM A-992
20'-65' in 5' increments



SIZE & WEIGHT PER FOOT		A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W 4 x	13	4.16	4.060	0.345	0.280
W 5 x	16	5.01	5.000	0.360	0.240
	19	5.15	5.030	0.430	0.270
W 6 x	8.5	5.83	3.940	0.170	0.195
	9	5.90	3.940	0.215	0.170
	12	6.03	4.000	0.280	0.230
	16	6.28	4.030	0.405	0.260
	15	5.99	5.990	0.260	0.230
	20	6.20	6.020	0.365	0.260
	25	6.38	6.080	0.455	0.320
W 8 x	10	7.89	3.940	0.205	0.170
	13	7.99	4.000	0.255	0.230
	15	8.11	4.015	0.315	0.245
	18	8.14	5.250	0.330	0.230
	21	8.28	5.270	0.400	0.250
	24	7.93	6.495	0.400	0.245
	28	8.06	6.535	0.465	0.285



WIDE FLANGE (W)

ASTM A-992

20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH IN INCHES	C FLANGE THICKNESS IN INCHES	D WEB THICKNESS IN INCHES
W 8 x	31	8.00	7.995	0.435	0.285
	35	8.12	8.020	0.495	0.310
	40	8.25	8.070	0.560	0.360
	48	8.50	8.110	0.685	0.400
	58	8.75	8.220	0.810	0.510
	67	9.00	8.280	0.935	0.570
W 10 x	12	9.87	3.960	0.210	0.190
	15	9.99	4.000	0.270	0.230
	17	10.11	4.010	0.330	0.240
	19	10.24	4.020	0.395	0.250
	22	10.17	5.750	0.360	0.240
	26	10.33	5.770	0.440	0.260
	30	10.47	5.810	0.510	0.300
	33	9.73	7.960	0.435	0.290
	39	9.92	7.985	0.530	0.315
	45	10.10	8.020	0.620	0.350
	49	9.98	10.000	0.560	0.340
	54	10.09	10.030	0.615	0.370
	60	10.22	10.080	0.680	0.420
	68	10.40	10.130	0.770	0.470
	77	10.60	10.190	0.870	0.530
	88	10.84	10.265	0.990	0.605
100	11.10	10.340	1.120	0.680	
112	11.36	10.415	1.250	0.755	
W 12 x	14	11.91	3.970	0.225	0.200
	16	11.99	3.990	0.265	0.220
	19	12.16	4.005	0.350	0.235
	22	12.31	4.030	0.425	0.260
	26	12.22	6.490	0.380	0.230
	30	12.34	6.520	0.440	0.260
	35	12.50	6.560	0.520	0.300



WIDE FLANGE (W)

ASTM A-992
20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W 12 x	40	11.94	8.005	0.515	0.295
	45	12.06	8.045	0.575	0.335
	50	12.19	8.080	0.640	0.370
	53	12.06	9.995	0.575	0.345
	58	12.19	10.010	0.640	0.360
	65	12.12	12.000	0.605	0.390
	72	12.25	12.040	0.670	0.430
	79	12.38	12.080	0.735	0.470
	87	12.53	12.125	0.810	0.515
	96	12.71	12.160	0.900	0.550
	106	12.89	12.220	0.990	0.610
	120	13.12	12.320	1.105	0.710
	136	13.41	12.400	1.250	0.790
	152	13.71	12.480	1.400	0.870
	170	14.03	12.570	1.560	0.960
	190	14.38	12.670	1.735	1.060
	210	14.71	12.790	1.900	1.180
	230	15.05	12.895	2.070	1.285
	252	15.41	13.005	2.250	1.395
279	15.85	13.140	2.470	1.530	
305	16.32	13.235	2.705	1.625	
336	16.82	13.385	2.955	1.775	
W 14 x	22	13.74	5.000	0.335	0.230
	26	13.91	5.025	0.420	0.255
	30	13.84	6.730	0.385	0.270
	34	13.98	6.745	0.455	0.285
	38	14.10	6.770	0.515	0.310
	43	13.66	7.995	0.530	0.305
	48	13.79	8.030	0.595	0.340
	53	13.92	8.060	0.660	0.370



WIDE FLANGE (W)

ASTM A-992

20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W 14 x	61	13.89	9.995	0.645	0.375
	68	14.04	10.035	0.720	0.415
	74	14.17	10.070	0.785	0.450
	82	14.31	10.130	0.855	0.510
	90	14.02	14.520	0.710	0.440
	99	14.16	14.565	0.780	0.485
	109	14.32	14.605	0.860	0.525
	120	14.48	14.670	0.940	0.590
	132	14.66	14.725	1.030	0.645
	145	14.78	15.500	1.090	0.680
	159	14.98	15.565	1.190	0.745
	176	15.22	15.650	1.310	0.830
	193	15.48	15.710	1.440	0.890
	211	15.72	15.800	1.560	0.980
	233	16.04	15.890	1.720	1.070
	257	16.38	15.995	1.890	1.175
	283	16.74	16.110	2.070	1.290
	311	17.12	16.230	2.260	1.410
	342	17.54	16.360	2.470	1.540
370	17.92	16.475	2.660	1.655	
398	18.29	16.590	2.845	1.770	
426	18.67	16.695	3.035	1.875	
455	19.02	16.835	3.210	2.015	
500	19.60	17.010	3.500	2.190	
550	20.24	17.200	3.820	2.380	
605	20.92	17.415	4.160	2.595	
665	21.64	17.650	4.520	2.830	
730	22.42	17.890	4.910	3.070	
W 16 x	26	15.69	5.500	0.345	0.250
	31	15.88	5.525	0.440	0.275



WIDE FLANGE (W)

ASTM A-992

20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W 16 x	36	15.86	6.985	0.430	0.295
	40	16.01	6.995	0.505	0.305
	45	16.13	7.035	0.565	0.345
	50	16.26	7.070	0.630	0.380
	57	16.43	7.120	0.715	0.430
	67	16.33	10.235	0.665	0.395
	77	16.52	10.295	0.760	0.455
	89	16.75	10.365	0.875	0.525
	100	16.97	10.425	0.985	0.585
	W 18 x	35	17.70	6.000	0.425
40		17.90	6.015	0.525	0.315
46		18.06	6.060	0.605	0.360
41		17.70	7.450	0.430	0.320
45		17.86	7.480	0.500	0.340
50		17.99	7.495	0.570	0.355
55		18.11	7.530	0.630	0.390
60		18.24	7.555	0.695	0.415
65		18.35	7.590	0.750	0.450
71		18.47	7.635	0.810	0.495
76		18.21	11.035	0.680	0.425
86		18.39	11.090	0.770	0.480
97		18.59	11.145	0.870	0.535
106		18.73	11.200	0.940	0.590
119		18.97	11.265	1.060	0.655
130		19.25	11.160	1.200	0.670
143		19.49	11.220	1.320	0.730
158		19.72	11.300	1.440	0.810
175		20.04	11.375	1.590	0.890
192		20.35	11.455	1.750	0.960
211		20.67	11.555	1.910	1.060
234		21.06	11.650	2.110	1.160
258	21.46	11.770	2.300	1.280	
283	21.85	11.890	2.500	1.400	
311	22.32	12.050	2.740	1.520	



WIDE FLANGE (W)

ASTM A-992

20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W 21 x	44	20.66	6.500	0.450	0.350
	50	20.83	6.530	0.535	0.380
	57	21.06	6.555	0.650	0.405
	48	20.62	8.140	0.430	0.350
	55	20.80	8.220	0.522	0.375
	62	20.99	8.240	0.615	0.400
	68	21.13	8.270	0.685	0.430
	73	21.24	8.295	0.740	0.455
	83	21.43	8.355	0.835	0.515
	93	21.62	8.420	0.930	0.580
	101	21.36	12.290	0.800	0.500
	111	21.51	12.340	0.875	0.550
	122	21.68	12.390	0.960	0.600
	132	21.83	12.440	1.035	0.650
	147	22.06	12.510	1.150	0.720
	166	22.48	12.420	1.360	0.750
182	22.72	12.500	1.480	0.830	
201	23.03	12.575	1.630	0.910	
223	23.35	12.675	1.790	1.000	
248	23.74	12.775	1.990	1.100	
275	24.13	12.890	2.190	1.220	
W 24 x	55	23.57	7.005	0.505	0.395
	62	23.74	7.040	0.590	0.430
	56	23.48	8.900	0.461	0.355
	61	23.56	8.930	0.500	0.380
	68	23.73	8.965	0.585	0.415
	76	23.92	8.990	0.680	0.440
	84	24.10	9.020	0.770	0.470
	94	24.31	9.065	0.875	0.515
	103	24.53	9.000	0.980	0.550



WIDE FLANGE (W)

ASTM A-992

20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES	
W 24 x	104	24.06	12.750	0.750	0.500	
	117	24.26	12.800	0.850	0.550	
	131	24.48	12.855	0.960	0.605	
	146	24.74	12.900	1.090	0.650	
	162	25.00	12.955	1.220	0.705	
	176	25.24	12.890	1.340	0.750	
	192	25.47	12.950	1.460	0.810	
	207	25.71	13.010	1.570	0.870	
	229	26.02	13.110	1.730	0.960	
	250	26.34	13.185	1.890	1.040	
	279	26.73	13.305	2.090	1.160	
	306	27.13	13.405	2.280	1.260	
	335	27.52	13.520	2.480	1.380	
	370	27.99	13.660	2.720	1.520	
W 27 x	84	26.71	9.960	0.640	0.460	
	94	26.92	9.990	0.745	0.490	
	102	27.09	10.015	0.830	0.515	
	114	27.29	10.070	0.930	0.570	
	129	27.63	10.010	1.100	0.610	
	146	27.38	13.965	0.975	0.605	
	161	27.59	14.020	1.080	0.660	
	178	27.81	14.085	1.190	0.725	
	194	28.11	14.035	1.340	0.750	
	217	28.43	14.115	1.500	0.830	
	235	28.66	14.190	1.610	0.910	
	258	28.98	14.270	1.770	0.980	
	281	29.29	14.350	1.930	1.060	
	307	29.61	14.445	2.090	1.160	
	336	30.00	14.550	2.280	1.260	
	368	30.39	14.665	2.480	1.380	
	W 30 x	90	29.53	10.400	0.610	0.470
		99	29.65	10.450	0.670	0.520
108		29.83	10.475	0.760	0.545	
116		30.01	10.495	0.850	0.565	
124		30.17	10.515	0.930	0.585	
132		30.31	10.545	1.000	0.615	
148		30.67	10.480	1.180	0.650	



WIDE FLANGE (W)

ASTM A-992

20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
W 30 x	173	30.44	14.985	1.065	0.655
	191	30.68	15.040	1.185	0.710
	211	30.94	15.105	1.315	0.775
	235	31.30	15.055	1.500	0.830
	261	31.61	15.155	1.650	0.930
	292	32.01	15.255	1.850	1.020
	326	32.40	15.370	2.050	1.140
	357	32.80	15.470	2.240	1.240
	391	33.19	15.590	2.440	1.360
W 33 x	118	32.86	11.480	0.740	0.550
	130	33.09	11.510	0.855	0.580
	141	33.30	11.535	0.960	0.605
	152	33.49	11.565	1.055	0.635
	169	33.82	11.500	1.220	0.670
	201	33.68	15.745	1.150	0.715
	221	33.93	15.805	1.275	0.775
	241	34.18	15.860	1.400	0.830
	263	34.53	15.805	1.570	0.870
	291	34.84	15.905	1.730	0.960
	318	35.16	15.985	1.890	1.040
	354	35.55	16.100	2.090	1.160
	387	35.95	16.200	2.280	1.260
W 36 x	135	35.55	11.950	0.790	0.600
	150	35.85	11.975	0.940	0.625
	160	36.01	12.000	1.020	0.650
	170	36.17	12.030	1.100	0.680
	182	36.33	12.075	1.180	0.725
	194	36.49	12.115	1.260	0.765
	210	36.69	12.180	1.360	0.830
	232	37.12	12.120	1.570	0.870
	256	37.43	12.215	1.730	0.960



WIDE FLANGE (W)

ASTM A-992

20'-65' in 5' increments



	SIZE & WEIGHT PER FOOT	A DEPTH IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES	
W 36 x	231	36.49	16.470	1.260	0.760	
	247	36.67	16.510	1.350	0.800	
	262	36.85	16.550	1.440	0.840	
	282	37.11	16.595	1.570	0.885	
	302	37.33	16.655	1.680	0.945	
	330	37.67	16.630	1.850	1.020	
	361	37.99	16.730	2.010	1.120	
	395	38.37	16.830	2.200	1.220	
	441	38.85	16.965	2.440	1.360	
W 40 x	149	38.20	11.810	0.830	0.630	
	167	38.59	11.810	1.025	0.650	
	183	38.98	11.810	1.200	0.650	
	211	39.37	11.810	1.415	0.750	
	235	39.69	11.890	1.575	0.830	
	264	40.00	11.930	1.730	0.960	
	294	40.39	12.010	1.930	1.060	
	327	40.79	12.130	2.130	1.180	
	199	38.67	15.750	1.065	0.650	
	215	38.98	15.750	1.220	0.650	
	249	39.38	15.750	1.420	0.750	
	277	39.69	15.830	1.575	0.830	
	297	39.84	15.825	1.650	0.930	
	324	40.16	15.910	1.810	1.000	
	362	40.55	16.020	2.010	1.120	
	372	40.63	16.065	2.045	1.160	
	397	40.95	16.120	2.200	1.220	
	431	41.26	16.220	2.360	1.340	
	W 44 x	230	42.91	15.750	1.220	0.710
		262	43.31	15.750	1.415	0.785
290		43.62	15.825	1.575	0.865	
335		44.02	15.945	1.770	1.025	



CHANNELS – STANDARD STRUCTURAL SIZES

Available in Lengths up to 60'

Also available in Galvanized



SIZE & WEIGHT PER FOOT	A DEPTH OF CHANNEL IN INCHES	B FLANGE WIDTH INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES	
C 3 x	3.5	3.00	1.372	0.273	0.132
	4.1	3.00	1.410	0.273	0.170
	5.0	3.00	1.498	0.273	0.258
	6.0	3.00	1.596	0.273	0.356
C 4 x	4.5	4.00	1.580	0.296	0.125
	5.4	4.00	1.580	0.296	0.184
	6.25	4.00	1.647	0.296	0.247
	7.25	4.00	1.721	0.296	0.321
C 5 x	6.7	5.00	1.750	0.320	0.190
	9.0	5.00	1.885	0.320	0.325
C 6 x	8.2	6.00	1.920	0.343	0.200
	10.5	6.00	2.034	0.343	0.314
	13.0	6.00	2.157	0.343	0.437
C 7 x	9.8	7.00	2.090	0.366	0.210
	12.25	7.00	2.194	0.366	0.303
	14.75	7.00	2.299	0.366	0.487
C 8 x	11.5	8.00	2.260	0.390	0.220
	13.75	8.00	2.343	0.390	0.303
	18.75	8.00	2.527	0.390	0.487
C 9 x	13.4	9.00	2.433	0.413	0.233
	15.0	9.00	2.485	0.413	0.285
	20.0	9.00	2.648	0.413	0.448
C 10 x	15.3	10.00	2.600	0.436	0.240
	20	10.00	2.739	0.436	0.379
	25	10.00	2.886	0.436	0.526
	30	10.00	3.033	0.436	0.673
C 12 x	20.7	12.000	2.942	0.501	0.282
	25.0	12.000	3.047	0.501	0.387
	30.0	12.000	3.170	0.501	0.510
C 15 x	33.9	15.000	3.400	0.650	0.400
	40.0	15.000	3.520	0.650	0.520
	50.0	15.000	3.716	0.650	0.716

MISC.-SHAPES (CAR, SHIP AND JUNIOR CHANNELS)

Also available in Galvanized



SIZE & WEIGHT PER FOOT	A DEPTH OF CHANNEL IN INCHES	B FLANGE WIDTH IN INCHES	C FLANGE THICKNESS INCHES	D WEB THICKNESS INCHES
3 x 7.1	2.93	1.983	0.351	0.312
4 x 13.8	4.00	2.500	0.500	0.500
6 x	6.5	1.840	0.189	0.155
	7	1.870	0.189	0.179
	12	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	3.504	0.475	0.379
7 x	17.6	3.000	0.475	0.375
	19.1	3.452	0.500	0.352
	22.7	3.603	0.500	0.503
8 x	6.6	1.075	0.159	0.138
	8.5	1.874	0.311	0.179
	18.7	2.978	0.500	0.353
	20	3.025	0.500	0.400
	21.4	3.450	0.525	0.375
	22.8	3.502	0.525	0.427
9 x	23.9	3.450	0.550	0.400
	25.4	3.500	0.550	0.450
10 x	6.5	1.127	0.202	0.152
	8.4	1.500	0.280	0.170
	22	3.315	0.575	0.290
	25	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 x	10.6	1.500	0.309	0.190
	31	3.670	0.700	0.370
	35	3.765	0.700	0.467
	40	3.890	0.700	0.590
	45	4.012	0.700	0.710
	50	4.135	0.700	0.835



MISC-SHAPES (CAR, SHIP AND JUNIOR CHANNELS)

Also available in Galvanized



SIZE & WEIGHT PER FOOT	A DEPTH OF CHANNEL IN INCHES	B FLANGE WIDTH IN INCHES	C FLANGE THICKNESS IN INCHES	D WEB THICKNESS IN INCHES
13 x 31.8	13.000	4.000	0.610	0.375
35	13.000	4.072	0.610	0.447
40	13.000	4.185	0.610	0.560
50	13.000	4.412	0.610	0.787
18 x 42.7	18.000	3.950	0.625	0.450
45.8	18.000	4.000	0.625	0.500
51.9	18.000	4.100	0.625	0.600
58	18.000	4.200	0.625	0.700

STEEL STAIR STRINGER

- Available in 20' length.
- Roll formed from sturdy 12 gauge material.
 - 10" depth, 2" flange.
- More economical than junior channel.

BAR CHANNELS

Stock Length, 20'



SIZE IN INCHES A X B X C	WEIGHT LBS.		SIZE IN INCHES A X B X C	WEIGHT LBS.	
	PER FOOT	20-FT. LENGTH		PER FOOT	20-FT. LENGTH
3/4 x 3/8 x 1/8	0.56	11.20	1-1/2 x 9/16 x 3/16	1.44	28.80
1 x 3/8 x 1/8	0.68	13.6	1-1/2 x 3/4 x 1/8	1.17	23.40
1 x 1/2 x 1/8	0.84	16.80	1-3/4 x 1/2 x 3/16	1.55	31.00
1-1/8 x 9/16 x 3/16	1.16	23.2	2 x 1/2 x 1/8	1.43	28.60
1-1/4 x 1/2 x 1/8	1.01	20.20	2 x 1 x 1/8	1.59	31.80
1-1/2 x 1/2 x 1/8	1.12	22.40	2 x 1 x 3/16	2.32	46.40
			2-1/2 x 5/8 x 3/16	2.27	45.40



ROUND BARS

We can furnish hot rolled or cold finished round bars
in various alloy and carbon steels.

SIZE IN INCHES	WEIGHT LBS.		SIZE IN INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. LENGTH		PER FOOT	20-FT. LENGTH
1/8	0.042	.84	4	42.73	854.60
3/16	0.094	1.88	4-1/8	45.44	908.80
1/4	0.167	3.34	4-1/4	48.23	964.60
5/16	0.261	5.22	4-3/8	51.11	1022.20
3/8	0.376	7.52	4-1/2	54.08	1081.60
7/16	0.511	10.22	4-5/8	57.12	1142.40
1/2	0.668	13.36	4-3/4	60.25	1205.00
9/16	0.845	16.90	5	66.76	1335.20
5/8	1.043	20.86	5-1/4	73.60	1472.00
11/16	1.262	25.24	5-1/2	80.78	1615.60
3/4	1.502	30.04	5-3/4	88.29	1765.80
13/16	1.763	35.26	6	96.13	1922.60
7/8	2.044	40.88	6-1/4	104.31	2086.20
15/16	2.347	46.94	6-1/2	112.82	2256.40
1	2.670	53.40	6-3/4	121.67	2433.40
1-1/8	3.379	67.58	7	130.85	2617.00
1-3/16	3.766	75.32	7-1/4	140.36	2807.20
1-1/4	4.172	83.44	7-1/2	150.21	3004.20
1-3/8	5.049	101.00	7-3/4	160.39	3207.80
1-1/2	6.008	120.16	8	170.90	3418.00
1-5/8	7.051	141.02	8-1/4	181.8	3636.00
1-3/4	8.178	163.56	8-1/8	192.9	3858.00
1-15/16	10.020	200.40	8-3/4	204.5	4090.00
2	10.68	213.60	9	216.3	4326.00
2-1/8	12.06	241.20	9-1/4	228.5	4570.00
2-1/4	13.52	270.40	9-1/2	241.0	4820.00
2-3/8	15.06	301.20	9-3/4	253.9	5078.00
2-1/2	16.69	333.80	10	267.0	5340.00
2-5/8	18.40	368.00	10-1/4	280.6	5612.00
2-3/4	20.19	403.80	10-1/2	294.4	5888.00
2-7/8	22.07	441.40	10-3/4	308.6	6172.00
3	24.03	480.60	11	323.1	6462.00
3-1/8	26.08	521.60	11-1/2	353.2	7064.00
3-1/4	28.21	564.20			
3-3/8	30.42	608.40			
3-1/2	32.71	654.20			
3-5/8	35.09	701.80			
3-3/4	37.55	751.00			
3-7/8	40.10	802.00			

ROUND BARS

We can furnish hot rolled or cold finished round bars
in various alloy and carbon steels.



SIZE IN INCHES	WEIGHT LBS.		SIZE IN INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. LENGTH		PER FOOT	20-FT. LENGTH
12	384.5	7690.00	16	683.6	13672.00
12-1/2	417.2	8344.00	16-1/2	727.2	14544.00
13	451.3	9026.00	17	771.7	15434.00
13-1/2	486.7	9733.00	17-1/2	829.6	16591.00
14	523.4	10468.00	18	865.2	17304.00
14-1/2	561.4	11229.00	18-1/2	913.9	18278.00
15	600.8	12016.00	19	964.0	19279.00
15-1/2	641.6	12831.00	20	1068.0	21360.00

Formula to figure weight on round ($D^2 \times 2.67$)

Forged rounds through 24" are available Please inquire. Also available in Galvanized

SQUARE BARS

Stocked in Hot Rolled and 1018 Cold Finished.
Also available in Galvanized



SIZE IN INCHES	WEIGHT LBS.		SIZE IN INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. LENGTH		PER FOOT	20-FT. LENGTH
1/4	0.213	4.26	1-3/4	10.41	208.20
5/16	0.332	6.64	1-7/8	11.95	239.00
3/8	0.478	9.56	2	13.60	272.00
7/16	0.651	13.02	2-1/4	17.21	344.20
1/2	0.850	17.00	2-1/2	21.25	425.00
9/16	1.08	21.60	2-3/4	25.71	514.20
5/8	1.33	26.60	3	30.60	612.00
11/16	1.61	32.20	3-1/4	35.91	718.00
3/4	1.91	38.20	3-1/2	41.65	833.00
13/16	2.25	45.00	3-3/4	47.81	956.00
7/8	2.60	52.00	4	54.40	1088.00
1	3.40	68.00	4-1/2	68.85	1367.00
1-1/8	4.30	86.00	5	85.00	1700.00
1-1/4	5.31	106.20	6	122.40	2448.00
1-3/8	6.43	128.60			
1-1/2	7.65	153.00			
1-5/8	8.98	179.60			

Standard Length: Hot Rolled 20' • Cold Finished 12'



CONCRETE REINFORCING BARS

GR40 and GR60 are available.

Also available in Galvanized

WEIGHT LBS.

SIZE IN INCHES		WEIGHT LBS.		
		PER FOOT	PER 20-FT.	PER 40-FT.
1/4	#2	0.167	3.34	6.68
3/8	#3	0.376	7.52	15.04
1/2	#4	0.668	13.36	26.72
5/8	#5	1.043	20.86	41.72
3/4	#6	1.502	30.04	60.08
7/8	#7	2.044	40.88	81.76
1	#8	2.670	53.40	106.80
1-1/8	#9	3.400	68.00	136.00
1-1/4	#10	4.303	86.06	172.12
1-3/8	#11	5.313	106.26	212.52
1-3/4	#14	7.650	153.00	306.00
2-1/4	#18	13.600	272.00	544.00

60' available upon request.



HOT ROLLED STRIP

Also available in Galvanized

SIZE IN INCHES	WEIGHT LBS.		SIZE IN INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. LENGTH		PER FOOT	20-FT. LENGTH
1/8 x 3/8	0.159	3.18	3/16 x 3/8	0.239	4.78
x 1/2	0.213	4.26	x 1/2	0.319	6.38
x 5/8	0.266	5.32	x 5/8	0.398	7.96
x 3/4	0.319	6.38	x 3/4	0.478	9.56
x 1	0.425	8.50	x 1	0.638	12.76
x 1-1/4	0.531	10.62	x 1-1/4	0.797	15.94
x 1-1/2	0.638	12.76	x 1-1/2	0.956	19.12
x 1-3/4	0.744	14.88	x 1-3/4	1.116	22.32
x 2	0.850	17.00	x 2	1.275	25.50
x 2-1/4	0.956	19.12	x 2-1/4	1.434	28.68
x 2-1/2	1.063	21.26	x 2-1/2	1.594	31.88
x 2-3/4	1.169	23.38	x 2-3/4	1.753	35.06
x 3	1.275	25.50	x 3	1.913	38.26
x 3-1/2	1.488	29.76	x 3-1/2	2.231	44.62
x 4	1.700	34.00	x 4	2.550	51.00
x 4-1/2	1.913	38.26	x 4-1/2	2.869	57.38
x 5	2.125	42.50	x 5	3.188	63.76
x 6	2.550	51.00	x 6	3.825	76.50
x 8	3.400	68.00	x8	5.100	102.00

FLAT BARS

We stock both Hot Rolled and 1018 Cold Finished flats.
Also available in Galvanized



THICK IN INCHES	WEIGHT LBS.		THICK IN INCHES	WEIGHT LBS.		THICK IN INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. BAR		PER FOOT	20-FT. BAR		PER FOOT	20-FT. BAR
1/4 INCH			5/16 INCH			3/8 INCH (CONT.)		
3/8	0.319	6.38	1/2	0.531	10.62	1-3/8	1.753	35.06
1/2	0.425	8.50	5/8	0.664	13.28	1-1/2	1.913	38.26
5/8	0.531	10.62	3/4	0.797	15.94	1-5/8	2.072	41.44
3/4	0.638	12.76	7/8	0.930	18.60	1-3/4	2.231	44.62
7/8	0.744	14.88	1	1.063	21.26	2	2.550	51.00
1	0.850	17.00	1-1/8	1.195	23.90	2-1/4	2.869	57.38
1-1/8	0.956	19.12	1-1/4	1.328	26.56	2-1/2	3.188	63.76
1-1/4	1.063	21.26	1-3/8	1.461	29.22	2-3/4	3.506	70.12
1-3/8	1.169	23.38	1-1/2	1.594	31.88	3	3.825	76.50
1-1/2	1.275	25.50	1-3/4	1.859	37.18	3-1/4	4.144	82.88
1-5/8	1.381	27.62	2	2.125	42.50	3-1/2	4.463	89.26
1-3/4	1.488	29.76	2-1/4	2.391	47.82	4	5.100	102.00
2	1.700	34.00	2-1/2	2.656	53.12	4-1/2	5.738	114.80
2-1/4	1.913	38.26	2-3/4	2.922	58.44	5	6.375	127.50
2-1/2	2.125	42.50	3	3.188	63.76	5-1/2	7.013	140.30
2-3/4	2.338	46.76	3-1/4	3.453	69.06	6	7.650	153.00
3	2.550	51.00	3-1/2	3.719	74.38	7	8.930	178.50
3-1/4	2.763	55.26	4	4.250	85.00	8	10.200	204.00
3-1/2	2.975	59.50	4-1/2	4.781	95.62	7/16 INCH		
3-3/4	3.188	63.76	5	5.313	106.30	3/4	1.116	22.32
4	3.400	68.00	5-1/2	5.840	116.80	7/8	1.302	26.04
4-1/4	3.613	72.26	6	6.375	127.50	1	1.488	29.76
4-1/2	3.825	76.50	7	7.440	148.70	1-1/4	1.859	37.18
5	4.250	85.00	7-1/2	7.970	159.40	1-1/2	2.231	44.62
5-1/2	4.675	93.50	8	8.500	170.00	1-3/4	2.603	52.06
6	5.100	102.00	3/8 INCH			2	2.975	59.50
6-1/2	5.530	110.60	1/2	0.638	12.76	2-1/4	3.347	66.94
7	5.950	119.00	5/8	0.797	15.94	2-1/2	3.719	74.38
7-1/2	6.380	127.60	3/4	0.956	19.12	3	4.463	89.26
8	6.800	136.00	7/8	1.116	22.32	3-1/2	5.206	104.10
			1	1.275	25.50	4	5.950	191.00
			1-1/8	1.434	28.68	4-1/2	6.694	133.90
			1-1/4	1.594	31.88	5	7.438	148.80
						6	8.925	178.50

Standard Length: Hot Rolled 20' • Cold Finished 12'



FLAT BARS

We stock both Hot Rolled and 1018 Cold Finished flats.

Also available in Galvanized

THICK IN INCHES	WEIGHT LBS.		THICK IN INCHES	WEIGHT LBS.		THICK IN INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. BAR		PER FOOT	20-FT. BAR		PER FOOT	20-FT. BAR
<u>1/2 INCH</u>			<u>5/8 INCH (CONT.)</u>			<u>3/4 INCH (CONT.)</u>		
5/8	1.063	21.26	2	4.250	85.00	6	15.300	306.00
3/4	1.275	25.50	2-1/4	4.781	95.62	7	17.850	357.00
7/8	1.488	29.76	2-1/2	5.313	106.30	8	20.400	408.00
1	1.700	34.00	2-3/4	5.844	116.90			
1-1/8	1.913	38.26	3	6.375	127.50	<u>7/8 INCH</u>		
1-1/4	2.125	42.50	3-1/4	6.906	138.10	1	2.975	59.50
1-3/8	2.338	46.76	3-1/2	7.438	148.80	1-1/4	3.719	74.38
1-1/2	2.550	51.00	4	8.500	170.00	1-3/8	4.091	81.82
1-5/8	2.763	55.26	4-1/2	9.563	191.30	1-1/2	4.463	89.26
1-3/4	2.975	59.50	5	10.630	212.40	1-3/4	5.206	104.10
2	3.400	68.00	5-1/2	11.690	233.80	2	5.950	119.00
2-1/2	4.250	85.00	6	12.750	255.00	2-1/4	6.694	133.90
2-3/4	4.675	93.50	7	14.870	297.40	2-1/2	7.438	148.80
3	5.100	102.00	8	17.000	340.00	2-3/4	8.181	163.60
3-1/4	5.525	110.50				3	8.925	178.50
3-1/2	5.950	119.00	<u>3/4 INCH</u>			3-1/2	10.410	208.20
4	6.800	136.00	7/8	2.231	44.62	4	11.900	238.00
4-1/2	7.650	153.00	1	2.550	51.00	4-1/2	13.390	267.80
5	8.500	170.00	1-1/8	2.869	57.38	5	14.870	297.40
5-1/2	9.350	187.00	1-1/4	3.188	63.76	5-1/2	16.360	327.20
6	10.200	204.00	1-1/2	3.825	76.50	6	17.850	357.00
7	11.900	238.00	1-5/8	4.144	82.88	7	20.830	416.60
8	13.600	272.00	1-3/4	4.463	89.26	8	23.800	476.00
			2	5.100	102.00			
			2-1/4	5.738	114.80	<u>1 INCH</u>		
			2-1/2	6.375	127.50	1-1/4	4.250	85.00
			2-3/4	7.013	140.30	1-1/2	5.100	102.00
			3	7.650	153.00	1-3/4	5.950	119.00
			3-1/4	8.288	165.80	2	6.800	136.00
			3-1/2	8.925	178.50	2-1/4	7.650	153.00
			4	10.200	204.00	2-1/2	8.500	170.00
			4-1/4	11.470	229.40	2-3/4	9.350	187.00
			5	12.750	255.00	3	10.200	204.00
			5-1/2	14.020	280.40	3-1/4	11.050	221.00

FLAT BARS

We stock both Hot Rolled and 1018 Cold Finished flats.
Also available in Galvanized



THICK IN INCHES	WEIGHT LBS.		THICK IN INCHES	WEIGHT LBS.		THICK IN INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. BAR		PER FOOT	20-FT. BAR		PER FOOT	20-FT. BAR
1 INCH (CONT.)			1-1/2 INCH			2 INCH (CONT.)		
3-1/2	11.900	238.00	2	10.20	204.00	7	47.60	952.00
4	13.600	272.00	2-1/4	11.48	229.60	8	54.40	1088.00
4-1/2	15.300	306.00	2-1/2	12.75	255.00	2-1/2 INCH		
5	17.000	340.00	2-3/4	14.03	280.60	3	25.50	510.00
5-1/2	18.700	374.00	3	15.30	306.00	3-1/2	29.75	595.00
6	20.400	408.00	3-1/2	17.85	357.00	4	34.00	680.00
7	23.800	476.00	4	20.40	408.00	4-1/2	38.25	765.00
8	27.200	544.00	4-1/2	22.95	459.00	5	42.50	850.00
1-1/8 INCH			5	25.50	510.00	6	51.00	1020.00
2	7.650	153.00	5-1/2	28.05	561.00	8	68.00	1360.00
3	11.480	229.60	6	30.60	612.00	3 INCH		
4	15.300	306.00	7	35.70	714.00	4	40.80	816.00
5	19.130	382.60	8	40.80	816.00	4-1/2	45.90	918.00
6	22.950	459.00	1-3/4 INCH			5	51.00	1020.00
1-1/4 INCH			2	11.90	238.00	6	61.20	1224.00
1-1/2	6.375	127.50	2-1/2	14.88	297.60	8	81.60	1632.00
1-3/4	7.438	148.80	3	17.85	357.00	Flat Bars wider than 8"		
2	8.500	170.00	3-1/2	20.83	416.60	are classified as Universal		
2-1/4	9.563	191.30	4	23.80	476.00	Mill Plates (see page 24).		
2-1/2	10.630	212.40	4-1/2	26.78	535.60	Flat Bars thinner than		
2-3/4	11.690	233.80	5	29.75	595.00	1/4" are classified as		
3	12.750	255.00	5-1/2	32.73	654.60	Strips (see page 20).		
3-1/4	13.810	276.20	6	35.70	714.00			
3-1/2	14.870	297.40	2 INCH					
4	17.000	340.00	2-1/2	17.00	340.00			
4-1/2	19.120	382.40	3	20.40	408.00			
5	21.250	425.00	3-1/2	23.80	476.00			
5-1/2	23.370	467.40	4	27.20	544.00			
6	25.500	510.00	4-1/2	30.60	612.00			
7	29.750	595.00	5	34.00	680.00			
8	34.000	680.00	6	40.80	816.00			

Standard Length: Hot Rolled 20' • Cold Finished 12'

Ask your salesman for Custom Sheared Widths.

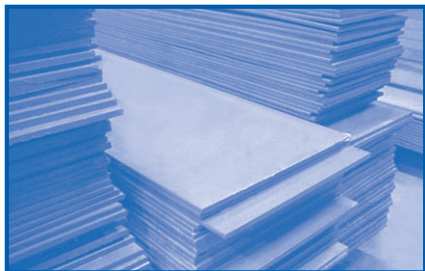


UNIVERSAL MILL PLATES

Wider Widths are available Flame Cut. Also available in Galvanized

THICKNESS X WIDTH INCHES	WEIGHT LBS.		THICKNESS X WIDTH INCHES	WEIGHT LBS.	
	PER FOOT	20-FT. LENGTH		PER FOOT	20-FT. LENGTH
1/4 x 9	7.65	153.0	3/4 x 9	22.95	459.0
x 10	8.50	170.0	x 10	25.50	510.0
x 11**	9.35	187.0	x 12	30.60	612.0
x 12	10.20	204.0			
5/16 x 9	9.56	191.2	7/8 x 10	29.75	595.0
x 10	10.63	212.6	x 12	35.70	714.0
x 12	12.75	255.0	1 x 9	30.60	612.0
3/8 x 9	11.48	229.6	x 10	34.00	680.0
x 10	12.75	255.0	x 12	40.80	816.0
x 11**	14.03	280.6	1-1/4 x 9	38.25	765.0
x 12	15.30	306.0	x 10	42.50	850.0
1/2 x 9	15.30	306.0	x 12	51.00	1020.0
x 10	17.00	340.0	1-1/2 x 10	51.00	1020.0
x 11**	18.70	374.0	x 12	61.20	1224.0
x 12	20.40	408.0	2 x 9	61.20	1224.0
5/8 x 9	19.13	382.6	x 10	68.00	1360.0
x 10	21.25	425.0	x 12	81.60	1632.0
x 11	23.40	468.0			
x 12	25.50	510.0			

** Also available in 25 Ft.



PLATE

Also available in Galvanized



WEIGHT LBS.			WEIGHT LBS.			WEIGHT LBS.		
THICKNESS	SQ INCH	SQ FOOT	THICKNESS	SQ INCH	SQ FOOT	THICKNESS	SQ INCH	SQ FOOT
3/16	0.0532	7.66	1-5/8	0.4609	66.36	5	1.4180	204.19
1/4	0.0709	10.21	1-3/4	0.4963	71.47	5-1/2	1.5598	224.61
5/16	0.0886	12.76	1-7/8	0.5318	76.57	6	1.7016	245.03
3/8	0.1064	15.31	2	0.5672	81.68	6-1/2	1.8434	265.45
7/16	0.1241	17.87	2-1/8	0.6027	86.78	7	1.9852	285.87
1/2	0.1418	20.42	2-1/4	0.6381	91.89	7-1/2	2.1270	306.29
9/16	0.1595	22.97	2-1/2	0.7090	102.10	8	2.2688	326.71
5/8	0.1773	25.52	2-3/4	0.7799	112.31	8-1/2	2.4106	347.13
11/16	0.1950	28.08	3	0.8508	122.52	9	2.5524	367.55
3/4	0.2127	30.63	3-1/4	0.9217	132.72	10	2.8360	408.38
7/8	0.2481	35.73	3-1/2	0.9926	142.93	12	3.4032	490.06
1	0.2836	40.84	3-3/4	1.0635	153.14			
1-1/8	0.3191	45.94	4	1.1344	163.35			
1-1/4	0.3545	51.05	4-1/4	1.2053	173.56			
1-3/8	0.3900	56.16	4-1/2	1.2762	183.77			
1-1/2	0.4254	61.26						

Formula to calculate weight of plate:

Length (inches) x Width (inches) x Thickness (decimal) x .2836

We can furnish plates cut to your lengths and with holes burned or punched if required.

PLATES

Most Common Sizes.
Also available in Galvanized



SIZE IN INCHES

48 x 96	60 x 96	72 x 96	96 x 240
48 x 120	60 x 120	72 x 120	96 x 480
48 x 144	60 x 144	72 x 144	120 x 240
48 x 240	60 x 240	72 x 240	120 x 480

Call for other sizes.



FLOOR PLATES

Plate Weights Per Square Inch & Square Foot

Also available in Galvanized

GAUGE/ THICKNESS	WEIGHT LBS.		GAUGE/ THICKNESS	WEIGHT LBS.	
	SQUARE INCH	SQUARE FOOT		SQUARE INCH	SQUARE FOOT
14 gauge	0.0260	3.75	5/16	0.0959	13.81
12 gauge	0.0365	5.25	3/8	0.1137	16.37
1/8	0.0427	6.15	1/2	0.1491	21.47
3/16	0.0605	8.71	3/4	0.2200	31.68
1/4	0.0782	11.26			



SHEETS

Hot Rolled, Cold Rolled, Galvanized & P&O

SHEET SIZE IN INCHES	Ga. in Inches Lbs./Sq. Ft.	Galvanized Ga. in Inches Lbs./Sq. Ft.	SHEET SIZE IN INCHES	Ga. in Inches Lbs./Sq. Ft.	Galvanized Ga. in Inches Lbs./Sq. Ft.
7 GAUGE	.1793		10 GAUGE	.1345	.1382
	7.5			5.625	5.781
48 x 96	240.00	—	48 x 96	180.00	184.99
48 x 120	300.00	—	48 x 120	225.00	231.24
48 x 144	360.00	—	48 x 144	270.00	277.48
48 x 240	600.00	—	48 x 240	450.00	462.48
60 x 96	300.00	—	60 x 96	225.00	231.24
60 x 120	375.00	—	60 x 120	281.25	289.05
60 x 144	450.00	—	60 x 144	337.50	346.86
60 x 240	750.00	—	60 x 240	562.50	578.10
72 x 96	360.00	—	72 x 96	270.00	—
72 x 120	450.00	—	72 x 120	337.50	—
72 x 144	540.00	—	72 x 144	405.00	—
72 x 240	900.00	—	72 x 240	675.00	—
8 GAUGE	.1644		11 GAUGE	.1196	.1233
	6.875			5.0	5.156
48 x 96	220.00	—	48 x 96	160.00	164.99
48 x 120	275.00	—	48 x 120	200.00	206.24
48 x 144	330.00	—	48 x 144	240.00	247.49
48 x 240	550.00	—	60 x 96	200.00	206.24
60 x 96	275.00	—	60 x 120	250.00	257.80
60 x 120	343.75	—	60 x 144	300.00	309.36
60 x 144	412.50	—	60 x 240	500.00	515.60
60 x 240	687.50	—	72 x 96	240.00	—
72 x 96	330.00	—	72 x 120	300.00	—
72 x 120	412.50	—	72 x 144	360.00	—
72 x 144	495.00	—	72 x 240	600.00	—
72 x 240	825.00	—			

SHEETS

Hot Rolled, Cold Rolled, Galvanized & P&O



SHEET SIZE IN INCHES	Galvanized		SHEET SIZE IN INCHES	Galvanized	
	Ga. in Inches Lbs./Sq. Ft.	Ga. in Inches Lbs./Sq. Ft.		Ga. in Inches Lbs./Sq. Ft.	Ga. in Inches Lbs./Sq. Ft.
	WEIGHT PER SHEET			WEIGHT PER SHEET	
12 GAUGE	.1046	.1084	18 GAUGE	.0478	.0516
	4.375	4.531		2.0	2.156
48 x 96	140.00	144.99	36 x 96	48.00	51.74
48 x 120	175.00	181.24	36 x 120	60.00	64.68
48 x 144	210.00	217.49	36 x 144	72.00	77.62
60 x 96	175.00	181.24	48 x 96	64.00	68.99
60 x 120	218.75	226.55	48 x 120	80.00	86.24
60 x 144	262.50	271.86	48 x 144	96.00	103.49
60 x 240	437.50	453.10	60 x 96	80.00	—
72 x 96	210.00	—	60 x 120	100.00	—
72 x 120	262.50	—	60 x 144	120.00	—
72 x 144	315.00	—	20 GAUGE	.0359	.0396
72 x 240	525.00	—		1.5	1.656
14 GAUGE	.0747	.0785	36 x 96	36.00	39.74
	3.125	3.281	36 x 120	45.00	49.68
48 x 96	100.00	104.99	36 x 144	54.00	59.62
48 x 120	125.00	131.24	48 x 96	48.00	52.99
48 x 144	150.00	157.49	48 x 120	60.00	66.24
48 x 144	150.00	157.49	48 x 144	72.00	79.49
60 x 96	125.00	131.24	22 GAUGE	.0299	.0336
60 x 120	156.25	164.05		1.25	1.406
60 x 144	187.50	196.86	36 x 96	30.00	33.74
72 x 96	150.00	—	36 x 120	37.50	42.18
72 x 120	187.50	—	36 x 144	45.00	50.61
72 x 144	225.00	—	48 x 96	40.00	44.99
16 GAUGE	.0598	.0635	48 x 120	50.00	56.24
	2.5	2.656	48 x 144	60.00	67.48
48 x 96	80.00	84.99	24 GAUGE	.0239	.0276
48 x 120	100.00	106.24		1.0	1.156
48 x 144	120.00	127.49	36 x 96	24.00	27.74
60 x 96	100.00	106.24	36 x 120	30.00	34.68
60 x 120	125.00	132.80	48 x 96	32.00	36.99
60 x 144	150.00	159.36	48 x 120	40.00	46.24



SHEETS

Hot Rolled, Cold Rolled, Galvanized & P&O

SHEET SIZE IN INCHES	Galvanized		SHEET SIZE IN INCHES	Galvanized	
	Ga. in Inches Lbs./Sq. Ft.	Ga. in Inches Lbs./Sq. Ft.		Ga. in Inches Lbs./Sq. Ft.	Ga. in Inches Lbs./Sq. Ft.
	WEIGHT PER SHEET			WEIGHT PER SHEET	
26 GAUGE	.0179	.0217	30 GAUGE		.0157
	.750	.906			.657
36 x 96	18.00	21.74	36 x 96	—	15.77
36 x 120	22.50	27.18	36 x 120	—	19.71
			48 x 120	—	26.28
28 GAUGE	.0149	.0187	<p>We can furnish sheets sheared to your requirements. Some sizes stocked in Galvannealed (paint grip).</p>		
	.625	.781			
36 x 96	15.00	18.74			
36 x 120	18.75	23.43			



SQUARE TUBING

Also available in Galvanized

SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT
1/2 x 1/2	16	0.065	.384	1-3/4 x 1-3/4	14	0.083	1.880
3/4 x 3/4	16	0.065	.605		11	0.120	2.660
	14	0.083	.753	2 x 2	16	0.065	1.710
1 x 1	16	0.065	.822		14	0.083	2.164
	15	0.072	.909		12	0.109	2.802
	14	0.083	1.035		11	0.120	3.05
	12	0.109	1.320		3/16	0.188	4.32
	11	0.120	1.436		1/4	0.250	5.41
1-1/4 x 1-1/4	16	0.065	1.047	2-1/2 x 2-1/2	14	0.083	2.73
	14	0.083	1.317		11	0.120	3.90
	12	0.109	1.691		3/16	0.188	5.59
	11	0.120	1.844		1/4	0.250	7.11
	10	0.1345	2.030	3 x 3	14	0.083	3.29
1-1/2 x 1-1/2	3/16	0.188	2.400		11	0.120	4.75
	16	0.065	1.268		3/16	0.188	6.87
	14	0.083	1.599		1/4	0.250	8.81
	12	0.109	2.062		5/16	0.312	10.58
	11	0.120	2.252		3/8	0.375	12.17
	10	0.145	2.330	3-1/2 x 3-1/2	11	0.120	5.61
	3/16	0.188	3.040		3/16	0.188	8.15
	1/4	0.250	4.110		1/4	0.250	10.51
					5/16	0.312	12.70
				3/8	0.375	14.72	

SQUARE TUBING

Also available in Galvanized



SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	
4 x 4	14	0.083	4.42	8 x 8	3/16	0.188	19.63	
	11	0.120	6.46		1/4	0.250	25.82	
	3/16	0.188	9.42		5/16	0.312	31.84	
	1/4	0.250	12.21		3/8	0.375	37.69	
	5/16	0.312	14.83		1/2	0.550	48.85	
	3/8	0.375	17.27		5/8	0.625	59.32	
	1/2	0.500	21.63					
4-1/2 x 4-1/2	1/8	0.125	7.31	10 x 10	3/16	0.188	24.73	
	3/16	0.188	10.70		1/4	0.250	32.63	
	1/4	0.250	13.91		5/16	0.312	40.35	
	5/16	0.312	16.96		3/8	0.375	47.90	
	3/8	0.375	19.82		1/2	0.500	62.46	
					5/8	0.625	76.33	
5 x 5	1/8	0.125	8.16	12 x 12	1/4	0.250	39.43	
	3/16	0.188	11.97		5/16	0.312	48.86	
	1/4	0.250	15.62		3/8	0.375	58.10	
	5/16	0.312	19.08		1/2	0.500	76.07	
	3/8	0.375	22.37		5/8	0.625	93.34	
	1/2	0.500	28.43					
6 x 6	3/16	0.188	14.53	14 x 14	5/16	0.312	57.36	
	1/4	0.250	19.02		3/8	0.375	68.31	
	5/16	0.312	23.34		1/2	0.500	89.68	
	3/8	0.375	27.48		5/8	0.625	110.36	
	1/2	0.500	35.24	16 x 16	5/16	0.312	65.87	
	5/8	0.625	42.30		3/8	0.375	78.52	
					1/2	0.500	103.30	
7 x 7	3/16	0.188	17.08	5/8	0.625	127.37		
	1/4	0.250	22.42					
	5/16	0.312	27.59					
	3/8	0.375	32.58					
	1/2	0.500	42.05					
	5/8	0.625	50.81					

Larger sizes available – please inquire.
See our hardware catalog for information on Tubing accessories.



RECTANGULAR TUBING

Also available in Galvanized

SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT
1-1/2 x 1	16	0.065	1.047	5 x 2	11	0.120	5.61
	14	0.083	1.317		3/16	0.188	8.15
	11	0.120	1.844		1/4	0.250	10.51
			5/16		0.312	12.70	
2 x 1	16	0.065	1.268	5 x 3	11	0.120	6.46
	14	0.083	1.599		3/16	0.188	9.42
	11	0.120	2.252		1/4	0.250	12.21
			5/16		0.312	14.83	
2 x 1-1/4	14	0.083	1.741	3/8	0.375	17.27	
	11	0.120	2.456	1/2	0.500	21.63	
2 x 1-1/2	11	0.120	2.66	5 x 4	3/16	0.188	10.70
	14	0.083	1.882		1/4	0.250	13.91
2-1/2 x 1-1/2	14	0.083	2.164		5/16	0.312	16.96
	11	0.120	3.05		3/8	0.375	19.82
	3/16	0.188	4.32				
	1/4	0.250	5.41				
3 x 1	16	0.065	1.71	6 x 2	11	0.120	6.46
	14	0.083	2.164		3/16	0.188	9.42
	11	0.120	3.05		1/4	0.250	12.21
			5/16		0.312	14.83	
3 x 1-1/2	16	0.065	1.932	3/8	0.375	17.27	
	14	0.083	2.45	6 x 3	3/16	0.188	10.70
	11	0.120	3.48		1/4	0.250	13.91
	3/16	0.188	4.96		5/16	0.312	16.96
			3/8		0.375	19.82	
3 x 2	14	0.083	2.73	1/2	0.500	25.03	
	11	0.120	3.90	6 x 4	3/16	0.188	11.97
	3/16	0.188	5.59		1/4	0.250	15.62
	1/4	0.250	7.11		5/16	0.312	19.08
5/16	0.312	8.45	3/8		0.375	22.37	
3-1/2 x 1-1/2	14	0.083	2.73	1/2	0.500	28.43	
4 x 2	14	0.083	3.29	7 x 3	3/16	0.188	11.97
	11	0.120	4.75		1/4	0.250	15.62
	3/16	0.188	6.87		5/16	0.312	19.08
	1/4	0.250	8.81		3/8	0.375	22.37
	5/16	0.312	10.58	7 x 4	3/16	0.188	13.25
	3/8	0.375	12.17		1/4	0.250	17.32
4 x 3	11	0.120	5.61	5/16	0.312	21.21	
	3/16	0.188	8.15	3/8	0.375	24.93	
	1/4	0.250	10.51				
	5/16	0.312	12.70				
	3/8	0.375	14.72				

RECTANGULAR TUBING

Also available in Galvanized



SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	
7 x 5	3/16	0.188	14.53	10 x 8	3/16	0.188	22.18	
	1/4	0.250	19.02		1/4	0.250	29.29	
	5/16	0.312	23.34		5/16	0.312	36.38	
	3/8	0.375	27.48		3/8	0.375	42.79	
	1/2	0.500	35.24		1/2	0.500	55.66	
8 x 2	3/16	0.188	11.97	12 x 2	5/8	0.625	67.82	
	1/4	0.250	15.62		12 x 2	3/16	0.188	17.08
	3/8	0.375	22.37			1/4	0.250	22.42
	8 x 3	3/16	0.188			13.25	3/8	0.375
		1/4	0.250		17.32	12 x 4	3/16	0.188
5/16		0.312	21.21	1/4	0.250		25.82	
3/8	0.375	24.93	5/16	0.312	31.84			
1/2	0.500	31.84	3/8	0.375	37.69			
8 x 4	3/16	0.188	14.53	1/2	0.500		48.85	
	1/4	0.250	19.02	5/8	0.625	59.32		
	5/16	0.312	23.34	12 x 6	3/16	0.188	22.18	
	3/8	0.375	27.48		1/4	0.250	29.23	
	1/2	0.500	35.24		5/16	0.312	36.10	
5/8	0.625	42.30	3/8		0.375	42.79		
8 x 6	3/16	0.188	17.08		1/2	0.500	55.66	
	1/4	0.250	22.42	5/8	0.625	67.82		
	5/16	0.312	27.59	12 x 8	3/16	0.188	24.73	
	3/8	0.375	32.58		1/4	0.250	32.63	
	1/2	0.500	42.05		5/16	0.312	40.35	
10 x 2	3/16	0.188	14.53		3/8	0.375	47.90	
	1/4	0.250	19.02		1/2	0.500	62.46	
	10 x 4	3/16	0.188	17.08	5/8	0.625	76.33	
		1/4	0.250	22.42	12 x 10	1/4	0.250	36.03
		5/16	0.312	27.59		5/16	0.312	44.60
3/8		0.375	32.58	3/8		0.375	53.00	
1/2		0.500	42.05	1/2		0.500	69.27	
10 x 5	3/16	0.188	18.35	14 x 6		1/4	0.250	32.63
	1/4	0.250	24.12		5/16	0.312	40.35	
	5/16	0.312	29.72		3/8	0.375	47.90	
	3/8	0.375	35.13		1/2	0.500	62.46	
	10 x 6	3/16	0.188		19.63	5/8	0.625	76.33
1/4		0.250	25.82	14 x 10	5/16	0.312	48.86	
5/16		0.312	31.84		3/8	0.375	58.10	
3/8		0.375	37.69		1/2	0.500	76.07	
1/2		0.500	48.85		5/8	0.625	93.34	
5/8	0.625	59.32						



RECTANGULAR TUBING

Also available in Galvanized

SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT
16 x 8	5/16	0.312	48.86	20 x 8	5/16	0.312	57.36
	3/8	0.375	58.10		3/8	0.375	68.31
	1/2	0.500	76.07		1/2	0.500	89.68
	5/8	0.625	93.34		5/8	0.625	110.36
16 x 12	5/16	0.312	57.36	20 x 12	5/16	0.312	65.87
	3/8	0.375	68.31		3/8	0.375	78.52
	1/2	0.500	89.68		1/2	0.500	103.30
	5/8	0.625	110.36		5/8	0.625	127.37
18 x 6	1/4	0.250	39.43	Other sizes are available. Please inquire.			
	5/16	0.312	48.86				
	3/8	0.375	58.10				
	1/2	0.500	76.07				
	5/8	0.625	93.34				

Other sizes are available.
Please inquire.



ROUND TUBING

Also available in Galvanized

SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT	SIZE (INCHES)	GAUGE	THICKNESS	LBS PER FT
5/8	18	0.049	.301	1-3/4	16	0.065	1.170
	16	0.065	.389		13	0.095	1.679
3/4	16	0.065	.476	1.90	11	0.120	2.089
	14	0.083	.591		16	0.065	1.257
1	11	0.120	.807	2	14	0.083	1.589
	16	0.065	.649		16	0.065	1.343
1-1/8	14	0.083	.813	2-1/4	14	0.083	1.699
	11	0.120	1.128		11	0.120	2.409
1-1/8	16	0.065	.736	3	16	0.065	2.037
	11	0.120	1.288		11	0.120	3.691
1-1/4	16	0.065	.823	3-1/4	1/4	0.250	7.343
	11	0.120	1.448		1/4	0.250	8.010
1-3/8	16	0.065	.909	3-1/2	16	0.065	2.385
	16	0.065	.996		4	16	0.065
1-1/2	14	0.083	1.256	4	11	0.120	4.973
	12	0.102	1.619		6	11	0.120
	13	0.095	1.426	7		0.188	11.190
	3/16	0.188	2.634				
1.66	14	0.083	1.367				

PROCESSING SERVICES

SAW CUTTING

We have the capability to saw cut the any steel bar or shape:

- Wide-flange beams - up to 40" depth
 - Pipe and structural tubing - up to 20" diameter (round)
 - All bar shapes
 - Bar grating and metal decking - up to 40" wide. Mitre cutting available for most angle configurations
- High-volume production cutting available to your specifications

SHEARING/FORMING

Processing sheet and plate is one of our specialties. We can form up to 3/4" plate twenty six foot long to your drawings. We also specialize in light gauge forming for stair treads.

PLATE BURNING

We have oxy-fuel and plasma cutting capabilities and the ability to cut up to 10 foot wide by sixty foot long plate up to 6" thick. We can accept e-mailed drawings for programmed shapes.

BLASTING AND PAINTING

We offer shot-blasting services in our wheel-a-brator. We can handle up to 96" wide plates and any structural shapes, as well as items sent in after fabrication. We also will primer material to your specification.

PUNCHING

We have the capability to punch Angles, Flats, and UM Plates on our CNC-controlled Anglemasters.

IRONWORKERS

We have several high tonnage ironworkers to cut and punch bar products and plates to your specifications.

MISCELLANEOUS SERVICES

Structural Rolling - we can roll angles, flats, and pipe to your specifications (ask your salesman for details regarding size capabilities)

Drilling - plate drilling to your specifications.

Cambering - we can camber up to 36" beams and straighten most T-shapes.



PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized

NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS
1/8	.405	10S	0.049	0.307	0.1863
		40 40S Std.	0.068	0.269	0.2447
		80 80S Ex. Hvy.	0.095	0.215	0.3145
1/4	.540	10S	0.065	0.410	0.3297
		40 40S Std.	0.088	0.364	0.4248
		80 80S Ex. Hvy.	0.119	0.302	0.5351
3/8	.675	10S	0.065	0.545	0.4235
		40 40S Std.	0.091	0.493	0.5676
		80 80S Ex. Hvy.	0.126	0.423	0.7388
1/2	.840	5S	0.065	0.710	0.5383
		10S	0.083	0.674	0.6710
		40 40S Std.	0.109	0.622	0.8510
		80 80S Ex. Hvy.	0.147	0.546	1.088
		160	0.187	0.466	1.304
		XX Hvy.	0.294	0.252	1.714
3/4	1.050	5S	0.065	0.920	0.6838
		40 40S Std.	0.113	0.824	1.131
		80 80S Ex. Hvy.	0.154	0.742	1.474
		160	0.218	0.614	1.937
			0.308	0.434	2.441
1	1.315	10S	0.109	1.097	1.404
		40 40S Std.	0.133	1.049	1.679
		80 80S Ex. Hvy.	0.179	0.957	2.172
		160	0.250	0.815	2.844
			0.358	0.599	3.659
1-1/4	1.660	5S	0.065	1.530	1.107
		10S	0.109	1.442	1.806
		40 40S Std.	0.140	1.380	2.273
		80 80S Ex. Hvy.	0.191	1.278	2.997
		160	0.250	1.160	3.765
		0.382	0.896	5.214	
1-1/2	1.900	10S	0.109	1.682	2.085
		40 40S Std.	0.145	1.610	2.718
		80 80S Ex. Hvy.	0.200	1.500	3.631
		160	0.281	1.338	4.859
			0.400	1.100	6.408

PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized



NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS
2	2.375	5S	0.065	2.245	1.604
		10S	0.109	2.157	2.638
		40 40S Std.	0.154	2.067	3.653
		80 80S Ex. Hvy.	0.218	1.939	5.022
		160 XX Hvy.	0.343	1.689	7.444
			0.436	1.503	9.029
2-1/2	2.875	5S	0.083	2.709	2.475
		10S	0.120	2.635	3.531
		40 40S Std.	0.203	2.469	5.793
		80 80S Ex. Hvy.	0.276	2.323	7.661
		160 XX Hvy.	0.375	2.125	10.01
			0.552	1.771	13.69
3	3.500	10S	0.120	3.260	4.332
		40 40S Std.	0.216	3.068	7.576
		80 80S Ex. Hvy.	0.300	2.900	10.25
		160 XX Hvy.	0.438	2.624	14.32
					0.600
3-1/2	4.000	5S	0.083	3.834	3.472
		10S	0.120	3.760	4.973
		40 40S Std.	0.226	3.548	9.109
		80 80S Ex. Hvy.	0.318	3.364	12.50
4	4.500	5S	0.083	4.334	3.915
		10S	0.120	4.260	5.613
		40 40S Std.	0.237	4.026	10.79
		80 80S Ex. Hvy.	0.337	3.826	14.98
		120 XX Hvy.	0.438	3.624	19.00
		160 XX Hvy.	0.531	3.438	22.51
					0.674
5	5.563	5S	0.109	5.345	6.349
		10S	0.134	5.295	7.770
		40 40S Std.	0.258	5.047	14.62
		80 80S Ex. Hvy.	0.375	4.813	20.78
		120 XX Hvy.	0.500	4.563	27.04
		160 XX Hvy.	0.625	4.313	32.96
					0.750



PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized

NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS		
6	6.625	5S	0.109	6.407	7.585		
		10S	0.134	6.357	9.289		
		40	40S Std.	0.280	6.056	18.97	
		80	80 Ex. Hvy.	0.432	5.761	28.57	
		120		0.562	5.491	36.39	
		160		0.718	5.189	45.30	
		XX Hvy.	0.864	4.897	53.16		
8	8.625	5S	0.109	8.407	9.914		
		10S	0.148	8.329	13.40		
		20		0.250	8.125	22.36	
		30		0.277	8.071	24.70	
		40	40S Std.	0.322	7.981	28.55	
		60		0.406	7.813	35.64	
		80	80S Ex. Hvy.	0.500	7.625	43.39	
		100		0.593	7.439	50.89	
		120		0.718	7.189	60.93	
		140		0.812	7.001	67.76	
				XX Hvy.	0.875	6.875	72.42
		160			0.906	6.813	74.69
10	10.750	5S	0.134	10.482	15.19		
		10S	0.165	10.420	18.70		
		20		0.250	10.250	28.04	
		30		0.307	10.136	34.24	
		40	40S Std.	0.365	10.020	40.48	
		60	Ex. Hvy.	0.500	9.750	54.74	
		80		0.593	9.564	64.33	
		100		0.718	9.224	76.93	
		120		0.843	9.064	89.20	
				XX	1.000	8.750	104.1
160			1.125	8.500	115.7		
12	12.750	5S	0.165	12.420	22.18		
		10S	0.180	12.390	24.20		
		20		0.250	12.250	33.38	
		30		0.330	12.090	43.77	
			40S Std.	0.375	12.000	49.56	
		40		0.406	11.938	53.53	
			80S Ex. Hvy.	0.500	11.750	65.42	
		60		0.562	11.626	73.16	
		80		0.687	11.376	88.51	
		100		0.843	11.064	107.2	
		120		1.000	10.750	125.5	
		140		1.125	10.500	139.7	
		160		1.312	10.126	160.3	

PIPE DIMENSIONS & WEIGHTS

Also available in Galvanized



NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS
14	14.000	10	0.250	13.500	36.71
		20	0.312	13.376	45.68
		30 Std.	0.375	13.250	54.57
		40	0.438	13.124	63.37
		Ex. Hvy.	0.500	13.000	72.09
		60	0.593	12.814	84.91
		80	0.750	12.500	106.1
		100	0.937	12.126	130.7
		120	1.093	11.814	150.7
		140	1.250	11.500	170.2
160	1.406	11.188	189.1		
16	16.000	10	0.250	15.500	42.05
		20	0.312	15.376	52.36
		30 Std.	0.375	15.250	62.58
		40 Ex. Hvy.	0.500	15.000	82.77
		60	0.656	14.688	107.5
		80	0.843	14.314	136.5
		100	1.031	13.938	164.8
		120	1.218	13.564	192.3
		140	1.438	13.124	223.5
		160	1.593	12.814	245.1
18	18.000	10	0.250	17.500	47.39
		20	0.312	17.376	59.03
		Std.	0.375	17.250	70.59
		30	0.438	17.124	82.06
		Ex. Hvy.	0.500	17.000	93.45
		40	0.562	16.876	104.8
		60	0.750	16.500	138.2
		80	0.937	16.126	170.8
		100	1.156	15.688	208.0
		120	1.375	15.250	244.1
140	1.562	14.876	274.2		
160	1.781	14.438	308.5		
20	20.000	10	0.250	19.500	52.73
		20 Std.	0.375	19.250	78.60
		30 Ex. Hvy.	0.500	19.000	104.1
		40	0.593	18.814	122.9
		60	0.812	18.376	166.4
		80	1.031	17.938	208.9
		100	1.281	17.438	256.1
		120	1.500	17.000	296.4
		140	1.750	16.500	341.1
		160	1.968	16.064	379.0



PIPE DIMENSIONS & WEIGHTS

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NOMINAL PIPE SIZE INCHES	OUTSIDE DIAMETER INCHES	I.P.S. SCHEDULE	WALL THICKNESS INCHES	INSIDE DIAMETER INCHES	WEIGHT PER FOOT POUNDS		
24	24.000	10	0.250	23.500	63.41		
		20	0.375	23.250	94.62		
		Std.	0.500	23.000	125.5		
		Ex. Hvy.	0.562	22.876	140.8		
		30	0.687	22.626	171.2		
		40	0.968	22.064	238.1		
		60	1.218	21.564	296.4		
		80	1.531	20.938	367.4		
		100	1.812	20.376	429.4		
30	30.000	10	0.312	29.376	98.9		
		20	0.375	29.250	118.7		
		Std.	0.500	29.000	157.5		
		Ex. Hvy.	0.625	28.750	196.1		
		30					
		36	36.000	Std.	0.375	35.250	142.7
				Ex. Hvy.	0.500	35.000	189.6
		38	38.000		0.312	37.367	125.58
	0.375			37.250	150.69		
	0.500			37.000	200.25		
40	40.000		0.312	39.376	132.25		
			0.375	39.250	158.70		
			0.500	39.000	210.93		
42	42.000		0.312	41.376	138.91		
			0.375	41.250	166.71		
			0.500	41.000	221.61		



PERFORATED METAL

Ask your sales representative for more information.

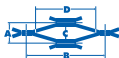


STANDARD EXPANDED METAL

Also available in Aluminum, Stainless and Galvanized
See page 38 for flattened expanded metal



SIZE (INCHES) & STYLE NO.	WEIGHT IN POUNDS PER HUNDRED SQ. FT.	CENTER TO CENTER OF BOND (INCHES)		SIZE OF OPENINGS (INCHES)		SIZE OF STRANDS (INCHES)		OVERALL THICKNESS (INCHES)
		A	B	C	D	Width	Thickness	
		Width	Length	Width	Length			
3/16 - No. 24	50	0.200	0.50	0.166	0.437	0.050	0.024	0.086
3/16 - No. 22	62	0.200	0.50	0.166	0.437	0.050	0.030	0.088
3/16 - No. 20	75	0.200	0.50	0.166	0.437	0.050	0.036	0.090
1/4 - No. 20	86	0.255	1.00	0.172	0.719	0.073	0.036	0.125
1/4 - No. 18	114	0.255	1.00	0.172	0.719	0.073	0.048	0.125
1/2 - No. 20	43	0.500	1.20	0.438	0.938	0.072	0.036	0.124
1/2 - No. 18	70	0.500	1.20	0.438	0.938	0.088	0.048	0.155
1/2 - No. 16	86	0.500	1.20	0.375	0.938	0.086	0.060	0.157
1/2 - No. 13	147	0.500	1.20	0.313	0.938	0.096	0.092	0.182
3/4 - No. 16	54	0.923	2.00	0.813	1.750	0.099	0.060	0.186
3/4 - No. 13	80	0.923	2.00	0.750	1.688	0.096	0.092	0.195
3/4 - No. 10	120	0.923	2.00	0.750	1.625	0.144	0.092	0.282
3/4 - No. 9	180	0.923	2.00	0.688	1.563	0.148	0.134	0.300
1 - No. 16	44	1.090	2.40	1.000	2.063	0.096	0.060	0.182
1-1/2 - No. 18	20	1.330	3.00	1.313	2.625	0.067	0.048	0.140
1-1/2 - No. 16	40	1.330	3.00	1.250	2.625	0.107	0.060	0.211
1-1/2 - No. 13	60	1.330	3.00	1.188	2.500	0.104	0.092	0.215
1-1/2 - No. 10	79	1.330	3.00	1.188	2.500	0.137	0.092	0.289
1-1/2 - No. 9	120	1.330	3.00	1.125	2.375	0.142	0.134	0.295
1-1/2 - No. 6	250	1.330	3.00	1.000	2.313	0.201	0.198	0.425
2 - No. 10	68	1.850	4.00	1.625	3.438	0.164	0.092	0.312
2 - No. 9	90	1.850	4.00	1.563	3.375	0.149	0.134	0.325



EXPANDED METAL GRATING

Also available in Aluminum, Stainless and Galvanized



STYLE	WEIGHT IN POUNDS PER HUNDRED SQ. FT.	CENTER TO CENTER OF BOND (INCHES)		SIZE OF OPENINGS (INCHES)		SIZE OF STRANDS (INCHES)		OVERALL THICKNESS (INCHES)
		A	B	C	D	Width	Thickness	
		Width	Length	Width	Length			
3 lb.	300	1.333	5.33	0.938	3.438	0.261	0.183	0.500
3.14 lb.	314	2.000	6.00	1.625	4.875	0.308	0.250	0.562
4 lb.	400	1.333	5.33	0.938	3.438	0.297	0.215	0.625
4.27 lb.	427	1.412	4.00	1.000	2.875	0.297	0.250	0.625
5 lb.	500	1.333	5.333	0.813	3.375	0.327	0.250	0.625
6.25 lb.	625	1.412	5.33	0.813	3.375	0.347	0.312	0.750
7 lb.	700	1.412	5.33	0.813	3.375	0.388	0.312	0.750

Standard Size Sheet is 4' x 8'.



FLATTENED EXPANDED METAL

Also available in Aluminum, Stainless and Galvanized



SIZE (INCHES) & STYLE NO.	WEIGHT IN POUNDS PER HUNDRED SQ. FT.	CENTER TO CENTER OF BOND (INCHES)		SIZE OF OPENINGS (INCHES)		SIZE OF STRANDS (INCHES)		OVERALL THICKNESS (INCHES)
		A	B	C	D	Width	Thickness	
		Width	Length	Width	Length			
3/16 – No. 24	48	0.200	0.52	0.085	0.459	0.057	0.019	0.019
3/16 – No. 22	60	0.200	0.52	0.085	0.459	0.057	0.024	0.024
3/16 – No. 20	72	0.200	0.52	0.085	0.459	0.057	0.029	0.029
1/4 – No. 20	83	0.255	1.03	0.094	0.688	0.086	0.030	0.030
1/4 – No. 18	111	0.255	1.03	0.094	0.688	0.086	0.040	0.040
1/2 – No. 20	40	0.500	1.26	0.375	1.000	0.070	0.029	0.029
1/2 – No. 18	66	0.500	1.26	0.281	1.000	0.109	0.039	0.039
1/2 – No. 16	82	0.500	1.26	0.250	1.000	0.103	0.050	0.050
1/2 – No. 13	140	0.500	1.26	0.250	1.000	0.122	0.070	0.070
3/4 – No. 16	51	0.923	2.10	0.750	1.750	0.115	0.048	0.048
3/4 – No. 14	63	0.923	2.12	0.688	1.813	0.119	0.061	0.061
3/4 – No. 13	75	0.923	2.10	0.688	1.782	0.119	0.070	0.070
3/4 – No. 9	171	0.923	2.12	0.563	1.688	0.164	0.120	0.120
1 – No. 16	41	1.090	2.56	0.875	2.250	0.115	0.048	0.048
1-1/2 – No. 16	38	1.330	3.20	1.063	2.750	0.123	0.048	0.048
1-1/2 – No. 14	46	1.330	3.20	1.063	2.750	0.138	0.060	0.060
1-1/2 – No. 13	57	1.330	3.20	1.063	2.750	0.138	0.070	0.070
1-1/2 – No. 9	111	1.330	3.20	1.000	2.563	0.175	0.110	0.110

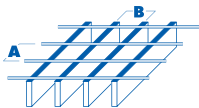
Standard sheet size is 4'x8'. Other sizes are available.



BAR GRATING

Smooth or Serrated

Also available in Aluminum, Stainless and Galvanized



WELDED Typical Dimensions

A	B
4"	1-3/16"

STANDARD SHEET SIZES

2' x 20'
3' x 30'
2' x 24'
3' x 24'

Standard space pattern (19W4)

Other patterns are available.

We can furnish this product fabricated to your requirements.

BEARING BAR SIZE (INCHES)	WEIGHT PER SQ. FT.	BEARING BAR SIZE (INCHES)	WEIGHT PER SQ. FT.	BEARING BAR SIZE (INCHES)	WEIGHT PER SQ. FT.	BEARING BAR SIZE (INCHES)	WEIGHT PER SQ. FT.
3/4 x 1/8	3.9	1-1/4 x 1/8	6.0	1-1/2 x 1/4	13.5	2-1/4 x 3/16	14.8
3/4 x 3/16	5.5	1-1/4 x 3/16 std.	8.7	1-3/4 x 3/16	12.1	2-1/4 x 1/4	20.0
1 x 1/8	4.9	1-1/4 x 1/4	11.4	1-3/4 x 1/4	15.7	2-1/2 x 3/16	17.0
1 x 3/16 std.	7.1	1-1/2 x 1/8	7.1	2 x 3/16	13.8	2-1/2 x 1/4	22.1
1 x 1/4	9.2	1-1/2 x 3/16	10.3	2 x 1/4	18.1		

We Stock Bar Grating Clips (Friction or Saddle)



STAINLESS ANGLES

TYPE 304-316
20 FT. RANDOM LENGTH



A (IN)	B (IN)	C (IN)	WEIGHT PER FT.	A (IN)	B (IN)	C (IN)	WEIGHT PER FT.
3/4	3/4	1/8	0.59	2	2	1/8	1.650
1	1	1/8	0.80	2	2	3/16	2.44
1	1	3/16	1.160	2	2	1/4	3.190
1 1/4	1 1/4	1/8	1.010	2 1/2	2 1/2	3/16	3.070
1 1/4	1 1/4	3/16	1.480	2 1/2	2 1/2	1/4	4.100
1 1/2	1 1/2	1/8	1.230	3	3	1/4	4.90
1 1/2	1 1/2	3/16	1.800	4	4	1/4	6.60
1 1/2	1 1/2	1/4	2.340				



STAINLESS FLATS

TYPE 304-316
12 FT. RANDOM LENGTH



THICKNESS (IN)	WIDTH (IN)	WEIGHT PER FT. (LBS)	THICKNESS + (IN)	WIDTH (IN)	WEIGHT PER FT. (LBS)
1/8	1	0.425	1/4	2	1.700
1/8	1 1/4	0.531	1/4	2 1/2	2.125
1/8	1 1/2	0.638	1/4	3	2.550
1/8	2	0.850	1/4	4	3.400
1/8	2 1/2	1.063	1/4	6	5.100
1/8	3	1.275	3/8	1	1.275
1/8	4	1.700	3/8	1 1/4	1.594
3/16	1	0.638	3/8	1 1/2	1.913
3/16	1 1/4	0.797	3/8	2	2.550
3/16	1 1/2	0.956	3/8	2 1/2	3.188
3/16	2	1.275	3/8	3	3.825
3/16	2 1/2	1.594	3/8	4	5.100
3/16	3	1.913	3/8	6	7.650
3/16	4	2.550	1/2	1	1.700
1/4	1	0.850	1/2	1 1/2	2.550
1/4	1 1/4	1.063	1/2	2	3.400
1/4	1 1/2	1.275	1/2	3	5.100
1/4	2	1.700	1/2	4	6.800



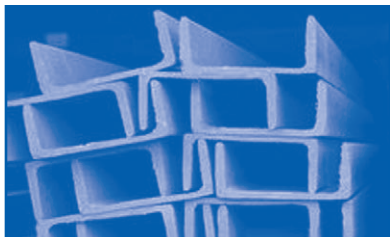
STAINLESS CHANNEL

TYPE 304

20 FT. RANDOM LENGTH



A (IN)	B (IN)	C (IN)	WEIGHT PER FT (LBS)	A (IN)	B (IN)	C (IN)	WEIGHT PER FT (LBS)
1 1/2	3/4	1/8	1.200	3	1 1/2	1/4	4.750
2	1	1/8	1.530	4	1 3/4	1/4	6.690
2	1	1/4	3.150	6	1.9	0.343	8.300

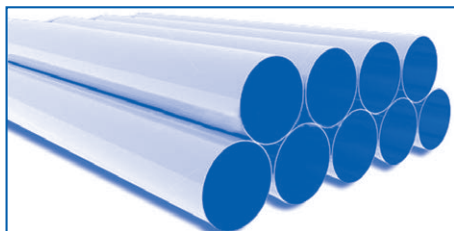


STAINLESS PIPE (SCH 40)

TYPE 304-316

20 FT. RANDOM LENGTH

NOMINAL PIPE SIZE (IN)	WEIGHT PER FT. (LBS)	O.D. IN INCHES	WALL THICKNESS (IN)
1/2	0.851	0.840	0.109
3/4	1.131	1.050	0.113
1	1.679	1.315	0.133
1 1/4	2.273	1.660	0.140
1 1/2	2.718	1.990	0.145
2	3.653	2.375	0.154
2 1/2	5.793	2.875	0.203
3	7.576	3.500	0.216
4	10.89	4.500	0.237



STAINLESS PLATE

TYPE 304-316



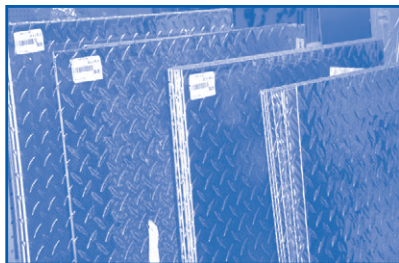
THICKNESS + (IN)	DECIMAL (IN)	WEIGHT PER SQ. FT. (LBS)	THICKNESS + (IN)	DECIMAL (IN)	WEIGHT PER SQ. FT. (LBS)
3/16	0.188	8.58	1/2	0.500	21.66
1/4	0.250	11.16	5/8	0.625	26.83
5/16	0.312	13.75	3/4	0.750	32.12
3/8	0.375	16.50	1	1.00	42.67

STAINLESS FLOOR PLATE

TYPE 304



THICKNESS (IN)	WEIGHT PER SQ. FT. (LBS)
1/8	6.15
3/16	8.70
1/4	11.25



STAINLESS SHEET

TYPE 304-316



THICKNESS (IN)	GAUGE (IN)	WEIGHT PER SQ. FT. (LBS)	THICKNESS (IN)	GAUGE (IN)	WEIGHT PER SQ. FT. (LBS)
0.0235	24	0.987	0.0751	14	3.154
0.0293	22	1.231	0.1054	12	4.427
0.0355	20	1.491	0.1200	11	5.040
0.0480	18	2.016	0.1350	10	5.670
0.0595	16	2.499			



STAINLESS ROUND BAR

TYPE 304
12 FT. RANDOM LENGTH

THICKNESS + (IN)	DECIMAL (IN)	WEIGHT PER FT. (LBS)	THICKNESS + (IN)	DECIMAL (IN)	WEIGHT PER FT. (LBS)
3/16	0.188	0.09	1	1.0	2.67
1/4	0.250	0.17	1 1/8	1.125	3.38
5/16	0.312	0.26	1 1/4	1.25	4.17
3/8	0.375	0.38	1 1/2	1.500	6.01
1/2	0.500	0.67	1 3/4	1.750	8.178
5/8	0.625	1.04	2	2.0	10.68
3/4	0.750	1.50	2 1/4	2.25	13.52



STAINLESS SQUARE BAR

TYPE 304
12 FT. RANDOM LENGTH

THICKNESS + (IN)	DECIMAL (IN)	WEIGHT PER FT. (LBS)	THICKNESS + (IN)	DECIMAL (IN)	WEIGHT PER FT. (LBS)
3/16	0.188	0.120	1/2	0.500	0.850
1/4	0.250	0.213	5/8	0.625	1.328
5/16	0.312	0.332	3/4	0.750	1.913
3/8	0.375	0.478	1	1.0	3.400



STAINLESS SQUARE TUBING

TYPE 304
20 FT. RANDOM LENGTH

OUTSIDE DIMENSION (IN)	WALL THICKNESS GAUGE	WALL THICKNESS DECIMAL (IN)	WEIGHT PER FT. (IN)
1	16	0.065	0.827
1	11	0.120	1.436
1 1/4	16	0.065	1.050
1 1/4	11	0.120	1.844
1 1/2	16	0.065	1.270
1 1/2	11	0.120	2.255
2	16	0.065	1.710
2	11	0.120	3.068
3	11	0.120	4.700
4	11	0.120	6.260

6061-T6 ALUMINUM STRUCTURAL ANGLES 25 Ft. Lengths



SIZES IN INCHES					WEIGHT PER LIN. FT.	WEIGHT PER LENGTH	SIZES IN INCHES					WEIGHT PER LIN. FT.	WEIGHT PER LENGTH
A	X	B	X	C			A	X	B	X	C		
1/2	x	1/2	x	1/8	0.128	3.20	2-1/2	x	2-1/2	x	1/4	1.404	35.10
3/4	x	3/4	x	1/8	0.201	5.03	2-1/2	x	2-1/2	x	5/16	1.729	43.23
1	x	1	x	1/8	0.275	6.88	2-1/2	x	2-1/2	x	3/8	2.047	51.18
1	x	1	x	3/16	0.400	10.00	3	x	3	x	3/16	1.275	31.88
1	x	1	x	1/4	0.514	12.85	3	x	3	x	1/4	1.684	42.10
1-1/4	x	1-1/4	x	1/8	0.343	8.58	3	x	3	x	5/16	2.082	52.05
1-1/4	x	1-1/4	x	3/16	0.510	12.75	3	x	3	x	3/8	2.474	61.85
1-1/4	x	1-1/4	x	1/4	0.656	16.40	3	x	3	x	1/2	3.227	80.68
1-1/2	x	1-1/2	x	1/8	0.423	10.58	3-1/2	x	3-1/2	x	1/4	1.989	49.73
1-1/2	x	1-1/2	x	3/16	0.619	15.48	3-1/2	x	3-1/2	x	5/16	2.461	61.53
1-1/2	x	1-1/2	x	1/4	0.809	20.23	3-1/2	x	3-1/2	x	3/8	2.926	73.15
1-1/2	x	1-1/2	x	3/8	1.176	29.40	3-1/2	x	3-1/2	x	1/2	3.826	95.65
1-3/4	x	1-3/4	x	1/8	0.497	12.43	4	x	4	x	1/4	2.283	57.08
1-3/4	x	1-3/4	x	3/16	0.731	18.28	4	x	4	x	5/16	2.829	70.73
1-3/4	x	1-3/4	x	1/4	0.956	23.90	4	x	4	x	3/8	3.366	84.15
1-3/4	x	1-3/4	x	5/16	1.171	29.28	4	x	4	x	1/2	4.414	110.35
1-3/4	x	1-3/4	x	3/8	1.378	34.45	4	x	4	x	5/8	5.425	135.63
2	x	2	x	1/8	0.577	14.43	5	x	5	x	3/8	4.237	105.93
2	x	2	x	3/16	0.850	21.25	5	x	5	x	1/2	5.578	139.45
2	x	2	x	1/4	1.110	27.75	6	x	6	x	3/8	5.119	127.98
2	x	2	x	5/16	1.364	34.10	6	x	6	x	1/2	6.754	168.85
2	x	2	x	3/8	1.606	40.15	6	x	6	x	5/8	8.352	208.80
2-1/2	x	2-1/2	x	1/8	0.724	18.10	8	x	8	x	1/2	9.141	228.53
2-1/2	x	2-1/2	x	3/16	1.070	26.75	8	x	8	x	3/4	13.478	336.95

6061-T6 ALUMINUM STRUCTURAL CHANNELS

American Standard -25 Ft. Lengths



SIZES IN INCHES					WEIGHT PER LIN. FT.	WEIGHT PER LENGTH	SIZES IN INCHES					WEIGHT PER LIN. FT.	WEIGHT PER LENGTH
A	X	B	X	C			A	X	B	X	C		
3	x	1.410	x	0.170	1.417	35.43	7	x	2.194	x	0.314	4.232	105.80
3	x	1.498	x	0.258	1.729	43.23	8	x	2.290	x	0.250	4.252	106.30
3	x	1.596	x	0.356	2.074	51.85	8	x	2.343	x	0.303	4.751	118.78
4	x	1.580	x	0.180	1.846	46.15	8	x	2.435	x	0.395	5.617	140.43
4	x	1.647	x	0.247	2.161	54.03	8	x	2.527	x	0.487	6.484	162.10
4	x	1.720	x	0.320	2.504	62.60	9	x	2.430	x	0.230	4.604	115.10
5	x	1.750	x	0.190	2.316	57.90	9	x	2.648	x	0.448	6.911	172.78
5	x	1.885	x	0.325	3.108	77.70	10	x	2.600	x	0.240	5.278	131.95
5	x	2.032	x	0.472	3.975	99.38	10	x	2.739	x	0.379	6.915	172.88
6	x	1.920	x	0.200	2.826	70.65	10	x	2.886	x	0.526	8.641	216.03
6	x	1.945	x	0.225	3.002	75.05	12	x	2.960	x	0.300	7.411	185.28
6	x	2.034	x	0.314	3.631	90.78	12	x	3.047	x	0.387	8.639	215.98
6	x	2.157	x	0.437	4.498	112.45	12	x	3.170	x	0.510	10.374	259.35
7	x	2.110	x	0.230	3.541	88.53	15	x	3.400	x	0.400	11.708	292.70



6061-T6 AND 6061-T651

ROUND ALUMINUM BARS 12 Ft. Lengths

DIAMETER IN INCHES	WEIGHT PER LIN. FOOT	WEIGHT PER LENGTH	DIAMETER IN INCHES	WEIGHT PER LIN. FOOT	WEIGHT PER LENGTH
1/8	0.014	0.17	1-7/8	3.244	38.93
3/16	0.032	0.38	2	3.691	44.29
7/32	0.044	0.53	2-1/8	4.166	49.99
1/4	0.058	0.70	2-1/4	4.671	56.05
5/16	0.090	1.08	2-1/2	5.767	69.20
3/8	0.130	1.56	2-5/8	6.358	76.30
7/16	0.177	2.12	2-3/4	6.978	83.74
1/2	0.230	2.76	ww	8.304	99.65
9/16	0.292	3.50	3-1/4	9.746	116.95
5/8	0.360	4.32	3-1/2	11.303	135.64
3/4	0.519	6.23	3-5/8	12.140	R/L
7/8	0.706	8.47	3-3/4	12.975	R/L
1	0.923	11.08	4	14.763	R/L
1-1/8	1.168	14.02	4-1/4	16.666	R/L
1-1/4	1.442	17.30	4-1/2	18.684	R/L
1-5/16	1.590	19.08	5	23.067	R/L
1-3/8	1.745	20.94	5-1/2	27.999	R/L
1-7/16	1.907	22.88	6	33.217	R/L
1-1/2	2.076	24.91	6-1/2	38.983	R/L
1-5/8	2.436	29.23	7	45.212	R/L
1-3/4	2.826	33.91	7-1/2	51.901	R/L
1-13/16	3.031	36.37	8	59.051	R/L



3003-H14 AND 5052-H32

ALUMINUM SHEETS Mill Finish

SIZE IN INCHES	WEIGHT PER SQ. FT.	WEIGHT PER SHEET	SIZE IN INCHES	WEIGHT PER SQ. FT.	WEIGHT PER SHEET
0.032x 48 x 96	0.447	14.30	0.080x 48 x 96	1.117	35.74
0.032x 48 x 120	0.447	17.88	0.080x 48 x 144	1.117	53.62
0.032x 48 x 144	0.447	21.46	0.090x 48 x 96	1.257	40.22
0.040x 48 x 96	0.559	17.89	0.090x 48 x 144	1.257	60.34
0.040x 48 x 120	0.559	22.36	0.100x 48 x 96	1.397	44.70
0.040x 48 x 144	0.559	26.83	0.100x 48 x 120	1.397	55.88
0.050x 48 x 96	0.698	22.34	0.100x 48 x 144	1.397	67.06
0.050x 48 x 120	0.698	27.92	0.125x 48 x 96	1.746	55.87
0.050x 48 x 144	0.698	33.50	0.125x 48 x 120	1.746	69.84
0.063x 48 x 96	0.880	28.16	0.125x 48 x 144	1.746	83.81
0.063x 48 x 120	0.880	35.20	0.190x 48 x 144	2.654	127.39
0.063x 48 x 144	0.880	42.24			

6061-T6511 RECTANGULAR ALUMINUM BARS

Extruded – 12 Foot Lengths. Other Sizes are available – please inquire.



SIZE IN INCHES	WEIGHT PER LIN. FOOT	WEIGHT PER LENGTH	SIZE IN INCHES	WEIGHT PER LIN. FOOT	WEIGHT PER LENGTH
1/8 x 1/2	0.074	0.89	3/8 x 3	1.323	15.88
1/8 x 5/8	0.092	1.10	3/8 x 4	1.764	21.17
1/8 x 3/4	0.110	1.32	3/8 x 6	2.646	31.75
1/8 x 1	0.147	1.76			
1/8 x 1-1/4	0.184	2.21	1/2 x 3/4	0.441	5.29
1/8 x 1-1/2	0.221	2.65	1/2 x 1	0.588	7.06
1/8 x 2	0.294	3.53	1/2 x 1-1/4	0.735	8.82
			1/2 x 1-1/2	0.882	10.58
3/16 x 3/4	0.166	1.99	1/2 x 1-3/4	1.029	12.35
3/16 x 1	0.221	2.65	1/2 x 2	1.176	14.11
3/16 x 1-1/4	0.275	3.30	1/2 x 2-1/2	1.470	17.64
3/16 x 1-1/2	0.331	3.97	1/2 x 3	1.764	21.17
3/16 x 2	0.441	5.29	1/2 x 4	2.352	28.22
			1/2 x 6	3.528	42.34
1/4 x 1/2	0.147	1.76			
1/4 x 3/4	0.221	2.65	5/8 x 3/4	0.551	6.61
1/4 x 1	0.294	3.53	5/8 x 1	0.735	8.82
1/4 x 1-1/4	0.368	4.42	5/8 x 1-1/4	0.918	11.02
1/4 x 1-1/2	0.441	5.29	5/8 x 1-1/2	1.103	13.24
1/4 x 1-3/4	0.515	6.18	5/8 x 2	1.470	17.64
1/4 x 2	0.588	7.06			
1/4 x 2-1/2	0.735	8.82	3/4 x 1	0.882	10.58
1/4 x 3	0.882	10.50	3/4 x 1-1/4	1.103	13.24
1/4 x 4	1.176	14.11	3/4 x 1-1/2	1.323	15.88
			3/4 x 2	1.764	21.17
5/16 x 3/4	0.275	3.30	3/4 x 2-1/2	2.205	26.46
5/16 x 1	0.368	4.42	3/4 x 3	2.646	31.75
5/16 x 1-1/4	0.460	5.52	3/4 x 3-1/2	3.087	37.04
5/16 x 1-1/2	0.551	6.61	3/4 x 4	3.528	42.34
5/16 x 2	0.735	8.82	3/4 x 6	5.292	63.50
3/8 x 1/2	0.221	2.65	1 x 1-1/4	1.470	17.64
3/8 x 3/4	0.330	3.96	1 x 1-1/2	1.764	21.17
3/8 x 1	0.441	5.29	1 x 2	2.352	28.22
3/8 x 1-1/4	0.551	6.61	1 x 2-1/2	2.940	35.28
3/8 x 1-1/2	0.661	7.93	1 x 3	3.528	42.34
3/8 x 2	0.882	10.58	1 x 4	4.704	56.45
			1 x 6	7.056	84.67

ALUMINUM PLATES

Available in various alloys

THICKNESS IN INCHES	WEIGHT PER SQ. FT., LBS.	THICKNESS IN INCHES	WEIGHT PER SQ. FT., LBS.	THICKNESS IN INCHES	WEIGHT PER SQ. FT., LBS.
1/4	3.528	1	14.11	3	42.34
5/16	4.417	1-1/4	17.64	3-1/2	49.39
3/8	5.292	1-1/2	21.17	4	56.45
1/2	7.056	1-3/4	24.70	4-1/2	63.50
5/8	8.820	2	28.22	5	70.56
3/4	10.584	2-1/4	31.75	6	84.67
7/8	12.315	2-1/2	35.28		

3003 ALUMINUM DIAMOND TREAD PLATES

C - Thickness A - Width B - Length

SIZE IN					WEIGHT PER SQ. FT.	WEIGHT PER PLATE	SIZE IN					WEIGHT PER SQ. FT.	WEIGHT PER PLATE
C	X	A	X	B	SQ. FT.	PLATE	C	X	A	X	B	SQ. FT.	PLATE
.063	x	48	x	96	1.01	32.00	.125	x	48	x	96	2.000	64.00
.063	x	48	x	192	1.01	65.00	.125	x	48	x	120	2.000	80.00
							.125	x	48	x	192	2.000	128.00
.100	x	48	x	96	1.600	51.00							
.100	x	48	x	192	1.600	102.40	.1875	x	48	x	96	2.823	90.00
							.1875	x	48	x	192	2.823	181.00

6061-T6 ALUMINUM DIAMOND TREAD PLATES

SIZE IN					WEIGHT PER SQ. FT.	WEIGHT PER PLATE	SIZE IN					WEIGHT PER SQ. FT.	WEIGHT PER PLATE
C	X	A	X	B	SQ. FT.	PLATE	C	X	A	X	B	SQ. FT.	PLATE
.100	x	48	x	192	1.600	102.40	.250	x	48	x	96	3.900	125.00
							.250	x	48	x	192	3.900	249.60
.125	x	48	x	192	2.000	128.00	.250	x	60	x	192	3.900	312.00
.125	x	60	x	192	2.000	160.00							
.188	x	48	x	192	3.000	192.00	.375	x	48	x	192	5.600	358.40
.188	x	60	x	192	3.000	240.00	.375	x	60	x	192	5.600	448.00
							.500	x	48	x	192	7.300	467.20
							.500	x	60	x	192	7.300	584.00

6063-T52 SQUARE ALUMINUM TUBING

21' - 1" Lengths



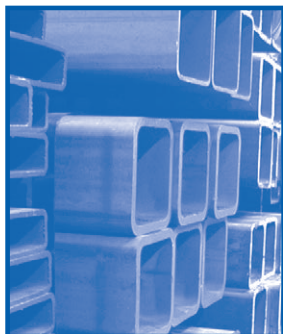
SIZE IN INCHES	WEIGHT PER LIN. FT.	WEIGHT PER LENGTH	SIZE IN INCHES	WEIGHT PER LIN. FT.	WEIGHT PER LENGTH
3/4 x 3/4 x .065	0.201	4.237	1-1/4 x 1-1/4 x .125	0.662	13.902
3/4 x 3/4 x .125	0.368	7.758	1-1/2 x 1-1/2 x .065	0.428	9.023
1 x 1 x .065	0.274	5.776	1-1/2 x 1-1/2 x .125	0.810	17.077
1 x 1 x .125	0.516	10.878	2 x 2 x .125	1.103	23.254
			3 x 3 x .125	1.971	41.400
			4 x 4 x .120	2.279	47.859

RECTANGULAR ALUMINUM TUBING

21' - 1" Lengths. Many other sizes are available — please call with your requirements.



SIZE IN INCHES	WEIGHT PER LIN. FT.	WEIGHT PER LENGTH	SIZE IN INCHES	WEIGHT PER LIN. FT.	WEIGHT PER LENGTH
1 x 2 x .125	0.809	17.07	1-3/4 x 2-1/4 x .125	1.103	23.26
1 x 3 x .125	1.103	23.26	1-3/4 x 3 x .125	1.323	27.89
1 x 4 x .125	1.397	29.45	1-3/4 x 4 x .125	1.617	34.09
1-1/4 x 2-1/2 x .125	1.029	21.70	1-3/4 x 4-1/2 x .125	1.764	37.19
1-1/2 x 2 x .125	0.956	20.16	1-3/4 x 5 x .125	1.911	40.29
1-1/2 x 3 x .125	1.339	28.12	2 x 3 x .125	1.397	24.95
			2 x 3 x .250	2.646	55.57
			2 x 4 x .125	1.690	33.80
			2 x 5 x .125	1.985	41.85





6061-T6 ALUMINUM PIPE

20 Foot Lengths

NOMINAL SIZE	IPS SCHEDULE	O.D. INCHES	I.D. INCHES	WALL THICKNESS INCHES	WEIGHT PER LIN. FT.	WEIGHT PER LENGTH
1/8	Sch 40	0.405	0.269	0.068	0.085	1.70
1/4	Sch 40	0.540	0.364	0.088	0.147	2.94
3/8	Sch 40	0.675	0.493	0.091	0.196	3.92
1/2	Sch 40	0.840	0.622	0.109	0.294	5.88
3/4	Sch 40	1.050	0.824	0.113	0.391	7.82
1	Sch 40	1.315	1.049	0.133	0.581	11.62
1	Sch 80	1.315	.957	0.179	0.751	15.02
1-1/4	Sch 40	1.660	1.380	0.140	0.786	15.72
1-1/4	Sch 80	1.660	1.278	0.191	1.037	20.74
1-1/2	Sch 40	1.900	1.610	0.145	0.940	18.80
1-1/2	Sch 80	1.900	1.500	0.200	1.256	25.12
2	Sch 40	2.375	2.067	0.154	1.264	25.28
2	Sch 80	2.375	1.939	0.218	1.737	34.74
2-1/2	Sch 40	2.875	2.469	0.203	2.004	40.08
2-1/2	Sch 80	2.875	2.323	0.276	2.650	53.00
3	Sch 40	3.500	3.068	0.216	2.621	52.42
3	Sch 80	3.500	2.900	0.300	3.547	70.94
3-1/2	Sch 40	4.000	3.548	0.226	3.151	63.02
3-1/2	Sch 80	4.000	3.364	0.318	4.326	86.52
4	Sch 40	4.500	4.026	0.237	3.733	74.66
4	Sch 80	4.500	3.826	0.337	5.183	103.66
5	Sch 40	5.563	5.047	0.258	5.057	101.14
5	Sch 80	5.563	4.813	0.375	7.188	143.76
6	Sch 40	6.625	6.065	0.280	6.564	131.28
6	Sch 80	6.625	5.761	0.432	9.884	197.68
8	Sch 40	8.625	7.981	0.322	9.878	197.56
8	Sch 80	8.625	7.625	0.500	15.010	300.20
10	Sch 40	10.750	10.020	0.365	14.000	280.00
12	Sch 40	12.750	12.000	0.375	17.140	342.80

METRIC CONVERSION FACTORS

METRIC TO ENGLISH

kilograms x 2.2046	= pounds
kilograms ÷ 907.2	= tons (2000 lbs.)
millimeters x 0.03937	= inches
or millimeters ÷ 25.4	= inches
meters x 39.37	= inches
meters x 3.281	= feet
meters x 1.094	= yards
sq. millimeters x 0.00155	= sq. inches
or sq. millimeters ÷ 645.16	= sq. inches

ENGLISH TO METRIC

pounds ÷ 2.2046	= kilograms (kg)
tons (2000 lbs.) x 907.2	= kilograms (kg)
inches ÷ 0.03937	= millimeters (mm)
or inches x 25.4	= millimeters (mm)
inches ÷ 39.37	= meters (m)
feet ÷ 3.281	= meters (m)
yards ÷ 1.094	= meters (m)
sq. inches ÷ 0.00155	= sq. millimeters (mm ²)
or sq. inches x 645.16	= sq. millimeters (mm ²)

ENGLISH AND METRIC EQUIVALENTS

WEIGHTS

1 pound (1 lb.)	= 453.6 grams, or 0.4536 kilograms (kg)
1 lb. per foot (lb./ft.)	= 1.4882 kilograms per meter (kg/m)
1 net ton (2000 lbs.)	= 907.18 kilograms (kg)
1 gross ton (2240 lbs.)	= 1016 kilograms, or 1.0160 metric tons
1 ounce per sq. foot	= 305.15 grams, or 0.30515 kilograms per sq. meter (kg/m ²)
1 kilogram (kg)	= 2.2046 lbs.
1 kilogram per meter	= 0.67197 lbs. per foot
1 metric ton (1000 kg)	= 2204.6 lbs.
	= 1.10231 net tons
	= 0.98421 gross ton

MEASURES

1 inch (in.)	= 25.40 millimeters (mm)
1 sq. inch (in. ²)	= 645.16 square millimeters
1 sq. foot (ft. ²)	= 0.092903 square meter
1 millimeter (mm)	= 0.03937 inch
1 sq. millimeter (mm ²)	= 0.00155 sq. inch
1 meter (m)	= 3.2808 feet
	= 1.09361 yards
1 sq. meter (m ²)	= 10.7639 sq. feet
	= 1.196 sq. yards

TEMPERATURE

Celsius (formerly called the centigrade scale)

tc = temperature (Celsius) in degrees

tf = temperature (Fahrenheit) in degrees

$$tc = \frac{(tf - 32)}{1.8}$$

GEOMETRIC FORMULAS

CIRCLE Area = Square of Diameter x .7854 or Square of Radius x 3.1416
Circumference = Diameter x 3.1416
Diameter = Circumference x .3183
Doubling diameter increases area four times; tripling diameter increases area nine times, etc.

SQUARE Area = Square of Side
Diagonal = Side x 1.4142
Side = Diagonal x .7071

SQUARE INSCRIBED IN CIRCLE

Side of Square = Diameter of Circle x .7071 or Circumference of Circle x .2251
Diameter of Circle = Side of Square x 1.4142
Circumference of Circle = Side of Square x 4.4429

SQUARE AND CIRCLE WITH EQUAL AREA

Side of Square = Diameter of Circle x .8862
Diameter of Circle = Side of Square x 1.128
Circumference of Circle = Side of Square x 3.545

RECTANGLE Area = Length x Width
Diagonal = Square root of sum of squares of Width and Length

TRIANGLE Area = Base x 1/2 of Perpendicular Height

HEXAGON (EQUAL SIDES AND ANGLES)

Area = Square of Distance across Flats x .866 or Square of Side x 2.598
Side = 1/2 of Diagonal or Distance across Flats x .577
Diagonal = Distance across Flats x 1.155 or Side x 2

OCTAGON (EQUAL SIDES AND ANGLES)

Area = Square of Distance across Flats x .828 or Square of Side x 4.828
Side = Diagonal x .383 or Distance across Flats x .414
Diagonal = Distance across Flats x 1.082 or Side x 2.613

SPHERE Area of Surface = Square of Diameter x 3.1416
Volume = Cube of Diameter x .5236

CUBE Area of Surface = Square of Side x 6 (side² x 6)
Volume = Cube of Side (side³)
Diagonal = Side x 1.732

CYLINDER Area of Curved Surface = Diameter x Length x 3.1416
Volume = Square of Diameter x Length x .7854

CONE Area of Curved Surface = Diameter of Base x Slant Height x 1.5708
Volume = Diameter of Base Squared x Perpendicular Height x .2618 or Area of Base x 1/3 Perpendicular Height

PYRAMID Lateral Surface Area (not including base) = Perimeter of Base x 1/2 Slant Height
Volume = Area of Base x 1/3 Perpendicular Height

SIMPLE STEEL WEIGHT FORMULAS

There are two methods for deriving weight of steel products. Nominal weights are based on the theoretical weight of steel taken as 40.80 pounds per square foot, one inch thick. Standard weights are based on experience, taking into consideration the various manufacturing practices. There may be some slight differences between the two weights and both can vary from the actual scale weight.

The following formulae are based upon Nominal weights and should be considered approximations rather than actual weights.

BAR WEIGHT FORMULAS

ROUNDS Diameter squared x 2.67 = Weight per lineal foot

SQUARES Diameter squared x 3.4 = Weight per lineal foot

HEXAGONS* Diameter squared x 2.945 = Weight per lineal foot

OCTAGONS* Diameter squared x 2.817 = Weight per lineal foot

* The diameter of hexagons and octagons is measured across the flats.

FLATS, PLATES & STRIP WEIGHT FORMULAS

FLATS-PLATE AND STRIP Thickness (inches) x width (inches) x 3.4 = Weight per lineal foot
OR Thickness (inches) x width (inches) x .2836 = Weight per lineal inch

PLATE-CIRCLES Diameter squared x thickness (inches) x .2225

SHEET & COIL WEIGHT FORMULAS

SHEET Thickness (inches) x width (inches) x 3.485 = Weight per lineal foot
OR Thickness (inches) x width (inches) x .2904 = Weight per lineal inch

SHEET-CIRCLES Diameter squared x thickness (inches) x .228

COILS Outside diameter squared - inside diameter squared
x .2223 = Weight per inch of width

TUBING WEIGHT FORMULAS

ROUND TUBING 10.68 (D-t) t = Weight per lineal foot

SQUARE TUBING 13.6 (D-t) t = Weight per lineal foot

RECTANGULAR TUBING 13.6 $\left(\frac{D1 + D2 - t}{2} \right)$ t = Weight per lineal foot

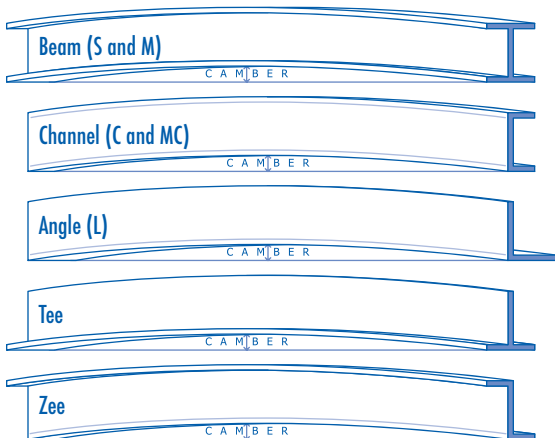
t = Nominal wall thickness D = Outside diameter

DECIMAL EQUIVALENTS OF FRACTIONAL PARTS OF AN INCH

FRACTION INCH	DECIMAL INCH	DECIMAL MILLI-METERS	FRACTION INCH	DECIMAL INCH	DECIMAL MILLI-METERS
1/64	0.015625	0.39688	33/64	0.515625	13.09690
1/32	0.03125	0.79375	1/32	0.53125	13.49378
3/64	0.046875	1.19063	35/64	0.546875	13.89065
1/16	0.0625	1.58750	9/16	0.5625	14.28753
5/64	0.078125	1.98438	37/64	0.578125	14.68440
3/32	0.09375	2.38125	19/32	0.59375	15.08128
7/64	0.109375	2.77813	39/64	0.609375	15.47816
1/8	0.1250	3.17501	5/8	0.6250	15.87503
9/64	0.140625	3.57188	41/64	0.640625	16.27191
5/32	0.15625	3.96876	21/32	0.65625	16.66875
11/64	0.171875	4.36563	43/64	0.671875	17.06566
3/16	0.1875	4.76251	11/16	0.6875	17.46253
13/64	0.203125	5.15939	45/64	0.703125	17.85941
7/32	0.21875	5.55626	23/32	0.71875	18.25629
15/64	0.234375	5.95314	47/64	0.734375	18.65136
1/4	0.2500	6.35001	3/4	0.7500	19.05004
17/64	0.265625	6.74689	49/64	0.765625	19.44691
9/32	0.28125	7.14376	25/32	0.78125	19.84379
19/64	0.296875	7.54064	51/64	0.796875	20.24067
5/16	0.3125	7.93752	13/16	0.8125	20.63754
21/64	0.328125	8.33439	53/64	0.828125	21.03442
11/32	0.34375	8.73127	27/32	0.84375	21.43129
23/64	0.359375	9.12814	55/64	0.859375	21.82817
3/8	0.3750	9.52502	7/8	0.8750	22.22504
25/64	0.390625	9.92189	57/64	0.890625	22.62192
13/32	0.40625	10.31877	29/32	0.90625	23.01880
27/64	0.421875	10.71565	59/64	0.921875	23.41567
7/16	0.4375	11.11252	15/16	0.9375	23.81255
29/64	0.453125	11.50940	61/64	0.953125	24.20942
15/32	0.46875	11.90627	31/32	0.96875	24.60630
31/64	0.484375	12.30315	63/64	0.984375	25.00318
1/2	0.5000	12.70003	1	1.0000	25.40005

PERMITTED VARIATIONS IN STRAIGHTNESS

For S, M, C, MC, L, T, Z, and Bulb Angle Shapes

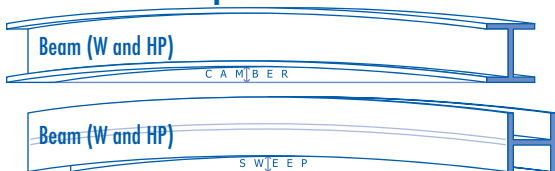


Positions for Measuring Camber Shapes

Variable	Nominal Size ^A	Permitted Variation
Camber	Under 3"	1/4" in any 5', or 1/4" x (total length in feet ÷ 5)
Camber	3" and Over	1/8" x (total length in feet ÷ 5)
Sweep	All	Due to the extreme variations in flexibility of these shapes, permitted variations for sweep are subject to negotiations between the manufacturer and the purchaser for the individual sections involved.

^AGreatest cross-sectional dimension.

For W and HP Shapes



Positions for Measuring Camber and Sweep for W and HP Shapes

Variable	Permitted Variation
Camber and Sweep	1/8" x (total length in feet ÷ 10) ^B

When certain sections^C with a flange width approximately equal to depth are specified in the order for use as columns.

Up to 45' Lengths	1/8" x (total length in feet ÷ 10) but not over 3/8"
Over 45' Lengths	3/8" + [1/8" x (total length in feet - 45) ÷ 10]

^BSections with flange width less than 6", permitted variation for sweep = 1/8" x (total length in feet ÷ 5).

^CApplies to: 8" deep sections 31 lb/ft and heavier 12" deep sections 65 lb/ft and heavier
10" deep sections 49 lb/ft and heavier 14" deep sections 90 lb/ft and heavier

For other sections specified in the order for use as columns, the permitted variation is subject to negotiation with manufacturer.

NOTES:

NOTES:



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