



MetalWorks

STEEL BOOK

Handbook of weights and
measures for industry

METAL WORKS AND METAL WORKS SUPPLY

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THE WEIGHTS IN THIS BOOK
ARE APPROXIMATE
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H.R. ROUND BAR *HOT ROLLED 20' Random Lengths

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>	
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar
3/16	.094	1.88	3	24.03	480.60
1/4	.167	3.34	3-1/4	28.21	564.20
5/16	.261	5.22	3-1/2	32.71	654.20
3/8	.376	7.52	3-5/8	35.09	701.80
7/16	.511	10.22	3-3/4	37.55	751.00
1/2	.668	13.36	4	42.73	854.60
9/16	.845	16.90	4-1/4	48.23	964.60
5/8	1.04	20.80	4-1/2	54.08	1081.60
3/4	1.50	30.00	4-3/4	60.25	1205.00
7/8	2.04	40.80	5	66.76	1335.20
1	2.67	53.40	5-1/4	73.60	1472.00
1-1/8	3.38	67.60	5-1/2	80.78	1615.60
1-1/4	4.17	83.40	5-3/4	88.29	1765.80
1-3/8	5.05	101.00	6	96.13	1922.60
1-1/2	6.01	120.20	6-1/4	104.31	2086.20
1-5/8	7.05	141.00	6-1/2	112.82	2256.40
1-3/4	8.18	163.60	6-3/4	121.67	2433.40
1-7/8	9.39	187.80	7	130.85	2617.00
2	10.68	213.60	7-1/4	140.36	2807.20
2-1/8	12.06	241.20	7-1/2	150.21	3004.20
2-1/4	13.52	270.40	7-3/4	160.40	3208.00
2-3/8	15.06	301.20	8	170.90	3418.00
2-1/2	16.69	333.80	8-1/2	192.93	3858.60
2-5/8	18.40	368.00	9	216.30	4326.00
2-3/4	20.19	403.80	9-1/2	241.00	4820.00
			10	267.04	5340.80

* OTHER GRADES AVAILABLE

REBAR ROUND CONCRETE REINFORCING STEEL

BAR SIZE DESIGNATION	DIAMETER IN INCHES	<u>WEIGHT IN POUNDS</u>		CROSS SEC. AREA SQ. INCHES	PERI- METER INCHES
		PER FOOT	PER 20' BAR		
#3	3/8	.376	7.52	.11	1.178
#4	1/2	.668	13.36	.20	1.571
#5	5/8	1.043	20.86	.31	1.963
#6	3/4	1.502	30.04	.44	2.356
#7	7/8	2.044	40.88	.60	2.749
#8	1	2.670	53.40	.79	3.142

H.R SQUARE BAR HOT ROLLED MILD STEEL

SIZE IN INCHES	<u>WEIGHT IN POUNDS</u>		SIZE IN INCHES	<u>WEIGHT IN POUNDS</u>	
	PER FOOT	PER 20' BAR		PER FOOT	PER 20' BAR
3/8	.478	9.56	1-1/4	5.31	106.20
1/2	.850	17.00	1-1/2	7.65	153.00
5/8	1.33	26.60	1-3/4	10.41	208.20
3/4	1.91	38.20	2	13.60	272.00
1	3.40	68.00	2-1/2	21.25	425.00
1-1/8	4.30	86.00	3	30.60	612.00

H.R STRIP (BANDS) HOT ROLLED MILD STEEL

SIZE IN INCHES	<u>WEIGHT IN POUNDS</u>		SIZE IN INCHES	<u>WEIGHT IN POUNDS</u>	
	PER FOOT	PER 20' BAR		PER FOOT	PER 20' BAR
1/8x			3/16 x		
3/8	.159	3.18	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
1-1/4	.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	1.120	22.40
2	.850	17.00	2	1.280	25.60
2-1/4	.956	19.12	2-1/4	1.430	28.60
2-1/2	1.063	21.26	2-1/2	1.590	31.80
2-3/4	1.169	23.38			
3	1.275	25.50	3	1.910	38.20
3-1/4	1.381	27.62	3-1/4	2.070	41.40
3-1/2	1.488	29.76	3-1/2	2.230	44.60
4	1.700	34.00	4	2.550	51.00
4-1/2	1.913	38.26	4-1/2	2.870	57.40
5	2.125	42.50	5	3.190	63.80
5-1/2	2.338	46.76	6	3.830	76.60
6	2.550	51.00	7	4.460	89.20
			8	5.100	102.00
8	3.400	68.00	9	5.740	114.80
10	4.250	85.00	10	6.380	127.60
12	5.100	102.00	12	7.650	153.00

H.R. FLAT BAR HOT ROLLED MILD STEEL

Size in Inches	Weight in Pounds		Size in Inches	Weight in Pounds		
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar	
1/4x			3/8x			
1/2	.425	8.50	2	2.550	51.00	
5/8	.531	10.62	2-1/4	2.869	57.38	
3/4	.638	12.76	2-1/2	3.188	63.76	
1	.850	17.00	3	3.825	76.50	
1-1/4	1.063	21.26	3-1/2	4.463	89.26	
1-1/2	1.275	25.50	4	5.100	102.00	
1-3/4	1.488	29.76	4-1/2	5.738	114.76	
2	1.700	34.00	5	6.375	127.50	
2-1/4	1.913	38.26	5-1/2	7.013	140.26	
2-1/2	2.125	42.50	6	7.650	153.00	
2-3/4	2.338	46.76	8	10.200	204.00	
3	2.550	51.00	1/2x			
3-1/2	2.975	59.50	3/4	1.275	25.50	
4	3.40	68.00	1	1.700	34.00	
4-1/2	3.825	76.50	1-1/4	2.125	42.50	
			1-1/2	2.550	51.00	
			1-3/4	2.975	59.50	
5	4.250	85.00	2	3.400	68.00	
6	5.100	102.00	2-1/4	3.825	76.50	
7	5.950	119.00	2-1/2	4.250	85.00	
8	6.800	136.00	2-3/4	4.675	93.50	
5/16x			3	5.100	102.00	
1/2	.531	10.62	3-1/2	5.950	119.00	
3/4	.797	15.94	4	6.800	136.00	
1	1.063	21.26	4-1/2	7.650	153.00	
1-1/4	1.328	26.56	5	8.500	170.00	
1-1/2	1.594	31.88	5-1/2	9.350	187.00	
1-3/4	1.859	37.18	6	10.200	204.00	
2	2.125	42.50	7	11.900	238.00	
2-1/4	2.391	47.82	8	13.600	272.00	
2-1/2	2.656	53.12				
3	3.188	63.76	5/8 x	1	2.125	42.50
3-1/4	3.450	69.00	1-1/4	2.656	53.12	
3-1/2	3.719	74.38	1-1/2	3.188	63.76	
4	4.250	85.00	2	4.250	85.00	
5	5.313	106.26	2-1/2	5.313	106.30	
5-1/2	5.844	116.80	2-3/4	5.844	116.90	
6	6.375	127.50	3	6.375	127.50	
8	8.500	170.00	3-1/2	7.438	148.80	
3/8 x 1/2	.638	12.76	4	8.500	170.00	
5/8	.797	15.94	4-1/2	9.563	191.30	
3/4	.956	19.12	5	10.630	212.60	
1	1.275	25.50	5-1/2	11.690	233.80	
1-1/4	1.594	31.88	6	12.750	255.00	
1-1/2	1.913	38.26	7	14.880	297.60	
1-3/4	2.231	44.62	8	17.000	340.00	

H.R. FLAT BAR HOT ROLLED MILD STEEL

Size in Inches	Weight in Pounds		Size in Inches	Weight in Pounds		
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar	
3/4 x 1	2.550	51.00	1-1/4 x	2	8.50	170.00
1-1/4	3.188	63.76	2-1/2	10.63	212.60	
1-1/2	3.825	76.50	3	12.75	255.00	
1-3/4	4.463	89.26	3-1/2	14.88	297.60	
2	5.100	102.00	4	17.00	340.00	
2-1/4	5.738	114.80	4-1/2	19.13	382.60	
2-1/2	6.375	127.50	5	21.25	425.00	
2-3/4	7.010	140.20	6	25.50	510.00	
3	7.650	153.00	7	29.75	595.00	
3-1/2	8.925	178.50	8	34.0	680.00	
4	10.200	204.00				
4-1/2	11.480	229.60	1-1/2 x	2	10.20	204.00
5	12.750	255.00	2-1/2	12.75	255.00	
5-1/2	14.030	280.60	3	15.30	306.00	
6	15.300	306.00	3-1/2	17.85	357.00	
7	17.850	357.00	4	20.40	408.00	
8	20.400	408.00	4-1/2	22.95	459.00	
			5	25.50	510.00	
7/8 x 1	2.975	59.50	6	30.60	612.00	
1-1/4	3.719	74.38	7	35.70	714.00	
1-1/2	4.463	89.26	8	40.80	816.00	
1-3/4	5.206	104.10				
2	5.950	119.00	1-3/4 x	2-1/2	14.88	297.60
2-1/4	6.694	133.90	3	17.85	357.00	
2-1/2	7.438	148.80	3-1/2	20.83	416.60	
3	8.925	178.50	4	23.80	476.00	
3-1/2	10.410	208.20	4-1/2	26.78	535.60	
4	11.900	238.00	5	29.75	595.00	
5	14.800	297.60	6	35.70	714.00	
6	17.850	357.00	8	47.60	952.00	
7	20.830	416.40	8	23.800	476.00	
1 x 1-1/4	4.250	85.00	2 x	3	20.40	408.00
1-1/2	5.100	102.00	3-1/2	23.80	476.00	
1-3/4	5.950	119.00	4	27.20	544.00	
2	6.800	136.00	4-1/2	30.60	612.00	
2-1/4	7.650	153.00	5	34.00	680.00	
2-1/2	8.500	170.00	6	40.80	816.00	
3	10.200	204.00	8	54.40	1088.00	
3-1/2	11.900	238.00				
4	13.600	272.00	2-1/2 x	3	25.50	510.00
4-1/2	15.300	306.00	3-1/2	29.75	595.00	
5	17.000	340.00	4	34.00	680.00	
6	20.400	408.00	4-1/2	38.26	765.20	
7	23.800	476.00	5	42.50	850.00	
8	27.200	544.00	5-1/2	46.75	935.00	
			6	51.00	1020.00	
			8	68.00	1360.00	

ANGLE, BAR SIZE Standard 20' Lengths

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>		
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar	
1/2 x 1/2 x			2 x 1-1/2 x			
1/8	.38	7.6	1/8	1.44	28.8	
3/4 x 3/4 x			3/16	2.12	42.4	
1/8	.59	11.8	1/4	2.77	55.4	
1 x 1			2 x 2 x	1/8	1.65	33.0
1/8	.80	16.0		3/16	2.44	48.8
3/16	1.16	23.2	1/4	3.19	63.8	
1/4	1.49	29.8	5/16	3.92	78.4	
1-1/4 x 1-1/4 x			3/8	4.70	94.0	
1/8	1.01	20.2	2-1/2 x 1-1/2 x			
3/16	1.48	29.6	3/16	2.44	48.8	
1/4	1.92	38.4	1/4	3.19	63.8	
1-1/2 x 1-1/2 x			5/16	3.92	78.4	
1/8	1.23	24.6	2-1/2 x 2 x			
3/16	1.80	36.0	3/16	2.75	55.0	
1/4	2.34	46.8	1/4	3.62	72.4	
5/16	2.86	57.2	5/16	4.50	90.0	
3/8	3.35	67.0	3/8	5.30	106.0	
1-3/4 x 1-3/4 x			2-1/2 x 2-1/2 x			
1/8	1.44	28.8	3/16	3.07	61.4	
3/16	2.12	42.4	1/4	4.10	82.0	
1/4	2.77	55.4	5/16	5.00	100.0	
			3/8	5.90	118.0	
			1/2	7.70	154.0	

ANGLE, STRUCTURAL 3" AND OVER

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>	
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar
3 X 2 x			3 X 3 x		
3/16	3.07	61.4	3/16	3.71	74.2
1/4	4.10	82.0	1/4	4.90	98.0
5/16	5.00	100.0	5/16	6.10	122.0
3/8	5.90	118.0	3/8	7.20	144.0
1/2	7.70	154.0	1/2	9.40	188.0
3 x 2-1/2 x			3-1/2 x 2-1/2 x		
1/4	4.50	90.0	1/4	4.90	98.0
5/16	5.60	112.0	5/16	6.10	122.0
3/8	6.60	132.0	3/8	7.20	144.0
1/2	8.50	170.0	1/2	9.40	188.0

ANGLE, STRUCTURAL 3" AND OVER

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>	
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar
3-1/2 x 3 x			5 x 5 x		
1/4	5.40	108.0	5/16	10.30	206.0
5/16	6.60	132.0	3/8	12.30	246.0
3/8	7.90	158.0	1/2	16.20	324.0
1/2	10.20	204.0	5/8	20.00	400.0
			3/4	23.60	472.0
3-1/2 x 3-1/2			6 x 3-1/2		
1/4	5.80	116.0	1/4	7.90	158.0
5/16	7.20	144.0	5/16	9.80	196.0
3/8	8.50	170.0	3/8	11.70	234.0
1/2	11.10	222.0	1/2	15.30	306.0
4 x 3 x			6 x 4 x		
1/4	5.80	116.0	5/16	10.30	206.0
5/16	7.20	144.0	3/8	12.30	246.0
3/8	8.50	170.0	1/2	16.20	324.0
1/2	11.10	222.0	5/8	20.00	400.0
5/8	13.60	272.0	3/4	23.60	472.0
			7/8	27.20	544.0
4 x 3-1/2			6 x 6		
1/4	6.20	124.0	5/16	12.40	248.0
5/16	7.70	154.0	3/8	14.90	298.0
3/8	9.10	182.0	1/2	19.60	392.0
1/2	11.90	238.0	5/8	24.20	484.0
			3/4	28.76	574.0
4 x 4 x			7/8	33.10	662.0
1/4	6.60	132.0	1	37.40	748.0
5/16	8.20	164.0	7 x 4 x		
3/8	9.80	196.0	3/8	13.60	272.0
1/2	12.80	256.0	1/2	17.90	358.0
5/8	15.70	314.0			
3/4	18.50	370.0	8 x 4		
5 x 3 x			1/2	19.60	392.0
1/4	6.60	132.0	5/8	24.20	484.0
5/16	8.20	164.0	3/4	28.70	574.0
3/8	9.80	196.0	8 x 6 x		
1/2	12.80	256.0	1/2	23.00	460.0
5 x 3-1/2			5/8	28.50	570.0
1/4	7.00	140.0	8 x 8 x		
5/16	8.70	174.0	1/2	26.40	528.0
3/8	10.40	208.0	5/8	32.70	654.0
1/2	13.60	272.0	3/4	38.90	778.0
5/8	16.80	336.0	1	51.00	1020.0
3/4	19.80	396.0	9 x 4 x		
			1/2	21.30	426.0

BAR SIZE CHANNEL Standard 20' Lengths

Size in Inches	<u>Weight In Pounds</u>		Size in Inches	<u>Weight In Pounds</u>	
	Per Foot	Per 20'		Per Foot	Per 20'
3/4 x 3/8 x 1/8	.56	11.2	1-3/4 x 1/2 x 3/16	1.55	31.0
1 x 1/2 x 1/8	.83	16.6	2 x 1/2 x 1/8	1.33	26.6
1-1/4 x 1/2 x 1/4	1.01	20.2	2 x 9/16 x 3/16	1.76	35.2
1-1/2 x 1-1/2 x 1/8	1.12	22.4	2 x 1 x 1/8	1.78	35.6
1-1/2 x 3/4 x 1/8	1.17	23.4	2 x 1 x 3/16	2.57	51.4

JUNIOR CHANNEL

SIZE	WEIGHT PER FT.	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS	<u>WEIGHT IN POUNDS</u>	
					20'	40'
8 x	8.5	1.875	.321	.180	170	340
10 x	6.5	1.125	.188	.150	130	260
10 x	8.4	1.500	.250	.170	168	336
12 x	10.6	1.500	.313	.190	212	424

STRUCTURAL CHANNEL

SIZE	WEIGHT PER FT.	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS	<u>WEIGHT IN POUNDS</u>	
					20'	40'
3 x	3.50	1.38	.246	.135	70	140
	4.10	1.41	.273	.170	82	164
	5.00	1.50	.273	.258	100	200
4 x	6.00	1.60	.273	.356	120	240
	4.50	1.56	.263	.140	90	180
	5.40	1.58	.296	.180	108	216
	6.25	1.65	.296	.247	125	250
5 x	7.25	1.72	.296	.320	145	290
	6.70	1.75	.320	.190	134	268
	9.00	1.89	.320	.325	180	360
6 x	8.20	1.92	.343	.200	164	328
	10.50	2.03	.343	.314	210	420
	13.00	2.16	.343	.437	260	520
7 x	9.80	2.09	.366	.210	196	392
	12.25	2.19	.366	.314	245	490
	14.75	2.30	.366	.419	295	590
	11.50	2.26	.390	.220	230	460
8 x	13.75	2.34	.390	.303	275	550
	18.75	2.53	.390	.487	375	750
	13.40	2.43	.413	.230	268	536
9 x	15.00	2.49	.413	.285	300	600
	20.00	2.65	.413	.448	400	800
	15.30	2.60	.436	.240	306	612
10 x	20.00	2.74	.436	.379	400	800
	25.00	2.89	.436	.526	500	1000
	30.00	3.03	.436	.673	600	1200
	20.70	2.94	.501	.280	414	828
12 x	25.00	3.05	.501	.387	500	1000
	30.00	3.17	.501	.510	600	1200

SHIP CHANNEL

SIZE	WEIGHT PER FT.	FLANGE WIDTH	WEB THICKNESS	<u>WEIGHT IN POUNDS</u>	
				20'	40'
3 x	7.1	1.94	.312	142	284
	9.0	2.13	.500	180	360
4 x	13.8	2.51	.510	276	552
	6 x	12.0	2.50	.310	240
15.1		2.94	.313	302	604
15.3		3.50	.340	306	612
16.3		3.00	.375	326	652
18.0		3.50	.379	360	720
7 x	17.6	3.00	.375	352	704
	19.1	3.45	.352	382	764
	22.7	3.60	.503	454	908
8 x	18.7	2.99	.353	374	748
	20.0	3.03	.400	400	800
	21.4	3.45	.375	428	856
	22.8	3.50	.427	456	912
9 x	23.9	3.45	.400	478	956
	25.4	3.50	.450	508	1016
10 x	22.0	3.32	.290	440	880
	25.0	3.41	.380	500	1000
	28.5	.395	.425	570	1140
	33.6	4.10	.575	672	1344
	41.1	4.32	.796	822	1644
12 x	31.0	3.67	.370	620	1240
	35.0	3.77	.465	700	1400
	40.0	3.89	.590	800	1600
	45.0	4.01	.710	900	1800
	50.0	4.14	.835	1000	2000
13 x	31.8	4.00	.375	636	1272
	35.0	4.07	.447	700	1400
	40.0	4.19	.560	800	1600
	50.0	4.41	.787	1000	2000
18 x	42.7	3.95	.450	854	1708
	45.8	4.00	.500	916	1832
	51.9	4.10	.600	1160	2076
	58.0	4.20	.700	1160	2320

STANDARD I - BEAM Dimensions are in inches

SIZE	WEIGHT PER FT.	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS	WEIGHT IN POUNDS	
					20'	40'
3	5.7 2-3/8	1/4	3/16	114	228	
	7.5 2-1/2	1/4	3/8	150	300	
4	7.7 2-5/8	5/16	3/16	154		308
	9.5 2-3/4	5/16	5/16	190	380	
5	10.00	3.00	5/16	3/16	200	400
	14.75	3-1/4	5/16	1/2	295	590
6	12.5 3-3/8	3/8	1/4	250		500
	17.2 3-5/8	3/8	7/16	345	690	
7	15.3 3-5/8	3/8	1/4	306		612
	20.0 3-7/8	3/8	7/16	400	800	
8	18.4 4.00	7/16	1/4	368	736	
	23.0 4-1/8	7/16	7/16	460	920	
10	25.4 4-5/8	1/2	5/16	508	1016	
	35.0 5.00	1/2	5/8	700	1400	
12	31.8 5.00	9/16	3/8	636	1272	
	35.0 5-1/8	9/16	7/16	700	1400	
	40.8 5-1/4	11/16	7/16	816	1632	
	50.0 5-1/2	11/16	11/16	1000	2000	
15	42.9 5-1/2	5/8	7/16	858	1716	
	50.0 5-5/8	5/8	9/16	1000	2000	
18	54.7 6.00	11/16	7/16	1094		2188
	70.0 6-1/4	11/16	11/16	1400	2800	
20	66.0 6-1/4	13/16	1/2	1320	2640	
	75.0 6-3/8	13/16	5/8	1500	3000	
	86.07.00	15/16	11/16	1720	3440	
	96.0 7-1/4	15/16	13/16	1920	3840	
24	80.0 7.00	7/8	1/2	1600	3200	
	90.0 7-1/8	7/8	5/8	1800	3600	
	100.0	7-1/4	7/8	3/4	2000	4000
	106.0	7-7/8	1-1/8	5/8	2120	4240
	121.0	8.00	1-1/8	13/16	2420	4840

JUNIOR I-BEAM

SIZE	WEIGHT PER FT.	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS	WEIGHT IN POUNDS	
					20'	40'
6	4.4 1-7/8	3/16	1/8		88	176
8	6.5 2-1/4	3/16	1/8	130	260	
10	9.0 2-3/4	3/16	5/32	180	360	
12	11.8 3.00	1/4	3/16	236	472	

WIDE FLANGE BEAM

SIZE	WEIGHT PER FT.	DEPTH OF SECTION	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS
5	16.0	5.00	5.00	3/8	1/4
	19.0	5-1/8	5.00	7/16	1/4
6	9.0	5-7/8	4.00	3/16	3/16
	12.0	6.00	4.00	1/4	1/4
	15.0	6.00	6.00	1/4	1/4
	20.0	6-1/4	6.00	3/8	1/4
8	25.0	6-3/8	6-1/8	7/16	5/16
	10.0	7-7/8	4.00		3/16
3/16	13.0	8.00	4.00	1/4	1/4
	15.0	8-1/8	4.00	5/16	1/4
	18.0	8-1/8	5-1/4	5/16	1/4
	21.0	8-1/4	5-1/4	3/8	1/4
	24.0	7-7/8	6-1/2	3/8	1/4
	28.0	8.00	6-1/2	7/16	5/16
	31.0	8.00	8.00	7/16	5/16
	35.0	8-1/8	8.00	1/2	5/16
	40.0	8-1/4	8-1/8	9/16	3/8
	48.0	8-1/2	8-1/8	11/16	3/8
	58.0	8-3/4	8-1/4	13/16	1/2
67.0	9.00	8-1/4	15/16	9/16	

WIDE FLANGE BEAM

SIZE	WEIGHT PER FT.	DEPTH OF SECTION	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS	
10	12.0	9-7/8	4.00	3/16	3/16	
	15.0	10.00	4.00	1/4	1/4	
	17.0	10-1/8	4.00	5/16	1/4	
	19.0	10-1/4	4.00	3/8	1/4	
	22.0	10-1/8	5-3/4	3/8	1/4	
	26.0	10-3/8	5-3/4	7/16	1/4	
	30.0	10-1/2	5-3/4	1/2	5/16	
	33.0	9-3/4	8.00	7/16	5/16	
	39.0	9-7/8	8.00	1/2	5/16	
	45.0	10-1/8	8.00	5/8	3/8	
	49.0	10.00	10.00	9/16	5/16	
	54.0	10-1/8	10.00	5/8	3/8	
	60.0	10-1/4	10-1/8	11/6	7/16	
	68.0	10-3/8	10-1/8	3/4	1/2	
	77.0	10-5/8	10-1/4	7/8	1/2	
	88.0	10-7/8	10-1/4	1.00	5/8	
	100.0	11-1/8	10-3/8	1-1/8	11/16	
	112.0	11-3/8	10-3/8	1-1/4	3/4	
	12	14.0	11-7/8	4.00	1/4	3/16
		16.0	12.00	4.00	1/4	1/4
19.0		12-1/8	4.00	3/8	1/4	
22.0		12-1/4	4.00	7/16	1/4	
26.0		12-1/4	6-1/2	3/8	1/4	
30.0		12-3/8	6-1/2	7/16	1/4	
35.0		12-1/2	6-1/2	1/2	5/16	
40.0		12.00	8.00	1/2	5/16	
45.0		12.00	8.00	9/16	5/16	
50.0		12-1/4	8-1/8	5/8	3/8	
53.0		12.00	10.00	9/16	3/8	
58.0		12-1/4	10.00	5/8	3/8	
65.0		12-1/8	12.00	5/8	3/8	
72.0		12-1/4	12.00	11/16	7/16	
79.0		12-3/8	12-1/8	3/4	1/2	
87.0		12-1/2	12-1/8	13/16	1/2	
96.0		12-3/4	12-1/8	7/8	9/16	
106.0		12-7/8	12-1/4	1.00	5/8	
120.0		13-1/8	12-3/8	1-1/8	11/16	
136.0		13-3/8	12-3/8	1-1/4	13/16	
152.0		13-3/4	12-1/2	1-3/8	7/8	
170.0		14.00	12-5/8	1-9/16	15/16	
190.0		14-3/8	12-5/8	1-3/4	1-1/16	

WIDE FLANGE BEAM

SIZE	WEIGHT PER FT.	DEPTH OF SECTION	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS
14	22.0	13-3/4	5.00	5/16	1/4
	26.0	13-7/8	5.00	7/16	1/4
	30.0	13-7/8	6-3/4	3/8	1/4
	34.0	14.00	6-3/4	7/1	5/16
	38.0	14-1/8	6-3/4	1/2	5/16
	43.0	13-5/8	8.00	1/2	5/16
	48.0	13-3/4	8.00	5/8	5/16
	53.0	13-7/8	8.00	11/16	3/8
	61.0	13-7/8	10.00	5/8	3/8
	68.0	14.00	10.00	3/4	7/16
	74.0	14-1/8	10-1/2	13/16	7/16
	82.0	14-1/4	10-1/2	7/8	1/2
	90.0	14.00	14-1/2	11/16	7/16
	99.0	14-1/8	145/8	3/4	1/2
	109.0	14-3/8	14-5/8	3/4	1/2
	120.0	14-1/2	14-5/8	15/16	9/16
	132.0	14-5/8	14-3/8	1.00	5/8
	145.0	14-3/4	15-1/2	1-1/16	11/16
	159.0	15.00	15-5/8	1-3/16	3/4
	176.0	15-1/4	15-5/8	1-5/16	13/16
	193.0	15-1/2	15-3/4	1-7/16	7/8
	211.0	15-3/4	15-3/4	1-9/16	1.00
	233.0	16.00	15-7/8	1-3/4	1-1/16
	257.0	16-3/8	16.00	1-7/8	1-3/16
	283.0	16-3/4	16-1/8	2-1/16	1-5/16
	311.0	17-1/8	16-1/4	2-1/4	1-7/16
	342.0	17-1/2	16-3/8	2-1/2	1-9/16
	370.0	17-7/8	16-1/2	2-11/16	1-5/8
	398.0	18-1/4	16-5/8	2-7/8	1-3/4
	426.0	18-5/8	16-3/4	3-1/16	1-7/8
455.0	19.00	16-7/8	3-3/16	2.00	
500.0	19-5/8	17.00	3-1/2	2-3/16	
550.0	20-1/4	17-1/4	3-13/16	2-3/8	
605.0	20-7/8	17-3/8	4-3/16	2-5/8	
665.0	21-5/8	17-5/8	4-1/2	2-13/16	
730.0	22-3/8	17-7/8	4-15/16	3-1/16	

WIDE FLANGE BEAM

SIZE	WEIGHT PER FT.	DEPTH OF SECTION	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS
16	26.0	15-3/4	5-1/2	3/8	1/4
	31.0	15-7/8	5-1/2	7/16	1/4
	36.0	15-7/8	7.00	7/16	5/16
	40.0	16.00	7.00	1/2	5/16
	45.0	16-1/8	7.00	9/16	3/8
	50.0	16-1/4	7-1/8	5/8	3/8
	57.0	16-3/8	7-1/8	11/16	7/16
	67.0	16-3/8	10-1/4	11/16	3/8
	77.0	16-1/2	10-1/4	3/4	7/16
	89.0	16-3/4	10-3/8	7/8	1/2
	100.0	17.00	10-3/8	1.00	9/16
18	35.0	17-3/4	6.00	7/16	5/16
	40.0	17-7/8	6.00	1/2	5/16
	46.0	18.00	6.00	5/8	3/8
	50.0	18.00	7-1/2	9/16	3/8
	55.0	18-1/8	7-1/2	5/8	3/8
	60.0	18-1/4	7-1/2	11/16	7/16
	65.0	18-3/8	7-5/8	3/4	7/16
	71.0	18-1/2	7-5/8	13/16	1/2
	76.0	18-1/4	11.00	11/16	7/16
	86.0	18-3/8	11-1/8	3/4	1/2
	97.0	18-5/8	11-1/8	7/8	9/16
	106.0	18-3/4	11-1/4	15/16	9/16
	119.0	19.00	11-1/4	1-1/16	5/8
21	44.0	20-5/8	6-1/2	7/16	3/8
	50.0	20-7/8	6-1/2	9/16	3/8
	57.0	21.00	6-1/2	5/8	3/8
	62.0	21.00	8-1/4	5/8	3/8
	68.0	21-1/8	8-1/4	11/16	7/16
	73.0	21-1/4	8-1/4	3/4	7/16
	83.0	2-3/8	8-3/8	13/16	1/2
	93.0	21-5/8	8-3/8	15/16	9/16
	101.0	21-3/8	12-1/4	13/16	1/2
	111.0	21-1/2	12-3/8	7/8	9/16
	122.0	21-5/8	12-3/8	15/16	5/8
	132.0	21-7/8	12-1/2	1-1/6	5/8
	147.0	22.00	12-1/2	1-1/8	3/4

WIDE FLANGE BEAM

SIZE	WEIGHT PER FT.	DEPTH OF SECTION	FLANGE WIDTH	FLANGE THICKNESS	WEB THICKNESS
24	55.0	23-5/8	7.00	1/2	3/8
	62.0	23-3/4	7.00	9/16	7/16
	68.0	23-3/4	9.00	9/16	7/16
	76.0	23-7/8	9.00	11/16	7/16
	84.0	24-1/8	9.00	3/4	1/2
	94.0	24-1/4	9-1/8	7/8	1/2
	104.0	24.00	12-3/4	3/4	1/2
	117.0	24-1/4	12-3/4	7/8	9/16
	131.0	24-1/2	12-7/8	15/16	5/8
	146.0	24-3/4	12-7/8	1-1/16	5/8
	162.0	25.00	13.00	1-1/4	11/16
26	84.0	26-3/4	10.00	5/8	7/16
	94.0	26-7/8	10.00	3/4	1/2
	102.0	27-1/8	10.00	13/16	1/2
	114.0	27-1/4	10-1/8	15/16	9/16
	146.0	27-3/8	14.00	1.00	5/8
	161.0	27-5/8	14.00	1-1/16	11/16
	178.0	27-3/4	14-1/8	1-3/16	3/4
	199.0	29-5/8	10-1/2	11/16	1/2
30	108.0	29-7/8	10-1/2	3/4	9/16
	116.0	30.00	10-1/2	7/8	9/16
	124.0	30-1/8	10-1/2	15/16	9/16
	132.0	30-1/4	10-1/2	1.00	5/8
	173.0	30-1/2	15.00	1-1/16	5/8
	191.0	30-5/8	15.00	1-3/16	11/16
	211.0	31.00	15-1/8	1-5/16	3/4
	118.0	32-7/8	11-1/2	3/4	9/16
33	130.0	33-1/8	11-1/2	7/8	9/16
	141.0	33-1/4	11-1/2	15/16	5/8
	152.0	33-1/2	11-5/8	1-1/16	5/8
	201.0	33-5/8	15-3/4	1-1/8	11/16
	221.0	33-7/8	15-3/4	1-1/4	3/4
	241.0	34-1/8	15-7/8	1-3/8	13/16
	135.0	35-1/2	12.00	13/16	5/8
36	150.0	35-7/8	12.00	15/16	5/8
	160.0	36.00	12.00	1.00	5/8
	170.0	36-1/8	12.00	1-1/8	11/16
	182.0	36-3/8	12-1/8	1-3/16	3/4
	194.0	36-1/2	12-1/8	1-1/4	3/4
	210.0	36-3/4	12-1/8	1-3/8	13/16
	230.0	35-7/8	16-1/2	1-1/4	3/4
	245.0	36-1/8	16-1/2	1-3/8	13/16
	260.0	36-1/4	16-1/2	1-7/16	13/16
	280.0	36-1/2	16-5/8	1-9/16	7/8
	300.0	36-3/4	16-5/8	1-11/16	15/16

UNIVERSAL MILL PLATE

STOCK LENGTH 20'

SIZE IN INCHES	<u>WEIGHT IN POUNDS</u>	
	PER FOOT	PER 20'
1/4 x		
9	7.6572	153.14
10	8.5080	170.16
12	10.2096	204.19
5/16 x		
9	9.5715	191.43
10	10.6350	212.70
12	12.7620	255.24
3/8 x		
9	11.4858	229.72
10	12.7620	255.24
12	15.3144	306.29
1/2 x		
9	15.3144	306.29
10	17.0160	340.32
12	20.4192	408.38
5/8 x		
9	19.1430	382.86
10	21.2700	425.40
12	25.5240	510.48
3/4 x		
9	22.9716	459.43
10	25.5240	510.48
12	30.6288	612.57
1 x		
9	30.6288	612.57
10	34.0320	680.64
12	40.8384	816.77
1-1/4 x		
10	42.5400	850.80
12	51.0480	1020.96
1-1/2 x		
10	51.0480	1020.96
12	61.2576	1225.15

HOT ROLLED PLATE

<u>SIZE</u>		<u>WEIGHT PER PLATE</u>	<u>SIZE</u>		<u>WEIGHT PER PLATE</u>
3/16		7.6579 # / Sq. Ft.	1/4		10.2096# / Sq. Ft.
48 x	96	245.05	84 x	96	571.74
	120	306.32		120	714.67
	144	367.58		144	857.61
	240	612.63		240	1429.34
60 x	96	306.32	96 x	120	816.77
	120	382.90		144	980.12
	144	459.47		240	1633.54
	240	765.79			
	360	1148.69			
72 x	96	367.58	5/16		12.7627 # / Sq. Ft.
	120	459.47	48 x	96	408.41
	144	551.37		120	510.51
	240	918.95		144	612.61
84 x	96	428.84		240	1021.02
	120	536.05	60 x	96	510.51
	144	643.26		120	638.14
96 x	120	612.63		144	756.76
	144	735.16		240	1276.27
	240	1225.26		360	1914.41
1/4		10.2096 # / Sq. Ft.	72 x	96	612.61
48 x	96	326.71		120	765.76
	120	408.38		144	918.92
	144	490.06		240	1531.53
	240	816.77	84 x	96	714.71
60 x	96	408.38		120	893.39
	120	510.48		144	1072.07
	144	612.58		240	1786.78
	240	1020.96	96 x	120	1021.02
72 x	96	490.06		144	1225.22
	120	612.58		240	2042.04
144		735.09			
		240			
		1225.15			

HOT ROLLED PLATE

<u>SIZE</u>	<u>WEIGHT PER PLATE</u>		<u>SIZE</u>	<u>WEIGHT PER PLATE</u>	
3/8	15.3144 # / Sq. Ft.		1/2	20.4192 # / Sq. Ft.	
48 x	96	490.06	72 x	96	980.12
	120	612.58		120	1225.15
	144	735.09		144	1470.18
	240	1225.15		240	2450.30
60 x	96	612.58	84 x	96	1143.48
	120	765.72		120	1429.34
	144	918.82		144	1715.21
	240	1531.44		240	2858.69
	360	2297.16			
72 x	96	735.09	96 x	120	1633.54
	120	918.86		144	1960.25
	144	1102.64		240	3267.07
	240	1837.73			
84 x	96	857.61	9/16	22.9723# / Sq. Ft.	
	120	1072.01			
	144	1286.41	5/8	25.5240 # / Sq. Ft.	
	240	2144.02			
96 x	120	1225.15	48 x	96	816.77
	144	1470.18		120	1020.96
	240	2450.30			
			60 x	120	1276.20
				240	2552.40
7/16	17.8675 # / Sq. Ft.		72 x	120	1531.44
				240	3062.88
			84 x	120	1786.68
				240	3573.36
1/2	20.4192 # / Sq. Ft.		96 x	120	2041.92
				240	4083.84
48 x	96	653.41	11/16	28.0771# / Sq. Ft.	
	120	816.77			
	144	980.12	3/4	30.6288 # / Sq. Ft.	
	240	1633.44			
60 x	96	816.77	48 x	96	980.12
	120	1020.96		120	1225.15
	144	1225.15		144	1470.18
	240	2041.92		240	2450.30
	360	3062.88			

HOT ROLLED PLATE

<u>SIZE</u>	<u>WEIGHT PER PLATE</u>		<u>SIZE</u>	<u>WEIGHT PER PLATE</u>	
3/4	30.6288 # / Sq. Ft.		1	40.8384 # / Sq. Ft.	
60 x	96	980.12	48 x	96	1306.83
	120	1531.44		120	1633.54
	144	1837.73		144	1960.24
	240	3062.88		240	3267.08
	360	4594.32			
72 x	96	1470.18	60 x	96	1633.54
	120	1837.73		120	2041.92
	144	2205.27		144	1960.24
	240	3675.46		240	4083.84
84 x	96	1715.22	72 x	96	1960.24
	120	2144.02		120	2450.30
	144	2572.82		144	2940.36
	240	4288.03		240	4900.61
			1-1/8	45.9432 # / Sq. Ft.	
			1-3/16	48.4956 # / Sq. Ft.	
13/16	33.1819 # / Sq. Ft.		1-1/4	51.04080 # / Sq. ft.	
7/8	35.7336 # / Sq. Ft.		48 x	96	1633.53
				120	2041.92
48 x	96	1143.48			
	120	1429.35	60 x	120	2552.40
	144	1715.21		240	5104.80
	240	2858.69	72 x	120	3062.88
60 x	96	1429.34		240	6125.76
	120	1786.68	84 x	120	3573.36
	144	2144.02		240	7146.72
	240	3573.36	96 x	120	4083.44
72 x	120	2144.02		240	8167.68
	240	4288.03	1-3/8	56.1528 # / Sq. Ft.	
84 x	120	2501.35			
	240	5002.70	15/16	38.2867 # / Sq. Ft.	

HOT ROLLED PLATE

<u>SIZE</u>	<u>WEIGHT PER PLATE</u>		<u>SIZE</u>	<u>WEIGHT PER PLATE</u>	
1-1/2	61.2576 # / Sq. Ft.		2	81.6768 # / Sq. Ft.	
48 x	96	1960.24	48 x	96	2613.66
	120	2450.30		120	3267.07
60 x	120	3062.88	60 x	120	4083.84
	240	6125.76		240	8167.68
72 x	120	3675.45	72 x	120	4900.61
	240	7350.91		240	9801.22
84 x	120	4288.03	84 x	120	5717.37
	240	8576.06		240	11434.75
96 x	120	4900.60	96 x	120	6534.14
	240	8576.06		240	13068.29
1-5/8	66.3624 # / Sq. Ft.		2-1/4	91.8864 # / Sq. Ft.	
1-3/4	71.4672 # / Sq. Ft.		2-3/8	96.9912 # / Sq. Ft.	
48 x	96	2286.95	2-1/2	102.0960 # / Sq. Ft.	
	120	2858.68	2-3/4	112.30563 / Sq. Ft.	
60 x	120	3573.36	3	122.5152 # / Sq. Ft.	
	240	7146.72	4	163.3536 # / Sq. Ft.	
72 x	120	4288.03	5	204.1920 # / Sq. Ft.	
	240	8576.06	6	245.0304 # / Sq. Ft.	
84 x	120	5002.70			
	240	10005.41			
96 x	120	5717.37			
	240	11434.75			
1-7/8	76.5720 # / Sq. Ft.				

Inquire for other sizes

DIAMOND FLOOR PLATE

<u>SIZE</u>	<u>WEIGHT PER PLATE</u>		<u>SIZE</u>	<u>WEIGHT PER PLATE</u>	
16 Ga.	3.00 # / Sq. Ft.		1/4 Inch	11.26 # / Sq. Ft.	
36 x	96	72.0	48 x	96	360.3
	120	90.0		120	450.4
	144	108.0		240	900.8
48 x	96	96.0		288	1081.0
	120	120.0	60 x	120	563.0
	192	192.0		240	1126.0
	240	240.0		288	1351.2
14 Ga.	3.75 # / Sq. Ft.		72 x	240	1351.2
48 x	96	120.0		288	1621.4
	120	150.0	96 x	240	1801.6
	192	240.0		288	2161.9
	240	300.0	5/16 Inch	13.81 # / Sq. Ft.	
12 Ga.	3.75 # / Sq. Ft.		48 x	96	441.9
48 x	96	168.0		120	552.4
	120	210.0		240	1104.8
	192	336.0		288	1325.8
	240	420.0	60 x	120	690.5
60 x	120	262.5		240	1381.0
	240	525.0		288	1657.2
1/8 Inch	6.15 # / Sq. Ft.		3/8 Inch	16.37 # / Sq. Ft.	
36 x	120	184.5	48 x	96	523.8
48 x	96	196.8		120	654.8
	120	246.0		240	1309.6
	240	492.0		288	1571.5
	288	590.4	60 x	240	1637.0
60 x	120	307.5		288	1964.4
	240	615.0	72 x	240	1964.4
	288	710.4		288	2357.3
72 x	240	738.0	96 x	240	2619.2
	288	885.6		288	3143.0
3/6 Inch	8.71 # / Sq. Ft.		1/2 Inch	21.47 # / Sq. Ft.	
48 x	96	278.7	48 x	96	687.0
	120	348.4		120	858.8
	240	696.8		240	1717.6
	288	836.2		288	2061.1
60 x	96	348.4	60 x	240	2147.0
	120	435.5		288	2576.4
	240	871.0	72 x	240	2576.4
	288	1045.2		288	3091.7
72 x	240	1045.2	96 x	240	3435.2
	288	1254.2		288	4122.2
84 x	240	1219.4			
	288	1463.3			

HOT ROLLED SHEET

<u>SIZE</u>	<u>WEIGHT PER PLATE</u>		<u>SIZE</u>	<u>WEIGHT PER PLATE</u>	
10 Ga. (.1345")	5.625 # / Sq. Ft.		12 Ga. (.1046")	4.375 # / Sq. Ft.	
48 x 96	180.0		48 x 96	140.0	
	120	225.0		120	175.0
	144	270.0		144	210.0
	240	450.0		240	350.0
60 x 96	225.0		60 x 96	175.0	
	120	281.3		120	218.0
	144	337.5		144	262.5
	240	562.5		240	437.5
72 x 96	270.0		72 x 96	210.0	
	120	337.5		120	262.5
	144	405.0		144	315.0
	240	785.5		240	525.0
84 x 120	393.8		14 Ga. (.0747")	3.125 # / Sq. Ft.	
	144	472.5	48 x 96	100.0	
	240	787.5		120	125.0
11 Ga. (.1196")	5.0 # / Sq. Ft.			144	150.0
48 x 96	160.0			240	250.0
	120	200.0	60 x 96	125.0	
	144	240.0		120	156.3
	240	400.0		144	187.5
60 x 96	200.0		16 Ga. (.0598")	2.5 # / Sq. Ft.	
	120	250.0	48 x 96	80.0	
	144	300.0		120	100.0
	240	500.0		144	120.0
72 x 96	240.0		60 x 96	100.0	
	120	300.0		120	125.0
	144	360.0		144	150.0
	240	600.0			

COLD ROLLED SHEET

<u>SIZE</u>	<u>WEIGHT PER PLATE</u>		<u>SIZE</u>	<u>WEIGHT PER PLATE</u>	
16 Ga. (.0598")	2.50 # / Sq. Ft.		20 Ga.	48 x 96	48.0
48 x 96	80.0			120	60.0
	120	100.0		144	72.0
	144	120.0	22 Ga. (.0299")	1.25# / Sq. Ft.	
60 x 96	100.0		36 x 96	30.0	
	120	125.0		120	37.5
18 Ga. (.0478")	2.00 # Sq. Ft.		48 x 96	40.0	
48 x 96	64.0			120	50.0
	120	80.0	24 Ga. (.0239")	1.00 # / Sq. Ft.	
	144	96.0	36 x 96	24.0	
20 Ga. (.0359")	1.50 # / Sq. Ft.			120	30.0
36 x 96	36.0		48 x 96	32.0	
	120	45.0		120	40.0

GALVANIZED SHEET

<u>SIZE</u>	<u>WEIGHT PER PLATE</u>		<u>SIZE</u>	<u>WEIGHT PER PLATE</u>	
10 Ga. (.138")	5.786 # / Sq. Ft.		20 Ga. (.040")	1.658 # / Sq. Ft.	
36 x 96	138.86		36 x 96	39.79	
	120	173.58		120	49.74
48 x 96	185.15		48 x 96	53.06	
	120	231.44		120	66.32
12 Ga. (.109")	4.535 # / Sq. Ft.		22 Ga. (.034")	1.407 # / Sq. Ft.	
36 x 96	108.84		36 x 96	33.77	
	120	136.05		120	42.21
48 x 96	145.12		48 x 96	96	
	120	181.40	45.02		
14 Ga. (.079")	3.284 # / Sq. Ft.		24 Ga. (.028")	1.157 # / Sq. Ft.	
36 x 96	78.82		36 x 96	27.77	
	120	98.52		120	34.71
48 x 96	105.09		48x 96	37.02	
	120	131.36		120	46.28
16 Ga. (.064")	2.658 # / Sq. Ft.		26 Ga. (.022")	.907 # / Sq. Ft.	
36 x 96	63.79		36 x 96	21.77	
	120	79.74		120	27.21
48 x 96	85.06		48 x 96	29.02	
	120	106.32		120	36.28
	144	127.58	28 Ga. (.019")	.782 # / Sq. Ft.	
18 Ga. (.052")	2.150 # / Sq. Ft.		36 x 96	18.77	
36 x96	51.79			120	23.46
	120	64.74	30 Ga. (.016")	.657 # / Sq. Ft.	
48 x96	69.06		36 x 96	15.77	
	120	86.32		120	19.71

EXPANDED METAL (RAISED MESH) CARBON STEEL*

Style Designation	Stock Sizes*	Center to Center of Bonds, Inch.		Thickness of Strand	Weight in Pounds	
		Width	Length		Per Sq. Ft. /	Per Sheet
3/16 - 24	48 x 96	.200	.50	.024	.50	16.00
3/16 - 20	48 x 96	.200	.50	.036	.75	24.00
1/4 - 20	48 x 96	.255	1.00	.036	.86	27.52
1/4 - 18	48 x 96	.255	1.00	.048	1.14	36.48
1/2 - 20	48 x 96	.500	1.20	.036	.43	13.76
1/2 - 18	48 x 96	.500	1.20	.048	.70	22.40
1/2 - 16	48 x 96	.500	1.20	.060	.86	27.52
1/2 - 13	48 x 96	.500	1.20	.092	1.47	47.04
3/4 - 16	48 x 96	.923	2.00	.060	.54	17.28
3/4 - 13	48 x 96	.923	2.00	.092	.80	25.60
3/4 - 10	48 x 96	.923	2.00	.092	1.20	38.40
3/4 - 9	48 x 96	.923	2.00	.134	1.80	57.60
3/4 - 9	48 x 120	.923	2.00	.134	1.80	72.00
1 - 16	48 x 96	1.09	2.40	.060	.44	14.08
1-1/2 - 18	48 x 96	1.33	3.00	.048	.20	6.400
1-1/2 - 16	48 x 96	1.33	3.00	.060	.40	12.80
1-1/2 - 13	48 x 96	1.33	3.00	.092	.60	19.20
1-1/2 - 10	48 x 96	1.33	3.00	.092	.79	25.28
1-1/2 - 9	48 x 96	1.33	3.00	.134	1.20	38.40
1-1/2 - 6	48 x 96	1.33	3.00	.198	2.50	80.00
2 - 10	48 x 96	1.850	4.00	.092	.90	28.80
2 - 9	48 x 96	1.850	4.00	.134	.90	28.80

Style Designation Key: First number is the width of the bond.
Second number is the gauge of steel.

*Most common sizes are reflected above. Call for other sizes.

**Also available in Aluminum and Stainless Steel.
Contact your sales representative for styles, prices and available sizes.*

EXPANDED METAL (FLATTENED MESH)

Style Designation	Stock Size	Center to Center of Bonds, Inch.		Thickness of Strand	Weight in Pounds	
		Width	Length		Per Sq. Ft. /	Per Sheet
3/16 - 24	48 x 96	.200	.52	.019	.48	15.36
3/16 - 22	48 x 96	.200	.52	.024	.60	19.20
3/16 - 20	48 x 96	.200	.52	.029	.72	23.04
1/4 - 20	48 x 96	.255	1.03	.030	.83	26.56
1/4 - 18	48 x 96	.255	1.03	.040	1.11	35.52
1/2 - 20	48 x 96	.500	1.26	.029	.40	12.80
1/2 - 18	48 x 96	.500	1.26	.039	.66	21.12
1/2 - 16	48 x 96	.500	1.26	.050	.82	26.24
1/2 - 13	48 x 96	.500	1.26	.070	1.40	44.80
3/4 - 16	48 x 96	.923	2.10	.048	.51	16.32
3/4 - 14	48 x 96	.923	2.10	.061	.63	20.16
3/4 - 13	48 x 96	.923	2.10	.070	.75	24.00
3/4 - 9	48 x 96	.923	2.12	.120	1.71	54.72
3/4 - 9	48 x 120	.923	2.12	.120	1.71	68.40
3/4 - 9	48 x 144	.923	2.12	.120	1.71	82.08
1 - 16	48 x 96	1.09	2.56	.048	.41	13.12
1-1/2 - 13	48 x 96	1.33	3.20	.070	.57	18.24
1-1/2 - 9	48 x 96	1.33	3.20	.110	1.11	35.52

***EXPANDED METAL GRATING (Raised)**

Style Designation	Stock Size	Center to Center of Bonds, Inch.		Weight in Pounds	
		Width	Length	Per Sq. Ft. /	Per Sheet
3.0 lb. Catwalk	120 x 24	1.33	5.33	3.00	60.00
3.0 lb. Grating	48 x 96	1.33	5.33	3.00	96.00
3.0 lb. Grating	48 x 120	1.33	5.33	3.00	120.00
3.14 lb. Skywalk	48 x 96	2.00	6.00	3.14	100.48
3.14 lb. Skywalk	48 x 120	2.00	6.00	3.14	125.60
4.0 lb. Grating	48 x 96	1.33	5.33	4.00	128.00
4.0 lb. Grating	48 x 120	1.33	5.33	4.00	160.00
4.27 lb. Walkway	48 x 96	1.41	4.00	4.27	136.64
5.0 lb. Grating	48 x 96	1.33	5.33	5.00	160.00
5.0 lb. Grating	48 x 120	1.33	5.33	5.00	200.00
6.25 lb. Grating	48 x 96	1.41	5.33	6.25	200.00

* Call for information on other sizes and for Flattened Grating prices and sizes.

Plain Ends **A.S.A. BLACK STEEL**

21' Std. Lengths

Plain Ends **A.S.A. BLACK STEEL**

21' Std. Lengths

*PIPE SIZE	**O.D. (INCHES)	***A.S.A	WALL THICKNESS	I.D. (INCHES)	WEIGHT PER FOOT
1/8	.405	40	.068	.269	.244
		80	.095	.215	.314
1/4	.540	40		.088	.364
		80			
3/8	.675	40	.091	.493	.567
		80	.126	.423	.738
1/2	.840	40	.109	.622	.851
		80	.147	.546	1.088
		160	.187	.466	1.304
		XXH	.294	.252	1.714
3/4	1.050	40	.113	.824	1.131
		80	.154	.742	1.474
		160	.218	.614	1.937
		XXH	.308	.434	2.441
1	1.315	40	.133	1.049	1.679
		80	.179	.957	2.172
		160	.250	.815	2.844
		XXH	.358	.599	3.659
1-1/4	1.660	40	.140	1.380	2.273
		80	.191	1.278	2.997
		160	.250	1.160	3.765
		XXH	.382	.896	5.214
1-1/2	1.900	40	.145	1.610	2.718
		80	.200	1.500	3.631
		160	.281	1.338	4.859
		XXH	.400	1.100	6.408
2	2.375	40	.154	2.067	3.653
		80	.218	1.939	5.022
		160	.343	1.689	7.444
		XXH	.436	1.503	9.029
2-1/2	2.875	40	.203	2.469	5.793
		80	.276	2.323	7.661
		160	.375	2.125	10.010
		XXH	.552	1.771	13.690

*PIPE SIZE	**O.D. (INCHES)	***A.S.A	WALL THICKNESS	I.D. (INCHES)	WEIGHT PER FOOT
3	3.500	40	.216	3.068	7.576
		80	.300	2.900	10.250
		160	.438	2.624	14.320
		XXH	.600	2.300	18.580
3-1/2	4.000	40	.226	3.548	9.109
		80	.318	3.364	12.510
		XXH	.636	2.728	22.850
4	4.500	40	.237	4.026	10.790
		80	.337	3.826	14.980
		120	.438	3.624	19.000
		160	.531	3.438	22.510
		XXH	.674	3.152	27.540
5	5.563	40	.258	5.047	14.620
		80	.375	4.813	20.780
		120	.500	4.563	27.040
		160	.625	4.313	32.960
		XXH	.750	4.063	38.550
6	6.625	40	.280	6.056	18.97
		80	.432	5.761	28.57
		120	.562	5.501	36.39
		160	.718	5.189	45.30
		XXH	.864	4.897	53.16
8	8.625	20	.250	8.125	22.36
		30	.277	8.071	24.70
		40	.322	7.981	28.55
		60	.406	7.813	35.64
		80	.500	7.625	43.39
		100	.593	7.439	50.87
		120	.718	7.189	60.63
		140	.812	7.001	67.76
10	10.750	XXH	.875	6.875	72.42
		160	.906	6.813	74.69
		20	.250	10.250	28.04
		40	.365	10.020	40.48
		60	.500	9.750	54.74
80	.593	9.564	64.33		
100	.718	9.314	76.93		
120	.843	9.064	89.20		
140	1.000	8.750	104.10		
160	1.125	8.500	115.70		

* Nominal Pipe Size / I.P.S. (Iron Pipe Size)
 ** Actual Outside Diameter (Nearest Fractional Dimension)
 *** STD. - Std. Weight, XH - Extra Heavy, XXH - Double Extra Heavy
 Contact your sales representative for threaded and coupled pipe options.

*PIPE SIZE	**O.D. (INCHES)	***A.S.A	WALL THICKNESS	I.D. (INCHES)	WEIGHT PER FOOT
12	12.750	20	.250	12.250	33.38
		30	.330	12.090	3.77
		STD.	.375	12.000	49.56
		40	.406	11.938	53.53
		XH	.500	11.750	65.42
		60	.562	11.626	73.16
		80	.687	11.376	88.51
		100	.843	11.064	107.20
		120	1.000	10.750	125.50
		140	1.125	10.500	139.70
		160	1.312	10.126	160.30
14	14.000	10	.250	13.500	36.71
		20	.312	13.376	45.68
		30	.375	13.250	54.57
		40	.437	13.126	63.37
		XH	.500	13.000	72.09
		60	.593	12.814	84.91
		80	.750	12.500	106.10
		100	.937	12.126	130.70
		120	1.093	11.814	150.70
		140	1.250	11.500	170.20
		160	1.406	11.188	189.10
16	16.000	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	107.50
		80	.843	14.314	136.50
		100	1.031	13.938	164.80
		120	1.218	13.564	192.30
		140	1.437	13.126	223.50
		160	1.593	12.814	245.10
		18	18.000	10	.250
STD.	.375			17.250	70.59
XH	.500			17.000	93.45
40	.562			16.876	104.80
60	.750			16.500	138.20
80	.937			16.126	170.80
100	1.156			15.688	208.00
120	1.375			15.250	244.10
140	1.562			14.876	274.20
160	1.781			14.438	308.50

SIZE O.D. & WALL THICKNESS	WEIGHT PER FOOT	SIZE O.D. & WALL THICKNESS	WEIGHT PER FOOT
3/8 x .049	.17	2-1/2 x .065	1.69
1/2 x .049	.22	.083	2.14
.065	.30	.095	2.44
5/8 x .049	.28	.120	3.05
.065	.39	3 x .065	2.04
3/4 x .049	.37	.083	2.59
.065	48	.109	3.37
.083	.59	.134	4.40
7/8 x .049	.43	3-1/2 x .065	2.39
.065	.56	.083	2.90
.083	.70	.109	4.00
1 x .049	.50	.134	5.10
.065	.65	4 x .065	2.73
.083	.81	.083	3.20
.095	.918	.109	4.50
.120	1.13	.134	5.70
1-1/4 x .049	.63	4-1/2 x .083	3.60
.065	.82	.109	5.09
.083	1.03	.134	6.40
.095	1.17	.188	8.70
.120	1.45	5 x .065	3.43
1-1/2 x .049	.76	.083	4.20
.065	1.00	.109	5.70
.083	1.26	.134	7.30
.095	1.43	.188	9.66
.120	1.77	6 x .083	4.90
1-3/4 x .065	1.17	.109	6.70
.083	1.48	.134	8.60
.095	1.68	.188	12.10
.120	2.09	8 x .083	6.50
2 x .049	1.02	.109	9.00
.065	1.34	.134	11.60
.083	1.70	.188	16.10
.095	1.93	10 x .109	11.34
.120	2.41	.134	14.50
2-1/4 x .049	1.15	.188	20.20
.065	1.52	12 x .109	13.60
.083	1.92	.134	17.50
.120	2.73	.188	24.30

Contact your sales representative for information and pricing on Round Mechanical Tubing: CDS (Cold Drawn Seamless) & DOM (Drawn Over Mandrell)

SQUARE TUBING Standard 20' Lengths

Size in Inches	Wall Thickness	<u>Weight In Pounds</u>		Size in Inches	Wall Thickness	<u>Weight In Pounds</u>	
		Per Foot	Per 20'			Per Foot	Per 20'
3/8 x 3/8	.049	.22	4.40	1-3/4 x 1-3/4	.065	1.49	29.80
	.065	.35	7.00		.083	1.88	37.60
1/2 x 1/2	.049	.28	5.60	2 x 2	.095	2.14	42.80
	.065	.35	7.00		.109	2.43	48.60
5/8 x 5/8	.049	.36	7.20	2 x 2	.120	2.66	53.20
	.065	.46	9.20		.065	1.67	33.40
3/4 x 3/4	.072	.54	10.80	2 x 2	.072	1.89	37.80
	.083	.61	12.20		.083	2.16	43.20
3/4 x 3/4	.049	.45	9.00	2-1/4 x 2-1/4	.095	2.46	49.20
	.065	.63	12.60		.109	2.80	56.00
7/8 x 7/8	.072	.66	13.20	2-1/4 x 2-1/4	.120	3.07	61.40
	.083	.75	15.0		.188	4.32	86.40
7/8 x 7/8	.095	.84	16.80	2-1/4 x 2-1/4	.250	5.41	108.20
	.120	1.03	20.60		.109	3.17	63.40
7/8 x 7/8	.049	.52	10.40	2-1/4 x 2-1/4	.120	3.48	69.60
	.065	.68	13.60		.188	5.07	101.40
1 x 1	.072	.79	15.80	2-1/2 x 2-1/2	.250	7.01	140.20
	.083	.89	17.80		.083	2.73	54.60
1 x 1	.095	.98	19.60	2-1/2 x 2-1/2	.095	3.03	60.60
	.120	1.23	24.60		.109	3.54	70.80
1 x 1	.049	.63	12.60	3 x 3	.120	3.84	76.80
	.065	.83	16.60		.188	5.59	111.80
1-1/4 x 1-1/4	.072	.91	18.20	3 x 3	.250	7.11	142.20
	.083	1.04	20.80		.095	3.67	73.40
1-1/4 x 1-1/4	.095	1.17	23.40	3-1/2 x 3-1/2	.109	4.29	85.80
	.109	1.32	26.40		.120	4.70	94.00
1-1/4 x 1-1/4	.120	1.44	28.80	3-1/2 x 3-1/2	.188	6.87	137.40
	.049	.78	15.60		.250	8.81	176.20
1-1/2 x 1-1/2	.065	1.01	20.20	3-1/2 x 3-1/2	.313	11.08	221.60
	.072	1.15	23.00		.375	11.74	234.80
1-1/2 x 1-1/2	.083	1.32	26.40	3-1/2 x 3-1/2	.120	5.52	110.40
	.095	1.49	29.80		.188	8.30	166.00
1-1/2 x 1-1/2	.109	1.69	33.80	4 x 4	.250	10.81	216.20
	.120	1.84	36.80		.313	13.19	263.80
1-1/2 x 1-1/2	.188	2.75	55.00	4 x 4	.375	15.94	318.80
	.049	.91	18.20		.083	4.42	88.40
1-1/2 x 1-1/2	.065	1.23	24.60	4 x 4	.095	4.97	99.40
	.072	1.39	27.80		.120	6.33	132.60
1-1/2 x 1-1/2	.083	1.60	32.00	4 x 4	.188	8.15	163.00
	.095	1.82	36.40		.250	12.21	244.20
1-1/2 x 1-1/2	.109	2.06	41.20	4 x 4	.313	14.83	296.60
	.120	2.25	45.00		.375	17.27	345.40
1-1/2 x 1-1/2	.188	3.54	70.80	4 x 4	.500	21.63	432.60
	.250	4.11	82.20				

SQUARE TUBING Standard 20' Lengths

Size in Inches	Wall Thickness	<u>Weight In Pounds</u>		Size in Inches	Wall Thickness	<u>Weight In Pounds</u>	
		Per Foot	Per 20'			Per Foot	Per 20'
4-1/2 x 4-1/2	.188	10.70	214.00	8 x 8	.188	19.63	392.60
	.250	13.91	278.20		.250	25.82	516.40
5 x 5	.120	8.20	164.00	8 x 8	.313	31.84	636.80
	.188	11.97	239.40		.375	37.69	753.80
5 x 5	.250	15.62	312.40	8 x 8	.500	48.48	969.60
	.313	19.08	381.60		.625	59.32	1186.40
5 x 5	.375	22.37	447.40	10 x 10	.188	24.73	494.60
	.500	28.43	568.60		.250	32.63	652.60
6 x 6	.188	14.53	290.60	10 x 10	.313	40.35	807.00
	.250	19.02	380.40		.375	47.90	958.00
6 x 6	.313	23.34	466.80	10 x 10	.500	62.46	1249.20
	.375	27.48	549.60		.625	76.33	1526.60
6 x 6	.500	35.24	704.80	12 x 12	.250	39.43	788.60
	651.60				.313	48.86	977.20
7 x 7	.188	17.08	341.60	12 x 12	.375	58.10	1162.00
	.250	22.42	448.40		.500	76.07	1521.40
7 x 7	.313	27.59	551.80	14 x 14	.313	57.36	1147.20
	.375	32.58			.375	68.31	1366.20
				.500	89.68	1793.60	

RECTANGULAR TUBING Standard 20' Lengths

Size in Inches	Wall Thickness	<u>Weight In Pounds</u>		Size in Inches	Wall Thickness	<u>Weight In Pounds</u>	
		Per Foot	Per 20'			Per Foot	Per 20'
1 x 1/2	.049	.45	9.00	2 x 1-1/4	.065	1.38	27.60
	.065	.63	12.60		.072	1.50	30.00
1 x 3/4	.065	.72	14.40	2 x 1-1/4	.083	1.74	34.80
	1-1/2 x 3/4	.049	.72		.095	1.98	39.60
1-1/2 x 3/4	.065	.94	18.80	2 x 1-1/2	.109	2.25	45.00
	.072	1.03	20.60		.120	2.46	49.20
1-1/2 x 3/4	.083	1.18	23.60	2 x 1-1/2	.065	1.49	29.80
	.095	1.33	26.60		.072	1.64	32.80
1-1/2 x 3/4	.109	1.51	30.20	2 x 1-1/2	.083	1.88	37.60
	.120	1.64	32.80		.095	2.14	42.80
2 x 1	.049	.91	18.20	2 x 1-1/2	.109	2.43	48.60
	.065	1.23	24.60		.120	2.66	53.20
2 x 1	.072	1.39	27.80	2-1/2 x 1	.065	1.49	29.80
	.083	1.60	32.00		.072	1.64	32.80
2 x 1	.095	1.82	36.40	2-1/2 x 1	.083	1.88	37.60
	.109	2.06	41.20		.095	2.14	42.80
2 x 1	.120	2.25	45.00	2-1/2 x 1	.109	2.43	48.60
					.120	2.66	53.20

RECTANGULAR TUBING

Standard 20' Lengths

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>					
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar				
3 x 1	.065	1.87	37.40	4 x 3	.065	3.04	60.80		
	.095	1.89	37.80		.072	3.36	67.20		
	.083	2.16	43.20		.083	3.86	77.20		
	.095	2.46	49.20		.095	4.40	88.00		
	.109	2.80	56.00		.120	5.52	110.40		
	.120	3.07	61.40		.188	6.87	137.40		
	.188	4.49	89.80		.250	10.51	210.20		
	3 x 1-1/2	.065	1.93		38.60	5 x 2	.065	3.04	60.80
		.072	2.19		43.80		.083	3.86	77.20
		.083	2.45		49.00		.120	5.52	110.40
.095		2.78	55.60	.188	8.15		163.00		
.109		3.17	63.40	.250	10.51		210.20		
.120		3.48	69.60	.313	13.19		263.80		
.188		5.07	101.40	5 x 3	.083		4.42	88.40	
3 x 2		.065	1.99		39.80		.120	6.33	126.60
	.072	2.38	47.60		.188	9.42	188.40		
	.083	2.73	54.60		.250	12.21	244.20		
	.095	3.03	60.60		.313	14.83	296.60		
	.109	3.54	70.80		.375	17.27	345.40		
	.120	3.84	76.80		.500	21.63	432.60		
	.188	5.59	111.80		5 x 4	.188	10.70	214.00	
	.250	7.11	142.20	.250		13.91	278.20		
3 x 2-1/2	.065	1.99	39.80	.313		17.44	348.80		
	.083	2.73	54.60	.375		20.57	411.40		
	.120	3.84	76.80	6 x 2		.120	6.33	126.60	
	.188	5.75	115.00			.188	9.42	188.40	
	.250	7.41	148.20			.250	12.21	244.20	
	3-1/2 x 2-1/2	.095	3.67			73.40	.313	15.33	306.60
.120		4.70	94.00		.375	18.02	360.40		
.188		7.04	140.80		6 x 3	.120	7.15	143.00	
.250		9.11	182.20	.188		10.70	214.00		
4 x 1-1/2		.083	3.01	60.20		.250	13.91	278.20	
		.120	4.29	85.80		.313	17.44	348.80	
	4 x 2	.188	6.29	125.80		.375	20.57	411.40	
		.065	2.59	51.80		6 x 4	.188	11.97	239.40
		.072	2.87	57.40	.250		15.62	312.40	
		.083	3.29	65.80	.313		19.08	381.60	
.095		3.67	73.40	.375	22.37		447.40		
.120		4.70	95.40	.500	28.43		568.60		
.188	6.87	137.40	7 x 3	.188	11.97		239.40		
.250	8.81	176.20		.250	15.62	312.40			
				.313	19.08	381.60			
				.375	22.37	447.40			
				.500	28.43	568.60			

RECTANGULAR TUBING

Standard 20' Lengths

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>				
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar			
7 x 4	.188	13.25	265.00	10 x 5	.188	18.39	367.80	
	.250	17.32	346.40		.250	24.38	487.60	
	.313	21.21	424.20		10 x 6	.188	19.63	392.60
	.375	24.93	498.60			.250	25.82	516.40
	.500	31.84	636.80			.313	31.84	636.80
7 x 5	.188	14.53	290.60	.375		37.69	753.80	
	.250	19.02	380.40	.500		48.85	977.00	
	.313	23.34	466.80	10 x 8	.625	59.32	1186.40	
	.375	27.48	549.60		.188	22.18	443.60	
	.500	35.24	704.80		.250	29.23	584.60	
8 x 2	.188	11.97	239.40		.313	36.10	722.00	
	.250	15.62	312.40		.375	42.79	855.80	
	.313	19.58	391.60	.500	55.66	1113.20		
	.375	23.12	462.40	.625	67.82	1356.40		
	8 x 3	.188	13.25	265.00	12 x 2	.188	17.13	342.60
.250		17.32	346.40	.250		22.71	454.20	
.313		21.21	424.20	12 x 3		.188	18.39	367.80
.375		24.93	498.60			.250	24.38	487.60
.500		31.84	636.80			12 x 4	.188	19.63
8 x 4	.188	14.53	290.60		.250		25.82	516.40
	.250	19.02	380.40		.313		31.84	636.80
	.313	23.34	466.80	.375	37.69		753.80	
	.375	27.48	549.60	.500	48.85		977.00	
	.500	35.24	704.80	.625	59.32	1186.40		
8 x 6	.188	17.08	341.60	12 x 6	.188	22.18	443.60	
	.250	22.42	448.40		.250	29.23	584.60	
	.313	27.59	551.80		.313	36.10	722.00	
	.375	32.58	651.60		.375	42.79	855.80	
	.500	42.05	841.00		.500	55.66	1113.20	
9 x 7	.188	19.63	392.60	.625	67.82	1356.40		
	.250	25.82	516.40	12 x 8	.188	24.73	494.60	
	10 x 2	.188	14.65		293.00	.250	32.63	652.60
.250		19.31	386.20		.313	40.35	807.00	
10 x 3		.188	15.91		318.20	.375	47.90	958.00
	.250	21.01	420.20		.500	62.46	1249.20	
	10 x 4	.188	17.08	341.60	.625	76.33	1526.60	
.250		22.42	448.40					
.313		27.59	551.80					
.375		32.58	651.60					
.500		42.05	841.00					

Cold Finished Round Bar 20' Random Lengths

Size in Inches	Weight in Pounds		Size in Inches	Weight in Pounds	
	Per Foot	Per 20' Bar		Per Foot	Per 20' Bar
1/8	.042	.84	2	10.68	213.60
3/16	.094	1.88	2-1/16	11.36	227.20
1/4	.167	3.34	2-1/8	12.06	241.20
5/16	.261	5.22	2-3/16	12.78	255.60
3/8	.375	7.52	2-1/4	13.52	270.40
7/16	.511	10.22	2-5/16	14.28	285.60
1/2	.668	13.36	2-3/8	15.06	301.20
9/16	.845	16.90	2-7/16	15.87	317.40
5/8	1.043	20.86	2-1/2	16.69	338.80
11/16	1.26	25.24	2-5/8	18.41	368.20
3/4	1.50	30.04	2-11/16	19.29	385.80
13/16	1.76	35.26	2-3/4	20.20	404.00
7/8	2.04	40.88	2-13/16	21.12	422.40
15/16	2.35	46.94	2-7/8	22.09	441.80
1	2.67	53.40	2-15/16	23.04	460.80
1-1/16	4.60	92.00	3	24.03	480.60
1-1/8	3.38	67.60	3-3/16	27.13	542.60
1-3/16	3.77	75.31	3-1/4	28.21	564.20
1-1/4	4.17	83.45	3-5/16	29.30	586.00
1-5/16	4.60	92.00	3-7/16	31.55	631.00
1-3/8	5.05	101.00	3-1/2	32.71	654.20
1-7/16	5.52	110.40	3-11/16	36.31	726.20
1-1/2	6.01	120.20	3-3/4	37.57	751.40
1-9/16	6.52	130.40	3-15/16	41.40	828.00
1-5/8	7.05	141.00	4	42.73	854.60
1-11/16	7.60	152.00	4-1/4	48.23	964.60
1-3/4	8.18	163.60	4-7/16	52.58	1051.60
1-13/16	8.77	175.50	4-1/2	54.08	1081.60
1-7/8	9.39	187.80	4-15/16	65.10	1302.00
1-15/16	10.02	200.40	5	66.76	1335.20
			5-7/16	78.95	1579.00
			5-15/16	94.14	1882.80
			6	96.13	1922.60
			6-7/16	110.66	2213.00
			6-1/2	112.82	2256.00

Cold Finished Flat Bar Random 12' Lengths

Size in Inches	Weight in Pounds		Size in Inches	Weight in Pounds	
	Per Foot	Per 12' Bar		Per Foot	Per 12' Bar
1/8 x 1/4	.106	1.27	1/4 x 5/16	.266	3.19
5/16	.133	1.59	3/8	.319	3.83
3/8	.159	1.91	1/2	.425	5.10
1/2	.213	2.55	9/16	.478	5.74
5/8	.266	3.19	5/8	.531	6.37
3/4	.319	3.83	3/4	.638	7.65
7/8	.372	4.46	7/8	.744	8.93
1	.425	5.10	1	.850	10.20
1-1/8	.478	5.74	1-1/8	.956	11.47
1-1/4	.531	6.37	1-1/4	1.063	12.76
1-1/2	.638	7.66	1-1/2	1.275	15.30
1-3/4	.744	8.93	1-5/8	1.381	16.57
2	.850	10.20	1-3/4	1.488	17.86
2-1/4	.956	11.47	2	1.700	20.40
2-1/2	1.063	12.76	2-1/4	1.913	22.96
2-3/4	1.169	14.03	2-1/2	2.125	25.50
3	1.275	15.30	2-3/4	2.338	28.06
3-1/2	1.488	17.86	3	2.550	30.60
4	1.700	20.40	3-1/4	2.763	33.16
4-1/2	1.913	22.96	3-1/2	2.975	35.70
5	2.125	25.50	4	3.400	40.80
6	2.550	30.60	4-1/2	3.825	45.90
3/16 x 1/4	.160	1.92	5	4.250	51.00
5/16	.199	2.39	5-1/2	4.675	56.10
3/8	.239	2.87	6	5.100	61.20
7/16	.279	3.35	8	6.800	81.60
1/2	.319	3.83	10	8.500	102.00
5/8	.398	4.78	12	10.200	122.40
3/4	.478	5.74	5/16 x 3/8	.398	4.78
7/8	.558	6.69	1/2	.531	6.37
1	.638	7.65	5/8	.664	7.97
1-1/8	.717	8.60	3/4	.797	9.56
1-1/4	.797	9.56	7/8	.930	11.16
1-1/2	.956	11.47	1	1.063	12.76
1-3/4	1.116	13.39	1-1/8	1.195	14.34
2	1.275	15.30	1-1/4	1.328	15.94
2-1/4	1.434	17.21	1-1/2	1.594	19.13
2-1/2	1.594	19.13	1-3/4	1.859	22.31
2-3/4	1.753	21.04	2	2.125	25.50
3	1.913	22.96	2-1/4	2.391	28.69
3-1/2	2.231	26.77	2-1/2	2.656	31.87
4	2.550	30.60	2-3/4	2.922	35.06
4-1/2	2.869	34.43	3	3.188	38.26
5	3.188	38.26	3-1/2	3.719	44.63
6	3.825	45.90	4	4.250	51.00
			4-1/2	4.781	57.37

Cold Finished Flat Bar

Random 12' Lengths

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>			
	Per Foot	Per 12' Bar		Per Foot	Per 12' Bar		
5/16 x	5	5.313	63.76	1/2 x	9/16	.970	11.64
	6	6.375	76.50		5/8	1.063	12.76
3/8 x	8	8.500	102.00	3/4	1.275	15.30	
	10	10.630	127.50	7/8	1.488	17.86	
	12	12.750	153.00	1	1.700	20.40	
	7/16	.588	6.70	1-1/8	1.913	22.96	
	1/2	.638	7.65	1-1/4	2.125	25.50	
	5/8	.797	9.56	1-1/2	2.550	30.60	
	3/4	.956	11.47	1-3/4	2.975	35.70	
	7/8	1.116	13.39	2	3.400	40.80	
	1	1.275	15.30	2-1/4	3.825	45.90	
	1-1/8	1.434	17.21	2-1/2	4.250	51.00	
1-1/4	1.594	19.13	2-3/4	4.675	56.10		
1-3/8	1.753	21.04	3	5.100	61.20		
1-1/2	1.913	22.96	3-1/4	5.525	66.30		
1-5/8	2.072	24.86	3-1/2	5.950	71.40		
1-3/4	2.231	26.77	4	6.800	81.60		
2	2.550	30.60	4-1/4	7.224	86.69		
2-1/4	2.869	34.43	4-1/2	7.650	91.80		
2-1/2	3.188	38.26	5	8.500	102.00		
2-3/4	3.506	42.07	5-1/2	9.350	112.20		
3	3.825	45.90	6	10.200	122.40		
3-1/4	4.144	49.73	8	13.600	163.20		
3-3/8	4.303	51.64	10	17.000	204.00		
3-1/2	4.463	53.56	12	20.400	244.80		
4	5.100	61.20	5/8 x	3/4	1.594	19.13	
4-1/2	5.738	68.86		7/8	1.859	22.31	
5	6.375	76.50		1	2.125	25.50	
5-1/2	7.013	84.16		1-1/8	2.391	28.69	
6	7.650	91.80		1-1/4	2.659	31.87	
8	10.200	122.40		1-1/2	3.188	38.26	
10	12.750	153.00		1-3/4	3.719	44.63	
12	15.300	183.60		2	4.250	51.00	
7/16 x	1/2	.744		8.93	2-1/4	4.781	57.37
	5/8	.930		11.16	2-1/2	5.313	63.76
	3/4	1.116	13.39	2-3/4	5.844	70.13	
	1	1.488	17.86	3	6.375	76.50	
	1-1/4	1.859	22.31	3-1/4	6.906	82.87	
	1-1/2	2.231	26.77	3-1/2	7.438	89.26	
	1-3/4	2.603	31.24	4	8.500	102.00	
	2	2.975	35.70	4-1/2	9.563	114.80	
	2-1/2	3.719	44.63	5	10.630	127.60	
	3	4.463	53.56	5-1/2	11.690	140.36	
3-1/2	5.206	62.47	6	12.750	153.00		
4	5.950	71.40	8	17.000	204.00		
5	7.438	89.26	10	21.250	255.00		
6	8.930	107.16	12	25.500	306.00		

Cold Finished Flat Bar

12' Random Lengths

Size in Inches	<u>Weight in Pounds</u>		Size in Inches	<u>Weight in Pounds</u>				
	Per Foot	Per 12' Bar		Per Foot	Per 12' Bar			
3/4 x	7/8	2.231	26.77	1 x	4	13.600	163.20	
	1	2.550	30.60		4-1/2	15.300	183.60	
	1-1/8	2.869	34.43		5	17.000	204.00	
	1-1/4	3.188	38.26		6	20.400	244.80	
	1-1/2	3.825	45.90		8	27.200	326.40	
	1-3/4	4.463	53.56		10	34.000	408.00	
	2	5.100	61.20		12	40.800	489.60	
	2-1/4	5.738	68.86		1-1/8 x	1-1/4	4.781	57.37
	2-1/2	6.375	76.50			1-1/2	5.738	68.86
	3	7.650	91.80			2	7.650	91.80
	3-1/4	8.288	99.46			2-1/2	9.562	114.74
	3-1/2	8.925	107.10			3	11.470	137.64
4	10.200	122.40	1-1/4 x	1-1/2		6.375	76.50	
4-1/2	11.480	137.80		1-3/4	7.438	89.26		
5	12.750	153.00		2	8.500	102.00		
6	15.300	183.60		2-1/4	9.563	114.80		
8	20.400	244.80		2-1/2	10.630	127.60		
10	25.500	306.00		2-3/4	11.690	140.30		
12	30.600	367.20	3	12.750	153.00			
7/8 x	1	2.975	35.70	3-1/2	14.880	178.60		
	1-1/8	3.347	40.16	4	17.00	204.00		
	1-1/4	3.719	44.63	4-1/2	19.130	229.60		
	1-1/2	4.463	53.56	5	21.250	255.00		
	1-3/4	5.206	62.47	6	25.500	306.00		
	2	5.950	71.40	8	34.000	408.00		
	2-1/4	6.694	80.33	10	42.500	510.00		
	2-1/2	7.438	89.26	12	51.000	612.00		
	3	8.925	107.10	2 x	2-1/4	15.300	183.60	
	3-1/2	10.410	124.90		2-1/2	17.000	204.00	
	4	11.900	142.80		3	20.400	244.80	
	4-1/2	13.390	160.70		3-1/2	23.800	285.60	
5	14.880	178.60	4		27.200	326.40		
6	17.850	214.20	4-1/2		30.600	367.20		
1 x	8	23.800	285.60	5	34.000	408.00		
	12	35.700	428.40	6	40.800	489.60		
	1-1/8	3.825	45.90	8	54.400	652.80		
	1-1/4	4.250	51.00	12	81.600	979.20		
	1-1/2	5.100	61.20	3 x	4	40.800	489.60	
	1-3/4	5.950	71.40		4-1/2	45.900	550.80	
	2	6.800	81.60		5	51.000	612.00	
	2-1/4	7.650	91.80		6	61.200	734.40	
	2-1/2	8.500	102.00					
	2-3/4	9.350	112.20					
	3	10.200	122.40					
	3-1/4	11.050	132.60					
3-1/2	11.900	142.80						

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 the diameter increases area four times; tripling the diameter increases area nine times.

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 OF 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 ½ of Perpendicular Height 180° = Sum of all inside angles

HEXAGON

AREA = Square of distances across Flats x .866 or Square of Side x 2.598

SIDE = ½ of Diagonal of Distance across Flats x .577

DIAGONAL = Distance across Flats x 1.155 or Side x 2

OCTAGON

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

Holds the largest volume possible for the smallest surface.

CUBE

AREA OF SURFACE = Square of Side x 6

VOLUME = Cube of Side

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 incl. Base) = Perimeter of Base x ½ Slant Height

VOLUME = Area of Base x 1/3 Perpendicular Height

SIMPLE STEEL WEIGHT FORMULAS

Simply enter data indicated (Decimal Inches) move from left to right making computations by factors as shown.

ROUND	DIAMETER X DIAMETER X 2.6729 = LBS PER FOOT
FLAT	THICKNESS X WIDTH X 3.4032 = LBS. PER FOOT
SQUARE	DIAMETER X DIAMETER X 3.4032 = LBS. PER FOOT
HEXAGON	*DIAMETER X DIAMETER X 2.9437 = LBS. PER FOOT
OCTAGON	*DIAMETER X DIAMETER X 2.8193 = LBS. PER FOOT
PIPE	ACTUAL O.D. - WALL X WALL X 10.68 = LBS. PER FOOT
TUBE	O.D. - WALL X WALL X 10.68 = LBS. PER FOOT
SHEET	THICKNESS X WIDTH X LENGTH X .2904 = LBS. EACH
COIL	O.D. X O.D. - I.D. X I.D X .2223 = LBS. PER INCH OF WIDTH
SHEET CIRCLE	DIAMETER X DIAMETER X THICKNESS X .228 = LBS. EACH
PLATE	THICKNESS X WIDTH X LENGTH X .2836 = LBS. EACH
<u>PLATE SHAPES:</u>	
CIRCLE	DIAMETER X DIAMETER X THICKNESS X .2227 = LBS. EACH
RING	DIAMETER X DIAMETER - I.D X I.D X THICKNESS X .2227 = LBS EACH
CIRCLE SECTOR	RADIUS X RADIUS X # OF DEGREES IN ARC THICKNESS X .0025 = LBS EACH
TRIANGLE (Right Angle)	BASE LENGTH X HEIGHT X THICKNESS X .1418 = LBS. EACH
TRAPEZOIDS (2 Sides Parallel)	SIDE "A" + SIDE "B" X HEIGHT X THICKNESS X 14.18 = LBS. EACH
HEXAGON (Equal Sides)	SIDE LENGTH X SIDE LENGTH X .7367 = LBS. EACH
OCTAGON	SIDE LENGTH X SIDE LENGTH X 1.3692 = LBS. EACH

*DIAMETER MEASURED BY DISTANCE ACROSS FLATS.

NOTE: FORMULAS ARE BASED ON NOMINAL WEIGHTS AT .2836 LBS. PER CUBIC INCH AND SHOULD BE CONSIDERED **APPROXIMATIONS ONLY RATHER THAN ACTUAL SCALE WEIGHTS.**

**COMMON FRACTIONS OF AN INCH WITH DECIMAL AND METRIC
EQUIVELENTS**

FRACTION	DECIMAL	MM	MM	DECIMAL	FRACTION
1/64	.015625	0.0396	13.096	.515625	33/64
1/32	.03125	0.793	13.493	.53125	17/32
3/64	.046875	1.190	13.890	.546875	35/64
<u>1/16</u>	.0625	1.587	14.287	.5625	<u>9/16</u>
5/64	.078125	1.984	14.684	.578125	37/64
3/32	.09375	2.381	15.081	.59375	19/32
7/64	.109375	2.778	15.478	.609375	39/64
<u>1/8</u>	.125	3.175	15.875	.625	<u>5/8</u>
9/64	.140625	3.571	16.271	.640625	41/64
5/32	.15625	3.968	16.668	.65625	21/32
11/64	.171875	4.365	17.065	.671875	43/64
<u>3/16</u>	.1875	4.762	17.462	.6875	<u>11/16</u>
13/64	.203125	5.159	17.859	.703125	45/64
7/32	.21875	5.556	18.256	.71875	23/32
15/64	.234375	5.953	18.653	.734375	47/64
<u>1/4</u>	.250	6.350	19.050	.750	<u>3/4</u>
17/64	.265625	6.746	19.446	.765625	49/64
9/32	.28125	7.143	19.843	.78125	25/32
19/64	.296875	7.540	20.240	.796875	51/64
<u>5/16</u>	.3125	7.937	20.637	.8125	<u>13/16</u>
21/64	.328125	8.334	21.034	.828125	53/64
11/32	.34375	8.731	21.431	.84375	27/32
23/64	.359375	9.128	21.828	.859375	55/64
<u>3/8</u>	.375	9.525	22.225	.875	<u>7/8</u>
25/64	.390625	9.921	22.621	.890625	57/64
13/32	.40625	10.318	23.018	.90625	29/32
27/64	.421875	10.715	23.415	.921875	59/64
<u>7/16</u>	.4375	11.112	23.812	.9375	<u>15/16</u>
29/64	.453125	11.509	24.209	.953125	61/64
15/32	.46875	11.906	24.606	.96875	31/32
31/64	.484375	12.303	25.003	.984375	63/64
<u>1/2</u>	.500	12.700	25.400	1.0000	<u>1</u>