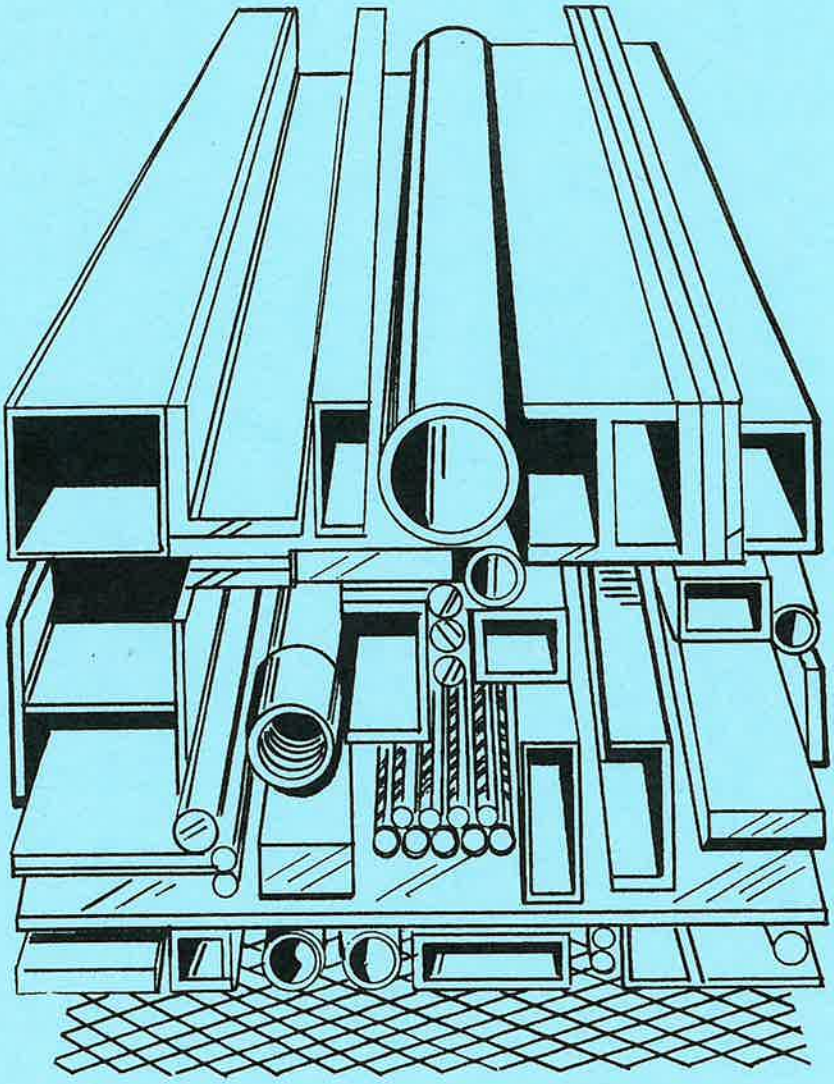
SALINA STEEL SUPPLY, INC.



ISO Registered

SALINA STEEL SUPPLY, INC.

Providing for your steel needs since 1977

Our Service is the Difference

South Industrial Area
234 E. Avenue A • P.O. Box 2897
Salina, Kansas 67402-2897

http://www.salinasteel.com
(785) 825-2138 • 800-383-2138
FAX (785) 822-1211 (Sales & Fabrication)
FAX (785) 822-1219 (Accounting)
EMAIL: sales@salinasteel.com

2023

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REFERENCE INFORMATION

SALINA STEEL SUPPLY, INC.

Company History

Paul K. Mai opened Salina Steel Supply, Inc. in 1977. We started with three employees and one delivery truck. Our original warehouse had limited space and stocked a small variety of structural steel products. Deliveries were made on an accumulated basis to a relatively small geographical area around Salina.

From these humble beginnings, Salina Steel Supply, Inc. has grown to over 30 full and part-time employees. We have a fleet of 10 delivery trucks and two warehouses with a combined size of over 100,000 sq. ft. Our loyal customer base has grown tremendously! We have expanded our inventory to include a wide diversity of steel and non-ferrous products plus fabrication services to meet the needs of our customers. We have regular delivery routes that cover the majority of the great State of Kansas.

Company Mission

- Salina Steel Supply, Inc. is a family-owned company specializing in the marketing and sales of a diversified range of metal products and services to meet the needs of our customers.

- We strive to be responsible to our customers by offering a broad range of metal products that meet customer specifications and provide transportation services that ensure customers receive their orders on a predictable schedule.

- We are committed to supply quality products, and provide superior service to meet the needs of manufacturing companies, contractors, fabricators, machine and welding shops, etc.

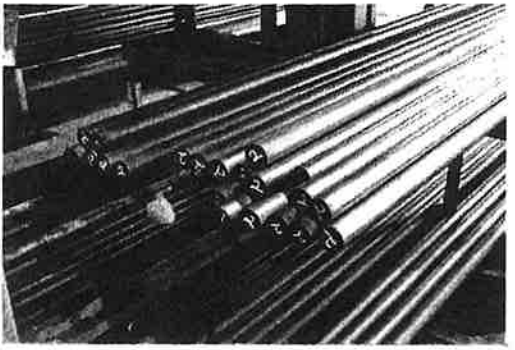
- We work together to ensure our customers know that

Our Service is the Difference!

CONTENTS

WE DO CUSTOM WORK!!

BEAM WORK:	Splitting and cambering
FLAME CUTTING:	To 6" thick
PLASMA CUTTING:	To 1-1/4" thick
PRESS BRAKE:	400 ton 16 ga. thru 1/4" x 12' up through 3/8" x 10'
PUNCHING:	Up to 1-1/2" diameter in 1-1/4" plate
SAW:	Cut to length and bundle cutting
SHEAR:	12 ft. length from 16 ga. up to and through 3/8" plate
	10 ft. length from 3/8" through 3/4" plate



BAR SIZE ANGLES

Size in inches					Wt./Ft.	Wt./20'	Wt./40'
1/2	x	1/2	x	1/8	0.38	7.60	
3/4	x	3/4	x	1/8	0.59	11.80	
1	x	5/8	x	1/8	0.68	13.60	
1	x	1	x	1/8	0.80	16.00	
				3/16	1.16	23.20	
				1/4	1.49	29.80	
1 1/4	x	1 1/4	x	1/8	1.01	20.20	
				3/16	1.48	29.60	
				1/4	1.92	38.40	
1 1/2	x	1 1/2	x	1/8	1.23	24.60	49.20
				3/16	1.80	36.00	72.00
				1/4	2.34	46.80	93.60
1 3/4	x	1 3/4	x	1/8	1.44	28.80	57.60
				3/16	2.12	42.40	84.80
				1/4	2.77	55.40	110.80
2	x	1 1/4	x	3/16	1.96	39.20	78.40
				1/4	2.55	51.00	102.00
2	x	1 1/2	x	1/8	1.44	28.80	57.60
				3/16	2.12	42.40	84.80
				1/4	2.77	55.40	110.80
2	x	2	x	1/8	1.65	33.00	66.00
				3/16	2.44	48.80	97.60
				1/4	3.19	63.80	127.60
				5/16	3.92	78.40	156.80
				3/8	4.70	94.00	188.00
2 1/2	x	1 1/2	x	3/16	2.44	48.80	97.60
				1/4	3.19	63.80	127.60
2 1/2	x	2	x	3/16	2.75	55.00	110.00
				1/4	3.62	72.40	144.80
				5/16	4.50	90.00	180.00
				3/8	5.30	106.00	212.00
2 1/2	x	2 1/2	x	3/16	3.07	61.40	122.80
				1/4	4.10	82.00	164.00
				5/16	5.00	100.00	200.00
				3/8	5.90	118.00	236.00
				1/2	7.70	154.00	308.00

STRUCTURAL ANGLES

Size in inches		Wt./Ft.	Wt./20'	Wt./40'
3 x 2 x	3/16	3.07	62.0	124.0
	1/4	4.10	82.0	164.0
	5/16	5.00	100.0	200.0
	3/8	5.90	118.0	236.0
	1/2	7.70	154.0	308.0
3 x 2 1/2 x	3/16	3.39	67.8	135.6
	1/4	4.50	90.0	180.0
	5/16	5.60	112.0	224.0
	3/8	6.60	132.0	264.0
	1/2	8.50	170.0	340.0
3 x 3 x	3/16	3.71	74.2	148.4
	1/4	4.90	98.0	196.0
	5/16	6.10	122.0	244.0
	3/8	7.20	144.0	288.0
	1/2	9.40	188.0	376.0
3 1/2 x 2 1/2 x	1/4	4.90	98.0	196.0
	5/16	6.10	122.0	244.0
	3/8	7.20	144.0	288.0
	1/2	9.40	188.0	376.0
3 1/2 x 3 x	1/4	5.40	108.0	216.0
	5/16	6.60	132.0	264.0
	3/8	7.90	158.0	316.0
	1/2	10.20	204.0	408.0
3 1/2 x 3 1/2 x	1/4	5.80	116.0	232.0
	5/16	7.20	144.0	288.0
	3/8	8.50	170.0	340.0
	1/2	11.10	222.0	444.0
4 x 3 x	1/4	5.80	116.0	232.0
	5/16	7.20	144.0	288.0
	3/8	8.50	170.0	340.0
	1/2	11.10	222.0	444.0
	5/8	13.60	272.0	544.0
4 x 3 1/2 x	1/4	6.20	124.0	248.0
	5/16	7.70	154.0	308.0
	3/8	9.10	182.0	364.0
	1/2	11.90	238.0	476.0

STRUCTURAL ANGLES (Continued)

Size In inches					Wt./Ft.	Wt./20'	Wt./40'
4	x	4	x	1/4	6.6	132.0	264.0
				5/16	8.2	164.0	328.0
				3/8	9.8	196.0	392.0
				1/2	12.8	256.0	512.0
				5/8	15.7	314.0	628.0
5	x	3	x	1/4	6.6	132.0	264.0
				5/16	8.2	164.0	328.0
				3/8	9.8	196.0	392.0
				1/2	12.8	256.0	512.0
5	x	3 1/2	x	1/4	7.0	140.0	280.0
				5/16	8.7	174.0	348.0
				3/8	10.4	208.0	416.0
				1/2	13.6	272.0	544.0
5	x	5	x	5/16	10.3	206.0	412.0
				3/8	12.3	246.0	492.0
				1/2	16.2	324.0	648.0
6	x	3 1/2	x	5/16	9.8	196.0	392.0
				3/8	11.7	234.0	468.0
				1/2	15.3	306.0	612.0
6	x	4	x	5/16	10.3	206.0	412.0
				3/8	12.3	246.0	492.0
				1/2	16.2	324.0	648.0
				5/8	20.0	400.0	800.0
				3/4	23.6	472.0	944.0
6	x	6	x	5/16	12.5	250.0	500.0
				3/8	14.9	298.0	596.0
				1/2	19.6	392.0	784.0
				5/8	24.2	484.0	968.0
				3/4	28.7	574.0	1148.0
7	x	4	x	3/8	13.6		544.0
				7/16	15.8		632.0
				1/2	17.9		716.0
				5/8	22.1		884.0
				3/4	26.2		1048.0
8	x	4	x	7/16	17.2		688.0
				1/2	19.6		784.0
				5/8	24.2		968.0
				3/4	28.7		1148.0

STRUCTURAL ANGLES (Continued)

Size in Inches					Wt./Ft.	Wt./20'	Wt./40'
8	x	6	x	7/16	20.2		808.0
				1/2	23.0		920.0
				5/8	28.5		1140.0
				3/4	33.8		1352.0
				1	44.2		1768.0
8	x	8	x	1/2	26.4		1056.0
				9/16	29.6		1184.0
				5/8	32.7		1308.0
				3/4	38.9		1556.0
				1	51.0		2040.0

STAINLESS STEEL ANGLES -- 304

Size In Inches					Wt./Ft.	Wt./20'
3/4	x	3/4	x	1/8	0.59	11.80
1	x	1	x	1/8	0.80	16.00
1	x	1	x	3/16	1.16	23.20
1	x	1	x	1/4	1.49	29.80
1 1/4	x	1 1/4	x	1/8	1.01	20.20
1 1/4	x	1 1/4	x	3/16	1.48	29.60
1 1/4	x	1 1/4	x	1/4	1.92	38.40
1 1/2	x	1 1/2	x	1/8	1.23	24.60
1 1/2	x	1 1/2	x	3/16	1.80	36.00
1 1/2	x	1 1/2	x	1/4	2.34	46.80
2	x	2	x	1/8	1.65	33.00
2	x	2	x	3/16	2.44	48.80
2	x	2	x	1/4	3.19	63.80
2	x	2	x	3/8	4.70	94.00
2 1/2	x	2 1/2	x	3/16	3.07	61.40
2 1/2	x	2 1/2	x	1/4	4.10	82.00
2 1/2	x	2 1/2	x	3/8	5.90	118.00
3	x	3	x	1/4	4.90	98.00

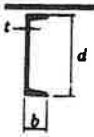
Please specify grade when ordering

ALUMINUM ANGLES -- 6061

Size In Inches	Approx. Wt./Ft.	Approx. Wt./25'
3/4 x 3/4 x 1/8	0.201	5.03
1 x 1 x 1/8	0.275	6.88
1 x 1 x 3/16	0.400	10.00
1 x 1 x 1/4	0.514	12.85
1 1/4 x 1 1/4 x 1/8	0.343	8.58
1 1/4 x 1 1/4 x 3/16	0.510	12.75
1 1/4 x 1 1/4 x 1/4	0.656	16.40
1 1/2 x 1 1/2 x 1/8	0.423	10.58
1 1/2 x 1 1/2 x 3/16	0.619	15.48
1 1/2 x 1 1/2 x 1/4	0.809	20.23
1 1/2 x 1 1/2 x 3/8	1.176	29.40
1 3/4 x 1 3/4 x 1/8	0.497	12.43
1 3/4 x 1 3/4 x 3/16	0.731	18.28
1 3/4 x 1 3/4 x 1/4	0.956	23.90
1 3/4 x 1 3/4 x 5/16	1.171	29.28
1 3/4 x 1 3/4 x 3/8	1.378	34.45
2 x 2 x 1/8	0.577	14.43
2 x 2 x 3/16	0.850	21.25
2 x 2 x 1/4	1.110	27.75
2 x 2 x 5/16	1.364	34.10
2 x 2 x 3/8	1.606	40.15
2 1/2 x 2 1/2 x 1/8	0.724	18.10
2 1/2 x 2 1/2 X 3/16	1.070	26.75
2 1/2 x 2 1/2 X 1/4	1.404	35.10
2 1/2 x 2 1/2 X 5/16	1.729	43.23
2 1/2 x 2 1/2 x 3/8	2.047	51.18
3 x 3 x 3/16	1.275	31.88
3 x 3 x 1/4	1.684	42.10

WE DO CUSTOM WORK!!

BEAM WORK:	Splitting and cambering
FLAME CUTTING:	To 6" thick
PLASMA CUTTING:	To 1-1/4" thick
PRESS BRAKE:	400 ton 16 ga. thru 1/4" x 12 ft. up thru 3/8" x 10 ft.
PUNCHING:	Up to 1-1/2" diameter in 1-1/4" plate
SAW:	Cut to length and bundle cutting
SHEAR:	12 ft. length from 16 ga. thru 3/8" plate 10 ft. length 3/8" thru 3/4" plate

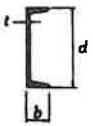


STRUCTURAL CHANNELS

Size	Weight Per Ft. Lbs.		Depth *d* In.	Width *b* In.	Web *t* in.
3 x	3.5		3	1.350	.130
	4.1		3	1.410	.170
	5		3	1.498	.258
	6		3	1.596	.356
	7.1	(S/C)	3	1.938	.312
4 x	5.4		4	1.584	.184
	7.25		4	1.721	.321
	13.8	(S/C)	4	2.500	.500
5 x	6.7		5	1.750	.190
	9		5	1.885	.325
6 x	8.2		6	1.920	.200
	10.5		6	2.034	.314
	12	(S/C)	6	2.497	.310
	13	(S/C)	6	2.157	.437
	15.3	(S/C)	6	3.500	.340
	16.3	(S/C)	6	3.000	.375
	18	(S/C)	6	3.504	.379
7 x	9.8		7	2.090	.210
	12.25		7	2.194	.314
	14.75		7	2.299	.419
	19.1	(S/C)	7	3.452	.352
	22.7	(S/C)	7	3.603	.503
8 x	8.5	(Jr.)	8	1.874	.179
	11.5		8	2.260	.220
	13.75		8	2.343	.303
	18.7	(S/C)	8	2.978	.353
	18.75	(S/C)	8	2.527	.487
	20	(S/C)	8	3.025	.400
	21.4	(S/C)	8	3.450	.375
	22.8	(S/C)	8	3.502	.427
9 x	13.4		9	2.433	.233
	15		9	2.485	.285
	20		9	2.648	.448
	23.9	(S/C)	9	3.450	.400
	25.4	(S/C)	9	3.500	.450
10 x	6.5	(Jr.)	10	1.127	.152
	8.4	(Jr.)	10	1.500	.170
	15.3		10	2.600	.240
	20		10	2.739	.379
	22	(S/C)	10	3.315	.290
	25	(S/C)	10	2.886	.526

STRUCTURAL CHANNELS

Size	Weight Per Ft. Lbs.		Depth *d* In.	Width *b* In.	Web *t* In.
10 x	28.5	(S/C)	10	3.950	.425
	33.6	(S/C)	10	4.100	.575
	30	(S/C)	10	3.033	.673
12 x	10.6	(Jr.)	12	1.500	.190
	20.7		12	2.942	.282
	25		12	3.047	.387
	30		12	3.170	.510
	35	(S/C)	12	3.767	.467
	45	(S/C)	12	4.012	.712
	50	(S/C)	12	4.135	.835
13 x	31.8	(S/C)	13	4.000	.375
	40	(S/C)	13	4.185	.560
	50	(S/C)	13	4.412	.787
15 x	33.9		15	3.400	.400
	40		15	3.520	.520
	50		15	3.716	.716
18 x	42.7	(S/C)	18	3.950	.450
	45.8	(S/C)	18	4.000	.500
	51.9	(S/C)	18	4.100	.600
	58	(S/C)	18	4.200	.700



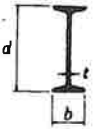
BAR SIZE CHANNELS

Depth d In.	Width b In.	Web t In.	Weight Per Foot Lbs.	Wt./20'
3/4"	3/8"	1/8"	0.56	11.20
1"	3/8"	1/8"	0.68	13.60
1"	1/2"	1/8"	0.84	16.80
1-1/8"	9/16"	3/16"	1.16	23.20
1-1/4"	1/2"	1/8"	1.01	20.20
1-1/2"	1/2"	1/8"	1.12	22.40
1-1/2"	9/16"	3/16"	1.44	28.80
2"	1/2"	1/8"	1.43	28.60
2"	9/16"	3/16"	1.86	37.20
2"	5/8"	1/4"	2.28	45.60
2"	1"	1/8"	1.59	31.80
2"	1"	3/16"	2.32	46.40
2-1/2"	5/8"	3/16"	2.27	45.40

ALUMINUM CHANNELS (6061T6)

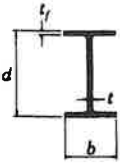
ALUMINUM CHANNEL	WT./FT.	LENGTH	WT./LENGTH
3" X 1.41" X .170 WEB	1.417	25'	35.43
4" X 1.58" X .180 WEB	1.846	25'	46.16
5" X 1.75" X .190 WEB	2.316	25'	57.89

STEEL I BEAMS



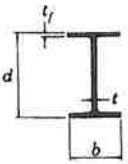
Size	Weight Per Ft. Lbs.	Depth *d in.*	Width *b in.*	Web *t in.*	Wt./ 20'
3 x	5.7	3.00	2.330	.170	114.00
	7.5	3.00	2.509	.349	150.00
4 x	7.7	4.00	2.663	.193	154.00
	9.5	4.00	2.796	.326	190.00
5 x	10	5.00	3.004	.214	200.00
6 x	12.5	6.00	3.332	.232	250.00
	17.25	6.00	3.565	.465	345.00
8 x	18.4	8.00	4.001	.271	368.00
	23	8.00	4.171	.441	460.00
10 x	25.4	10.00	4.661	.331	508.00
	35	10.00	4.944	.594	700.00
12 x	31.8	12.00	5.000	.350	636.00
	35	12.00	5.078	.428	700.00
	40.8	12.00	5.252	.462	816.00
	50	12.00	5.477	.687	1000.00
15 x	42.9	15.00	5.501	.411	858.00
	50	15.00	5.640	.550	1000.00
18 x	54.7	18.00	6.001	.461	1094.00
	70	18.00	6.251	.711	1400.00
20 x	66	20.00	6.255	.505	1320.00
24 x	80	24.00	7.000	.500	1600.00
	121	24.50	8.050	.800	2420.00

JUNIOR and H BEAMS



Size	Weight Per Ft. Lbs.	Depth *d In.*	Width *b In.*	Thick t_f *In.*	Web *t In.*
6 x	4.4	6.00	1.844	.171	.114
8 x	6.5	8.00	2.281	.189	.135
10 x	9	10.00	2.690	.206	.157
12 x	11.8	12.00	3.065	.225	.177

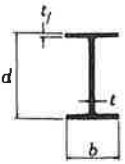
WIDE FLANGE BEAMS



Size	Weight Per Ft. Lbs.	Depth *d* In.	Width *b* In.	Thick t_f In.	Web *t* In.
4 x	13*	4.16	4.060	.345	.280
5 x	16	5.01	5.000	.360	.240
	19	5.15	5.030	.430	.270
6 x	9	5.90	3.940	.215	.170
	12	6.03	4.000	.280	.230
	15	5.99	5.990	.260	.230
	16	6.28	4.030	.405	.260
	20	6.20	6.020	.365	.260
	25	6.38	6.080	.455	.320
8 x	10	7.89	3.940	.205	.170
	13	7.99	4.000	.255	.230
	15	8.11	4.015	.315	.245
	18	8.14	5.250	.330	.230
	21	8.28	5.270	.400	.250
	24	7.93	6.495	.400	.245
	28	8.06	6.535	.465	.285
	31	8.00	7.995	.435	.285
	35	8.12	8.020	.495	.310
	40	8.25	8.070	.560	.360
	48	8.50	8.110	.685	.400
	58	8.75	8.220	.810	.510
	67	9.00	8.280	.935	.570
10 x	12	9.87	3.960	.210	.190
	15	9.99	4.000	.270	.230
	17	10.11	4.010	.330	.240
	19	10.24	4.020	.395	.250
	22	10.17	5.750	.360	.240
	26	10.33	5.770	.440	.260
	30	10.47	5.810	.510	.300
	33	9.73	7.960	.435	.290
	39	9.92	7.985	.530	.315
	45	10.10	8.020	.620	.350
	49	9.98	10.000	.560	.340
	54	10.09	10.030	.615	.370
	60	10.22	10.080	.680	.420
	68	10.40	10.130	.770	.470
	77	10.60	10.190	.870	.530
	88	10.84	10.265	.990	.605
	100	11.10	10.340	1.120	.680
	112	11.36	10.415	1.250	.755

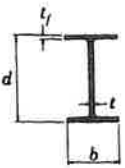
*Inside flange surfaces may be sloped

WIDE FLANGE BEAMS (Continued)



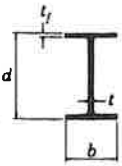
Size	Weight Per Ft. Lbs.	Depth *d* In.	Width *b* In.	Thick t_f In.	Web *t* In.
12 x	14	11.91	3.970	.225	.220
	16	11.99	3.990	.265	.220
	19	12.16	4.005	.350	.235
	22	12.31	4.030	.425	.260
	26	12.22	6.490	.380	.230
	30	12.34	6.520	.440	.260
	35	12.50	6.560	.520	.300
	40	11.94	8.005	.515	.295
	45	12.06	8.045	.575	.335
	50	12.19	8.080	.640	.370
	53	12.06	9.995	.575	.345
	58	12.19	10.010	.640	.360
	65	12.12	12.000	.605	.390
	72	12.25	12.040	.670	.430
	79	12.38	12.080	.735	.470
	87	12.53	12.125	.810	.515
	96	12.71	12.160	.900	.550
	106	12.89	12.220	.990	.610
	120	13.12	12.320	1.105	.710
	136	13.41	12.400	1.250	.790
14 x	22	13.74	5.000	.335	.230
	26	13.91	5.025	.420	.255
	30	13.84	6.730	.385	.270
	34	13.98	6.745	.455	.285
	38	14.10	6.770	.515	.310
	43	13.66	7.995	.530	.305
	48	13.79	8.030	.595	.340
	53	13.92	8.060	.660	.370
	61	13.89	9.995	.645	.375
	68	14.04	10.035	.720	.415
	74	14.17	10.070	.785	.450
	82	14.31	10.130	.855	.510
	90	14.02	14.520	.710	.440
	99	14.16	14.565	.780	.485
	109	14.32	14.605	.860	.525
	120	14.48	14.670	.940	.590
	132	14.66	14.725	1.030	.645
16 x	26	15.69	5.500	.345	.250
	31	15.88	5.525	.440	.275
	36	15.86	6.985	.430	.295
	40	16.01	6.995	.505	.305
	45	16.13	7.035	.565	.345

WIDE FLANGE BEAMS (Continued)



Size	Weight Per Ft. Lbs.	Depth *d* In.	Width *b* In.	Thick t_f In.	Web *t* In.
16 x	50	16.26	7.070	.630	.380
	57	16.43	7.120	.715	.430
	67	16.33	10.235	.665	.395
	77	16.52	10.295	.760	.455
	89	16.75	10.365	.875	.525
	100	16.97	10.425	.985	.585
18 x	35	17.70	6.000	.425	.300
	40	17.90	6.015	.525	.315
	46	18.06	6.060	.605	.360
	50	17.99	7.495	.570	.355
	55	18.11	7.530	.630	.390
	60	18.24	7.555	.695	.415
	65	18.35	7.590	.750	.450
	71	18.47	7.635	.810	.495
	76	18.21	11.035	.680	.425
	86	18.39	11.090	.770	.480
	97	18.59	11.145	.870	.535
	106	18.73	11.200	.940	.590
	119	18.97	11.265	1.060	.655
21 x	44	20.66	6.500	.450	.350
	50	20.83	6.530	.535	.380
	57	21.06	6.555	.650	.405
	62	20.99	8.240	.615	.400
	68	21.13	8.270	.685	.430
	73	21.24	8.295	.740	.455
	83	21.43	8.355	.835	.515
	101	21.36	12.290	.800	.500
	111	21.51	12.340	.875	.550
	132	21.83	12.440	1.035	.650
	147	22.06	12.510	1.150	.720
24 x	55	23.57	7.005	.505	.395
	62	23.74	7.040	.590	.430
	68	23.73	8.965	.585	.415
	76	23.92	8.990	.680	.440
	84	24.10	9.020	.770	.470
	94	24.31	9.065	.875	.515
	104	24.06	12.750	.750	.500
	117	24.26	12.800	.850	.550
	131	24.48	12.855	.960	.605
	146	24.74	12.900	1.090	.650

WIDE FLANGE BEAMS (Continued)



Size	Weight Per Ft. Lbs.	Depth *d* /n.	Width *b* /n.	Thick t_f /n.	Web *t* /n.
27 x	84	26.71	9.960	.640	.460
	94	26.72	9.990	.745	.490
	102	27.09	10.015	.830	.515
	114	27.29	10.070	.930	.570
	146	27.38	13.965	.975	.605
30 x	108	29.83	10.475	.760	.545
	116	30.01	10.495	.850	.565
	124	30.17	10.515	.930	.585
	132	30.31	10.545	1.000	.615
	173	30.44	14.985	1.065	.655
	191	30.68	15.040	1.185	.710
	211	30.94	15.105	1.315	.775
33 x	118	32.86	11.480	.740	.550
	130	33.09	11.510	.855	.580
	201	33.68	15.745	1.150	.715
36 x	135	35.55	11.950	.790	.600
	150	35.85	11.975	.940	.625

WE DO CUSTOM WORK!!

BEAM WORK:	Splitting and cambering
FLAME CUTTING:	To 6" thick
PLASMA CUTTING:	To 1-1/4" thick
PRESS BRAKE:	400 ton 16 ga. thru 1/4" x 12' up thru 3/8" x 10'
PUNCHING:	Up to 1-1/2" diameter in 1-1/4" plate
SAW:	Cut to length and bundle cutting
SHEAR:	12 ft. length 16 ga. thru 3/8" plate 10 ft. length from 3/8" thru 3/4" plate

ROUND BARS
Hot Rolled & Cold Rolled
Stocked lengths shown

Size	Wt. Per Foot Lgth.	Hot Roll Lgth.	Cold Roll 1018 Lgth.	Cold Roll 1045 Lgth.	Cold Roll 1144 Stress Relvd. Lgth.
1/8"	.0417		12'		
3/16"	.0939		20'		
1/4"	.1669	20'	20'		
5/16"	.2608	20'	20'		
3/8"	.3755	20'	20'		
7/16"	.5111	20'	20'		
1/2"	.6676	20'	20'	20'	
9/16"	.8449	20'	20'		
5/8"	1.043	20'	20'	20'	
11/16"	1.262				
3/4"	1.502	20'	20'	20'	
13/16"	1.763		20'		
7/8"	2.045	20'	20'	20'	
15/16"	2.347		20'		
1"	2.670	20'	20'	20'	20'
1 1/16"	3.015		20'		
1 1/8"	3.380		20'	20'	
1 3/16"	3.766		20'		
1 1/4"	4.173	20'	20'	20'	12'
1 5/16"	4.600				
1 3/8"	5.049		20'	20'	
1 7/16"	5.518		20'		
1 1/2"	6.008	20'	20'	20'	12'
1 9/16"	6.520				
1 5/8"	7.052		20'	20'	
1 11/16"	7.604		20'		
1 3/4"	8.178		20'	20'	
1 13/16"	8.773				
1 7/8"	9.388		20'		
1 15/16"	10.02		20'		
2"	10.68		20'	20'	
2 1/16"	11.36				
2 1/8"	12.06			20'	
2 3/16"	12.78		20'		
2 1/4"	13.52		20'	20'	
2 5/16"	14.28				
2 7/16"	15.87			20'	
2 1/2"	16.69		20'	20'	
2 5/8"	18.40		20'		
2 3/4"	20.19				
2 7/8"	22.07				
2 15/16"	23.04		20'		

ROUND BARS (Continued)

Hot Rolled & Cold Rolled – Stocked lengths shown

Size	Wt. Per Foot Lgth.	Hot Roll Lgth.	Cold Roll 1018 Lgth.	Cold Roll 1045 Lgth.	CR-1144 Str. Rlvd. Lgth.
3"	24.03		20'	20'	
3 1/8"	26.08				
3 1/4"	28.21		20'		
3 3/8"	30.42				
3 7/16"	31.55				
3 1/2"	32.71		20'		
3 5/8"	35.09				
3 3/4"	37.55				
3 7/8"	40.10				
4"	42.73		20'		

SQUARE BARS
Hot & Cold Rolled

Stocked lengths shown

Size	Wt. Per Foot	Hot Roll Lgth.	Cold Roll 1018 Lgth.
1/8"	0.0530	N/A	
3/16"	0.1200	N/A	12'
1/4"	0.2130		12'
5/16"	0.3320		12'
3/8"	0.4780	20'	12'
7/16"	0.6510		
1/2"	0.8500	20'	12'
9/16"	1.0800		
5/8"	1.3300	20'	12'
11/16"	1.6100		
3/4"	1.9100	20'	12'
13/16"	2.2500		
7/8"	2.6000		
15/16"	2.9900		
1"	3.4000	20'	12'
1 1/8"	4.3000		12'
1 3/16"	4.8000		
1 1/4"	5.3100	20'	12'
1 5/16"	5.8600		
1 3/8"	6.4300		
1 7/16"	7.0300		
1 1/2"	7.6500	20'	12'
1 9/16"	8.3000		
1 5/8"	8.9800		
1 11/16"	9.6800		
1 3/4"	10.4100		
1 13/16"	11.1700		
1 7/8"	11.9500		
1 15/16"	12.7600		
2"	13.6000		12'

HEXAGON BARS
Cold Rolled

Stocked lengths shown

Size	Wt. Per Foot	Cold Roll 1018 Lgth.
3/16"	0.1035	
1/4"	0.1840	
5/16"	0.2875	
3/8"	0.4141	
7/16"	0.5636	12'
1/2"	0.7361	
9/16"	0.9316	
5/8"	1.1500	
3/4"	1.6560	12'
7/8"	2.2500	
1"	2.9440	
1 1/8"	3.7270	12'
1 1/4"	4.6010	
1 1/2"	6.6250	
1 3/4"	9.0170	
2"	11.7800	

Hex Bars are measured flat edge to flat edge.

TYPE 6061-T6 ROUND ALUMINUM BAR

Size in Inches	Approx. Wt.per Lin. Ft.	Approx. Wt. per 12' Length	Size in Inches	Approx. Wt.per Lin. Ft.	Approx. Wt. per 12' Length
1/8	0.014	0.17	1 13/16	3.034	36.41
3/16	0.033	0.39	1 7/8	3.247	38.96
1/4	0.058	0.70	2	3.695	44.34
5/16	0.090	1.08	2 1/8	4.171	50.05
3/8	0.130	1.56	2 1/4	4.676	56.11
7/16	0.177	2.12	2 1/2	5.773	69.28
1/2	0.231	2.77	2 5/8	6.364	76.37
9/16	0.292	3.50	2 3/4	6.985	83.82
5/8	0.361	4.33	3	8.313	99.76
3/4	0.520	6.24	3 1/4	9.776	117.31
7/8	0.707	8.48	3 1/2	11.315	135.78
1	0.924	11.09	3 5/8	12.152	145.82
1 1/8	1.169	14.03	3 3/4	12.989	155.87
1 1/4	1.443	17.32	4	14.778	177.34
1 5/16	1.591	19.09	4 1/4	16.683	200.20
1 3/8	1.746	20.95	4 1/2	18.704	244.45
1 7/16	1.909	22.91	5	23.901	R/L
1 1/2	2.078	24.94	5 1/2	27.940	R/L
1 5/8	2.439	29.27	6	33.251	R/L
1 3/4	2.829	33.95			

TYPE 6061-T6 ALUMINUM SQUARE BAR

Size in Inches	Approx. Wt.per Lin. Ft.	Approx. Wt. per 12' Length	Size in Inches	Approx. Wt.per Lin. Ft.	Approx. Wt. per 12' Length
3/8	0.1654	1.985	1 1/2	2.646	31.75
1/2	0.2940	3.528	1 3/4	3.600	43.20
5/8	0.4594	5.513	2	4.704	56.45
3/4	0.6615	7.938	2 1/4	5.594	67.13
1	1.1760	14.110	2 1/2	7.350	88.20
1 1/4	1.8380	22.050	3	10.580	127.00

TYPE 304 STAINLESS STEEL ROUND BAR

Size in Inches	Weight Lbs. Per Ft.	Est. Wt. Per 12' Length	Size in Inches	Weight Lbs. Per Ft.	Est. Wt. Per 12' Length
*1/8	0.042	0.50	1 5/8	7.051	84.61
*3/16	0.094	1.13	1 11/16	7.600	91.20
*1/4	0.167	2.00	1 3/4	8.178	98.14
*5/16	0.261	3.13	1 7/8	9.388	112.66
*3/8	0.376	4.51	1 15/16	10.020	120.24
7/16	0.511	6.13	2	10.681	128.17
*1/2	0.668	8.02	2 3/16	12.780	153.30
9/16	0.845	10.14	2 1/4	13.519	162.23
5/8	1.043	12.52	2 1/2	16.690	200.28
3/4	1.502	18.02	2 3/4	20.195	242.34
7/8	2.044	24.53	3	24.003	288.40
1	2.670	32.04	3 1/4	28.206	338.47
1 1/8	3.380	40.56	3 1/2	32.712	392.54
1 3/16	3.766	45.19	3 3/4	37.522	450.62
1 1/4	4.172	50.06	4	42.726	512.71
1 5/16	4.600	55.20	4 1/4	48.233	578.79
1 3/8	5.049	60.59	4 1/2	54.075	648.90
1 7/16	5.518	66.22	5	66.759	801.11
1 1/2	6.008	72.10	5 1/2	80.778	969.34
1 9/16	6.520	78.24	6	96.133	1153.60

* Cold Drawn

TYPE 304 STAINLESS STEEL SQUARE BAR

(Reference Only)

Size in Inches	Weight Lbs. Per Ft.	Est. Wt. Per 12' Length	Size in Inches	Weight Lbs. Per Ft.	Est. Wt. Per 12' Length
1/8	0.053	0.637	3/4	1.91	22.96
3/16	0.120	1.43	7/8	2.60	31.24
1/4	0.213	2.56	1	3.40	40.80
5/16	0.332	3.98	1 1/8	4.30	51.64
3/8	0.478	5.74	1 1/4	5.31	63.76
7/16	0.651	7.81	1 1/2	7.65	91.80
1/2	0.850	10.20	1 3/4	10.41	124.90
5/8	1.330	15.94	2	13.60	163.20

CONCRETE REINFORCING BARS

Size	Wt./ft.	Wt./20 ft.
1/4" O # 2	0.167	3.34
3/8" O # 3 (#10M)	0.376	7.52
1/2" O # 4 (#13M)	0.668	13.36
5/8" O # 5 (#16M)	1.043	20.86
3/4" O # 6 (#19M)	1.502	30.04
7/8" O # 7 (#22M)	2.043	40.85
1" O # 8 (#25M)	2.670	53.40
1-1/8" O # 9 (#29M)	3.400	68.00
1-1/4" O #10 (#32M)	4.303	86.06
1-3/8" O #11 (#36M)	5.313	102.26

WELDED WIRE MESH FABRIC 5' x 150' (750 SQ. FT.)

	Weight per roll
6 x 6/10-10 (W1.4/W1.4)	157.5#
6 x 6/8-8 (W2.1/W2.1)	225#
6 x 6/6-6 (W2.9/W2.9)	315#
6 x 6/4-4 (W4.0/W4.0)	435#

WE DO CUSTOM WORK!!

BEAM WORK:	Splitting and cambering
FLAME CUTTING:	To 6" thick
PLASMA CUTTING:	To 1-1/4" thick
PRESS BRAKE:	400 ton x 16 ft. 2,000 ton x **60 ft.**
PUNCHING:	Up to 1-1/2" diameter in 1-1/4" plate
SAW:	Cut to length and bundle cutting
SHEAR:	12 ft. length from 16 ga. thru 3/8" plate 10 ft. length 3/8" thru 3/4" plate

STRIP – HOT ROLLED AND COLD ROLLED

Size in Inches	Wt./Ft.	Wt./20'
1/8 x 1/2	0.2130	4.26
5/8	0.2656	5.31
3/4	0.3188	6.38
1	0.4250	8.50
1-1/4	0.5313	10.63
1-1/2	0.6375	12.75
1-3/4	0.7440	14.88
2	0.850	17.00
2-1/4	0.956	19.13
2-1/2	1.063	21.26
2-3/4	1.169	23.28
3	1.275	25.50
3-1/2	1.488	29.76
4	1.700	34.00
4-1/2	1.913	38.26
5	2.125	42.50
5-1/2	2.338	46.00
6	2.550	51.00
7	2.975	59.50
8	3.400	68.00
10	4.250	85.00
12	5.100	102.00
3/16 x 1/2	0.3188	6.38
5/8	0.3990	7.98
3/4	0.4780	9.56
1	0.6375	12.75
1-1/4	0.7969	15.94
1-1/2	0.9560	19.12
1-3/4	1.1160	22.32
2	1.275	25.50
2-1/4	1.434	28.68
2-1/2	1.594	31.88
2-3/4	1.753	35.06
3	1.913	38.26
3-1/2	2.231	44.62
4	2.550	51.00
4-1/2	2.869	57.38
5	3.188	63.76
5-1/2	3.506	70.12
6	3.828	76.50
7	4.463	89.26
8	5.100	102.00
9	5.740	114.80
10	6.375	127.50
11	7.020	140.40
12	7.650	153.00

FLATS

Hot Rolled and Cold Rolled

Size In Inches		Wt./Ft.	Wt./20'
1/4 x	1/2	0.4520	8.50
	5/8	0.5308	10.62
	3/4	0.6375	12.75
	1	0.850	17.00
	1 1/4	1.063	21.26
	1 3/8	1.169	23.38
	1 1/2	1.275	25.50
	1 3/4	1.488	29.76
	2	1.700	34.00
	2 1/4	1.913	38.36
	2 1/2	2.125	42.50
	2 3/4	2.338	46.76
	3	2.550	51.00
	3 1/4	2.763	55.26
	3 1/2	2.975	59.50
	3 3/4	3.188	63.76
	4	3.400	68.00
	4 1/4	3.613	72.26
	4 1/2	3.825	76.50
	5	4.250	85.00
	5 1/4	4.460	89.20
	5 1/2	4.675	93.50
	6	5.100	102.00
	7	5.950	119.00
	7 1/2	6.375	127.50
	8	6.800	136.00
	9	7.650	153.00
	10	8.500	170.00
	11	9.360	187.20
	12	10.200	204.00

Size in Inches		Wt./Ft.	Wt./20'
5/16 x	1/2	0.5310	10.62
	3/4	0.7969	15.94
	1	1.063	21.26
	1 1/4	1.328	26.56
	1 1/2	1.594	31.88
	1 3/4	1.859	37.18
	2	2.125	42.50
	2 1/4	2.391	47.80
	2 1/2	2.660	53.20
	2 3/4	2.922	58.40
	3	3.188	63.76
	3 1/4	3.453	69.06
	3 1/2	3.719	74.40
	4	4.250	85.00
	4 1/4	4.520	90.40
	4 1/2	4.781	95.60
	5	5.313	106.20
	5 1/4	5.580	111.60
	5 1/2	5.844	116.60
	6	6.385	127.60
	6½	6.912	138.24
	7	7.438	148.80
	8	8.500	170.00
	9	9.570	191.40
	10	10.640	212.80
	11	11.700	234.00
	12	12.760	255.20

CHECK OUR COLD ROLLED STOCK IN 12' LENGTHS!

FLATS (Continued)
Hot Rolled and Cold Rolled

Size in Inches		Wt./Ft.	Wt./20'
3/8 x	1/2	0.638	12.75
	3/4	0.956	19.12
	7/8	1.116	22.32
	1	1.275	25.50
	1 1/4	1.590	31.80
	1 3/8	1.753	35.06
	1 1/2	1.910	38.20
	1 3/4	2.231	44.60
	2	2.550	51.00
	2 1/4	2.869	57.38
	2 1/2	3.188	63.76
	2 3/4	3.506	70.12
	3	3.825	76.50
	3 1/4	4.144	82.80
	3 1/2	4.463	89.20
	4	5.100	102.00
	4 1/4	5.420	108.40
	4 1/2	5.738	114.76
	5	6.375	127.50
	5 1/4	6.690	133.80
	5 1/2	7.013	140.20
	6	7.650	153.00
	6 1/2	8.288	166.00
	7	8.925	178.50
	8	10.20	204.00
	9	11.48	229.60
	10	12.75	255.00
	11	14.04	280.80
	12	15.30	306.00

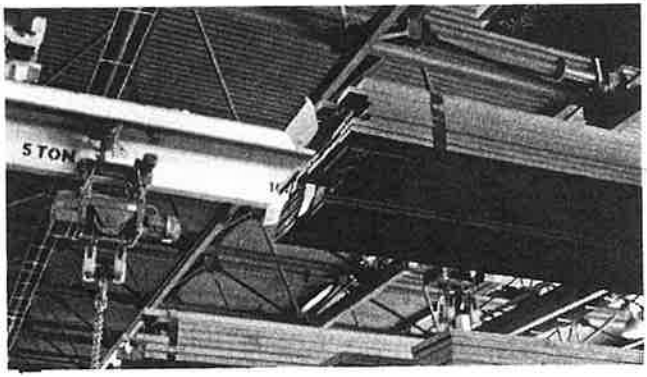
Size in Inches		Wt./Ft.	Wt./20'
1/2 x	3/4	1.275	25.50
	1	1.700	34.00
	1 1/4	2.125	42.50
	1 1/2	2.550	51.00
	1 3/4	2.975	59.50
	2	3.400	68.00
	2 1/4	3.825	76.50
	2 1/2	4.250	85.00
	2 3/4	4.675	93.50
	3	5.100	102.00
	3 1/4	5.525	110.50
	3 1/2	5.950	119.00
	4	6.800	136.00
	4 1/4	7.230	144.60
	4 1/2	7.650	153.00
	5	8.500	170.00
	5 1/4	8.925	178.50
	5 1/2	9.350	187.00
	6	10.20	204.00
	6 1/2	11.05	221.00
	7	11.90	238.00
	8	13.60	272.00
	9	15.30	306.00
	10	17.00	340.00
	11	18.72	374.40
	12	20.40	408.00

CHECK OUR COLD ROLLED STOCK IN 12' LENGTHS!

FLATS (Continued)
Hot Rolled and Cold Rolled

Size in Inches		Wt./Ft.	Wt./20'
5/8 x	1	2.125	42.50
	1 1/4	2.656	53.12
	1 1/2	3.188	63.76
	1 3/4	3.719	74.38
	2	4.250	85.00
	2 1/4	4.781	95.62
	2 1/2	5.313	106.26
	2 3/4	5.844	116.88
	3	6.375	127.50
	3 1/4	6.906	138.12
	3 1/2	7.438	148.76
	4	8.500	170.00
	4 1/4	9.030	180.60
	4 1/2	9.563	191.26
	5	10.63	212.60
	5 1/4	11.16	223.20
	5 1/2	11.69	233.80
	6	12.75	255.00
	7	14.88	297.60
	8	17.00	340.00
	9	19.13	382.60
	10	21.25	425.00
	11	23.40	468.00
	12	25.50	510.00

Size in Inches		Wt./Ft.	Wt./20'
3/4 x	1	2.550	51.00
	1 1/4	3.188	63.76
	1 1/2	3.825	76.50
	1 3/4	4.463	89.00
	2	5.100	102.00
	2 1/4	5.738	114.76
	2 1/2	6.375	127.50
	2 3/4	7.013	140.20
	3	7.650	153.00
	3 1/4	8.288	165.76
	3 1/2	8.925	178.50
	4	10.20	204.00
	4 1/4	10.84	216.80
	4 1/2	11.48	229.60
	5	12.75	225.00
	5 1/4	13.39	267.80
	5 1/2	14.03	280.60
	6	15.30	306.00
	7	17.85	357.00
	8	20.40	408.00
	9	22.95	459.00
	10	25.50	510.00
	11	28.05	561.00
	12	30.60	612.00



CHECK OUR COLD ROLLED STOCK IN 12' LENGTHS!

FLATS (Continued)
Hot Rolled and Cold Rolled

Size in Inches			Wt./Ft.	Wt./20'
7/8	x	1	2.975	59.50
		1 1/4	3.719	74.38
		1 1/2	4.463	89.26
		1 3/4	5.206	104.12
		2	5.950	119.00
		2 1/4	6.694	133.88
		2 1/2	7.438	148.76
		2 3/4	8.181	163.62
		3	8.925	178.50
		3 1/4	9.670	193.40
		3 1/2	10.41	208.26
		4	11.90	238.00
		4 1/4	12.64	252.88
		4 1/2	13.39	267.80
		5	14.88	297.60
		5 1/4	15.62	312.40
		5 1/2	16.36	327.20
		6	17.85	357.00
		7	20.83	436.60
		8	23.80	476.00
		9	26.80	536.00
		10	29.80	596.00
		11	32.80	656.00
		12	35.70	714.00
1	x	1 1/8	3.825	76.50
		1 1/4	4.250	85.00
		1 1/2	5.100	102.00
		1 5/8	5.525	110.50
		1 3/4	5.950	119.00
		2	6.800	136.00
		2 1/4	7.650	153.00
		2 1/2	8.500	170.00
		2 3/4	9.350	187.00
		3	10.20	204.00
		3 1/4	11.05	221.00
		3 1/2	11.90	238.00
		4	13.60	272.00
		4 1/4	14.45	289.00
		4 1/2	15.30	306.00

Size in Inches			Wt./Ft.	Wt./20'
1	x	5	17.00	340.00
		5 1/4	17.85	357.00
		5 1/2	18.70	374.00
		6	20.40	408.00
		7	23.80	476.00
		8	27.20	544.00
		9	30.60	612.00
		10	34.00	680.00
		11	37.44	748.80
		12	40.80	816.00
1 1/8	x	2	7.650	153.00
		2 1/2	9.560	191.20
		3	11.48	229.60
		4	15.30	306.00
		5	19.13	382.00
		5 1/2	21.04	420.80
		6	22.95	459.00
1 1/4	x	1 1/2	6.375	127.50
		1 3/4	7.438	148.76
		2	8.500	170.00
		2 1/4	9.563	191.26
		2 1/2	10.63	212.60
		2 3/4	11.69	233.80
		3	12.75	255.00
		3 1/4	13.81	276.20
		3 1/2	14.88	297.60
		4	17.00	340.00
		4 1/2	19.13	382.60
		5	21.25	425.00
		5 1/2	23.38	467.60
		6	25.50	510.00
		7	29.75	595.00
		8	34.04	680.08
		9	38.30	766.00
		10	42.55	851.00
		11	46.80	936.00
		12	51.06	1021.20

FLATS (Continued)
Hot Rolled and Cold Rolled

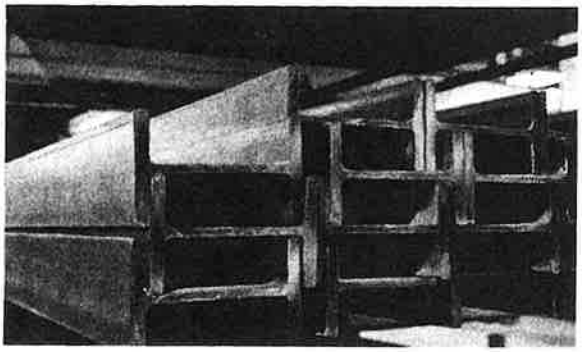
Size in Inches		Wt./Ft.	Wt./20'
1 1/2 x	1 3/4	8.93	178.60
	2	10.20	204.00
	2 1/4	11.48	153.00
	2 1/2	12.75	255.00
	2 3/4	14.03	280.60
	3	15.30	306.00
	3 1/2	17.85	357.00
	4	20.40	408.00
	4 1/2	22.95	459.00
	5	25.50	510.00
	5 1/2	28.05	561.00
	6	30.60	612.00
	7	35.70	714.00
	8	40.80	816.00
	9	45.90	918.00
	10	51.00	1020.00
	11	56.10	1122.00
	12	61.20	1224.00
1 3/4 x	2	11.90	238.00
	2 1/2	14.88	297.60
	2 3/4	16.36	327.20
	3	17.85	357.00
	3 1/2	20.83	416.60
	4	23.80	476.00
	4 1/2	26.78	535.60
	5	29.75	595.00
	6	35.70	714.00
	8	47.60	952.00
	9	53.60	1072.00
	10	59.56	1191.20
	11	65.51	1310.20
	12	71.47	1429.40

Size in Inches		Wt./Ft.	Wt./20'
2 x	2 1/4	15.30	306.00
	2 1/2	17.00	340.00
	3	20.40	408.00
	3 1/2	23.80	476.00
	4	27.20	544.00
	4 1/2	30.60	612.00
	5	34.00	680.00
	6	40.80	816.00
	7	47.60	952.00
	8	54.40	1088.00
	9	61.26	1225.20
	10	68.00	1360.00
	11	74.90	1498.00
	12	81.60	1632.00
2 1/4 x	3	22.95	459.00
	4	30.60	612.00
2 1/2 x	3	25.50	510.00
	3 1/2	29.75	595.00
	4	34.00	680.00
	4 1/2	38.25	765.00
	5	42.50	850.00
	6	51.00	1020.00
3 x	4	40.80	816.00
	4 1/2	45.90	918.00
	5	51.00	1020.00
	6	61.29	1224.00

STAINLESS STEEL FLAT BAR – 304

Size in Inches			Weight Lbs. Per Ft.	Est. Wt. Per 12' Length
1/8	x	1/2	0.219	2.628
		3/4	0.328	3.936
		1	0.438	5.256
		1 1/4	0.547	6.564
		1 1/2	0.656	7.872
		2	0.875	10.500
		3	1.312	15.740
		4	1.750	21.000
3/16	x	3/4	0.536	6.432
		1	0.715	8.580
		1 1/4	0.894	10.730
		1 1/2	1.070	12.840
		2	1.430	17.160
		2 1/2	1.790	21.480
		3	2.140	25.680
		4	2.860	34.320
1/4	x	1/2	0.465	5.580
		3/4	0.698	8.376
		1	0.930	11.160
		1 1/4	1.160	13.920
		1 1/2	1.400	16.800
		1 3/4	1.630	19.560
		2	1.860	22.320
		2 1/2	2.330	27.960
1/4	x	3	2.790	33.48
		4	3.720	44.64
		5	4.250	51.00
		6	5.580	66.96
3/8	x	3/4	0.956	11.470
		1	1.370	16.440
		1 1/4	1.720	20.640
		1 1/2	2.060	24.720
		2	2.750	33.000
		2 1/2	3.440	41.280
		3	4.130	49.560
		4	5.500	66.000
1/2	x	1	1.805	21.660
		1 1/2	2.700	32.400
		2	3.610	43.320
		2 1/2	4.510	54.120
		3	5.410	64.920
		4	7.220	86.640
		6	10.830	130.000
5/8	x	1 1/2	3.190	38.26

Please specify grade when ordering



ALUMINUM FLAT BAR – 6061T6

Size in Inches			Approx. Wt. per Lin. Ft.	Approx. Wt. per 12' Length
1/8	x	1/2	.076	0.91
		5/8	.095	1.14
		3/4	.114	1.37
		1	.152	1.82
		1 1/4	.189	2.27
		1 1/2	.227	2.72
		2	.303	3.64
3/16	x	1/2	.114	1.37
		5/8	.142	1.70
		3/4	.170	2.04
		1	.227	2.72
		1 1/4	.284	3.41
		1 1/2	.341	4.09
		2	.455	5.46
1/4	x	1/2	.152	1.82
		5/8	.189	2.27
		3/4	.227	2.72
		7/8	.265	3.18
		1	.303	3.64
		1 1/4	.379	4.55
		1 1/2	.455	5.46
		2	.606	7.27
		2 1/2	.736	8.83
		3	.909	10.91
		4	1.212	138.24
		5	1.469	17.00
		6	1.762	21.14
5/16	x	1/2	.189	2.27
		3/4	.284	3.41
		1	.379	4.55
		1 1/4	.473	5.68
		1 1/2	.568	6.82
		2	.758	9.10

Size in Inches			Approx. Wt. per Lin. Ft.	Approx. Wt. per 12' Length
3/8	x	1/2	.227	2.72
		5/8	.284	3.41
		3/4	.341	4.09
		1	.455	5.46
		1 1/4	.568	6.82
		1 1/2	.682	8.18
		1 3/4	.795	9.54
		2	.909	10.91
		2 1/2	1.136	13.63
		3	1.364	16.37
		4	1.818	21.82
		6	2.727	32.72
1/2	x	5/8	.379	4.55
		3/4	.455	5.46
		7/8	.530	6.36
		1	.606	7.27
		1 1/4	.758	9.10
		1 1/2	.909	10.91
		1 3/4	1.061	12.73
		2	1.212	14.54
		2 1/2	1.515	18.18
		3	1.818	21.82
		4	2.424	29.09
		6	3.636	43.63
		8	4.703	56.44
1	x	2	2.352	28.22

STEEL PLATES

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
3/16	0.1875-0.2175	48	7.66	306.40
		60	7.66	383.00
		72	7.66	459.60
		84	7.66	536.20
		96	7.66	612.80
1/4	0.250-0.280	48	10.21	408.40
		60	10.21	510.50
		72	10.21	612.60
		84	10.21	714.70
		96	10.21	816.80
5/16	0.3125-0.3425	48	12.76	510.40
		60	12.76	638.00
		72	12.76	765.60
		84	12.76	893.20
		96	12.76	1020.80
3/8	0.375-0.405	48	15.32	612.80
		60	15.32	766.00
		72	15.32	919.20
		84	15.32	1072.40
		96	15.32	1225.60
7/16	0.4375-0.4675	48	17.87	714.80
		60	17.87	893.50
		72	17.87	1072.20
		84	17.87	1250.90
1/2	0.500-0.530	48	20.42	816.80
		60	20.42	1021.00
		72	20.42	1225.20
		84	20.42	1429.40
		96	20.42	1633.60

STEEL PLATES (Continued)

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
9/16	0.5625-0.5925	48	22.97	918.80
		60	22.97	1148.50
		72	22.97	1378.20
5/8	0.625-0.655	48	25.53	1021.20
		60	25.53	1276.50
		72	25.53	1531.80
3/4	0.750-0.780	48	30.63	1225.20
		60	30.63	1531.50
		72	30.63	1837.80
7/8	0.875-0.905	48	35.74	1429.60
		60	35.74	1787.00
		72	35.74	2144.40
1	1.000-1.0600	48	40.84	1633.60
		60	40.84	2042.00
		72	40.84	2450.40
		84	40.84	2858.80
	1.000-1.070	96	40.84	3267.20
1 1/8	1.125-1.185	48	45.95	1838.00
1 1/4	1.250-1.310	48	51.05	2042.00
		60	51.05	2552.50
		72	51.05	3063.00
1 1/2	1.500-1.560	48	61.26	2450.40
		60	61.26	3063.00
		72	61.26	3675.60
1 3/4	1.750-1.810	48	71.47	2858.80
		60	71.47	3573.50
		72	71.47	4288.20
2	2.000-2.090	48	81.68	3267.20
		60	81.68	4084.00
	2.000-2.100	72	81.68	4900.80

STEEL PLATES (Continued)

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
2 1/2	2.500-2.590	48	102.10	4084.00
3	3.000-3.110	48	122.52	4900.80
4	4.000-4.150	48	163.36	6534.40
5	5.000-5.150	48	204.20	8168.00
6	6.000-6.240	48	245.04	9801.60

ABRASION RESISTANT PLATE (AR-235)

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
10 ga	0.1265-0.1425	48	5.625	225.00
		60	5.625	281.25
3/16	0.1875-0.2175	48	7.660	306.40
1/4	0.2500-0.2800	48	10.210	408.40

FLOOR PLATE

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
14 ga.	0.0690-0.0970	48	3.75	150.00
1/8	0.1110-0.1390	48	6.16	246.40
		60	6.16	308.00
		72	6.16	369.40
3/16	0.1730-0.2030	48	8.71	348.40
		60	8.71	435.50
		72	8.71	522.60
1/4	0.2330-0.2670	48	11.26	450.40
		60	11.26	563.00
		72	11.26	675.60

FLOOR PLATE

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
5/16	0.2945-0.3305	48	13.81	553.60
		60	13.81	690.50
		72	13.81	828.60
3/8	0.3570-0.3930	48	16.37	654.80
		60	16.37	818.50
		72	16.37	982.20
1/2	0.4800-0.5200	48	21.47	858.80
		60	21.47	1073.50
		72	21.47	1288.20

ALUMINUM FLOOR PLATE

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt. 8'	Wt. 16'
		6061-T6 (DULL FINISH)			
1/8	0.110-0.135	48	1.905	60.96	121.92
3/16	0.165-0.201	48	2.794	89.41	178.82
		3003 "TREADBRITE" (BRIGHT FINISH)			
.063	N/A	48	1.041	33.31	N/A
.100	0.088-0.108	48	1.570	50.20	100.50
1/8	0.110-0.135	48	1.925	61.60	123.20
3/16	0.165-0.201	48	2.823	90.34	180.67

WE DO CUSTOM WORK!!

ALUMINUM PLATE – 3003

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
1/8	0.119-0.1305	48	1.764	70.56
3/16	0.179-0.197	48	2.681	107.24
1/4	0.236-0.264	48	3.528	141.12
5/16	0.299-0.327*	48	4.417	176.68
3/8	0.358-0.392	48	5.292	211.68
1/2	0.477-0.523	48	7.056	282.24
5/8	0.602-0.648	48	8.820	352.80
3/4	0.719-0.781	48	10.584	423.36
7/8	0.844-0.906	48	12.348	493.92
1	0.961-1.039	48	14.112	564.48
1 1/4	1.211-1.289	48	17.640	705.60
1 1/2	1.461-1.539	48	21.168	846.72
2	1.945-2.055	48	28.224	1128.96
2 1/2	2.425-2.575	48	35.280	1411.20
3	2.925-3.075	48	42.336	1693.44

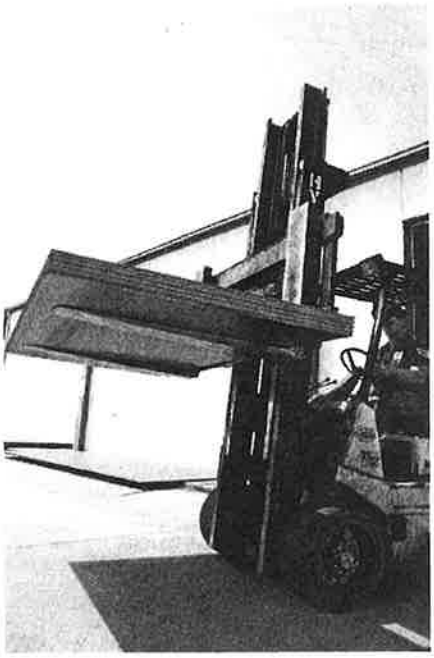
*** NOTE:** Aluminum plate over 1/4" thick is not generally available in 3003.

STAINLESS STEEL PLATE – 304

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
3/16	0.143-0.233	48	8.58	343.20
1/4	0.205-0.295	48	11.16	446.40
5/16	0.268-0.358	48	13.75	550.00
3/8	0.320-0.430	48	16.50	660.00
1/2	0.455-0.555	48	21.66	866.40
5/8	0.570-0.680	48	26.83	1073.20
3/4	0.690-0.810	48	32.12	1284.80
7/8	0.805-0.945	48	37.29	1491.60
1	0.930-1.070	48	42.67	1076.80
1 1/8	1.055-1.205	48	47.83	1913.20
1 1/4	1.180-1.320	48	53.00	2120.00
1 1/2	1.430-1.570	48	63.34	2533.60
1 3/4	1.625-1.875	48	73.67	2946.80
2	1.875-2.125	48	84.01	3360.40
2 1/2	2.375-2.625	48	105.10	4204.00
3	2.825-3.175	48	126.30	5052.00

STEEL SHEETS

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
16 ga.	.0538-.0658	48	2.50	100.00
		60	2.50	125.00
14 ga.	.0677-.0817	48	3.125	125.00
		60	3.125	156.25
		72	3.125	187.50
12 ga.	.0966-.1126	48	4.375	175.00
		60	4.375	218.75
		72	4.375	262.59
11 ga.	.1116-.1276	48	5.00	200.00
		60	5.00	250.00
		72	5.00	300.00
10 ga.	.1265-.1425	48	5.625	225.00
		60	5.625	281.25
		72	5.625	337.50



COLD ROLLED SHEETS

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
16 ga.	.0548-.0648	48	2.500	100.00
18 ga.	.0438-.0518	48	2.000	80.00
20 ga.	.0329-.0389	48	1.500	60.00
22 ga.	.0269-.0329	48	1.250	50.00
24 ga.	.0209-.0269	48	1.000	40.00
26 ga.	.0159-.0199	48	0.750	30.00
28 ga.	.0129-.0169	48	0.625	25.00
30 ga.	.0110-.0130	48	0.500	20.00

WE DO CUSTOM WORK!!

BEAM WORK:	Splitting and cambering
FLAME CUTTING:	To 6" thick
PLASMA CUTTING:	To 1-1/4" thick
PRESS BRAKE:	400 ton 16 ga. through 1/4" x 12' up through 3/8" x 10'
PUNCHING:	Up to 1-1/2" diameter in 1-1/4" plate
SAW:	Cut to length and bundle cutting
SHEAR:	12 ft. length 16 ga. thru 3/8" plate 10 ft. length from 3/8" thru 3/4" plate

GALVANIZED SHEETS

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
10 ga.	.1292-.1472	48	5.781	231.24
11 ga.	.1143-.1323	48	5.156	206.24
12 ga.	.0994-.1174	48	4.531	181.24
14 ga.	.0705-.0865	48	3.281	131.24
16 ga.	.0575-.0695	48	2.656	106.24
18 ga.	.0466-.0566	48	2.156	86.24
20 ga.	.0356-.0436	48	1.656	66.24
22 ga.	.0296-.0376	48	1.406	56.24
24 ga.	.0236-.0316	48	1.156	46.24
26 ga.	.0187-.0247	36	0.906	27.18
		48	0.906	36.24
28 ga.	.0157-.0217	36	0.781	28.12
		48	0.781	31.24
30 ga.	.0127-.0187	36	0.656	19.68
		48	0.656	26.24

ALUMINUM SHEETS

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
.016	.0140-.0180	36	0.228	6.84
.020	.0180-.0220	36	0.285	8.55
.025	.0230-.0470	36	0.356	10.69
		48	0.356	14.26
.032	.0295-.0345	36	0.456	13.69
		48	0.456	18.25
.040	.0365-.0435	36	0.570	17.11
		48	0.570	22.81
.050	.0465-.0535	36	0.713	21.38
		48	0.713	28.51
.063	.0595-.0665	48	0.898	35.92
		60	0.898	44.90
.080	.0755-.0845	48	1.141	45.64
		60	1.141	57.05
.090	.0855-.0945	48	1.283	51.32
		60	1.283	64.15
.100	.0945-.1055	48	1.426	57.04
		60	1.426	71.30

STAINLESS STEEL SHEETS

Size	Tolerances	Width (inches)	Wt. Sq. Ft.	Wt.10'
28 ga.	.0135-.0165	36	0.630	18.90
26 ga.	.0165-.0195	36	0.756	22.68
		48	0.756	30.24
24 ga.	.0225-.0255	36	1.008	30.24
		48	1.008	40.32
22 ga.	.0280-.0320	36	1.26	37.80
		48	1.26	50.40
20 ga.	.0340-.0380	36	1.512	45.36
		48	1.512	60.48
18 ga.	.0450-.0510	48	2.016	80.64
16 ga.	.0570-.0630	48	2.520	100.80
		60	2.520	126.00
14 ga.	.0710-.0790	48	3.150	126.00
		60	3.150	157.50
12 ga.	.1000-.1100	48	4.410	176.40
		60	4.410	220.50
11 ga.	.1150-.1330	48	5.400	201.60
		60	5.400	252.00
10 ga.	.1290-.1410	48	5.670	226.80
		60	5.670	238.50

PIPE DIMENSIONS AND WEIGHTS

Nominal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Inches	Inside Dia. Inchee	Wt/Ft Pounds
1/8	.405	Sch 40 Std.	.068	.269	0.24
		Sch 80 Ex. Hvy.	.095	.215	0.31
1/4	.540	Sch 40 Std.	.088	.364	0.42
		Sch 80 Ex. Hvy.	.119	.302	0.54
3/8	.675	Sch 40 Std.	.091	.493	0.57
		Sch 80 Ex. Hvy.	.126	.423	0.74
1/2	.840	Sch 40 Std.	.109	.622	0.85
		Sch 80 Ex. Hvy.	.147	.546	1.09
		Sch 160	.188	.466	1.31
		XX Hvy.	.294	.252	1.71
3/4	1.050	Sch 40 Std.	.113	.824	1.13
		Sch 80 Ex. Hvy.	.154	.742	1.47
		Sch 160	.219	.614	1.94
		XX Hvy.	.308	.434	2.44
1	1.315	Sch 40 Std.	.133	1.049	1.68
		Sch 80 Ex. Hvy.	.179	0.957	2.17
		Sch 160	.250	0.815	2.84
		XX Hvy.	.358	0.599	3.66
1 1/4	1.660	Sch 40 Std.	.140	1.380	2.27
		Sch 80 Ex. Hvy.	.191	1.278	3.00
		Sch 160	.250	1.160	3.76
		XX Hvy.	.382	0.896	5.21
1 1/2	1.900	Sch 40 Std.	.145	1.610	2.72
		Sch 80 Ex. Hvy.	.200	1.500	3.63
		Sch 160	.281	1.338	4.86
		XX Hvy.	.400	1.100	6.41
2	2.375	Sch 40 Std.	.154	2.067	3.65
		Sch 80 Ex. Hvy.	.218	1.939	5.02
		Sch 160	.344	1.689	7.46
		XX Hvy.	.436	1.503	9.03
2 1/2	2.875	Sch 40 Std.	.203	2.469	5.79
		Sch 80 Ex. Hvy.	.276	2.323	7.66
		Sch 160	.375	2.125	10.01
		XX Hvy.	.552	1.771	13.66

PIPE DIMENSIONS AND WEIGHTS (Continued)

Nominal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Inches	Inside Dia. Inches	Wt/Ft Pounds
3	3.500	Sch 40 Std.	.216	3.068	7.58
		Sch 80 Ex. Hvy.	.300	2.900	10.25
		Sch 160	.438	2.624	14.32
		XX Hvy.	.600	2.300	18.58
3 1/2	4.000	Sch 40 Std.	.226	3.548	9.11
		Sch 80 Ex. Hvy.	.318	3.364	12.51
4	4.500	Sch 40 Std.	.237	4.026	10.79
		Sch 80 Ex. Hvy.	.337	3.826	14.98
		Sch 120	.438	3.626	19.00
		Sch 160	.531	3.438	22.51
		XX Hvy.	.674	3.152	27.54
5	5.563	Sch 40 Std.	.258	5.047	14.62
		Sch 80 Ex. Hvy.	.375	4.813	20.78
		Sch 120	.500	4.563	27.04
		Sch 160	.625	4.313	32.96
		XX Hvy.	.750	4.063	38.55
6	6.625	Sch 40 Std.	.280	6.065	18.97
		Sch 80 Ex. Hvy.	.432	5.761	28.57
		Sch 120	.562	5.501	36.39
		Sch 160	.719	5.187	45.35
		XX Hvy.	.864	4.897	53.16
8	8.625	3/16 W.	.188	8.249	16.94
		Sch 20	.250	8.125	22.36
		Sch 30	.277	8.071	24.70
		Sch 40 Std.	.322	7.981	28.55
		Sch 60	.406	7.813	35.64
		Sch 80 Ex. Hvy.	.500	7.625	43.39
		Sch 100	.593	7.439	50.95
		Sch 120	.718	7.189	60.71
		Sch 140	.812	7.000	67.76
		XX Hvy.	.875	6.875	72.42
		Sch 160	.906	6.813	74.69
10	10.750	Sch 20	.250	10.250	28.04
		Sch 30	.307	10.136	34.24
		Sch 40 Std.	.365	10.020	40.48
		Sch 60 Ex. Hvy.	.500	9.750	54.74
		Sch 80	.594	9.562	64.43
		Sch 100	.719	9.312	77.03
		Sch 120	.844	9.064	89.29
		Sch 140	1.000	8.750	104.13
		Sch 160	1.125	8.500	115.64

PIPE DIMENSIONS AND WEIGHTS (Continued)

Nominal Pipe Size Inches	Outside Dia. Inches	I.P.S. Schedule	Wall Inches	Inside Dia. Inches	Wt/Ft Pounds
12	12.750	Sch 20	.250	12.250	33.38
		Sch 30	.330	12.090	43.77
		Sch Std.	.375	12.000	49.56
		Sch 40	.406	11.938	53.52
		Sch Ex. Hvy.	.500	11.750	65.42
		Sch 60	.562	11.626	73.15
		Sch 80	.688	11.374	88.63
		Sch 100	.844	11.062	107.32
		Sch 120	1.000	10.750	125.49
		Sch 140	1.125	10.500	139.67
		Sch 160	1.312	10.126	160.27

STAINLESS STEEL PIPE – TYPE 304

(Reference Only)

Nominal Pipe Size	O.D./In.	Schedule	Wall/In.	I.D./In.	Wt./Ft.
1/8"	.405	40	.068	.269	.24
1/8"	.405	80	.095	.215	.31
1/4"	.540	40	.088	.364	.42
1/4"	.540	80	.119	.302	.54
3/8"	.675	10	.065	.545	.42
3/8"	.675	40	.091	.493	.57
3/8"	.675	80	.126	.423	.74
1/2"	.840	5	.065	.710	.54
1/2"	.840	10	.083	.674	.67
1/2"	.840	40	.109	.622	.85
1/2"	.840	80	.147	.546	1.09
3/4"	1.050	5	.065	.920	.68
3/4"	1.050	10	.083	.884	.86
3/4"	1.050	40	.113	.824	1.13
3/4"	1.050	80	.154	.742	1.47
1"	1.315	5	.065	1.185	.87
1"	1.315	10	.109	1.097	1.40
1"	1.315	40	.133	1.049	1.68
1"	1.315	80	.179	0.957	2.17

STAINLESS STEEL PIPE – TYPE 304 (Continued)

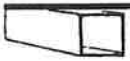
Nominal Pipe Size	O.D./In.	Schedule	Wall/In.	I.D./In.	Wt./Ft.
1-1/4"	1.660	5	.065	1.530	1.11
1-1/4"	1.660	10	.109	1.442	1.81
1-1/4"	1.660	40	.140	1.380	2.27
1-1/4"	1.660	80	.191	1.278	3.00
1-1/2"	1.900	5	.065	1.770	1.27
1-1/2"	1.900	10	.109	1.682	2.08
1-1/2"	1.900	40	.145	1.610	2.72
1-1/2"	1.900	80	.200	1.500	3.63
2"	2.375	5	.065	2.245	1.60
2"	2.375	10	.109	2.157	2.64
2"	2.375	40	.154	2.067	3.65
2"	2.375	80	.218	1.939	5.02
2-1/2"	2.875	5	.083	2.709	2.47
2-1/2"	2.875	10	.120	2.635	3.53
2-1/2"	2.875	40	.203	2.469	5.79
3"	3.500	5	.083	3.334	3.03
3"	3.500	10	.120	3.260	4.33
3"	3.500	40	.216	3.068	7.58
3-1/2"	4.000	5	.083	3.834	3.47
3-1/2"	4.000	10	.120	3.760	4.97
3-1/2"	4.000	40	.226	3.548	9.11
4"	4.500	5	.083	4.334	3.92
4"	4.500	10	.120	4.260	5.61
4"	4.500	40	.237	4.026	10.79
5"	5.563	5	.109	5.345	6.35
5"	5.563	10	.134	5.295	7.77
5"	5.563	40	.258	5.047	14.62
6"	6.625	5	.109	6.407	7.59
6"	6.625	10	.134	6.357	9.29
6"	6.625	40	.280	6.065	18.97

WEIGHT PER FOOT FORMULA

W = 10.68 (D-T) T

D = OUTSIDE DIAMETER

T = WALL THICKNESS



SQUARE TUBING

Size	Ga.	Thick-ness	Inside Dim.	Lbs./ Ft.
1/2"	16	.065	.370	0.38
3/4"	16	.065	.620	0.61
	14	.083	.584	0.75
	11	.120	.510	1.03
1"	16	.065	.870	0.83
	15	.072	.856	0.91
	14	.083	.834	1.04
	12	.109	.782	1.32
	11	.120	.760	1.44
1 1/4"	16	.065	1.120	1.05
	14	.083	1.084	1.32
	12	.109	1.032	1.69
	11	.120	1.010	1.84
	3/16	.188	0.874	2.40
1 1/2"	16	.065	1.370	1.27
	14	.083	1.334	1.60
	12	.109	1.282	2.06
	11	.120	1.260	2.25
	3/16	.188	1.124	3.04
	1/4	.250	1.000	3.70
1 3/4"	16	.065	1.620	1.49
	14	.083	1.584	1.88
	11	.120	1.510	2.66
2"	16	.065	1.870	1.71
	14	.083	1.834	2.16
	12	.109	1.782	2.80
	11	.120	1.760	3.07
	3/16	.188	1.624	4.32
	1/4	.250	1.500	5.41
2 1/2"	14	.083	2.334	2.73
	11	.120	2.260	3.98
	3/16	.188	2.124	5.59
	1/4	.250	2.000	7.11
3"	14	.083	2.834	3.29
	11	.120	2.760	4.83
	3/16	.188	2.624	6.87
	1/4	.250	2.500	8.81
	5/16	.313	2.374	10.58
	3/8	.375	2.250	12.50
3 1/2"	11	.120	3.260	5.68
	3/16	.188	3.124	8.15
	1/4	.250	3.000	10.51
	5/16	.313	2.874	12.70
4"	14	.083	3.834	4.42
	11	.120	3.760	6.53
	3/16	.188	3.624	9.42
	1/4	.250	3.500	12.21
	5/16	.313	3.374	14.83
	3/8	.375	3.250	17.27
	1/2	.500	3.000	21.63
5"	3/16	.188	4.624	11.97
	1/4	.250	4.500	15.62
	5/16	.313	4.374	19.08
	3/8	.375	4.250	22.37
	1/2	.500	4.000	28.43
6"	3/16	.188	5.624	14.53
	1/4	.250	5.500	19.02
	5/16	.313	5.374	23.34
	3/8	.375	5.250	27.48
	1/2	.500	5.000	35.24
7"	3/16	.188	6.624	17.08
	1/4	.250	6.500	22.42
	5/16	.313	6.374	27.59
	3/8	.375	6.250	32.58
	1/2	.500	6.000	42.05

SQUARE TUBING (Continued)

Size	Ga.	Thick-ness	Inside Dim.	Lbs./ Ft.
8"	3/16	.188	7.624	19.63
	1/4	.250	7.500	25.82
	5/16	.313	7.374	31.84
	3/8	.375	7.250	37.69
	1/2	.500	7.000	48.85
	5/8	.625	6.750	59.32
10"	3/16	.188	9.624	24.73
	1/4	.250	9.500	32.63
	5/16	.313	9.374	40.35
	3/8	.375	9.250	47.90
	1/2	.500	9.000	62.46
	5/8	.625	8.750	76.33
12"	1/4	.250	11.500	39.43
	5/16	.313	11.374	48.86
	3/8	.375	11.250	58.10
	1/2	.500	11.000	76.07
14"	5/16	.313	13.374	57.36
	3/8	.375	13.250	68.31
	1/2	.500	13.000	89.68
16"	5/16	.313	15.374	65.87
	3/8	.375	15.250	78.52
	1/2	.500	15.000	103.30

INSIDE DIMENSION FORMULA

OD – (2 X W) = ID

OD = OUTSIDE DIMENSION

W = WALL THICKNESS

ID = INSIDE DIMENSION

WE DO CUSTOM WORK!!

BEAM WORK:	Splitting and cambering
FLAME CUTTING:	To 6" thick
PLASMA CUTTING:	To 1-1/4" thick
PRESS BRAKE:	400 ton 16 ga. thru 1/4" x 12' up thru 3/8" x 10'
PUNCHING:	Up to 1-1/2" diameter in 1-1/4" plate
SAW:	Cut to length and bundle cutting
SHEAR:	12 ft. length from 16 ga. thru 3/8" plate 10 ft. length from 3/8" thru 3/4" plate

SQUARE AND RECTANGLE STAINLESS STEEL TUBE
TYPE 304
20' Random Lengths

Size	Ga.	Thickness	Lbs./Ft.
3/4"	16	.065	0.6050
	14	.083	0.8200
	11	.120	1.1280
1"	18	.049	0.6337
	16	.065	0.8264
	14	.083	1.0350
	12	.109	1.3208
	11	.120	1.4360
1-1/4"	18	.049	0.8003
	16	.065	1.0474
	12	.109	1.6914
	11	.120	1.8442
1-1/2"	18	.049	0.9668
	16	.065	1.2685
	14	.083	1.5995
	12	.109	2.0620
	11	.120	2.2600
2"	16	.065	1.7103
	14	.083	2.1637
	12	.109	2.8029
	11	.120	3.0678
	7	.180	4.4555
	1/4	.250	5.4100
2 x 1	11	.120	2.6600

SQUARE AND RECTANGLE ALUMINUM TUBE
21' 1" Lengths

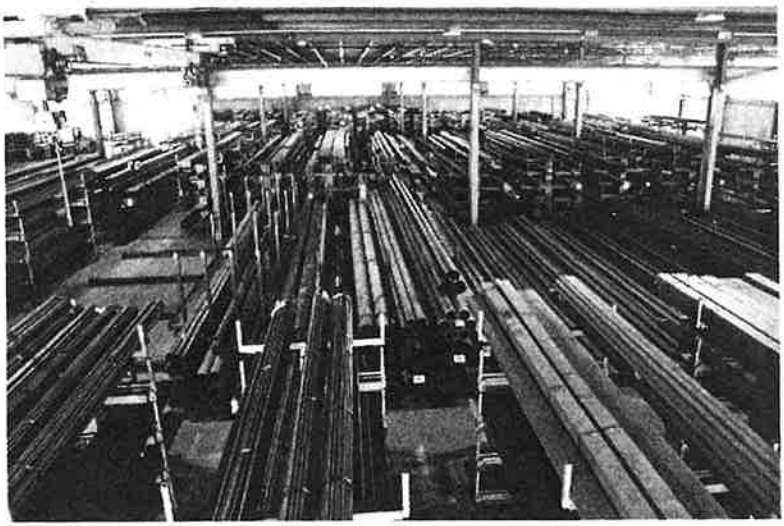
Size	Wall Thickness	Weight per Foot	Approx. Wt. per Length
3/4"	.062	.199	4.20
	.125	.364	7.67
1"	.062	.271	5.71
	.125	.509	10.73
1-1/4"	.125	.655	13.81
1-1/2"	.125	.800	16.87
1-3/4"	.125	.946	19.94
2"	.125	1.091	23.00
	.188	1.670	35.21
2 x 1 rect.	.125	.810	16.80

RECTANGULAR TUBING

Size	Ga.	Thickness	Lbs./Ft.
1 1/2 x 1/2	14	.083	1.04
1 1/2 x 3/4	16	.065	0.94
	14	.083	1.18
1 1/2 x 1	16	.065	1.05
	14	.083	1.32
	11	.120	1.84
2 x 1	16	.065	1.27
	14	.083	1.60
	11	.120	2.25
2 x 1 1/2	14	.083	1.599
	11	.120	2.66
2 1/2 x 1 1/2	14	.083	2.16
	11	.120	3.07
	3/16	.188	4.32
	1/4	.250	5.41
3 x 1	16	.065	1.71
	14	.083	2.16
	11	.120	3.07
3 x 1 1/2	14	.083	2.45
	11	.120	3.48
	3/16	.188	4.97
3 x 2	16	.065	2.15
	14	.083	2.73
	11	.120	3.88
	3/16	.188	5.59
	1/4	.250	7.11
	5/16	.313	8.44
4 x 2	14	.083	3.29
	11	.120	4.70
	3/16	.188	6.87
	1/4	.250	8.81
	5/16	.313	10.58
4 x 3	11	.120	5.60
	3/16	.188	8.15
	1/4	.250	10.51
5 x 2	11	.120	5.61
	3/16	.188	8.15
	1/4	.250	10.51
5 x 3	11	.120	6.46
	3/16	.188	9.42
	1/4	.250	12.21
	5/16	.313	14.83
	3/8	.375	17.27
	1/2	.500	21.63
5 x 4	3/16	.188	10.70
	1/4	.250	13.91
6 x 2	11	.120	6.46
	3/16	.188	9.42
	1/4	.250	12.21
	5/16	.313	14.83
	3/8	.375	17.27
6 x 3	3/16	.188	10.70
	1/4	.250	13.91
	5/16	.313	16.96
	3/8	.375	19.82
6 x 4	3/16	.188	11.97
	1/4	.250	15.62
	5/16	.313	19.08
	3/8	.375	22.37
	1/2	.500	28.43
7 x 5	3/16	.188	14.53
	1/4	.250	19.02
	5/16	.313	23.34
	3/8	.375	27.48
	1/2	.500	35.24

RECTANGULAR TUBING (Continued)

Size	Ga.	Thickness	Lbs./Ft.
8 x 2	3/16	.188	11.97
	1/4	.250	15.62
8 x 3	3/16	.188	13.25
	1/4	.250	17.32
	3/8	.375	24.93
8 x 4	3/16	.188	14.53
	1/4	.250	19.02
	5/16	.313	23.34
	3/8	.375	27.48
	1/2	.500	35.24
8 x 6	3/16	.188	17.08
	1/4	.250	22.42
	5/16	.313	27.59
	3/8	.375	32.58
	1/2	.500	42.05
10 x 2	3/16	.188	14.53
	1/4	.250	19.02
	3/8	.375	27.48
10 x 3	1/4	.250	20.72
10 x 4	1/4	.250	22.42
	3/8	.375	32.58
10 x 6	3/16	.188	19.63
	1/4	.250	25.82
	3/8	.375	37.69
10 x 8	1/4	.250	29.23
	5/16	.313	36.10
12 x 2	3/16	.188	17.08
	1/4	.250	22.42
12 x 3	1/4	.250	24.12
12 x 4	1/4	.250	25.82
12 x 6	1/4	.250	29.23
	5/16	.313	36.10
	3/8	.375	42.79
12 x 8	1/4	.250	32.63
	3/8	.375	47.90



ROUND TUBING

Outside Diameter	Gauge	Wall	Inside Diameter	Pounds /Foot
1/2"	18	.049	.402	.2360
	16	.065	.370	.3020
9/16"	18	.049	.465	.2690
	16	.065	.433	.3457
5/8"	18	.049	.527	.3014
	16	.065	.495	.3888
	14	.083	.459	.4805
3/4"	18	.049	.652	.3668
	16	.065	.620	.4755
	14	.083	.584	.5913
	12	.109	.532	.7462
	11	.120	.510	.8074
7/8"	18	.049	.777	.4323
	16	.065	.745	.5623
	14	.083	.709	.7021
1"	18	.049	.902	.4977
	16	.065	.870	.6491
	14	.083	.834	.8129
	13	.095	.810	.9182
	12	.109	.782	1.0370
	11	.120	.760	1.1280
1 1/8"	18	.049	1.027	.5631
	16	.065	.995	.7359
	14	.083	.959	.9237
	11	.120	.885	1.2880
1 1/4"	18	.049	1.152	.6285
	16	.065	1.120	.8226
	14	.083	1.084	1.0350
	13	.095	1.060	1.1720
	12	.109	1.032	1.3280
	11	.120	1.010	1.4480
	10	.134	0.982	1.5970

ROUND TUBING (Continued)

Outside Diameter	Gauge	Wall	Inside Diameter	Pounds /Foot
1 1/2"	18	.049	1.402	.7593
	16	.065	1.370	.9962
	14	.083	1.334	1.256
	13	.095	1.310	1.426
	12	.109	1.282	1.619
	11	.120	1.260	1.769
	10	.134	1.232	1.955
1 5/8"	16	.065	1.495	1.083
	14	.083	1.459	1.367
	11	.120	1.385	1.929
1.66"	16	.065	1.530	1.107
	14	.083	1.494	1.398
	12	.109	1.442	1.806
	11	.120	1.420	1.974
1 3/4"	16	.065	1.620	1.170
	14	.083	1.584	1.478
	13	.095	1.560	1.679
	12	.109	1.532	1.910
	11	.120	1.510	2.089
1 7/8"	16	.065	1.745	1.257
	14	.083	1.709	1.589
	11	.120	1.635	2.249
1.9"	16	.065	1.770	1.274
	14	.083	1.734	1.611
	12	.109	1.682	2.085
	11	.120	1.660	2.281
2"	16	.065	1.870	1.343
	14	.083	1.834	1.699
	12	.109	1.782	2.201
	11	.120	1.760	2.409
	10	.134	1.732	2.671

SPOUTING

Outside Diameter	Gauge	Wall	Inside Diameter	Pounds /Foot
6"	10	.134	5.732	8.395
8"	10	.134	7.732	11.25
	3/16	.188	7.624	15.69
10"	10	.134	9.732	14.12
	3/16	.188	9.624	19.70
12"	10	.134	11.732	17.50
	3/16	.188	11.624	23.72

D.O.M. ROUND TUBE

All sizes are 20 ft. random lengths

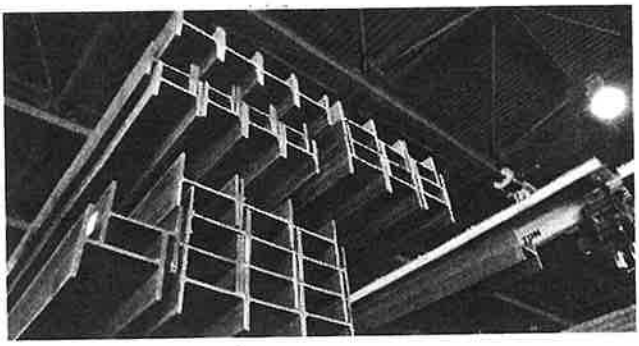
Outside Diameter	Wall Thickness	Inside Diameter	Pounds /Foot
3/4"	11 ga. (.120)	0.510	0.807
1"	11 ga. (.120)	0.760	1.128
1"	5/32 (.156)	0.688	1.406
1"	3/16 (.188)	0.625	1.630
1"	1/4 (.250)	0.500	2.003
1-1/4"	1/4 (.250)	.0750	2.670
1-1/2"	7/32 (.219)	1.062	2.996
1-1/2"	1/4 (.250)	1.000	3.338
2"	1/4 (.250)	1.500	4.673
2"	1/2 (.500)	1.000	8.010
2-1/2"	1/4 (.250)	2.000	6.008

ROUND STAINLESS STEEL TUBE

304 – 20' Lengths

(Reference Only)

Outside Diameter	Gauge	Wall	Inside Diameter	Weight per foot
3/8	20	.035	.305	.128
	16	.065	.245	.215
1/2	18	.049	.402	.236
	16	.065	.370	.302
	14	.083	.334	.375
	13	.095	.310	.411
5/8	16	.065	.495	.389
	14	.083	.459	.481
	11	.120	.385	.647
3/4	18	.049	.652	.367
	16	.065	.620	.476
	14	.083	.584	.591
	11	.120	.510	.807
7/8	18	.049	.777	.432
	16	.065	.745	.562
	14	.083	.709	.702
	11	.120	.635	.968
1	16	.065	.870	.649
	14	.083	.834	.813
	13	.095	.810	.918
	11	.120	.760	1.128
	1/4	.250	.500	3.507



EXPANDED METAL
CARBON STEEL - STANDARD/RAISED

Style *	Approx. Thickness	Weight Per Sq. Ft.	Approx. Size of Opening in Inches SWO	LWO
1/2" – #16	(.060)	0.86	.375	.938
1/2" – #13	(.092)	1.47	.312	.938
3/4" – #16	(.060)	0.54	.813	1.750
3/4" – #13	(.092)	0.80	.750	1.688
3/4" – #9	(.134)	1.80	.688	1.562
1 1/2" – #16	(.060)	0.40	1.250	2.625
1 1/2" – #13	(.092)	0.60	1.188	2.500
1 1/2" – #9	(.134)	1.20	1.125	2.375
1 1/2" – #6	(.198)	2.50	1.110	2.313

EXPANDED METAL
CARBON STEEL - FLATTENED

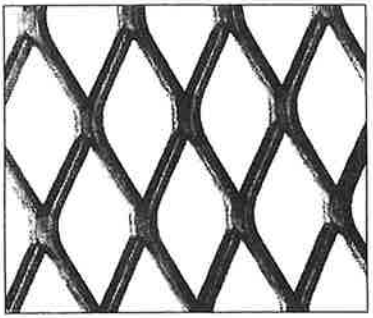
Style *	Approx. Thk. After Thickness	Weight Per Sq. Ft.	Approx. Size of Opening in Inches SWO	LWO
1/4" – #20	(.030)	0.82	.110	.715
1/4" – #18	(.040)	1.08	.118	.715
1/2" – #18	(.039)	0.66	.312	1.000
1/2" – #16	(.050)	0.82	.312	1.000
1/2" – #13	(.070)	1.40	.265	1.000
3/4" – #16	(.048)	0.51	.750	1.750
3/4" – #13	(.070)	0.75	.688	1.781
3/4" – #9	(.120)	1.71	.563	1.688
1 1/2" – #16	(.048)	0.38	1.062	2.750
1 1/2" – #13	(.070)	0.57	1.062	2.750
1 1/2" – #9	(.110)	1.14	1.000	2.563

* The first number of the style represents the nominal width of diamonds in inches measured from center to center of bonds, and the second number usually represents the approximate gage of sheet or plate before expanding. Sheets of stainless steel, aluminum or special sizes may be special ordered.

SWO = Short way of Opening
LWO = Long way of Opening

EXPANDED METAL GRATING
(Catwalk - Skywalk)

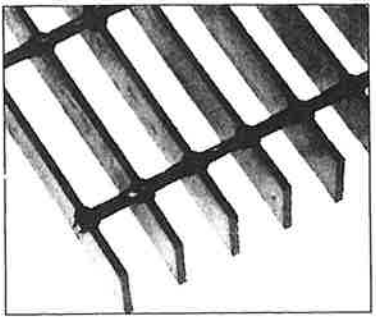
Style	Thickness	Wt./ Sq. Ft.	Approx. Size of Opening in Inches
3.0 lb. - S	.183	3.00	$^{15}/_{16}$ x $3^{7}/_{16}$
3.14 lb. - S	.250	3.14	$1^{5}/_{8}$ x $4^{7}/_{8}$
4.0 lb. - S	.215	4.00	$^{15}/_{16}$ x $3^{7}/_{16}$
4.27 lb. - S	.250	4.27	1 x $2^{7}/_{8}$
6.25 lb. - S	.312	6.25	$^{13}/_{16}$ x $3^{3}/_{8}$



BAR GRATING
Type 19-4

Bearing Bars		Wt./ Sq. Ft.	Wt. Per 3' x 20' Panel
1/8 x	1	4.9#	294
	$1^{1}/_{4}$	6.0	360
	$1^{1}/_{2}$	7.1	426
3/16 x	1	7.1	426
	$1^{1}/_{4}$	8.7	522
	$1^{1}/_{2}$	10.3	618
	2	13.8	828

Also available in 2'x20' panels, painted, galvanized, serrated-surface, aluminum and stainless steel bar grating.



SALINA STEEL SUPPLY, INC.
COLOR CODING FOR
SIZE & GRADE

WHITE
- -- 1/8" (.125)
- -- 11 GA. (.120)

RED
- -- 1045
- -- 1/4 (.250)
- -- SCH 80
- -- 13 GA.

YELLOW
- -- 15 GA. (.073)
- -- 3/16 (.1875 - .188)
- -- 12L14
- -- Low Carbon Flat
- -- M1044

BLUE
- -- 14 GA. (.083)
- -- 1/2 (.50)

GREEN
- -- 16 GA (.063)
- -- 1018
- -- 5/16 (.3125)
- -- 7/32 (.219)

PINK
- -- 12 GA. (.109)
- -- 3/8 (.375)
- -- 1144 STRESS RELIEVED

BLACK
- -- Hot Rolled Round
- -- Sch 40

NOTE: Flats 5/8" and thicker are not painted.
Beams and Channel are not included.

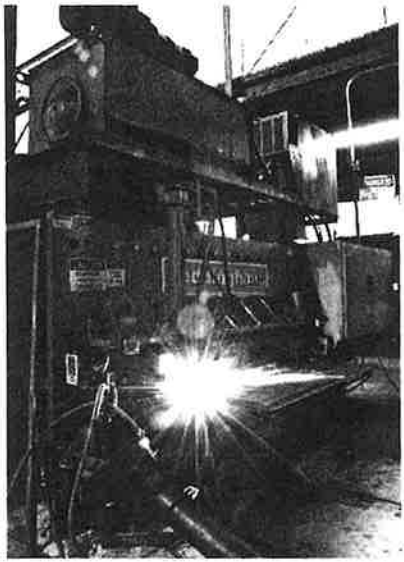
The Mai Companies are as follows:

Salina Steel Supply, Inc.	234 E. Avenue A P.O. Box 2897 Salina, KS 67402-2897 800-383-2138 (toll free) 785-825-2138 (phone) 785-822-1211 (fax) www.salinasteel.com
PKM Steel Service, Inc.	228 E. Avenue A P.O. Box 920 Salina, KS 67402-0920 785-827-3638 (phone) 785-827-0400 (fax) www.pkmsteel.com
MSS Transport, Inc.	200 E. Avenue B Salina, KS 67401 785-825-7891 (phone) 785-823-9107 (fax) www.msstrans.com
Maico, Inc.	936 Hwy. 14 P.O. Box 24 Ellsworth, KS 67439 785-472-5390 (phone) 785-472-3729 (fax) www.maicoind.com

REFERENCE INFORMATION

Thank you for utilizing your Salina Steel Supply, Inc. reference manual. We stock a large variety of standard items listed in this book and sell this material in full stock lengths. For items we do not regularly stock, we will gladly locate the material you need or refer you to a supplier in your area. Our Service **Is** The Difference.

The Salina Steel Supply office is open Monday through Friday from 8:00 a.m. to 5:00 p.m. and we are open during the noon hour. All calls and walk-in customers are welcome during this time.



ASTM

Stands for the American Society of Testing and Materials. The ASTM is an international organization that has become one of the largest voluntary standards development systems. The organization has been in existence since 1898. The standards established by ASTM govern materials, products, systems and services and are reviewed and updated on a regular basis. Although compliance is voluntary, virtually all metal producers and processors in the United States (and in foreign countries who sell metal products in the U.S.) follow the established standards. See ASTM-A-36 for an example of a standard.

ASTM-A-36 This is the industry standard for structural steels, plate and hot rolled bars. Materials that meet this standard are produced to a tensile strength of 58,000/ 80,000 Psi and a minimum yield of 36,000 Psi.

ASTM-A-572 This standard is for basic High Strength, Low Alloy steel made to specific minimum mechanical properties from 42,000 to 70,000 Psi minimum yield. Can be welded with proper techniques and has atmospheric corrosion resistance similar to carbon steels.

ALLOY STEEL

An iron-based mixture is considered to be an alloy steel when manganese is greater than 1.65%, silicon is over 0.5%, copper above 0.6%, or other minimum quantity of alloying elements such as nickel, chromium, molybdenum, vanadium, or tungsten. A wide variety of distinct properties can be created for steel by substituting these elements in the recipe. Alloy steels intentionally contain these elements in amounts as to alter the physical properties of the steel to improve mechanical properties, machine strength, machinability, resistance to corrosion, etc.

ALUMINUM

Aluminum is a lightweight, strong metal produced from alumina, which is processed from bauxite ore. It is ductile with tensile strength and is malleable (ductile). Although resistant to corrosion, it can be attacked by acids and alkalis. Used in articles that require lightness, corrosion resistance or electrical conductivity.

Extrusion A shaped piece of metal (typically non-ferrous, such as Aluminum) produced by forcing a bloom, bar or rod through a die of appropriate shape and size.

3003 This is a non-heat treatable common alloy with 1.2% manganese to provide a tensile strength range of 17,000 to 30,000 Psi. Excellent workability, weldability and corrosion resistance. Used for drawing, spinning, fuel tanks, sheet metal work and other applications where slightly higher strength is required. SSS, Inc. stocks aluminum floor plate, plate and sheet in this grade.

5052 This is a non-heat treatable alloy with 2.5% manganese. Tensile strength ranges from 31,000 to 44,000 Psi. Very good corrosion resistance, good workability, weldability and strength. Used for storm shutters, refrigerator liners, utensils, electronic mounting plates and panels, fan blades, etc.

6061 This is a heat-treatable strong alloy with 1.0% manganese and 0.6% silicon. Tensile strength ranges from 20,000 to 42,000 Psi. It is weldable and corrosion resistance. Used for engineering and structural applications, boats, furniture, transportation equipment, etc. Salina Steel Supply, Inc. stocks 6061 grade aluminum in angle, channel, flat bar and round bar.

6063 A grade for extruded shapes; this is generally used for architectural and ornamental applications. It is highly corrosion resistant and is one of the most readily weldable alloys. The finish is suitable for anodizing.

Salina Steel Supply stocks aluminum products as follows:

Angle	6061-T6	Floor Plate	3003-H14
Channel	6061-T6	Plate & Sheet	3003-H14
Round Bar	6061-T6	Pipe	6061-T6
Square Bar	6061-T6	Square & Rectangle Tube	6063-T6 (generally)
Flat Bar	6061-T6		

BEAM

Standard Beam Also called "I" beam or "S" beam. A structural section on which the flanges are tapered and are typically not as long as the flanges on wide-flange beams. The flanges are thicker at the cross sections and thinner at the outside tips of the flanges. Standard beams are produced with depths of 3 to 24 inches.

Wide Flange Beam Also called "H" or "W" beam. Structural sections on which the flanges are not sloped (or tapered), but have equal thickness from the outside tip to the web and are at right angles to the web. Wide flange beams are differentiated by the width of the web; height can range from 3 to more than 40 inches and by the weight of the beam, measured in pounds per foot.

H Piling Beam A wide flange beam whose web height and flange width are the same or very close in size (i.e., 10" tall with 10" wide flanges). In addition, the web thickness is greater than for wide flange beams. Often used in road and bridge construction.

Junior Beam A beam with a thinner web and flanges. Flanges may or may not be sloped and are narrower than flanges on Standard or Wide Flange beams. This reduction in thickness produces a beam that is lighter in weight as well.

Salina Steel Supply beam stock is generally carried in 20 foot and 40 foot lengths.

FLAT BAR

Flat bars (also called rectangle bars) are solid pieces of steel produced to a specific thickness and width. Can be either a milled product or a slit from plate / sheet material.

Mill Edge — refers to a mill-produced product that has slightly rounded edges.

Slit Edge — refers to material slit from plate / sheet which may produce a roughened or burred edge. Usually, the edges are then de-burred or edge-conditioned and the edges are more squared (sharper) than mill edge material. Slit edge material is produced in sizes that are not commonly produced by mills. Often, 1/8" and 3/16" thick sizes are slit edged as well as up to 1/4" thick sizes that have widths that end in a 1/4". Example: 1/4" x 3-1/4" flat bar or 1/4" x 2-3/4" flat bar.

Flat Bar — Solid rectangle steel bar that is over 3/16" thick and less than 8" wide. However, strip and universal mill plate (see below) with sizes outside of this range are also known by the generic name of flat bar.

Hot Rolled Flat Bar — (ASTM-A-36) A low carbon ("mild") steel bar designed for general purpose and structural applications. Minimal physical properties are 36,000 Psi yield strength and 58,000 to 80,000 Psi tensile strength. Hot rolled flat bar is produced in 20 foot lengths.

Cold Finished Flat Bar — Begins as hot rolled flat bar. It is then cold worked through a die in a series of mill stands to obtain improved surface finish, and tighter dimensional tolerances. Cold finished flat bar is produced in 12 foot (random) lengths.

M1044 — Merchant quality (MQ) bar has less manganese than 1045 bar and is generally cheaper while having similar quality. This is a medium carbon steel often used in the manufacture of agricultural and construction equipment. In this material, the "M" refers to Merchant Quality; the "10" means it is a carbon product; the "44" refers to the amount of carbon (0.40 - 0.50).

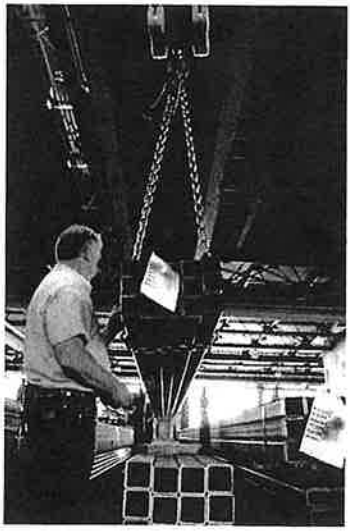
FLAT BAR (con't.)

1045 This is a medium carbon steel with greater strength and hardness than low carbon steel flat bars. Responds to heat treatment and can be hammer forged. In this material, the "10" means it is a carbon product; the "45" refers to the amount of carbon (0.43 - 0.50).

Pickled & Oiled Pickling is a process where rust, dirt and oils are removed from the surface of the bar by dipping the bar in a series of acid baths. A coating of oil is then applied to the bar to reduce oxidation (rust).

Strip Solid rectangular bar that is 1/8" or 3/16" thick is often referred to strip or flat strip. May also be referred to as flat bar.

Universal Mill Plate Solid rectangular bar that is a minimum of 1/4" thick and 8" to 12" wide. May also be referred to as flat bar.



GALVANIZED STEEL

Steel coated with a layer of zinc to provide corrosion resistance is called galvanized steel. The coating can be applied three ways.

Hot Dipped Material is sent through a series of acid baths to remove rust and surface particles, then rinsed. It is then dipped into a vat of molten zinc for a prescribed period of time then air-dried. SSS, Inc. stocks several sizes of hot dipped galvanized angle, channel, flat bar and square tube. Holes are generally drilled or torched into one or both ends of material so that the material may be attached to a wire or chain for dipping. This process usually applies the thickest coating of zinc and the thickness is determined by the amount of time the material is in the zinc kettle. Hot dipping adds approximately 5% to 7% weight to the product.

Continuous Hot Dipped This process consists of passing the continuous length of sheet through a molten bath of zinc, followed by an air stream "wipe" that controls the thickness of the zinc finish. This is how (regular) galvanized sheet metal is produced. SSS, Inc. stocks galvanized sheet metal in the g-90 (min. 0.90 oz. per foot) finish in thicknesses of 10 ga. to 26 ga., and in g-40 or 60 (light commercial) in 28 ga. material.

Galvannealed: In this product, the spangle is eliminated by heat-treating the sheets after coating which produces a zinc-iron alloy that is also corrosion resistant. After normal cleaning, surfaces can be painted without further preparation. This product is often used for making signs, auto, truck and trailer bodies, and metal doors.

GALVANIZED STEEL (con't.)

Salina Steel Supply stocks the following galvanized products

Continuous Hot Dipped Sheets

10 GA	4' X 10'
12 GA	4' X 10'
14 GA	4' X 10'
16 GA	4' X 8', 4' X 10', 5' X 10'
18 GA	4' X 8', 4' X 10', 5' X 10'
20 GA	4' X 10', 5' X 10'
22 GA	4' X 8'
24 GA	4' X 8'

PIPE

Pipe is a round, hollow tube product with standardized combinations of outside diameter and wall thickness. The size is designated by its **nominal inside** diameter and wall thickness, which is normally referred to as a "schedule". Pipe is generally produced in 21 foot or 42 foot (random) lengths.

Schedule 40	Generally considered as the standard wall thickness
Schedule 80	Generally referred to as heavy wall thickness

Heavier and lighter schedules may be available in some sizes (such as Sch. 10, Sch. 160, etc.)

Structural (Reject) Grade Produced as a butt-welded product with no coating. Since pipe producers normally store structural pipe outside, the finish is generally rusty. It is designed for structural applications such as supports, columns, and beams. Has good weldability and formability. It is not subject to any specifications and is not intended for pressure applications. This material either has not been pressure tested, or failed to pass a pressure test (hence the term "reject").

High Grade This ASTM-A-500 product is produced as an electric resistance welded product (tube product) from hot rolled sheet or strip. It has no special coating but the finish is smooth with minimal rust. High grade pipe is produced to a minimum mechanical property of 35,000 to 46,000 Psi yield and 58,000 to 60,000 Psi tensile strength. It is designed for structural purposes and has not been pressure tested.

Pipe (con't.)

Prime Also called tested or pressure grade pipe (ASTM A-53). Prime pipe is produced as a butt-welded product and has a black lacquer coating. It is produced to minimum mechanical properties of 25,000 to 35,000 Psi yield and 45,000 to 50,000 Psi tensile strength. It has been hydro-statically pressure tested (i.e., tested to hold water and gasses under pressure). Suitable for more extensive fabrication and bending, welding, and threading.

Seamless A tubular product made from a solid billet, which is heated, then rotated under extreme pressure. This rotational pressure creates an opening in the center of the billet, which is then shaped by a mandrel to form a pipe.

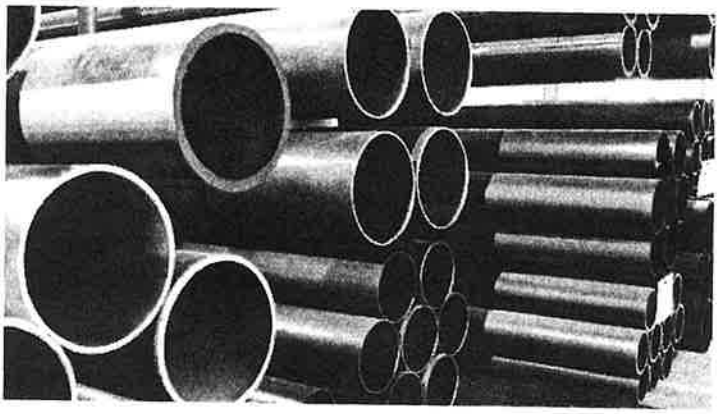


PLATE AND SHEET

PLATE A smooth, flat, relatively thick sheet of steel with widths of more than 8" and a thickness of 3/16" or more. The majority of steel plate, 5/8" and thinner, is produced from unwound (decoiled) from large coils, then leveled and cut to specific sizes.

SHEET A smooth, flat, thin sheet of steel with widths of 24" to 80" or 96" (depending on thickness). Sheet thickness can range from 5/100 of an inch to generally under 3/16". The majority of sizes are unwound (decoiled) from large coils, leveled and cut to specific sizes. The common differences between sheet and plate are the width and thickness of the material.

HOT ROLLED Hot rolled plate (ASTM-A-36) is a structural quality carbon steel with a minimum of 36,000 Psi yield. It is easily welded and formed. This is low carbon steel.

COLD ROLLED A low carbon, commercial quality sheet that can be welded, formed or bent. It is produced from semi-killed, capped or rimming steel with a maximum carbon content of 0.10.

1045 A medium carbon plate that is silicon killed. It has greater strength than regular hot rolled plate.

.40/.50 Carbon This plate has a higher carbon content than regular hot rolled plate and is silicon killed. Formability and weldability are limited due to the higher carbon content.

Plate & Sheet (con't.)

ASTM-A-572, Grade 50 This is steel plate with a 50,000# minimum Psi yield. This higher strength, low alloy steel has good weldability and workability.

AR PLATE This is abrasive resistant plate. It is a medium carbon, high manganese steel that outlasts regular hot rolled plate. It is more difficult to form than hot rolled plate. Corrosion resistance is similar to hot rolled plate.

T-1 PLATE This is an alloy plate with approximately three times the strength of regular hot rolled plate. It is a quenched and tempered high strength alloy with 100,000 Psi minimum yield. It is sometimes offered to as Construction Alloy Plate.

COR-TEN PLATE A brand name of high strength steel that is very resistant to atmospheric corrosion.

PRESSURE VESSEL PLATE This type of plate can be either a carbon or an alloy steel plate. The ASTM specifications are rigidly controlled in order to withstand pressure in boilers, vessels, etc.

PICKLED & OILED Pickling is a process where rust, dirt and oils are removed from the surface of the plate / sheet by dipping it in a series of acid baths. A coating of oil is then applied to the plate / sheet to reduce oxidation.

TEMPER PASS This material undergoes a cold reduction process. After the material is cold reduced, it is then rewound back into coils, which may reestablish the "coil set memory" in the material.

REBAR

Rebar is also known as concrete reinforcing bar. Rebar is a commodity-grade steel used to strengthen concrete in road and building construction.

No grade A type of rebar that is not required to meet any specifications other than size. An economical alternative if bending and forming of rebar is not required.

Grade 40 A type of rebar that is guaranteed to bend or form without pre-heating. This is the most widely used grade of rebar in sizes 5/8" and under.

Grade 60 A type of rebar where pre-heating is required to bend or form the bar. Rebar sizes of 3/4" and larger are almost exclusively produced in grade 60. Most government applications require grade 60 material.

Salina Steel Supply stocks the following rebar:

#3 (3/8")	grade 40	20 ft. lengths
#4 (1/2")	grade 40	20 ft. lengths
	grade 60	20 ft. lengths
#5 (5/8")	grade 40	20 ft. lengths
	grade 60	20 ft. lengths
#6 (3/4")	grade 60	20 ft. lengths
#8 (1")	grade 60	20 ft. lengths

ROUND BAR

HOT ROLLED (ASTM-A-36) A low carbon grade material having good overall mechanical properties. Has a 36,000 Psi minimum yield and 58,000 / 80,000 Psi tensile strength. Used for general purpose and structural applications. Generally produced in 20-foot lengths.

COLD ROLLED Cold rolled round bar (also called cold drawn) starts as hot rolled round bar. After the bar has cooled, it is forced through a series of dies, which reduces the diameter from 1/32" to 3/32". Drawing the material through the die lengthens the bar, and tightens the tolerances. Cold rolled bars are always undersized, not oversized. Material is sprayed with a light oil coating to keep the surface clean and to slow down the oxidation process.

COMMON TYPES OF COLD ROLLED ROUND BAR

1018 A low carbon steel with medium manganese content. Has good case hardening properties and fair machinability. Generally produced in 20-foot lengths. In this material, the "10" means it is a carbon product; the "18" refers to the amount of carbon (0.15 - 0.20).

1045 A medium carbon steel with greater strength and hardness than low carbon products. Responds well to heat treatment. Often used for gears, shafts, axles, bolts, studs, machine parts, etc. Generally produced in 20-foot lengths. In this material, the "10" means it is a carbon product; the "45" refers to the amount of carbon (0.43 - 0.50).

T, G & P Commonly, a 1045 round bar that has been cold worked. T, G & P stands for turned, ground and polished. It is machine turned (instead of drawn through a die), then ground to achieve a very tight tolerance and polished with abrasives. This product is also referred to as precision shaft and is generally produced in 12 foot (under 1" diameter) or 24 foot (1" and over diameter) lengths. This material can also be ordered in T & G or T & P.

Round Bar (con't.)

1144 A medium carbon, high manganese case-hardening bar commonly called stress relieved or stress proof. The higher carbon and sulfur content improves machinability but restricts weldability. It has a 100,000# minimum yield with high strength, hardness and weldability. The process involves the material being in a controlled oven for three to four hours to relieve the internal stress. Generally produced in 12-foot lengths. n this material, the "11" means it is a resulfurized carbon product; the "44" refers to the amount of carbon (0.40 - 0.48).

12L14 A screw machine bar made with lead (hence, the L) that has been re-sulfurized and re-phosphorized. Due to high sulfur content, this grade is not considered weldable or case-hardening. It is one of the fastest machining steels available; has inherent ductility that provides bending, crimping, and riveting properties. Generally produced in 12-foot lengths. In this material, the "12" means it is a resulfurized and rephosphorized carbon product; the "L" means lead has been added; the "14" refers to the amount of carbon (0.15 max).

STAINLESS STEEL

All grades of steel containing more than 10% chromium, with or without other alloying elements, are called stainless steel. Stainless steel resists corrosion and is used widely in items such as automotive, food processing products, medical and health equipment. Stainless steel resists corrosion attack by organic acids, weak mineral acids and atmospheric oxidation. It keeps its strength at high temperatures and is easily maintained.

303 Free machining variation of 302/304 for automatic screw machines. Corrosion resistant to atmospheric conditions, sterilizing solutions and most organic and inorganic chemicals, dyes, nitric acid and foods.

304 A low carbon variety of 302, austenitic (chromium-nickel). Minimizes carbide precipitation during welding while offering excellent resistance to corrosives and atmospheric conditions. This is one of the most commonly used grades of stainless steel; suitable for many food-related applications. The majority of stainless steel products stocked by SSS, Inc. are 304.

304L This is an extra low carbon variation of 302. Minimizes carbide precipitation during welding. Retains same corrosion resistance as 304 with slightly lower mechanical properties.

316 A grade with better corrosion resistance and higher strength at elevated temperatures than 304. It is austenitic with 2% to 3% molybdenum. Used for pumps, valves, textile and chemical equipment, pulp, paper and marine applications.

410 This alloy is made especially to meet the rigorous requirements of highly stressed parts where corrosion resistance, good strength, and ductility are needed. It is used extensively for steam turbine buckets, blades, bucket covers, gas turbine compressor blades, nuclear reactor control rod mechanisms, valves, etc. It is heat-treatable martensitic (medium chromium) with a high strength level.

Stainless Steel (con't.)

416 A free machining variation of 410 and is also heat treatable like 410. Corrosion resistant to food acids, basic salts, water and most atmospheres.

Standard Finishes for Stainless Steel Sheets & Plate

#1	hot rolled, annealed and pickled
#2D	annealed, pickled and dull cold rolled
#2B	annealed, pickled and bright cold rolled one of the most commonly used finishes for sheet and plate
#3-4	intermediate to standard polish (approx. 100/180 grit)
BA	bright annealed; bright cold rolled and controlled atmosphere annealed to retain highly reflective finish

Salina Steel Supply stocks stainless steel products as follows:

Angle	304
Round Bar	304
Square Bar	304
Flat Bar	304
Plate	304-2B
Sheet	304-2B
Pipe	304
Square Tube	304

TUBE – ROUND

A round, hollow wrought product made by various processes (described below). Round tube is described by its **outside** diameter and wall thickness when ordering and usually comes in 20 foot or 20-foot random lengths.

HREW Hot Rolled Electric Weld

This is the most common type of tube. It is hot rolled sheet or strip metal that is rolled up or formed with a small gap that is welded together, producing a bead (also called flash or slag) along the seam/weld. If anything is going to be slid inside the tube, allowances must be made for the bead or the bead must be ground out.

CREW Cold Rolled Electric Weld

Produced in the same manner as HREW but made with cold rolled sheet or strip metal. Generally used for thinner wall (18 ga. and thinner) tube. This material may be flash-controlled, meaning that the bead has been minimized during the production process.

CDBW Cold Drawn Butt Weld

To produce this product, the metal is preheated, rolled up and the edges pushed together. This process usually produces a smaller bead than HREW.

DOM Drawn Over Mandrel

The procedure for producing DOM tube uses a drawbench to pull welded tubing through a die and over a mandrel (a round cylinder), giving excellent control over the inside diameter and the wall thickness. This process removes the bead (slag), creates tighter tolerances, and produces quality inside and outside surfaces. The finished dimensions on DOM tube are generally more precise than seamless tube.

Tube – Round (con't.)

SEAMLESS Seamless tube does not have a weld, seam or bead. This is usually the most expensive type of tube. Dimensions are precise but tolerances are not as tight as for DOM tube. This tube is made by punching or grinding the center from a solid round bar, after which resizing may occur. Seamless tube can be made from either hot rolled or cold rolled round bar.

HYDRAULIC TUBE This type of tube is made in both welded and seamless types. It is a pressure-tested tube made in smaller sizes (usually 2-1/2" OD and under) and with thinner walls (generally 11 ga to 22 ga). It is sometimes referred to as fluid line tube.

FLASH IN A term which means the inside flash (bead, weld) of a round tube has not been altered, reduced or removed in any way.

FLASH CONTROLLED A term which means the inside flash (bead, weld) of a round tube has been mechanically reduced or "controlled" within a certain tolerance (such as to 0.010" maximum).

NOTE: CDBW, DOM and Seamless types of tube are only available in round shapes. Tubes that are square and rectangular in shape are **not** made by these processes.

HOW TO CALCULATE DIMENSIONS OF ROUND TUBE

OD = Outside Diameter
ID = Inside Diameter
W = Wall Thickness

1. OD - 2(W) = ID
2. ID + 2(W) = OD
3. (OD - ID) / 2 = W

HOW TO CALCULATE WEIGHT PER FOOT OF ROUND TUBE

(OD - W) X 10.69 X W = wt. per ft.

TUBE – SQUARE & RECTANGLE

Square and rectangle tube is produced from hot rolled sheet during a cold-formed process. The seam is welded (just like HREW round tube) leaving a bead on the inside of the tube. These ASTM-A-500 tubes are produced to minimum mechanical properties of 46,000 Psi yield and 58,000 Psi tensile. Intended for structural columns, beams, supports, frames and general fabrication. Has a high strength-to weight ratio and is easily welded, formed, punched and drilled. Its hollow shape protects and conceals wires, pipes, moving parts, etc.

BLACKCOAT This type of tube is also known as Kleenkote (a brand name). This is tube which has a black primer coat applied.

TELSPAR A brand name of square (only) tube that has had the flash removed and is guaranteed to telescope. Telspar is produced in 12 ga wall only in 1/4" increments from 1" to 2" square.

NOTE: CDBW, DOM and Seamless types of tube are only available in round shapes. Tubes that are square and rectangular in shape are **not** made by these processes.

Tube – Square & Rectangle (con't.)

HOW TO CALCULATE DIMENSIONS OF SQUARE TUBE

OD = Outside Dimension
ID = Inside Dimension
W = Wall Thickness

1. OD - 2(W) = ID
2. ID + 2(W) = OD
3. (OD - ID) / 2 = W

HOW TO CALCULATE DIMENSIONS FOR RECTANGLE TUBE

ODS = Outside Dimension Short Side
ODL = Outside Dimension Long Side
IDS = Inside Dimension Short Side
IDL = Inside Dimension Long Side
W = Wall Thickness

1. ODS - 2(w) = IDS
2. IDS + 2(w) = ODS
3. (ODS - IDS) / 2 = W
4. ODL - 2(w) = IDL
5. IDL - 2(W) = ODL
6. (ODL - IDL) / 2 = W

Example: The inside dimensions of a 4" x 2" x 1/4" tube are 3-1/2" x 1-1/2".

CONVERTING INCHES INTO DECIMALS OF A FOOT

Inches		Decimal of a Ft.
	1/16	.005208
	1/8	.010416
	3/16	.015625
	1/4	.020833
	5/16	.026042
	3/8	.031250
	7/16	.036458
0"	1/2	.041666
	9/16	.046875
	5/8	.052083
	11/16	.057292
	3/4	.062500
	13/16	.067708
	7/8	.072916
	15/16	.078125
	1/16	.088542
	1/8	.093750
	3/16	.098958
	1/4	.104166
	5/16	.109375
	3/8	.114583
	7/16	.119792
1"	1/2	.125000
.083333	9/16	.130208
	5/8	.135416
	11/16	.140625
	3/4	.145833
	13/16	.151042
	7/8	.156250
	15/16	.161458
	1/16	.171875
	1/8	.177083
	3/16	.182292
	1/4	.187500
	5/16	.192708
	3/8	.197906
	7/16	.203175
2"	1/2	.208333
.166666	9/16	.213542
	5/8	.218750
	11/16	.223958
	3/4	.229166
	13/16	.234375
	7/8	.239583
	15/16	.244792

Inches		Decimal of a Ft.
	1/16	.255208
	1/8	.260416
	3/16	.265625
	1/4	.270833
	5/16	.276042
	3/8	.281250
	7/16	.286458
3"	1/2	.291666
.250000	9/16	.296875
	5/8	.302083
	11/16	.307292
	3/4	.312500
	13/16	.317708
	7/8	.322916
	15/16	.328125
	1/16	.338542
	1/8	.343750
	3/16	.348958
	1/4	.354166
	5/16	.359375
	3/8	.364583
	7/16	.369792
4"	1/2	.375000
.333333	9/16	.380208
	5/8	.385416
	11/16	.390625
	3/4	.395833
	13/16	.401042
	7/8	.406250
	15/16	.411458
	1/16	.421875
	1/8	.427083
	3/16	.432292
	1/4	.437500
	5/16	.442708
	3/8	.447916
	7/16	.453125
5"	1/2	.458333
.416666	9/16	.463542
	5/8	.468750
	11/16	.473958
	3/4	.479166
	13/16	.484375
	7/8	.489583
	15/16	.494792

MM to Inches **MM x .03937 = inches**

CONVERTING INCHES INTO DECIMALS OF A FOOT (Continued)

Inches		Decimal of a Ft.	Inches		Decimal of a Ft.
	1/16	.505208		1/16	.755208
	1/8	.501416		1/8	.760416
	3/16	.515625		3/16	.765626
	1/4	.520833		1/4	.770833
	5/16	.526042		5/16	.776042
	3/8	.531250		3/8	.781250
	7/16	.536458		7/16	.786458
6"	1/2	.541666	9"	1/2	.791666
.500000	9/16	.546875	.750000	9/16	.796875
	5/8	.552083		5/8	.802083
	11/16	.557292		11/16	.807292
	3/4	.562500		3/4	.812500
	13/16	.567708		13/16	.817708
	7/8	.572916		7/8	.822916
	15/16	.578125		15/16	.828125
	1/16	.588542		1/16	.838542
	1/8	.593750		1/8	.843750
	3/16	.598958		3/16	.848958
	1/4	.604166		1/4	.854166
	5/16	.609375		5/16	.859375
	3/8	.614583		3/8	.864583
	7/16	.619792		7/16	.869792
7"	1/2	.625000	10"	1/2	.875000
.583333	9/16	.630208	.833333	9/16	.880208
	5/8	.635416		5/8	.885416
	11/16	.640625		11/16	.890625
	3/4	.645833		3/4	.895833
	13/16	.651042		13/16	.901042
	7/8	.656250		7/8	.906250
	15/16	.661458		15/16	.911458
	1/16	.671875		1/16	.921875
	1/8	.677083		1/8	.927083
	3/16	.682292		3/16	.932292
	1/4	.687500		1/4	.937500
	5/16	.692708		5/16	.942708
	3/8	.697916		3/8	.947916
	7/16	.703125		7/16	.953125
8"	1/2	.708323	11"	1/2	.958333
.66666	9/16	.713542	.916666	9/16	.963542
	5/8	.718750		5/8	.968750
	11/16	.723958		11/16	.973958
	3/4	.729166		3/4	.979166
	13/16	.734375		13/16	.984375
	7/8	.739583		7/8	.989593
	15/16	.744792		15/16	.994792

MM to Inches **MM x .03937 = inches**

FORMULAS
GEOMETRIC FORMULAS

CIRCLE

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

SQUARE

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

SQUARE INSCRIBED IN CIRCLE

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

SQUARE AND CIRCLE WITH EQUAL AREA

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

RECTANGLE

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

TRIANGLE

Area = Base x 1/2 of Perpendicular Height

HEXAGON (Equal sides and angles)

Area = Square of Distance across Flats x .866 of Square of Side x 2.598
Side = 1/2 of diagonal or Distance across Flats x .577
Diagonal = Distance across Flats x 1.155 or Side x 2
(Equal sides and angles)

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

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

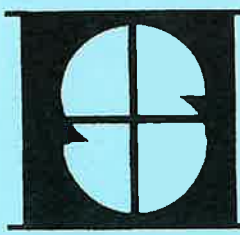
Area of Curved Surface = Diameter of Base x Slant Height x 1.5708
Volume = Diameter of Base Squared x Perpendicular Height x .2618 or
Area of Base X 1/3 Perpendicular Height

PYRAMID

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

FRACTION AND DECIMAL EQUIVALENTS

1/64	.015625
1/32	.03125
3/64	.046875
1/16	.0625
5/64	.078125
3/32	.09375
7/64	.109375
1/8	.125
9/64	.140625
5/32	.15625
11/64	.171875
3/16	.1875
13/64	.203125
7/32	.21875
15/64	.234375
1/4	.25
17/64	.265625
9/32	.28125
19/64	.296875
5/16	.3125
21/64	.328125
11/32	.34375
23/64	.359375
3/8	.375
25/64	.390625
13/32	.40625
27/64	.421875
7/16	.4375
29/64	.453125
15/32	.46875
31/64	.484375
1/2	.5
33/64	.515625
17/32	.53125
35/64	.546875
9/16	.5625
37/64	.578125
19/32	.59375
39/64	.609375
5/8	.625
41/64	.640625
21/32	.65625
43/64	.671875
11/16	.6875
45/64	.703125
23/32	.71875
47/64	.734375
3/4	.75
49/64	.765625
25/32	.78125
51/64	.796875
13/16	.8125
53/64	.828125
27/32	.84375
55/64	.859375
7/8	.875
57/64	.890625
29/32	.90625
59/64	.921875
15/16	.9375
61/64	.953125
31/32	.96875
63/64	.984375
1	1.



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