

HOREWITZ STEEL

TAZGO DIVISION

STEEL~STAINLESS~ALUMINUM

Beams ~ Channel ~ Flat bar ~

HR Rounds ~ CR Rounds

Angle ~ Square Tube ~ Rectangle Tube

Pipe~ DOM~ Plate~ HR sheets ~ CR sheets~

Galvanized Sheets ~ Cross Members

Expanded Metal ~ Bar grating~

Hinges~ Allthread ~ D-Rings ~ Rebar

Available Services:

Shearing, Plate Burning, Saw Cutting,
Drilling

724-287-1765

ANGLES



BAR ANGLES

Size in Inches	Est. Weight, Lbs.			Size in Inches	Est. Weight, Lbs.		
	Per Foot	20 ft.	40 ft.		Per Foot	20 ft.	40 ft.
1/2 x 1/2 x 1/8	0.38	7.6	15.2	2 x 1-1/4 x 3/16	1.96	39.2	78.4
5/8 x 5/8 x 1/8	0.48	9.6	19.2	1/4	2.55	51.0	102.0
3/4 x 3/4 x 1/8	0.59	11.8	23.6	2 x 1-1/2 x 1/8	1.44	28.8	57.6
7/8 x 7/8 x 1/8	0.70	14.0	28.0	3/16	2.12	42.4	84.8
1 x 5/8 x 1/8	0.64	12.8	25.6	1/4	2.77	55.4	110.8
3/4 x 1/8	0.70	14.0	28.0	2 x 2 1/8	1.65	33.0	66.0
1 x 1 x 1/8	0.80	16.0	32.0	3/16	2.44	48.8	97.6
3/16	1.16	23.2	46.4	1/4	3.19	63.8	127.6
1/4	1.49	29.8	59.6	5/16	3.92	78.4	156.8
1-1/4 x 1-1/4 x 1/8	1.01	20.2	40.4	3/8	4.70	94.0	188.0
3/16	1.48	29.6	59.2	2-1/2 x 1-1/2 x 3/16	2.44	48.8	97.6
1/4	1.92	38.4	76.8	1/4	3.19	63.8	127.6
1-3/8 x 7/8 x 1/8	.91	18.2	36.4	5/16	3.92	78.4	156.8
3/16	1.32	26.4	52.8	2-1/2 x 2 x 3/16	2.75	55.0	110.0
1-1/2 x 1-1/4 x 3/16	1.64	32.8	65.6	1/4	3.62	72.4	144.8
1-1/2 x 1-1/2 x 1/8	1.23	24.6	49.2	5/16	4.50	90.0	180.0
3/16	1.80	36.0	72.0	3/8	5.30	106.0	212.0
1/4	2.34	46.8	93.6	2-1/2 x 2-1/2 x 3/16	3.07	61.4	122.8
3/8	3.35	67.0	134.0	1/4	4.10	82.0	164.0
1-3/4 x 1-1/4 x 1/8	1.23	24.6	49.2	5/16	5.00	100.0	200.0
3/16	1.80	36.0	72.0	3/8	5.90	118.0	236.0
1/4	2.34	46.8	93.6	1/2	7.70	154.0	308.0
1-3/4 x 1-3/4 x 1/8	1.44	28.8	57.6				
3/16	2.12	42.4	84.8				
1/4	2.77	55.4	110.8				

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ANGLES



STRUCTURAL ANGLES

Size in Inches	Est. Weight, Lbs.			Size in Inches	Est. 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 3-1/2 x 1/4	6.2	124.0	248.0
1/4	4.1	82.0	164.0	5/16	7.7	154.0	308.0
5/16	5.0	100.0	200.0	3/8	9.1	182.0	364.0
3/8	5.9	118.0	236.0	1/2	11.9	238.0	476.0
1/2	7.7	154.0	308.0				
3 x 2-1/2 x 3/16	3.39	67.8	135.6	4 x 4 x 1/4	6.6	132.0	264.0
1/4	4.5	90.0	180.0	5/16	8.2	164.0	328.0
5/16	5.6	112.0	224.0	3/8	9.8	196.0	392.0
3/8	6.6	132.0	264.0	1/2	12.8	256.0	512.0
1/2	8.5	170.0	340.0	5/8	15.7	314.0	628.0
				3/4	18.5	370.0	740.0
3 x 3 x 3/16	3.71	74.2	148.4	5 x 3 x 1/4	6.6	132.0	264.0
1/4	4.9	98.0	196.0	5/16	8.2	164.0	328.0
5/16	6.1	122.0	244.0	3/8	9.8	196.0	392.0
3/8	7.2	144.0	288.0	1/2	12.8	256.0	512.0
1/2	9.4	188.0	376.0				
3-1/2 x 2-1/2 x 1/4	4.9	98.0	196.0	5 x 3-1/2 x 1/4	7.0	140.0	280.0
5/16	6.1	122.0	244.0	5/16	8.7	174.0	348.0
3/8	7.2	144.0	288.0	3/8	10.4	208.0	416.0
1/2	9.4	188.0	376.0	1/2	13.6	272.0	544.0
				5/8	16.8	336.0	672.0
3-1/2 x 3 x 1/4	5.4	108.0	216.0	3/4	19.8	396.0	792.0
5/16	6.6	132.0	264.0				
3/8	7.9	158.0	316.0	5 x 5 x 5/16	10.3	210.0	420.0
1/2	10.2	204.0	408.0	3/8	12.3	246.0	492.0
				1/2	16.2	324.0	648.0
3-1/2 x 3-1/2 x 1/4	5.8	116.0	232.0	5/8	20.0	400.0	800.0
5/16	7.2	144.0	288.0	3/4	23.60	472.0	944.0
3/8	8.5	170.0	340.0				
1/2	11.1	222.0	444.0	6 x 3-1/2 x 1/4	7.9	158.0	316.0
				5/16	9.8	196.0	392.0
4 x 3 x 1/4	5.8	116.0	232.0	3/8	11.7	234.0	468.0
5/16	7.2	144.0	288.0	1/2	15.3	306.0	612.0
3/8	8.5	170.0	340.0				
1/2	11.1	222.0	444.0				
5/8	13.6	272.0	544.0				

ANGLES

STRUCTURAL ANGLES



Size in Inches	Est. Weight, Lbs.			Size in Inches	Est. Weight, Lbs.		
	Per Foot	20 ft.	40 ft.		Per Foot	20 ft.	40 ft.
6 x 4 x 5/16	10.3	206.0	412.0	8 x 6 x 1/2	23.0	460.0	920.0
3/8	12.3	246.0	492.0	5/8	28.5	570.0	1140.0
1/2	16.2	324.0	648.0	3/4	33.8	676.0	1352.0
5/8	20.0	400.0	800.0	1	44.2	884.0	1768.0
3/4	23.6	472.0	944.0				
				8 x 8 x 1/2	26.4	528.0	1056.0
6 x 6 x 5/16	12.4	248.0	496.0	5/8	32.7	654.0	1308.0
3/8	14.9	298.0	596.0	3/4	38.9	778.0	1556.0
1/2	19.6	392.0	784.0	1	51.0	1020.0	2040.0
5/8	24.2	484.0	968.0	1-1/8	56.9	1138.0	2276.0
3/4	28.7	574.0	1148.0				
1	37.4	748.0	1496.0	9 x 4 x 1/2	21.3	426.0	852.0
7 x 4 x 3/8	13.6	272.0	544.0				
1/2	17.9	358.0	716.0				
5/8	22.1	442.0	884.0				
3/4	26.2	524.0	1048.0				
8 x 4 x 1/2	19.6	392.0	784.0				
5/8	24.2	484.0	968.0				
3/4	28.7	574.0	1148.0				

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BEAMS

STANDARD BEAMS-(I) Stocked in Lengths up to 60'

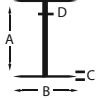


AISI Designation	A Depth in Inches	B Flange Width Inches	Web Thickness	Weight Lbs.				
				Per Foot	20-Ft. Length	30-Ft. Length	40-Ft. Length	60-Ft. Length
S3 x 5.7	3	2.330	.170	5.7	114	171	228	342
S3 x 7.5	3	2.509	.349	7.5	150	225	300	450
S4 x 7.7	4	2.660	.190	7.7	154	231	308	462
S4 x 9.5	4	2.796	.326	9.5	190	285	380	570
S5 x 10	5	3.000	.210	10.0	200	300	400	600
S5 x 14.75	5	3.284	.494	14.75	295	443	590	885
S6 x 12.5	6	3.330	.230	12.5	250	375	500	750
S6 x 17.25	6	3.565	.465	17.25	345	518	690	1035
S7 x 15.3	7	3.660	.250	15.3	306	459	612	918
S7 x 20	7	3.860	.450	20.0	400	600	800	1200
S8 x 18.4	8	4.000	.270	18.4	368	552	736	1104
S8 x 23	8	4.171	.441	23.0	460	690	920	1380
S10 x 25.4	10	4.660	.310	25.4	508	762	1016	1524
S10 x 35	10	4.944	.594	35.0	700	1050	1400	2100
S12 x 31.8	12	5.000	.350	31.8	636	954	1272	1908
S12 x 35	12	5.078	.428	35.0	700	1050	1400	2100
S12 x 40.8	12	5.250	.460	40.8	816	1224	1632	2448
S12 x 50	12	5.447	.687	50.0	1000	1500	2000	3000
S15 x 42.9	15	5.500	.410	42.9	858	1287	1716	2574
S15 x 50	15	5.640	.550	50.0	1000	1500	2000	3000
S18 x 54.7	18	6.000	.460	54.7	1094	1641	2188	3282
S18 x 70	18	6.251	.711	70.0	1400	2100	2800	4200
S20 x 66	20	6.250	.500	65.4	1320	1980	2640	3660
S20 x 75	20	6.391	.641	75.0	1500	2250	3000	4500
S20 x 86	20	7.060	.660	86.0	1720	2580	3440	5160
S20 x 96	20	7.200	.800	96.0	1920	2880	3840	5760
S24 x 80	24	7.000	.500	80	1600	2460	3200	4800
S24 x 90	24	7.124	.624	90.0	1800	2700	3600	5400
S24 x 100	24	7.247	.747	100.0	2000	3000	4000	5400
S24 x 106	24	7.870	.620	106.0	2120	3180	4240	6360
S24 x 121	24.5	8.050	.800	121.0	2420	3630	4840	7260

BEAMS

**Wide Flange and Miscellaneous Shapes
Stocked in Lengths up to 60'**

Other sizes of beams are produced-please inquire for more information.



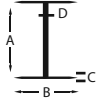
Size & Weight Per Foot	A Depth In Inches	B Flange Width Inches	C Flange Thickness Inches	Web Thickness Inches
W4 x 13	4.16	4.060	0.345	0.280
W5 x 16	5.01	5.000	0.360	0.240
W5 x 19	5.15	5.030	0.430	0.270
W6 x 8.5	5.83	3.940	0.215	0.170
W6 x 9	5.90	3.940	0.215	0.170
W6 x 12	6.03	4.000	0.280	0.230
W6x 16	6.28	4.030	0.405	0.260
W6 x 15	5.99	5.990	0.260	0.230
W6 x 20	6.20	6.020	0.365	0.260
W6 x 25	6.38	6.080	0.455	0.320
W8x 10	7.89	3.940	0.205	0.170
W8x 13	7.99	4.000	0.255	0.230
W8 x 15	8.11	4.015	0.315	0.245
W8x 18	8.14	5.250	0.330	0.230
W8x 21	8.28	5.270	0.400	0.250
W8x 24	7.93	6.495	0.400	0.245
W8 x 28	8.06	6.535	0.465	0.285
W8 x 31	8.00	7.995	0.435	0.285
W8x 35	8.12	8.020	0.495	0.310
W8x 40	8.25	8.070	0.560	0.360
W8 x 48	8.50	8.110	0.685	0.400
W8 x 58	8.75	8.220	0.810	0.510
W8 x 67	9.00	8.280	0.935	0.570
W10 x 12	9.87	3.960	0.210	0.190
W10x 15	9.99	4.000	0.270	0.230
W10 x 17	10.11	4.010	0.330	0.240
W10 x 19	10.24	4.020	0.395	0.250
W10 x 22	10.17	5.750	0.360	0.240
W10x 26	10.33	5.770	0.440	0.260
W10 x 30	10.47	5.810	0.510	0.300
W10 x33	9.73	7.960	0.435	0.290
W10 x 39	9.92	7.985	0.530	0.315
W10 x45	10.10	8.020	0.620	0.350
W10 x 49	9.98	10.000	0.560	0.340
W10 x 54	10.09	10.030	0.615	0.370
W10 x60	10.22	10.080	0.680	0.420
W10 x68	10.40	10.130	0.770	0.470
W10 x77	10.60	10.190	0.870	0.530
W10 x 88	10.84	10.265	0.990	0.605
W10x 100	11.10	10.340	1.120	0.680
W10 x 112	11.36	10.415	1.250	0.755
W12 x 14	11.91	3.970	0.225	0.200
W12x 16	11.99	3.990	0.265	0.220
W12x 19	12.16	4.005	0.350	0.235
W12 x22	12.31	4.030	0.425	0.260
W12 x26	12.22	6.490	0.380	0.230
W12 x30	12.34	6.520	0.440	0.260
W12 x 35	12.50	6.560	0.520	0.300
W12 x 40	11.94	8.005	0.516	0.295
W12 x 45	12.06	8.045	0.575	0.335
W12 x 50	12.19	8.080	0.640	0.370
W12 x 53	12.06	9.995	0.575	0.345
W12 x 58	12.19	10.010	0.640	0.360
W12 x 65	12.12	12.000	0.605	0.390
W12 x 72	12.25	12.040	0.670	0.430

724.287.1765

BEAMS

Wide Flange and Miscellaneous Shapes Stocked in Lengths up to 60'

Other sizes of beams are produced-please inquire for more information.

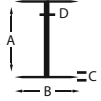


Size & Weight Per Foot	A Depth In Inches	B Flange Width Inches	C Flange Thickness Inches	D Web Thickness Inches
W12 x 79	12.38	12.080	0.735	0.470
W12 x 87	12.53	12.125	0.810	0.515
W12 x 96	12.71	12.160	0.900	0.550
W12 x 106	12.89	12.220	0.990	0.610
W12 x 120	13.12	12.320	1.105	0.710
W12 x 136	13.41	12.400	1.250	0.790
W12 x 152	13.71	12.480	1.400	0.870
W12 x 170	14.03	12.570	1.560	0.960
W12 x 190	14.38	12.670	1.735	1.060
14 x 17.2	14.00	4.000	.272	.210
14 x 18	14.00	4.000	.270	.215
W14 x 22	13.72	5.000	0.335	0.230
W14 x 26	13.91	5.025	0.420	0.255
W14 x 30	13.84	6.730	0.385	0.270
W14 x 34	13.98	6.745	0.455	0.285
W14 x 38	14.10	6.770	0.515	0.310
W14 x 43	13.66	7.995	0.530	0.305
W14 x 48	13.79	8.030	0.595	0.340
W14 x 53	13.92	8.060	0.660	0.370
W14 x 61	13.89	9.995	0.645	0.375
W14 x 68	14.04	10.035	0.720	0.415
W14 x 74	14.17	10.070	0.785	0.450
W14 x 82	14.31	10.130	0.855	0.510
W14 x 90	14.02	14.520	0.710	0.440
W14 x 99	14.16	14.565	0.780	0.485
W14 x 109	14.32	14.605	0.860	0.525
W14 x 120	14.48	14.670	0.940	0.590
W14 x 132	14.66	14.725	1.030	0.645
W16 x 26	15.69	5.500	0.345	0.250
W16 x 31	15.88	5.525	0.440	0.275
W16 x 36	15.86	6.985	0.430	0.295
W16 x 40	16.01	6.995	0.505	0.305
W16 x 45	16.13	7.035	0.565	0.345
W16 x 50	16.26	7.707	0.630	0.380
W16 x 57	16.43	7.120	0.715	0.430
W16 x 67	16.33	10.235	0.665	0.395
W16 x 77	16.52	10.295	0.760	0.455
W16 x 89	16.75	10.365	0.875	0.525
W16 x 100	15.97	10.425	0.985	0.585
W18 x 35	17.70	6.000	0.425	0.300
W18 x 40	17.90	6.015	0.525	0.315
W18 x 46	18.06	6.060	0.605	0.360
W18 x 50	17.99	7.495	0.570	0.355
W18 x 55	18.11	7.530	0.630	0.390
W18 x 60	18.24	7.555	0.695	0.415
W18 x 65	18.35	7.590	0.750	0.450
W18 x 71	18.47	7.635	0.810	0.495
W18 x 76	18.21	11.035	0.680	0.425
W18 x86	18.39	11.090	0.770	0.480
W18 x 97	18.59	11.145	0.870	0.535
W18 x 106	18.73	11.200	0.940	0.590
W18 x 119	18.97	11.265	1.060	0.655
W21 x44	20.66	6.500	0.450	0.350
W21 x 50	20.83	6.530	0.535	0.380
W21 x 57	21.06	6.555	0.650	0.405

BEAMS

**Wide Flange and Miscellaneous Shapes
Stocked in Lengths up to 60'**

Other sizes of beams are produced-please inquire for more information.



Size & Weight Per Foot	A Depth In inches	B Flange Width Inches	C Flange Thickness Inches	D Web Thickness Inches
W21 x 62	20.99	8.240	0.615	0.400
W21 x 68	21.13	8.270	0.665	0.430
W21 x 73	21.24	8.295	0.740	0.455
W21 x 83	21.43	8.355	0.835	0.515
W21 x 93	21.62	8.420	0.930	0.580
W21 x 101	21.36	12.290	0.800	0.500
W21 x 111	21.51	12.340	0.875	0.550
W21 x 122	21.68	12.390	0.960	0.600
W21 x 132	21.83	12.440	1.035	0.650
W21 x 147	22.06	12.510	1.150	0.720
W24 x 55	23.57	7.005	0.505	0.395
W24 x 62	23.74	7.040	0.590	0.430
W24 x 68	23.73	8.965	0.585	0.415
W24 x 76	23.92	8.990	0.680	0.440
W24 x 84	24.10	9.020	0.770	0.470
W24 x 94	24.31	9.065	0.875	0.515
W24 x 104	24.06	12.750	0.750	0.500
W24 x 117	24.26	12.800	0.850	0.550
W24 x 131	24.48	12.855	0.960	0.605
W24x 146	24.74	12.900	1.090	0.650
W24x 162	25.00	12.955	1.220	0.705
W27 x 84	26.71	9.960	0.640	0.460
W27 x 94	26.92	9.990	0.745	0.490
W27 x 102	27.09	10.015	0.830	0.515
W27 x 114	27.29	10.070	0.930	0.570
W27 x 146	27.38	13.965	0.975	0.605
W27 x 161	27.59	14.020	1.080	0.660
W27 x 178	27.81	14.085	1.190	0.725
W30 x 99	29.65	10.450	0.670	0.520
W30 x 108	29.83	10.475	0.760	0.545
W30 x 16	30.01	10.495	0.850	0.565
W33 x 124	30.17	10.515	0.930	0.585
W30 x 132	30.31	10.545	1.000	0.615
W30 x 173	30.44	14.985	1.065	0.655
W30 x 191	30.68	15.040	1.185	0.710
W30 x 211	30.94	15.105	1.315	0.775
W33 x 118	32.86	11.480	0.740	0.550
W33 x 130	33.09	11.510	0.855	0.580
W33 x 141	33.30	11.535	0.960	0.605
W33 x 152	33.49	11.565	1.055	0.635
W33 x 201	33.68	15.745	1.150	0.715
W33 x 221	33.93	15.805	1.275	0.775
W33 x 241	34.18	15.860	1.400	0.830
W36 x 135	35.55	11.950	0.790	0.600
W36 x 150	35.85	11.975	0.940	0.625
W36 x 160	36.01	12.000	1.020	0.650
W36 x 170	36.17	12.030	1.100	0.680
W38 x 182	36.33	12.075	1.180	0.725
W36 x 194	36.49	12.115	1.260	0.765
W36 x 210	36.69	12.180	1.360	0.830
W36 x 230	35.90	16.470	1.260	0.760
W36 x 245	36.08	16.510	1.350	0.800
W36 x 260	36.26	16.550	1.440	0.840
W36 x 280	36.52	16.595	1.570	0.885
W36 x 300	36.74	16.655	1.680	0.945

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STANDARD & JR. CHANNELS

Channels-Standard Structural Sizes



A Depth In Inches	Weight Lbs. per Foot	B Flange Width Inches	C Web Thickness Inches	Weight Lbs.	
				20-Ft. Length	40-Ft. Length
3	4.1	1.410	.170	82	164
3	5.0	1.498	.258	100	200
3	6.0	1.596	.356	120	240
4	5.4	1.584	.184	108	216
4	7.25	1.721	.321	145	290
5	6.7	1.750	.190	134	268
5	9.0	1.885	.325	180	360
6	8.2	1.920	.200	164	328
6	10.5	2.034	.314	210	420
6	13.0	2.157	.437	260	520
7	9.8	2.090	.210	196	392
7	12.25	2.194	.314	245	490
7	14.75	2.299	.419	295	590
8	11.5	2.260	.220	230	460
8	13.75	2.343	.303	275	550
8	18.75	2.527	.487	375	750
9	13.4	2.433	.233	268	536
9	15.0	2.485	.285	300	600
9	20.0	2.648	.448	400	800
10	15.3	2.600	.240	306	612
10	20.0	2.739	.379	400	800
10	25.0	2.886	.526	500	1000
10	30.0	3.033	.673	600	1200
12	20.7	2.942	.282	414	828
12	25.0	3.047	.387	500	1000
12	30.0	3.170	.510	600	1200
15	33.9	3.400	.400	678	1356
15	40.0	3.520	.520	800	1600
15	50.0	3.716	.716	1000	2000

MISC. CHANNELS



MC-Shapes (Car and Ship Channels, Junior Channels and Other Miscellaneous Shapes)

Depth of Channel	Estimated Wt. Lbs. Per Foot	Flange Width inches	Web Thickness Inches	Weight	
				20	40
3 x 7.1	7.1	1.938	.312	142	284
3 x 9.0	9.0	2.122	.497	180	360
4 x 13.8	13.0	2.500	.500	276	552
6 x 12.0	12.0	2.497	.310	240	480
6 x 15.1	15.1	2.941	.316	302	604
6 x 15.3	15.3	3.500	.340	306	612
6x 16.3	16.3	3.000	.375	326	652
6 x 18.0	18.0	3,504	.379	360	720
7 x 17.6	17.6	3.000	.375	352	704
7 x 19.1	19.1	3.452	.352	382	764
7 x 22.7	22.7	3.603	.503	454	908
8 x 8.5	8.5	1.875	.188	170	340
8 x 18.7	18.7	2.978	.353	374	748
8 x 20.0	20.0	3.025	.400	400	800
8 x 21.4	21.4	3.450	.375	428	856
8 x 22.8	22.8	3.502	.427	456	912
9 x 23.9	23.9	3.450	.400	478	956
9 x 25.4	25.4	3.500	.450	508	1016
10 x 6.5	6.5	1.125	.150	130	260
10 x 8.4	8.4	1.500	.170	168	336
10 x 22.0	22.0	3.310	.290	440	880
10 x 25.0	25.0	3.405	.380	500	1000
10 x 25.3	25.3	3.550	.425	506	1012
10 x 28.3	28.3	3.502	.477	566	1132
10 x 20.5	28.5	3.950	.425	570	1140
10 x 33.6	33.6	4.100	.575	672	1344
10 x 41.1	41.1	4.321	.796	822	1644
12 x 10.6	10.6	1.500	.190	212	424
12 x 31.0	31.0	3.670	.370	620	1240
12 x 35.0	35.0	3.767	.467	700	1400
12 x 37.0	37.0	3.600	.600	740	1480
12 x 40.0	40.0	3.890	.590	800	1600
12 x 45.0	45.0	4.012	.712	900	1800
12 x 50.0	50.0	4.135	.835	1000	2000
13 x 31.8	31.8	4.000	.375	636	1272
13 x 35.0	35.0	4.072	.447	700	1400
13 x 40.0	40.0	4.185	.560	800	1600
13 x 50.0	50.0	4.412	.787	1000	2000

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MISC. CHANNELS



MC-Shapes (Car and Ship Channels, Junior Channels and Other Miscellaneous Shapes)

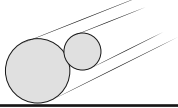
Depth of Channel	Flange Width Inches	Web Thickness Inches	Estimated Wt. Lbs. Per Foot	Weight	
				20	40
18 x 42.7	3.950	.450	42.7	854	1708
18 x 45.8	4.000	.500	45.8	916	1832
18 x 51.9	4.100	.600	51.9	1038	2076
18 x 58.0	4.2000	.700	58.0	1160	2320

Bar Channels Stock Length, 20'



Size In Inches			Est. Weight, Lbs.		Size In Inches			Est. Weight, Lbs.	
A	B	C	Per Foot	20-Ft. Length	A	B	C	Per Foot	20-Ft. Length
3/4	x 5/16	x 1/8	.50	10.00	1 1/2	x 9/16	x 3/16	1.44	28.80
3/4	x 3/8	x 1/8	.56	11.20	1 1/2	x 3/4	x 1/8	1.17	23.40
					1 1/2	x 1/2	x 3/16	2.65	53.00
7/8	x 3/8	x 1/8	.61	12.20	1 3/4	x 1/2	x 3/16	1.55	31.00
7/8	x 3/8	x 1/8	.69	13.80					
1	x 3/8	x 1/8	.68	13.60	2	x 1/2	x 1/8	1.34	28.60
1	x 1/2	x 1/8	.84	16.80	2	x 9/16	x 3/16	1.86	37.20
					2	x 5/8	x 1/4	2.28	45.60
1 1/8	x 9/16	x 3/16	1.16	23.20	2	x 1/8		1.78	35.60
					2	x 1	x 3/16	2.59	51.40
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	2 1/2	x 5/8	x 3/16	2.27	45.40

ROUND BARS



Round Bars

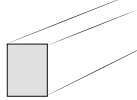
We can furnish hot rolled or cold finished round bars in various alloy and carbon steels.

Size In Inches	Wt. per Ft. Lbs.	Wt. per Pc. 20-Ft.	Size In inches	Wt. per Ft. Lbs.	Wt. per Pc. 20-Ft.
3/16	0.0940	1.879	3	24.06	481.10
1/4	0.1671	3.341	3 1/8	26.10	522.00
5/16	0.261	5.22	3 1/4	28.23	564.60
3/8	0.3759	7.517	3 3/8	30.45	608.90
7/16	0.5116	10.23	3 1/2	32.74	654.80
1/2	0.6682	13.36	3 5/8	35.12	702.50
9/16	0.8457	16.91	3 3/4	37.59	751.70
5/8	1.044	20.88	3 7/8	40.14	802.70
11/16	1.262	25.24	4	42.77	855.30
3/4	1.504	30.07	4 1/8	45.48	909.60
13/16	1.763	35.26	4 1/4	48.28	965.60
7/8	2.044	40.93	4 3/8	51.11	1022.20
15/16	2.347	46.94	4 1/2	54.13	1083.00
1	2.673	53.46	4 5/8	57.12	1142.40
1 1/8	3.383	67.66	4 3/4	60.31	1206.00
1 1/4	4.176	83.53	5	66.82	1336.00
1 3/8	5.053	101.10	5 1/4	73.67	1473.00
1 1/2	6.014	120.30	5 1/2	80.86	1617.00
1 5/8	7.058	141.20	5 3/4	88.37	1767.00
1 3/4	8.186	163.70	6	96.22	1924.00
2	10.69	213.80	6 1/8	100.18	2003.60
2 1/8	12.07	241.40	6 1/4	104.40	2088.00
2 1/4	13.53	270.60	6 1/2	112.90	2259.00
2 3/8	15.08	301.50	6 3/4	121.80	2436.00
2 1/2	16.71	334.10	7	131.00	2619.00
2 5/8	18.42	368.40	7 1/4	140.50	2810.00
2 3/4	20.21	404.40	7 1/2	150.40	3007.00
2 7/8	22.09	441.90	7 3/4	160.50	3211.00
			8	171.10	3421.00

Forged rounds through 24" are available. Please inquire

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SQUARE BARS



Square Bars

Size In Inches	Wt. per Ft. Lbs.	Wt. per Pc. 20-Ft.	Size In Inches	Wt. per Ft. Lbs.	Wt. per Pc. 20-Ft.
1/4	0.213	4.26	1	3.403	68.06
5/16	0.332	6.64	1 1/8	4.307	86.14
3/8	0.478	9.56	1 1/4	5.318	106.04
7/16	0.651	13.02	1 3/8	6.434	128.70
1/2	0.8508	17.02	1 1/2	7.657	153.10
9/16	1.08	21.60	1 5/8	8.98	179.60
5/8	1.329	26.59	1 3/4	10.42	208.40
11/16	1.61	32.20	1 7/8	11.95	239.00
3/4	1.91	38.20			
13/16	2.25	45.00	2	13.61	272.30
7/8	2.60	52.00	2 1/4	17.23	344.60
			2 1/2	21.27	425.40
			2 3/4	25.74	514.70
			3	30.63	612.60

Concrete Reinforcing Bars



SIZE		Wt./Ft.	Per 20 Ft.	Per 40 Ft.
3/8"	#3	.376	7.52	15.04
1/2"	#4	.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

Wire Mesh

2x1	14 Ga. (100')
2x2	16 Ga. - Galvanized
4x4	14 Ga. - Galvanized
4x4	10 Ga.
6x6	4 Ga.
6x6	6 Ga.
6x6	8 Ga.
6x6	10 Ga. (150')
6x6	10 Ga. (50')

STRIP



Hot Rolled Strip

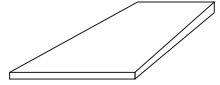
Size In Inches	Est. Weight, Lbs.		Size In Inches	Est. Weight, Lbs.	
	Per Foot	20-Ft.		Per Foot	20-Ft.
1/8			3/16		
x 3/8	.159	3.18	x 3/8	.239	4.78
1/2	.213	4.26	1/2	.319	6.38
5/8	.266	5.32	5/8	.398	7.96
3/4	.319	6.38	3/4	.478	9.56
7/8	.372	7.44	7/8	.558	11.16
1	.425	8.50	1	.638	12.76
1 1/8	.478	9.56	1 1/8	.717	14.34
1 1/4	.531	10.62	1 1/4	.797	15.94
1 1/2	.638	12.76	1 1/2	.956	19.12
1 3/4	.744	14.88	1 3/4	1.116	22.32
2	.850	17.00	2	1.275	25.50
2 1/4	.956	19.12	2 1/4	1.434	28.68
2 1/2	1.063	21.26	2 1/2	1.594	31.88
2 3/4	1.169	23.38	2 3/4	1.753	35.06
3	1.275	25.50	3	1.913	38.26
3 1/2	1.488	29.76	3 1/2	2.231	44.62
4	1.700	34.00	4	2.550	51.00
4 1/2	1.913	38.26	4 1/2	2.869	57.38
5	2.125	42.50	5	3.188	63.76
6	2.550	51.00	6	3.825	76.50
8	3.400	68.00	8	5.100	102.00
10	4.250	85.00	10	6.375	127.50
12	5.100	102.00	12	7.650	153.00

1/4" and thicker-classed as Flat Bars.

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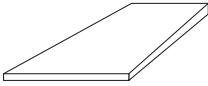
FLAT BARS

Flat Bars



Size In Inches	Est. Weight, Lbs. Per Foot	20-Ft. Bar	Size In Inches	Est. Weight, Lbs. Per Foot	20-Ft. Bar	Size In Inches	Est. Weight, Lbs. Per Foot	20-Ft. Bar
1/4 INCH			5/16 INCH CONT.			7/16 INCH		
3/8	.319	6.38	2	2.125	42.50	3/4	1.116	22.32
1/2	.425	8.50	2 1/4	2.391	47.82	7/8	1.302	26.04
5/8	.531	10.62	2 1/2	2.656	53.12	1	1.488	29.76
3/4	.638	12.76	2 3/4	2.922	58.44	1 1/4	1.859	37.18
7/8	.744	14.88	3	3.188	63.76	1 1/2	2.231	44.62
1	.850	17.00	3 1/4	3.453	69.06	1 3/4	2.603	52.06
1 1/8	.956	19.12	3 1/2	3.719	74.38	2	2.975	59.50
1 1/4	1.063	21.26	4	4.250	85.00	2 1/4	3.347	66.94
1 3/8	1.169	23.38	4 1/2	4.781	95.62	2 1/2	3.719	74.38
1 1/2	1.275	25.50	5	5.313	106.30	3	4.463	89.26
1 5/8	1.381	27.62	5 1/2	5.840	116.80	3 1/2	5.206	104.10
1 3/4	1.488	29.76	6	6.375	127.50	4	5.950	119.00
2	1.700	34.00	7	7.440	148.70	4 1/2	6.694	133.90
2 1/4	1.913	38.26	7 1/2	7.970	159.40	5	7.438	148.80
2 1/2	2.125	42.50	8	8.500	170.00	6	8.925	178.50
2 3/4	2.338	46.76	3/8 INCH			1/2 INCH		
3	2.550	51.00	1/2	.638	12.76	5/8	1.063	21.26
3 1/4	2.763	55.26	5/8	.797	15.94	3/4	1.275	25.50
3 1/2	2.975	59.50	3/4	.956	19.12	7/8	1.488	29.76
3 3/4	3.188	63.76	7/8	1.116	22.32	1	1.700	34.00
4	3.400	68.00	1	1.275	25.50	1 1/8	1.913	38.26
4 1/4	3.613	72.26	1 1/8	1.434	28.68	1 1/4	2.125	42.50
4 1/2	3.825	76.50	1 1/4	1.594	31.88	1 3/8	2.338	46.76
5	4.250	85.00	1 3/8	1.753	35.06	1 1/2	2.550	51.00
5 1/2	4.675	93.50	1 1/2	1.913	38.26	1 5/8	2.763	55.26
6	5.100	102.00	1 5/8	2.072	41.44	1 3/4	2.975	59.50
6 1/2	5.530	110.60	1 3/4	2.231	44.62	2	3.400	68.00
7	5.950	119.00	2	2.550	51.00	2 1/2	4.250	85.00
7 1/2	6.380	127.60	2 1/4	2.869	57.38	2 3/4	4.675	93.50
8	6.800	136.00	2 1/2	3.188	63.76	3	5.100	102.00
5/16 INCH			2 3/4	3.506	70.12	3 1/4	5.525	110.50
1/2	.531	10.62	3	3.825	76.50	3 1/2	5.950	119.00
5/8	.664	13.28	3 1/4	4.144	82.88	4	6.800	136.00
3/4	.797	15.94	3 1/2	4.463	89.26	4 1/2	7.650	153.00
7/8	.930	18.60	4	5.100	102.00	5	8.500	170.00
1	1.063	21.26	4 1/2	5.738	114.80	5 1/2	9.350	187.00
1 1/8	1.195	23.90	5	6.375	127.50	6	10.200	204.00
1 1/4	1.328	26.56	5 1/2	7.013	140.30	7	11.900	238.00
1 3/8	1.461	29.22	6	7.650	153.00	8	13.600	272.00
1 1/2	1.594	31.88	7	8.930	178.50			
1 3/4	1.859	37.18	8	10.200	204.00			

FLAT BARS

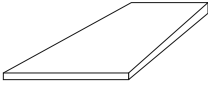


Flat Bars

Size In Inches	Est. Weight, Lbs. Per Foot	20-Ft. Bar	Size In Inches	Est. Weight, Lbs. Per Foot	20-Ft. Bar	Size In Inches	Est. Weight, Lbs. Per Foot	20-Ft. Bar
5/8 INCH			3/4 INCH CONT.			1 INCH CONT.		
3/4	1.594	31.68	5	12.750	255.00	5 1/2	18.700	374.00
7/8	1.859	37.18	5 1/2	14.020	280.40	6	20.400	408.00
1	2.125	42.50	6	15.300	306.00	7	23.800	476.00
1 1/8	2.391	47.82	7	17.850	357.00	8	27.200	544.00
1 1/4	2.656	53.12	8	20.400	408.00	1 1/8 INCH		
13/8	2.922	58.44	7/8 INCH			2	7.650	153.00
1 1/2	3.188	63.76	1	2.975	59.50	3	11.480	229.60
1 5/8	3.453	69.06	1 1/4	3.719	74.38	4	15.300	306.00
1 3/4	3.719	74.38	1 3/8	4.091	81.82	5	19.130	382.60
2	4.250	85.00	1 1/2	4.463	89.26	6	22.950	459.00
2 1/4	4.781	95.62	1 3/4	5.206	104.10	1 1/4 INCH		
2 1/2	5.313	106.30	2	5.950	119.00	1 1/2	6.375	127.50
2 3/4	5.844	116.90	2 1/4	6.694	133.90	1 3/4	7.438	148.80
3	6.375	127.50	2 1/2	7.438	148.80	2	8.500	170.00
3 1/4	6.906	138.10	2 3/4	8.181	163.60	2 1/4	9.563	191.30
3 1/2	7.438	148.80	3	8.925	178.50	2 1/2	10.630	212.40
4	8.500	170.00	3 1/2	10.410	208.20	2 3/4	11.690	233.80
4 1/2	9.563	191.30	4	11.900	238.00	3	12.750	255.00
5	10.630	212.40	4 1/2	13.390	267.80	3 1/4	13.810	276.20
5 1/2	11.690	233.80	5	14.870	297.40	3 1/2	14.870	297.40
6	12.750	255.00	5 1/2	16.360	327.20	4	17.000	340.00
7	14.870	297.40	6	17.850	357.00	4 1/2	19.120	382.40
8	17.000	340.00	7	20.830	416.60	5	21.250	425.00
3/4 INCH			8	23.800	476.00	5 1/2	23.370	467.40
7/8	2.231	44.62	1 INCH			6	25.500	510.00
1	2.550	51.00	1 1/4	4.250	85.00	7	29.750	595.00
1 1/8	2.869	57.38	1 1/2	5.100	102.00	8	34.000	680.00
1 1/4	3.188	63.76	1 3/4	5.950	119.00	1 1/2 INCH		
1 1/2	3.825	76.50	2	6.800	136.00	2	10.20	204.00
1 5/8	4.144	82.88	2 1/4	7.650	153.00	2 1/4	11.48	229.60
1 3/4	4.463	89.26	2 1/2	8.500	170.00	2 1/2	12.75	255.00
2	5.100	102.00	2 3/4	9.350	187.00	2 3/4	14.03	280.60
2 1/4	5.738	114.80	3	10.200	204.00	3	15.30	306.00
2 1/2	6.375	127.50	3 1/4	11.050	221.00	3 1/2	17.85	357.00
2 3/4	7.013	140.30	3 1/2	11.900	238.00			
3	7.650	153.00	4	13.600	272.00			
3 1/4	8.288	165.80	4 1/2	15.300	306.00			
3 1/2	8.925	178.50	5	17.000	340.00			
4	10.200	204.00						
4 1/4	11.470	229.40						

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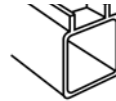
FLAT BARS



Flat Bars

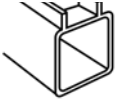
Size In Inches	Est. Weight, Lbs.		Size In Inches	Est. Weight, Lbs.		Size In Inches	Est. Weight, Lbs.	
	Per Foot	20-Ft. Bar		Per Foot	20-Ft. Bar		Per Foot	20-Ft. Bar
1 1/2 INCH CONT.			2 INCH			3 INCH		
4	20.40	408.00	2 1/2	17.00	340.00	4	40.80	816.00
4 1/2	22.95	459.00	3	20.40	408.00	4 1/2	45.90	918.00
5	25.50	510.00	3 1/2	23.80	476.00	5	51.00	1020.00
5 1/2	28.05	561.00	4	27.20	544.00	6	61.20	1224.00
6	30.60	612.00	4 1/2	30.60	612.00	8	81.60	1632.00
7	35.70	714.00	5	34.00	680.00			
8	40.80	816.00	6	40.80	816.00			
1 3/4 INCH			7	47.60	952.00			
			8	54.40	1088.00			
2	11.90	238.00	2 1/2 INCH					
2 1/2	14.88	297.60	3	25.50	510.00			
3	17.85	357.00	3 1/2	29.75	595.00			
3 1/2	20.83	416.60	4	34.00	680.00			
4	23.80	476.00	4 1/2	38.25	765.00			
4 1/2	26.78	535.60	5	42.50	850.00			
5	29.75	595.00	6	51.00	1020.00			
5 1/2	32.73	654.60	8	68.00	1360.00			
6	35.70	714.00						

Square Tubing



Size	Ga.	Thickness	Lbs./Ft.	
1/2"	16	.065	.384	
3/4"	16	.065	.605	
1"	16	.065	.826	
	15	.072	.905	
	14	.083	1.04	
	12	.109	1.32	
	11	.120	1.44	
	1 1/4"	16	.065	1.05
		14	.083	1.32
12		.109	1.69	
11		.120	1.84	
10		.135	1.89	
3/16		.188	2.40	

SQUARE TUBING



Square Tubing

Size	Ga.	Thickness	Lbs./Ft.	Size	Ga.	Thickness	Lbs./Ft.
1 1/2"	18	.049	.967	5"	3/16	.188	12.14
	16	.065	1.27		1/4	.250	15.91
	14	.083	1.60		5/16	.312	19.58
	12	.109	2.06		3/8	.375	23.12
	11	.120	2.25		1/2	.500	29.78
	10	.145	2.35	6"	3/16	.188	14.65
	3/16	.188	3.04		1/4	.250	19.31
1/4	.250	3.70	5/16		.312	23.83	
2"	16	.065	1.71	3/8	.375	28.22	
	14	.083	2.16	1/2	.500	36.72	
	12	.109	2.80	7"	3/16	.188	17.13
	11	.120	3.12		1/4	.250	22.71
	3/16	.188	4.49		5/16	.312	28.08
1/4	.250	5.71	3/8		.375	33.32	
			1/2		.500	43.51	
2 1/2"	14	.083	2.73	8"	3/16	.188	19.65
	11	.120	3.98		1/4	.250	26.04
	3/16	.188	5.75		5/16	.312	32.33
	1/4	.250	7.41	3/8	.375	38.42	
3"	14	.083	3.29	1/2	.550	50.31	
	11	.120	4.83	10"	3/16	.188	24.65
	3/16	.188	7.04		1/4	.250	32.70
	1/4	.250	9.11		5/16	.312	40.80
	5/16	.312	11.08		3/8	.375	48.61
			1/2		.500	63.91	
3 1/2"	11	.120	5.68	12"	1/4	.250	39.44
	3/16	.188	8.30		5/16	.312	48.95
	1/4	.250	10.81		3/8	.375	58.47
	5/16	.312	13.19	1/2	.500	77.51	
4"	14	.083	4.42				
	11	.120	6.53				
	3/16	.188	9.59				
	1/4	.250	12.51				
	5/16	.312	15.33				
	3/8	.375	18.02				
	1/2	.500	22.98				

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TUBING

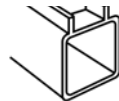
Rectangular Tubing



Size	Ga.	Thickness	Lbs./Ft.	Size	Ga.	Thickness	Lbs./Ft.
1 1/2 x 1	16	.065	1.05	5 x 3	11	.120	6.53
	11	.120	1.84		3/16	.188	9.59
2 x 1	16	.065	1.18		1/4	.250	12.51
	14	.083	1.60		5/16	.312	15.33
	11	.120	2.25	3/8	.375	18.02	
2 x 1 1/4	11	.120	2.46	5 x 4	3/16	.188	10.84
2 x 1 1/2	11	.120	2.66		1/4	.250	14.21
2 1/2 x 1 1/2	14	.083	2.16	6 x 2	11	.120	6.53
	11	.120	3.12		3 1/6	.188	9.59
	3 1/6	.188	4.49		1/4	.250	12.51
	1/4	.250	5.59	5 1/6	.312	15.33	
3 x 1	14	.083	2.16	6 x 3	3/8	.375	18.02
		.083	2.45		3/16	.188	10.84
3 x 1 1/2	11	.120	3.48		1/4	.250	14.21
	3/16	.188	5.07	5 1/6	.312	17.44	
				3/8	.375	20.57	
3 1/2 x 1 1/2	14	.083	2.73	6 x 4	3/16	.188	12.14
					1/4	.250	15.91
3 x 2	14	.083	2.73		5/16	.312	19.58
	11	.120	3.98		3/8	.375	23.12
	3 1/6	.188	5.75	1/2	.500	29.78	
	1/4	.250	7.41				
4 x 2	5/16	.312	8.85	7 x 5	3/16	.188	14.65
	14	.083	3.29		1/4	.250	19.31
		.120	4.83		5/16	.312	23.83
	3/16	.188	7.04	3/8	.375	28.22	
	1/4	.250	9.11	1/2	.500	36.72	
4 x 3	5/16	.312	11.08	8 x 2	3/16	.188	12.14
					1/4	.250	15.91
	14	.083	3.86	8 x 3	3/16	.188	13.39
	11	.120	5.68		1/4	.250	17.61
	3/16	.188	8.30		3/8	.375	25.67
1/4	.250	10.81	8 x 4	3/16	.188	14.65	
				1/4	.250	19.31	
5 x 2	11	.120		5.68	5/16	.312	23.83
	3/16	.188		8.30	3/8	.375	28.22
	1/4	.250	10.61	1/2	.500	36.72	

TUBING

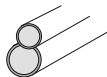
Rectangular Tubing



Size	Ga.	Thickness	Lbs./Ft.	Size	Ga.	Thickness	Lbs./Ft.	
8 x 6	3/16	.188	17.13	10 x 8	1/4	.250	29.37	
	1/4	.250	22.71		5/16	.312	36.38	
	5/16	.312	28.08	12 x 2	3/16	.188	17.13	
	3/8	.375	33.32		1/4	.250	22.71	
	1/2	.500	43.51		12 x 4	1/4	.250	26.04
10 x 2	3/16	.188	14.65	12 x 6		1/4	.250	29.37
	1/4	.250	19.31			5/16	.312	36.38
10 x 4	1/4	.250	22.71		3/8	.375	43.51	
	3/8	.375	33.32	10 x 6	3/16	.188	19.65	
10 x 6	1/4	.250	26.04		1/4	.250	26.04	
	3/8	.375	38.42		3/8	.375	38.42	

PIPE

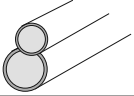
Pipe Dimensions and Weights



Normal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Thickness Inches	inside Dia. inches	Wt./Ft. Pounds
1/8	.405	10S	.049	.307	.1863
		40 40S Std.	.068	.269	.2447
		80 80S Ex. Hvy.	.095	.215	.3145
1/4	.540	10S	.065	.410	.3297
		40 40S Std.	.088	.364	.4248
		80 80S Ex. Hvy.	.119	.302	.5351
3/8	.675	10S	.065	.545	.4235
		40 40S Std.	.091	.493	.5676
		80 80S Ex. Hvy.	.126	.423	.7388

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PIPE

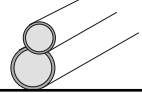


Pipe Dimensions and Weights

Normal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Thickness inches	Inside Dia. Inches	Wt./Ft. Pounds
1/2	.840	5S	.065	.710	.5383
		10S	.083	.674	.6710
		40 40S Std.	.109	.622	.8510
		80 80S Ex. Hvy.	.147	.546	1.088
		160	.187	.466	1.304
		XX. Hvy.	.294	.252	1.714
3/4	1.050	5S	.065	.920	.6838
		10S	.083	.884	.8572
		40 40S Std.	.113	.824	1.131
		80 80S Ex. Hvy.	.154	.742	1.474
		160	.218	.614	1.937
		XX. Hvy.	.308	.434	2.441
1	1.315	5S	.065	1.185	.8678
		10S	.109	1.097	1.404
		40 40S Std.	.133	1.049	1.679
		80 80S Ex. Hvy.	.179	.957	2.172
		160	.250	.815	2.844
		XX. Hvy.	.358	.599	3.659
1 1/4	1.660	5S	.065	1.530	1.107
		10S	.109	1.442	1.806
		40 40S Std.	.140	1.380	2.273
		80 80S Ex. Hvy.	.191	1.278	2.997
		160	.250	1.160	3.765
		XX. Hvy.	.382	.896	5.214
1 1/2	1.900	5S	.065	1.770	1.274
		10S	.109	1.682	2.085
		40 40S Std.	.145	1.610	2.718
		80 80S Ex. Hvy.	.200	1.500	3.631
		160	.281	1.338	4.859
		XX. Hvy.	.400	1.100	6.408
2	2.375	5S	.065	2.245	1.604
		10S	.109	2.157	2.638
		40 40S Std.	.154	2.067	3.653
		80 80S Ex. Hvy.	.218	1.939	5.022
		160	.343	1.689	7.444
		XX. Hvy.	.436	1.503	9.029

PIPE

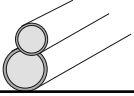
Pipe Dimensions and Weights



Normal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Thickness inches	Inside Dia. Inches	Wt./Ft. Pounds
2 1/2	2.875	5S	.083	2.709	2.475
		10S	.120	2.635	3.531
		40 40S Std.	.203	2.469	5.793
		80 80S Ex. Hvy.	.276	2.323	7.661
		160	.375	2.125	10.01
		XX Hvy.	.552	1.771	13.69
3	3.500	5S	.083	3.334	3.029
		10S	.120	3.260	4.332
		40 40S Std.	.216	3.068	7.576
		80 80S Ex. Hvy.	.300	2.900	10.25
		160	.438	2.624	14.32
		XX Hvy.	.600	2.300	18.58
3 1/2	4.000	5S	.083	3.834	3.472
		10S	.120	3.760	4.973
		40 40S Std.	.226	3.548	9.109
		80 80S Ex. Hvy.	.318	3.364	12.50
4	4.500	5S	.083	4.334	3.915
		10S	.120	4.260	5.613
		40 40S Std.	.237	4.026	10.79
		80 80S Ex. Hvy.	.337	3.826	14.89
		120	.438	3.624	19.00
		160	.531	3.438	22.51
		XX Hvy.	.674	3.152	27.54
5	5.563	5S	.109	5.345	6.349
		10S	.134	5.295	7.770
		40 40S Std.	.258	5.047	14.62
		80 80S Ex. Hvy.	.375	4.813	20.78
		120	.500	4.563	27.04
		160	.625	4.313	32.96
		XX Hvy.	.750	4.063	38.55
6	6.625	5S	.109	6.407	7.585
		10S	.134	6.357	9.289
		40 40S Std.	.280	6.056	18.97
		80 80S Ex. Hvy.	.432	5.761	28.57
		120	.562	5.491	36.39
		160	.718	5.189	45.30
		XX Hvy.	.864	4.897	53.16

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PIPE

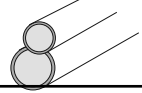


Pipe Dimensions and Weights

Normal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Thickness inches	Inside Dia. Inches	Wt/Ft. Pounds		
8	8.625	5S	.109	8.407	9.914		
		10S	.148	8.329	13.40		
		20	.250	8.125	22.36		
		30	.277	8.071	24.70		
		40	40S Std.	.322	7.981	28.55	
		50		.406	7.813	35.64	
		80	80S Ex. Hvy.	.500	7.625	43.39	
		100		.593	7.439	50.89	
		120		.718	7.189	60.93	
		140		.812	7.001	67.76	
			XX Hvy.	.875	6.875	72.42	
				.906	6.813	74.69	
10	10.750	5S	.134	10.482	15.19		
		10S	.165	10.420	18.70		
		20	.250	10.250	28.04		
		30	.307	10.136	34.24		
		40	40S Std.	.365	10.020	40.48	
		60	80S Ex. Hvy.	.500	9.750	54.74	
		80		.593	9.564	64.33	
		100		.718	9.224	76.93	
		120		.843	9.064	89.20	
		10	10.750	140	1.000	8.750	104.1
				160	1.125	8.500	115.7
		12	12.750	5S	.165	12.420	22.18
10S	.180			12.390	24.20		
20	.250			12.250	33.38		
30	.330			12.090	43.77		
40	40S Std.			.375	12.000	49.56	
40				.406	11.938	53.53	
60	80S Ex. Hvy.			.500	11.750	65.42	
80				.562	11.626	73.16	
80				.687	11.376	88.51	
100				.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			
14	14.000	10	.250	13.500	36.71		
		20	.312	13.376	45.68		
		30	Std.	.375	13.250	54.57	

PIPE

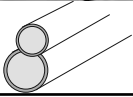
Pipe Dimensions and Weights



Normal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Thickness inches	Inside Dia. Inches	Wt./Ft. Pounds		
16	16.000	Ex. Hvy.	40	.438	13.124	63.37	
				.500	13.000	72.09	
			60	.593	12.814	84.91	
			80	.750	12.500	106.1	
			100	.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	
		Std.	10	.250	15.500	42.05	
			20	.312	15.376	52.36	
			30	.375	15.250	62.58	
			40	.500	15.000	82.77	
			60	.656	14.688	107.5	
			80	.843	14.314	136.5	
			100	1.031	13.938	164.8	
			120	1.218	13.564	192.3	
18	18.000	Ex. Hvy.	10	.250	17.500	47.39	
			20	.312	17.376	59.03	
			30	Std.	.375	17.250	70.59
				Ex. Hvy.	.438	17.124	82.06
			40	.500	17.000	93.45	
			60	.562	16.876	104.8	
			80	.750	16.500	138.2	
			100	.937	16.126	170.8	
		120	1.156	15.688	208.0		
		140	1.375	15.250	244.1		
		160	1.562	14.876	274.2		
		Std.	10	.250	14.438	308.5	
			20	.312	19.500	52.73	
			30	.375	19.250	78.60	
			40	.500	19.000	104.1	
			60	.593	18.814	122.9	
80	.812		18.376	166.4			
100	1.031		17.938	208.9			
120	1.281		17.438	256.1			
20	20.000	Ex. Hvy.	140	1.500	17.000	296.4	
			140	1.750	16.500	341.1	
			160	1.968	16.064	379.0	

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PIPE



Pipe Dimensions and Weights

Normal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Thickness inches	Inside Dia. Inches	Wt/Ft. Pounds
24	24.000	10	.250	23.500	63.41
		20	Std. .375	23.250	94.62
			Ex. Hvy. .500	23.000	125.5
		30	.562	22.876	140.8
		40	.687	22.626	171.2
		60	.968	22.064	238.1
		80	1.218	21.564	296.4
		100	1.531	20.938	367.4
		120	1.812	20.376	429.4
		140	2.062	19.876	483.1
	160	2.343	19.314	541.9	
30	30.000	10	.312	29.376	98.9
			Std. .375	29.250	118.7
		20	Ex. Hvy. .500	29.000	157.5
		30	.625	28.750	196.1
36	36.000	Std.	.375	35.250	142.7
		Ex. Hvy.	.500	35.000	189.6
38	38.000		.312		125.58
			.375		150.69
			.500		200.25
40	40.000		.312		132.25
			.375		158.70
			.500		210.93
42	42.000		.312		138.91
			.375		166.71
			.500		221.61

SHEETS



Sheets

**Gauge and Size In Inches
& Lbs. per Sq. Ft.**

**Wt. per
Sheet**

7 ga. 7.5 lb. (.1793")

48 x 96	240.00
48 x 120	300.00
48 x 144	360.00
48 x 240	600.00
60 x 96	300.00
60 x 120	375.00
60 x 144	450.00
60 x 240	750.00
72 x 96	360.00
72 x 120	450.00
72 x 144	540.00
72 x 240	900.00

8 ga. 6.875 lb. (.1644")

48 x 96	220.00
48 x 120	275.00
48 x 144	330.00
48 x 240	550.00
60 x 96	275.00
60 x 120	343.75
60 x 144	412.50
60 x 240	687.50
72 x 96	330.00
72 x 120	412.50
72 x 144	495.00
72 x 240	825.00

10 ga. 5.625 lb. (.1345")

48 x 96	180.00
48 x 120	225.00
48 x 144	270.00
48 x 240	450.00
60 x 96	225.00
60 x 120	281.25
60 x 144	337.50
60 x 240	562.50
72 x 96	270.00
72 x 120	337.50
72 x 144	405.00
72 x 240	675.00

**Gauge and Size In inches
& Lbs. per Sq. Ft.**

**Wt. per
Sheet**

11 ga. 5.0 lb. (.1196")

48 x 96	160.00
48 x 120	200.00
48 x 144	240.00
60 x 96	200.00
60 x 120	250.00
60 x 144	300.00
60 x 240	500.00
72 x 96	240.00
72 x 120	300.00
72 x 144	360.00
72 x 240	600.00

12 ga. 4.375 lb. (.1046")

48 x 96	140.00
48 x 120	175.00
48 x 144	210.00
60 x 96	175.00
60 x 120	218.75
60 x 144	262.50
60 x 240	437.50
72 x 96	210.00
72 x 120	262.50
72 x 144	315.00
72 x 240	525.00

14 ga. 3.125 lb. (.0747")

48 x 96	100.00
48 x 120	125.00
48 x 144	150.00
60 x 96	125.00
60 x 120	156.25
60 x 144	187.50
72 x 96	150.00
72 x 120	187.50
72 x 144	225.00

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SHEETS

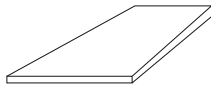
Sheets Hot and Cold Rolled



Gauge and Size In Inches & Lbs. per Sq. Ft.	Wt. per Sheet	Gauge and Size In inches & Lbs. per Sq. Ft.	Wt. per Sheet
16 ga. 2.5 lb. (.0598")		22 ga. 1.25 lb. (.0299")	
48 x 96	80.00	36 x 96	30.00
48 x 120	100.00	36 x 120	37.50
48 x 144	120.00	36 x 144	45.00
60 x 96	100.00	48 x 96	40.00
60 x 120	125.00	48 x 120	50.00
60 x 144	150.00	48 x 144	60.00
18 ga. 2.0 lb. (.0478")		24 ga. 1.0 lb. (.0239")	
36 x 96	48.00	36 x 96	24.00
36 x 120	60.00	36 x 120	30.00
36 x 144	72.00	48 x 96	32.00
48 x 96	64.00	48 x 120	40.00
48 x 120	80.00		
48 x 144	96.00	26 ga. .750 lb. (.0179")	
60 x 96	80.00	36 x 96	18.00
60 x 120	100.00	36 x 120	22.50
60 x 144	120.00		
20 ga. 1.50 lb. (.0359")		28 ga. .625 lb. (.0149")	
36 x 96	36.00	36 x 96	15.00
36 x 120	45.00	36 x 120	18.75
36 x 144	54.00		
48 x 96	48.00		
48 x 120	60.00		
48 x 144	72.00		

We can furnish sheets sheared to your requirements.
Sheets are also available in galvanized.

UNIVERSAL MILL PLATES

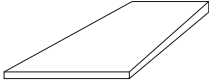


Universal Mill Plates

Thickness & Width Inches	Est. Weight, Lbs. Per Foot	20-Ft. Length	Thickness & Width Inches	Est. Weight, Lbs. Per Foot	20-Ft. Length
1/4 x 9	7.65	153.0	1/2 x 9	15.30	306.0
10	8.50	170.0	10	17.00	340.0
11	9.35	187.0	12	20.40	408.0
12	10.20	204.0	14	23.80	476.0
13	11.05	221.0	16	27.20	544.0
14	11.90	238.0	18	30.60	612.0
15	12.75	255.0	20	34.00	680.0
16	13.60	272.0	22	37.40	748.0
18	15.30	306.0	24	40.80	816.0
20	17.00	340.0			
24	20.40	408.0	5/8 x 9	19.13	382.6
			10	21.25	425.0
5/16 x 9	9.56	191.2	12	25.50	510.0
10	10.63	212.6	14	29.75	595.0
12	12.75	255.0	16	34.00	680.0
14	14.88	297.6	18	38.25	765.0
16	17.00	340.0	20	42.50	850.0
18	19.13	382.6	22	46.75	935.0
20	21.25	425.0	24	51.00	1020
22	23.38	467.6			
24	25.50	510.0	3/4 x 9	22.95	495.0
			10	25.50	510.0
3/8 x 9	11.48	229.6	12	30.60	612.0
10	12.75	255.0	14	35.70	714.0
11	14.03	280.6	16	40.80	816.0
12	15.30	306.0	18	45.90	918.0
13	16.58	331.6	20	51.00	1020
14	17.85	357.0	22	56.10	1020
16	20.40	408.0	24	61.20	1224
18	22.95	459.0			
20	25.50	510.0	7/8 x 10	29.75	595.0
22	28.05	561.0	12	35.70	714.0
24	30.60	612.0	14	41.65	833.0
			16	47.60	952.0
			18	53.55	1071
			20	59.50	1190
			24	71.40	1428

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UNIVERSAL MILL PLATES



Universal Mill Plates

Thickness & Width Inches	Est. Weight, Lbs. Per Foot	20-Ft. Length	Thickness & Width Inches	Est. Weight, Lbs. Per Foot	20-Ft. Length
1 x 9	30.60	612.0	1 1/2 x 10	51.00	1020
10	34.00	680.0	12	61.20	1224
12	40.80	816.0	14	71.40	1428
14	47.60	952.0	16	81.60	1632
16	54.40	1088	18	91.80	1836
18	61.20	1224	20	102.0	2040
20	68.00	1360	24	122.4	2448
22	74.80	1496			
24	81.60	1632	2 x 9	61.20	1224
			10	68.00	1360
1/2 x 9	38.25	765.0	12	81.60	1632
10	42.50	850.0			
12	51.00	1020			
14	59.50	1190			
16	68.00	1360			
18	76.50	1530			
20	85.00	1700			
24	102.00	2040			

PLATES

	Wt. Per Sq. Inch	Wt. Per Sq. Foot		Wt. per Sq. Inch	Wt. Per Sq. Foot
3/16	.0532	7.66	2 1/4	.6381	91.89
1/4	.0709	10.21	2 1/2	.7090	102.10
5/16	.0886	12.76	2 3/4	.7799	112.31
3/8	.1064	15.31	3	.8508	122.52
7/16	.1241	17.87	3 1/4	.9217	132.12
1/2	.1418	20.42	3 1/2	.9926	142.93
9/16	.1595	22.97	3 3/4	1.0635	153.14
5/8	.1773	25.52	4	1.1344	163.35
11/16	.1950	28.08	4 1/4	1.2053	173.56
3/4	.2127	30.63	4 1/2	1.2762	183.77
7/8	.2481	35.73	5	1.4180	204.19
1	.2836	40.84	5 1/2	1.5598	224.61
1 1/8	.3191	45.94	6	1.7016	245.03
1 1/4	.3545	51.05	6 1/2	1.8434	265.45
1 3/8	.3900	56.16	7	1.9852	285.87
1 1/2	.4254	61.26	7 1/2	2.1270	306.29
1 5/8	.4609	66.36	8	2.2688	326.71
1 3/4	.4963	71.47	8 1/2	2.4106	347.13
1 7/8	.5318	76.57	9	2.5524	367.55
2	.5672	81.68	10	2.8360	408.38
2 1/8	.6027	86.78	12	3.4032	490.06

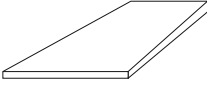
FLOOR PLATES

	Wt. Per Sq. Inch	Wt. Per Sq. Foot		Wt. Per Sq. Inch	Wt. Per Sq. Foot
16 ga.	.0208	3.00	1/4	.0782	11.26
14 ga.	.0260	3.75	5/16	.0959	13.81
12 ga.	.0365	5.25	3/8	.1137	16.37
1/8	.0427	6.15	1/2	.1491	21.47
3/16	.0605	8.71	3/4	.2200	31.68

EST WT LBS

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PLATES



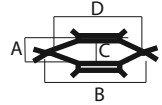
Weight Per Sheet - Most Common Sizes

SIZE	3/16	1/4	5/16	3/8
48 x 96	245.12	326.72	408.32	489.92
48 x 120	306.40	408.40	510.40	612.40
48 x 144	367.68	490.08	612.48	734.88
48 x 240	612.80	816.80	1020.80	1224.80
60 x 96	306.40	408.40	510.40	612.40
60 x 120	383.00	510.50	638.00	765.50
60 x 144	459.60	612.60	765.60	918.60
60 x 240	766.00	1021.00	1276.00	1531.00
72 x 96	367.68	490.08	612.48	734.88
72 x 120	459.60	612.60	765.60	918.60
72 x 144	551.52	735.12	918.72	1102.32
72 x 240	919.20	1225.20	1531.20	1837.20

SIZE	1/2	5/8	3/4	7/8	1"
48 x 96	653.44	816.64	980.16	1143.36	1306.88
48 x 120	816.80	1020.80	1225.20	1429.20	1633.60
48 x 144	918.16	1224.96	1470.24	1715.04	1960.32
48 x 240	1633.60	2041.60	2450.40	2858.40	3267.20
60 x 96	816.80	1020.80	1225.20	1429.20	1633.60
60 x 120	1021.00	1276.00	1531.50	1786.50	2042.00
60 x 144	1225.20	1531.20	1837.80	2143.80	2450.40
60 x 240	2042.00	2552.00	3063.00	3573.00	4084.00
72 x 96	980.16	1224.96	1470.24	1715.04	1960.32
72 x 120	1225.20	1531.20	1837.80	2143.80	2450.40
72 x 144	1470.24	1837.44	2205.36	2572.56	2940.48
72 x 240	2450.40	3062.40	3675.60	4287.60	4900.80

EXPANDED METAL

Flattened Expanded Metals Carbon Steel

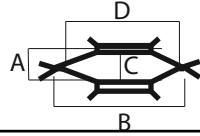


Size In. and Style No.	Width and Length Inches	Est. Lbs. Sq. Ft.	Diamond Size Dec. In. A x B	Opening Size Dec. In. C x D	Strand Dec. In. E x F
1/4 - No. 20	48 x 96	.82	.25 x 1.018	.094 x .688	.029 x .086
1/4 - No. 18	48 x 96	1.08	.25 x 1.018	.094 x .688	.029 x .086
1/2 - No. 20	36 x 96	.40	.462 x 1.26	.340 x 1.00	.029 x .074
1/2 - No.18	48 x 96	.66	.462 x 1.26	.261 x 1.00	.039 x .095
	36 x 96				
	48 x 96				
1/2 - No.16	48 x 120	.80	.462 x 1.26	.250 x 1.00	.050 x .089
	36 x 96				
	36 x 120				
1/2 - No. 13	48 x 96	1.40	.462 x 1.245	.250 x 1.00	.070 x .111
	48 x 120				
	36 x 96				
3/4 - No. 16	48 x 96	.47	.923 x 2.908	.750 x 1.781	.048 x 1.10
	48 x 120				
	36 x 96				
	36 x 120				
3/4 - No. 14	48 x 96	.63	.923 x 2.111	.688 x 1.781	.061 x .114
	48 x 120				
	36 x 120				
3/4 - No. 13	48 x 96	.76	.923 x 2.078	.688 x 1.781	.070 x 137
	48 x 120				
	36 x 96				
3/4 - No. 9	48 x 120	1.71	.923 x 2.120	.562 x 1.688	.120 x .157
	48 x 96				
	36 x 120				
	36 x 96				
1 - No. 16	60 x 120	.41	1.00 x 2.508	780 x 2.060	.048 x .106
1 1/2 - No. 16 Lt.	48 x 96				
1 1/2 - No. 16 Hvy.	48 x 96				
1 1/2 -No. 13	48 x 96				
48 x 96	48 x 96	.38	1.33 x 3.146	1.062 x 2.75	.048 x .127
	36 x 96				
1 1/2 - No. 9	48 x 120	.57	1.33 x 3.115	1.062 x 2.75	.070 x .130
	48 x 96				
	36 x 120				
	36 x 96				
1 1/2 - No. 9	48 x 120	1.14	1.33 x 3.207	1.000 x 2.562	.110 x 165
	48 x 96				
	36 x 120				
	36 x 96				

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EXPANDED METAL

Regular Expanded Metals Carbon Steel



Size In. and Style No.	Width and Length Inches	Est. Lbs. Sq. Ft.	Diamond Size Dec. In. A x B	Opening Size Dec. In. C x D	Strand Dec. In. E x F	Overall Thick. Dec. In G
1/4 - No. 20	48 x 96	.86	.25 x 1.0	.167 x .747	.036 x .073	.124
1/4 - No. 18	48 x 96	1.14	.25 x 1.0	.155 x .703	.048 x .073	.125
1/2 - No. 20	48 x 96	.43	.462 x 1.2	.440 x .968	.036 x .066	.124
1/2 - No. 18	48 x 96	.70	.462 x 1.2	.392 x .920	.048 x .081	.155
	72 x 96					
1/2 - No. 16	48 x 96	.84	.462 x 1.2	.375 x .906	.060 x .078	.157
	48 x 120					
	72 x 96					
1/2 - No. 13	48 x 96	1.47	.462 x 1.2	.355 x .826	.090 x .091	.182
	72 x 96					
3/4 - No. 16	48 x 96	.50	.923 x 2.0	.844 x 1.692	.060 x .092	.186
	48 x 120					
	72 x 96					
3/4 - No. 13	48 x 96	.80	.923 x 2.0	.812 x 1.635	.090 x .098	.206
	48 x 120					
	72 x 96					
3/4 - No. 10	48 x 96	1.20	.923 x 2.0	.786 x 1.592	.090 x .148	.282
	72 x 96					
3/4 - No. 9	48 x 96	1.80	.923 x 2.0	.740 x 1.514	.134 x .148	.300
	48 x 120					
	60 x 120					
	72 x 96					
	72 x 120					
1 - No. 16	48 x 96	.44	1.00 x 2.4	.924 x 1.948	.060 x .189	.182
	48 x 120					
1 1/2 - No. 16	48 x 96	.40	1.33 x 3.0	1.253 x 2.608	.060 x .107	.211
	48 x 120					
1 1/2 - No. 13	48 x 96	.60	1.33 x 3.0	1.233 x 2.548	.090 x .107	.215
	48 x 120					
	72 x 96					
	72 x 120					
1 1/2 - No. 10	96 x 120					
	48 x 96	.79	1.33 x 3.0	1.210 x 2.530	.090 x .140	.289
	48 x 120					
	72 x 96					
	72 x 120					
1 1/2 - No. 9	48 x 96	1.20	1.33 x 3.0	1.165 x 2.446	.134 x .143	.295
	48 x 120					
	72 x 96					
	72 x 120					
1 1/2 - No. 6	48 x 96	2.50	1.33 x 3.0	1.060 x 2.250	.198 x .203	.495
	72 x 96					
	72 x 144					
2 - No. 9	48 x 96	.90	1.85 x 4.0	1.562 x 3.375	.134 x .144	.288

GRATING

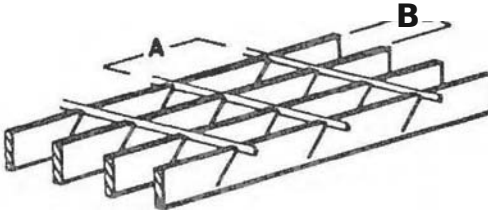
Expanded Metal Grating Carbon Steel



Est Wt. Lbs. Per Sq Ft	Style	Width Inches	Standard Sheet Size Length Inches	Diamond Size Width by Length Dec. In.	Diamond Openings Width by Length Dec. in.	Diamond Size Thickness by Width Dec. In.
4.27	Treadway	48,72	96	1.412 x 4.00	1.036 x 2.969	.250 x .295
3.14	Hiwalk	48,72	96,120	2.000 x 6.00	1.657 x 4.903	.250 x .308
3.0	Grating	48,72	96	1.333 x 5.33	1.041 x 3.732	.179 x .267
		72	120,144	1.333 x 5.33	1.041 x 3.732	.179 x .267
4.0	Grating	48,60,72	96,120	1.333 x 5.33	.975 x 3.594	.215 x .297
5.0	Grating	48	96,120	1.333 x 5.33	.950 x 3.400	.215 x .371
6.25	Grating	48,72	96,144	1.412 x 5.33	.915 x 3.460	.312 x .346

NOTE: All expanded metal dimensions and weights are approximate and subject to mill tolerance.

Gratings (Available Smooth or Serrated)



WELDED Typical Dimensions inches

A

B

Types

Standard space pattern 4

1 3/16

BEARING BARS

Size, In.

1/8 x 3/4

3/16 x 3/4

1/8 x 1

Size, In.

3/16 x 1

1/8 x 1 1/4

3/16 x 1 1/4

Size, In.

1/8 x 1 1/2

3/16 x 1 1/2

3/16 x 1 3/4

Size, In.

3/16 x 2

3/16 x 2 1/4

OTHER SIZES AVAILABLE.

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CONVERSIONS

Metric To English

kilograms x 2.2046	= pounds
kilograms + 907.2	= tons (2000 lbs.)
millimetres x 0.03937	= inches
or millimetres + 25.4	= inches
metres x 39.37	= inches
metres x 3.281	= foot
metres x 1.094	= yards
sq. millimetres x 0.00155	= sq. inches
or sq. millimetres + 645.16	= sq. inches

English to Metric

pounds + 2.2046	= kilograms (kg)
tons (2000 lbs.) x 907.2	= kilograms (kg)
inches + 0.03937	= millimetres (mm)
or inches x 25.4	= millimetres (mm)
inches + 39.37	= metres (m)
feet + 3.281	= metres (m)
yards + 1.094	= metres (m)
sq. inches + 0.00155	= sq. millimetres (mm ²)
or sq. inches x 645.16	= sq. millimetres (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 metre (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. metre (kg/m ²)
1 kilogram (kg)	= 2.2046 lbs.
1 kilogram per metre	= 0.67197 lbs. per foot
	= 2204.6 lbs.
1 metric ton (1000kg)	= 1.10231 net tons
	= 0.98421 gross ton

MEASURES

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

TEMPERATURE

Celsius (formerly called the centigrade scale)

Sc = temperature (Celsius in degrees)

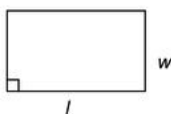
tf = temperature (fahrenheit) in degrees

$$t_c = \frac{(t_f - 32)}{1.8}$$

FORMULAS

Geometric Formulas

Rectangle



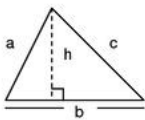
Perimeter: $P = 2l + 2w$
Area: $A = lw$

Square



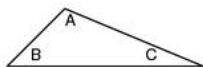
Perimeter: $P = 4s$
Area: $A = s^2$

Triangle



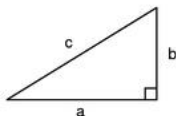
Perimeter: $P = a + b + c$
Area: $A = \frac{1}{2}bh$

Sum of Angles Of Triangle



$A + B + C = 180^\circ$
The sum of the measures of the three angles is 180° .

Right Triangle

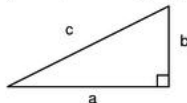


Perimeter: $P = a + b + c$

Area: $A = \frac{1}{2}ab$

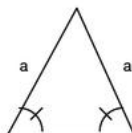
One 90° (right) angle

Pythagorean Theorem (for right triangles)



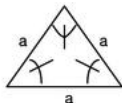
$$a^2 + b^2 = c^2$$

Isosceles Triangle



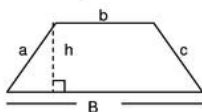
Triangle has two equal sides and two equal angles.

Equilateral Triangle



Triangle has three equal sides and three equal angles.

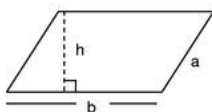
Trapezoid



Perimeter: $P = a + b + c + B$

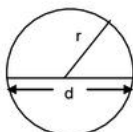
Area: $A = \frac{1}{2}h(B + b)$

Parallelogram



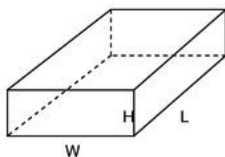
Perimeter: $P = 2a + 2b$
Area: $A = bh$

Circle



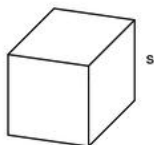
Circumference: $C = \pi d$
 $C = 2\pi r$
Area: $A = \pi r^2$

Rectangular Solid



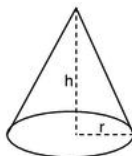
Volume: $V = LWH$
Surface Area: $S = 2LH + 2LW + 2WH$

Cube



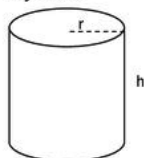
Volume: $V = s^3$

Cone



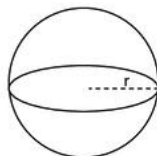
Volume: $V = \frac{1}{3}\pi r^2 h$

Right Circular Cylinder



Volume: $V = \pi r^2 h$
Surface Area: $SA = 2\pi r^2 + 2\pi r h$

Sphere



Volume: $V = \frac{4}{3}\pi r^3$

Other Formulas:

Distance: $d = rt$ (r = rate, t = time)
Percent: $p = br$ (p = percentage, b = base, r = rate)

Temperature: $F = \frac{9}{5}C + 32$ $C = \frac{5}{9}(F - 32)$

Simple Interest: $I = Prt$
(P = principal, r = rate, t = time in years)

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