

# **NAPCO**

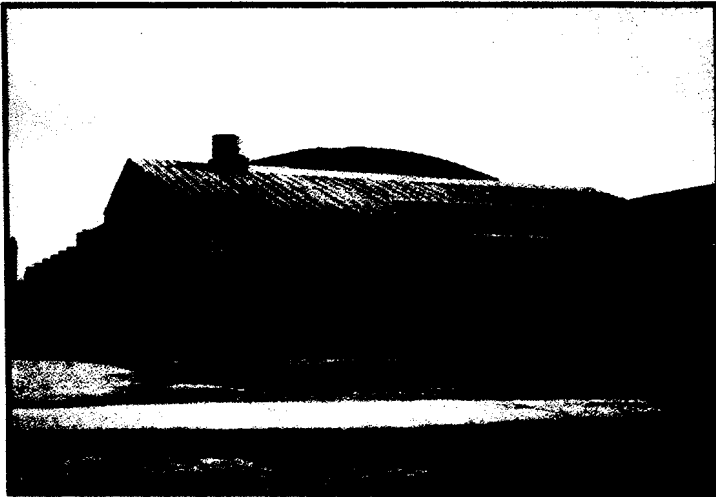
**STEEL, INC.**

## **REFERENCE BOOK**

Member  Metals Service Center Institute

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## **FROM A SMALL BEGINNING TO OUR 130,000 SF WAREHOUSE**



1976 - OUR FIRST WAREHOUSE

**NAPCO STEEL, INC.** has established a reputation throughout the middle west as an industry leader in service and processing.

When **NAPCO STEEL, INC.** started in business, the success target was to offer better service. Learning the customer needs would lead to satisfaction and continuation of business.

This philosophy and practice is very much in evidence today throughout all levels of our organization to assure the customers confidence and satisfaction with **NAPCO STEEL, INC.**

As a member of the Metal Service Center Institute, **NAPCO STEEL, INC.** has maintained its commitment to the highest quality business practices with our customers and vendors.

Our customer base includes Fortune 500 corporations as well as the smallest steel users, all of whom are shown the same dedication and service.

Beginning with our purchasing department, **NAPCO STEEL, INC.** has developed what we believe to be the most efficient system of quality controlled steel processing in the industry. Our sophisticated computer network allows quick and easy, up to the moment access to all orders throughout our company.

### ***Just in Time (J.I.T.)***

- Purchasing what you want, when you want it
- Saving your floor space
- Cutting your cost of possession while utilizing our extensive inventory.

### ***Electronic data Interchange (E.D.I.)***

- Electronic Data Interchange is the intercompany exchange of business documents in a standard format between two host computers.

### ***Statistical Process Control (S.P.C.)***

- Gauge Charts
- Process Values
- Physical and mechanical properties per specification

### ***Bar Coding***

- "Code 39" implemented with our customers and vendors for timely and accurate information, receipts showing order number, part number and heat number for total traceability



*Modern computer system to streamline order entry and traceability*

# **NAPCO**

**STEEL, INC.**

## **CARBON STEEL**

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# I BEAMS – STRUCTURAL

ASTM A-36 58,000/80,000 PSI.

## STOCK LENGTHS

Sizes 12' and Smaller – 20', 30', 40' and 55'/60'

Sizes over 12' – Random 55'/60'

Size In Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches	Size In Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches	
3	5.7	.170	2.330	12	31.8	.350	5.000	
	7.5	.349	2.509		35.0	.428	5.087	
4	7.7	.190	2.660		40.8	.460	5.250	
	9.5	.326	2.796		50.0	.687	5.477	
5	10.0	.210	3.000		15	42.9	.410	5.500
	14.75	.494	3.284			50.0	.550	5.640
6	12.5	.230	3.330		18	54.7	.460	6.000
	17.25	.465	3.565			70.0	.711	6.251
7	15.3	.250	3.660	20		65.4	.500	6.250
	20.0	.450	3.860		24	79.9	.500	7.000
8	18.4	.270	4.000	100.0		.747	7.247	
	23.0	.441	4.171	105.9		.625	7.875	
10	25.4	.310	4.660					
	35.0	.594	4.944					

# JUNIOR BEAMS

ASTM A-36 58,000/80,000 PSI.

## STOCK LENGTHS

Sizes 12' and Smaller – 20', 30', 40' and 55'/60'

Sizes over 12' – Random 55'/60'

Size In Inches	Weight per Ft. Lbs.	Flange Width Inches	Web Thickness Inches	Area Square Inches
6	4.40	1.844	.114	1.30
8	6.50	2.281	.135	1.92
10	9.00	2.688	.155	2.64
12	11.80	3.063	.175	3.45

# WIDE FLANGE AND H BEAMS

ASTM A-36 58,000/80,000 PSI

## STOCK LENGTHS

Sizes 12'' and Smaller 20', 30', 40' and 55'/60'

Sizes over 12'' - Random 55'/60'

Section & Size In Inches	Weight per Ft. Lbs.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
4 x 4 H	13.0	4.00	3.937	.372	.250
5 x 5 H	16.0	5.00	5.000	.360	.240
	18.9	5.00	5.000	.483	.313
6 x 4	8.5	5.83	3.940	.194	.170
	12.0	6.00	4.000	.279	.230
	16.0	6.25	4.030	.404	.260
6 x 6 H H	15.5	6.00	6.000	.269	.240
	20.0	6.20	6.018	.367	.258
	20.0	6.00	5.938	.380	.250
	25.0	6.37	6.080	.456	.320
	25.0	6.00	5.938	.481	.313
8 x 4	10.0	7.90	3.940	.204	.170
	13.0	8.00	4.000	.254	.230
	15.0	8.12	4.015	.314	.245
8 x 5½	17.0	8.00	5.250	.308	.230
	20.0	8.14	5.268	.378	.248
8 x 6½	24.0	7.93	6.500	.398	.245
	28.0	8.06	6.540	.463	.285
8 x 8 H	31.0	8.00	8.000	.433	.288
	34.3	8.00	8.000	.438	.375
	35.0	8.12	8.027	.493	.315
	40.0	8.25	8.077	.558	.365
	48.0	8.50	8.117	.683	.405
	58.0	8.75	8.222	.808	.510
	67.0	9.00	8.287	.933	.575
10 x 4	11.5	9.87	3.950	.204	.180
	15.0	10.00	4.000	.269	.230
	17.0	10.12	4.010	.329	.240
	19.0	10.25	4.020	.394	.250
10 x 5½	21.0	9.90	5.750	.340	.240
	25.0	10.08	5.762	.430	.252
	29.0	10.22	5.799	.500	.289
10 x 8	33.0	9.75	7.964	.433	.292
	39.0	9.94	7.990	.528	.318
	45.0	10.12	8.022	.618	.350
10 x 10	49.0	10.00	10.000	.559	.340
	54.0	10.12	10.028	.618	.368
	60.0	10.25	10.075	.683	.415
	66.0	10.38	10.117	.748	.457
	72.0	10.50	10.170	.808	.510
	77.0	10.62	10.195	.868	.535
	89.0	10.88	10.275	.998	.615
	100.0	11.12	10.345	1.118	.685
	12 x 4	14.0	11.91	3.970	.224
16.5		12.00	4.000	.269	.230
19.0		12.16	4.010	.349	.240
22.0		12.31	4.030	.424	.260
12 x 6½	27.0	11.96	6.500	.400	.240
	31.0	12.09	6.525	.465	.265
	36.0	12.24	6.565	.540	.305

Continued on Following Page

# WIDE FLANGE BEAMS

ASTM A-36 58,000/80,000 PSI

## STOCK LENGTHS

Sizes 12" and Smaller 20', 30', 40' and 55'/60'  
 Sizes over 12" - Random 55'/60'

Continued from preceding page

Section & Size In Inches	Weight per Ft. Lbs.	Depth of Section, Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
12 x 8	40.0	11.94	8.000	.516	.294
	45.0	12.06	8.042	.576	.336
	50.0	12.19	8.077	.641	.371
12 x 10	53.0	12.06	10.000	.576	.345
	58.0	12.19	10.014	.641	.359
12 x 12	65.0	12.12	12.000	.606	.390
	72.0	12.25	12.040	.671	.430
	79.0	12.38	12.080	.736	.470
	85.0	12.50	12.105	.796	.495
14 x 5	22.0	13.72	5.000	.335	.230
	26.0	13.89	5.025	.418	.255
14 x 6½	30.0	13.86	6.733	.383	.270
	34.0	14.00	6.750	.453	.287
	38.0	14.12	6.776	.513	.313
14 x 8	43.0	13.68	8.000	.528	.308
	48.0	13.81	8.031	.593	.339
	53.0	13.94	8.062	.658	.370
14 x 10	61.0	13.91	10.000	.643	.378
	68.0	14.06	10.040	.718	.418
	74.0	14.19	10.072	.783	.450
14 x 12	78.0	14.06	12.000	.718	.428
14 x 14½	87.0	14.00	14.500	.688	.420
	95.0	14.12	14.545	.748	.465
16 x 5½	26.0	15.65	5.500	.345	.250
	31.0	15.84	5.525	.442	.275
16 x 7	36.0	15.85	6.992	.428	.299
	40.0	16.00	7.000	.503	.307
	45.0	16.12	7.039	.563	.346
	50.0	16.25	7.073	.628	.380
16 x 8½	58.0	15.86	8.464	.645	.407
	64.0	16.00	8.500	.715	.443
	71.0	16.16	8.543	.795	.486
16 x 11½	88.0	16.16	11.502	.795	.504
18 x 6	35.0	17.71	6.000	.429	.298
	40.0	17.90	6.018	.524	.316
18 x 7½	45.0	17.86	7.477	.499	.335
	50.0	18.00	7.500	.570	.358
	55.0	18.12	7.532	.630	.390
	60.0	18.25	7.558	.695	.416
18 x 8¾	64.0	17.87	8.715	.686	.403
	70.0	18.00	8.750	.751	.438
	77.0	18.16	8.787	.831	.475
18 x 11¾	96.0	18.16	11.750	.831	.512
21 x 6½	44.0	20.66	6.500	.451	.348
	49.0	20.82	6.520	.532	.368
21 x 8¾	55.0	20.80	8.215	.522	.375
	62.0	20.99	8.240	.615	.400
	68.0	21.13	8.270	.685	.430
	73.0	21.24	8.295	.740	.455
21 x 9	82.0	20.86	8.962	.795	.499
21 x 13	112.0	21.00	13.000	.865	.527
24 x 7	55.0	23.55	7.000	.503	.396
	61.0	23.72	7.023	.591	.419
24 x 9	68.0	23.71	8.961	.582	.416
	76.0	23.91	8.985	.682	.440
	84.0	24.09	9.015	.772	.470
	94.0	24.29	9.061	.872	.516
24 x 12	100.0	24.00	12.000	.775	.468

# STRUCTURAL CHANNELS

ASTM A-36 58,000/80,000 PSI

## STOCK LENGTHS

Sizes 12" and Smaller - 20', 30', 40' and 55'/60'

Sizes over 12" - Random 55'/60'

Depth Channel Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches	Depth Channel Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches
3	4.1	.170	1.410	9	13.4	.230	2.430
	5	.258	1.498		15	.285	2.485
	6	.356	1.596		20	.448	2.648
4	5.4	.180	1.580	10	15.3	.240	2.600
	7.25	.320	1.720		20	.379	2.739
5	6.7	.190	1.750		25	.526	2.886
	9	.325	1.885		30	.673	3.033
6	8.2	.200	1.920	12	20.7	.280	2.940
	10.5	.314	2.034		25	.387	3.047
	13	.437	2.157		30	.510	3.170
7	9.8	.210	2.090	15	33.9	.400	3.400
	12.25	.314	2.194		40	.520	3.520
	14.75	.419	2.299		50	.716	3.716
8	8.5	.180	1.875				
	11.5	.220	2.260				
	13.75	.303	2.343				
	18.75	.487	2.527				

13" and 18" - See Ship and Car Channels.

# STAIR STRINGER CHANNELS

ASTM A-36 58,000/80,000 PSI

## STOCK LENGTHS

20', 30', 40' and 55'/60'

Depth Channel Inches	Weight per Ft. Lbs.	Web Thickness	Width of Flange
10	6.5	.150	1.125
10	8.4	.170	1.500
12	10.6	.190	1.500

# SHIP AND CAR CHANNELS

ASTM A-36 58,000/80,000 PSI

## STOCK LENGTHS

Sizes 12" and Smaller - 20', 30', 40' and 55'/60'

Sizes over 12" - Random 55'/60'

Depth Channel Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches	Depth Channel Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches
3	7.1	.313	1.938	9	25.4	.450	3.500
4	13.8	.500	2.500	10	21.9	.325	3.450
6	12.0	.313	2.500		28.5	.425	3.950
	15.3	.340	3.500		12	35.0	.467
	16.3	.375	3.000	13		31.8	.375
	18.0	.375	3.500	50.0	.787	4.412	
7	19.1	.350	3.450	18	42.7	.450	3.950
	22.7	.500	3.600		45.8	.500	4.000
8	18.7	.350	2.975		58.0	.700	4.200
	20.0	.400	3.025				
	21.4	.375	3.450				
	22.8	.425	3.500				

# STRUCTURAL ANGLES

ASTM A-36 58,000/80,000 PSI

Size In Inches	Weight Per Ft.	Stock Lengths	Size In Inches	Weight Per Ft.	Stock Lengths
3 x 2 x 3/16	3.07	20, 30, 40	5 x 3 x 1/4	6.6	20, 30, 40
1/4	4.1	"	5/16	8.2	20, 30, 40 AND 55 to 60
5/16	5.0	"	3/8	9.8	"
3/8	5.9	"	7/16	11.3	"
1/2	7.7	"	1/2	12.8	"
3 x 2-1/2 x 1/4	4.5	20, 30, 40	5 x 3-1/2 x 1/4	7.0	"
5/16	5.6	"	5/16	8.7	"
3/8	6.6	"	3/8	10.4	"
1/2	8.5	"	7/16	12.0	"
3 x 3 x 3/16	3.7	20, 30, 40	1/2	13.6	"
1/4	4.9	"	5/8	16.8	"
5/16	6.1	"	3/4	19.8	"
3/8	7.2	"	5 x 5 x 5/16	10.3	"
7/16	8.3	"	3/8	12.3	"
1/2	9.4	"	1/2	16.2	"
3-1/2 x 2-1/2 x 1/4	4.9	20, 30, 40	5/8	20.0	"
5/16	6.1	"	3/4	23.6	"
3/8	7.2	"	6 x 3-1/2 x 1/4	7.9	"
1/2	9.4	"	5/16	9.8	"
3-1/2 x 3 x 1/4	5.4	20, 30, 40	3/8	11.7	"
5/16	6.6	"	1/2	15.3	"
3/8	7.9	"	6 x 4 x 5/16	10.3	"
1/2	10.2	"	3/8	12.3	"
3-1/2 x 3-1/2 x 1/4	5.8	20, 30, 40	7/16	14.3	"
5/16	7.2	"	1/2	16.2	"
3/8	8.5	"	5/8	20.0	"
7/16	9.8	"	3/4	23.6	"
1/2	11.1	"	7/8	27.2	"
4 x 3 x 1/4	5.8	20, 30, 40 AND 55 to 60	6 x 6 x 3/8	14.9	"
5/16	7.2	"	7/16	17.2	"
3/8	8.5	"	1/2	19.6	"
7/16	9.8	"	5/8	24.2	"
1/2	11.1	"	3/4	28.7	40 AND 55 to 60
5/8	13.6	"	7/8	33.1	"
4 x 3-1/2 x 1/4	6.2	20, 30, 40 AND 55 to 60	1	37.4	"
5/16	7.7	"	7 x 4 x 3/8	13.6	"
3/8	9.1	"	1/2	17.9	"
7/16	10.6	"	5/8	22.1	"
1/2	11.9	"	8 x 4 x 1/2	19.6	"
4 x 4 x 1/4	6.6	20, 30, 40 AND 55 to 60	3/4	28.7	"
5/16	8.2	"	8 x 6 x 1/2	23.0	"
3/8	9.8	"	5/8	28.5	"
7/16	11.3	"	3/4	33.8	"
1/2	12.8	"	1	44.2	"
5/8	15.7	"	8 x 8 x 1/2	26.4	"
3/4	18.5	"	5/8	32.7	"
			3/4	38.9	"
			7/8	45.0	"
			1	51.0	"

## STRUCTURAL TEES

ASTM A-36 58,000/80,000 PSI

Size In Inches	Stock Lengths
3 x 2-1/2 x 5/16	20, 30, 40 AND 55 to 60
3 x 3 x 5/16	"
3/8	"
4 x 3 x 3/8	"
4 x 4 x 1/2	"

## STRUCTURAL ZEES

ASTM A-36 58,000/80,000 PSI

STOCK LENGTHS - 20', 30', 40' and Random 55'/60'

Flange Inches	Web Inches	Flange Inches	Thickness Inches	Weight per Ft. Lbs.
1 1/4	1 1/4	1 1/4	3/16	2.79
2 1/16	3	2 1/16	1/4	6.7
2 1/16	3	2 1/16	5/16	9.8
3 1/16	4	3 1/16	1/4	8.2
3 1/2	4 1/2	3 1/2	5/16	10.3
3 3/8	4 1/2	3 3/8	3/8	12.5
3 1/2	5	3 1/2	1/2	11.6
3 1/2	5	3 1/2	3/4	17.9
3 3/8	5 1/2	3 3/8	5/8	14.0
3 1/2	6	3 1/2	3/4	15.7



## BAR ANGLES

M-1020 MERCHANT QUALITY

## BAR CHANNELS

M-1020 MERCHANT QUALITY

Size In Inches	Weight Per Ft.	Weight of 20' Bar
1/2 x 1/2 x 1/8	.38	7.6
5/8 x 5/8 x 1/8	.48	9.6
3/4 x 3/4 x 1/8	.59	11.8
7/8 x 7/8 x 1/8	.70	14.0
1 x 5/8 x 1/8	.64	12.8
1 x 3/4 x 1/8	.70	14.0
1 x 1 x 1/8	.80	16.0
3/16	1.16	23.2
1/4	1.49	29.8
1-1/8 x 1-1/8 x 1/8	.90	18.0
1-1/4 x 1-1/4 x 1/8	1.01	20.2
3/16	1.48	29.6
1/4	1.92	38.4
1-3/8 x 7/8 x 1/8	.91	18.2
3/16	1.32	26.4
1-1/2 x 1-1/4 x 3/16	1.64	32.8
1-1/2 x 1-1/2 x 1/8	1.23	24.6
3/16	1.8	36.0
1/4	2.34	46.8
1-3/4 x 1-1/4 x 1/8	1.23	24.6
3/16	1.80	36.0
1/4	2.34	46.8
1-3/4 x 1-3/4 x 1/8	1.44	28.8
3/16	2.12	42.4
1/4	2.77	55.4
2 x 1 x 3/16	1.80	36.0
2 x 1-1/4 x 3/16	1.96	39.2
1/4	2.55	51.0
2 x 1-1/2 x 1/8	1.44	28.8
3/16	2.12	42.4
1/4	2.77	55.4
2 x 2 x 1/8	1.65	33.0
3/16	2.44	48.8
1/4	3.19	63.8
5/16	3.92	78.4
3/8	4.7	94.0
2-1/4 x 1-1/2 x 3/16	2.28	45.6
2-1/2 x 1-1/2 x 3/16	2.44	48.8
1/4	3.19	63.8
5/16	3.92	78.4
2-1/2 x 2 x 3/16	2.75	55.0
1/4	3.62	72.4
5/16	4.5	90.0
3/8	5.3	106.0
2-1/2 x 2-1/2 x 3/16	3.07	61.4
1/4	4.1	82.0
5/16	5.0	100.0
3/8	5.9	118.0
1/2	7.7	154.0

Size In Inches	Weight Per Ft.	Weight of 20' Bar
3/4 x 5/16 x 1/8	.50	10.0
3/4 x 3/8 x 1/8	.56	11.2
7/8 x 3/8 x 1/8	.61	12.2
7/8 x 7/16 x 1/8	.69	13.8
1 x 3/8 x 1/8	.68	13.6
1 x 1/2 x 1/8	.84	16.8
1-1/8 x 9/16 x 3/16	1.16	23.2
1-1/4 x 1/2 x 1/8	.99	19.8
1-1/2 x 1/2 x 1/8	1.12	22.4
1-1/2 x 9/16 x 3/16	1.44	28.8
1-1/2 x 3/4 x 1/8	1.17	23.4
1-1/2 x 1-1/2 x 3/16	2.65	53.0
1-3/4 x 1/2 x 3/16	1.55	31.0
2 x 1/2 x 1/8	1.33	26.6
2 x 9/16 x 3/16	1.76	35.2
2 x 5/8 x 1/4	2.18	43.6
2 x 1 x 1/8	1.59	31.8
3/16	2.32	46.4
2-1/2 x 5/8 x 3/16	2.27	45.4

## BAR TEES

M-1020 MERCHANT QUALITY

Size In Inches	Weight Per Ft.	Weight of 20' Bar
3/4 x 3/4 x 1/8	.62	12.4
7/8 x 7/8 x 1/8	.73	14.6
1 x 1 x 1/8	.85	17.0
3/16	1.20	24.0
1-1/4 x 1-1/4 x 1/8	1.09	21.8
3/16	1.55	31.0
1/4	1.93	38.6
1-1/2 x 1-1/2 x 3/16	1.90	38.0
1/4	2.43	48.6
1-3/4 x 1-3/4 x 3/16	2.26	45.2
1/4	2.90	58.0
2 x 1-1/2 x 1/4	3.1	62.0
2 x 2 x 1/4	3.62	72.4
5/16	4.3	86.0
2-1/4 x 2-1/4 x 1/4	4.1	82.0
2-1/2 x 2-1/2 x 1/4	4.6	92.0
5/16	5.5	110.0
3/8	6.4	128.0

## BAR ZEES

M-1020 MERCHANT QUALITY

Size In Inches	Weight Per Ft.	Weight of 20' Bar
1-1/4 x 1-3/4 x 1-3/4 x 3/16	2.79	55.8

## CONCRETE REINFORCING BARS

Deformed Bars - ASTM A15 and A305

Tensile Strength 70,000 to 90,000 PSI - Yield Point 40,000 PSI Minimum

Bar Size Inches	Bar No.	Weight per Ft. Pounds	Dia. Inches	Area Sq. Inches	Perimeter Inches	Bar Size Inches	Bar No.	Weight per Ft. Pounds	Dia. Inches	Area Sq. Inches	Perimeter Inches
1/4" Rd.*	2	.167	.250	.05	.786	7/8" Rd.	7	2.044	.875	.60	2.749
3/8" Rd.	3	.376	.375	.11	1.178	1" Rd.	8	2.670	1.000	.79	3.142
1/2" Rd.	4	.668	.500	.20	1.571	1" Sq.**	9	3.400	1.128	1.00	3.544
5/8" Rd.	5	1.043	.625	.31	1.963	1-1/8" Sq.**	10	4.303	1.270	1.27	3.990
3/4" Rd.	6	1.502	.750	.44	2.356	1-1/4" Sq.**	11	5.313	1.410	1.56	4.430

\*1/4" bars are plain round.

\*\*Bars No. 9, 10 and 11 are round bars equivalent in area to square bar in size shown.

# HOT ROLLED FLATS

M-1020 MERCHANT QUALITY

Size In Inches	Weight Per Ft.
1/4 x 3/8	.319
1/2	.425
5/8	.531
3/4	.638
7/8	.744
1	.850
1-1/8	.956
1-1/4	1.06
1-3/8	1.17
1-1/2	1.28
1-5/8	1.38
1-3/4	1.49
2	1.70
2-1/4	1.91
2-1/2	2.13
2-3/4	2.34
3	2.55
3-1/4	2.76
3-1/2	2.98
3-3/4	3.19
4	3.40
4-1/4	3.61
4-1/2	3.83
5	4.25
5-1/2	4.68
6	5.10
7	5.95
8	6.80
5/16 x 1/2	.531
5/8	.664
3/4	.797
7/8	.93
1	1.06
1-1/8	1.20
1-1/4	1.33
1-3/8	1.46
1-1/2	1.59
1-3/4	1.86
2	2.13
2-1/4	2.39
2-1/2	2.66
2-3/4	2.92
3	3.19
3-1/4	3.45
3-1/2	3.72
4	4.25
4-1/2	4.78
5	5.31
5-1/2	5.84
6	6.38
7	7.44
8	8.50
3/8 x 1/2	.638
5/8	.797
3/4	.956
7/8	1.12
1	1.28
1-1/8	1.43
1-1/4	1.59
1-3/8	1.75
1-1/2	1.91
1-5/8	2.07
1-3/4	2.23
2	2.55
2-1/4	2.87
2-1/2	3.19
2-3/4	3.51
3	3.83
3-1/4	4.14
3-1/2	4.46

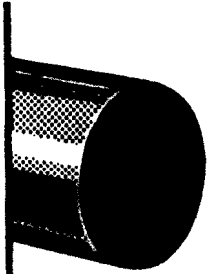
Size In Inches	Weight Per Ft.
3/8 x 4	5.10
4-1/2	5.74
5	6.38
5-1/2	7.01
6	7.65
7	8.93
8	10.20
7/16 x 3/4	1.12
1	1.49
1-1/4	1.86
1-3/8	2.05
1-1/2	2.23
1-3/4	2.60
2	2.98
2-1/4	3.35
2-1/2	3.72
3	4.46
3-1/2	5.21
4	5.95
4-1/2	6.69
5	7.44
5-1/2	8.18
6	8.93
1/2 x 5/8	1.06
3/4	1.28
7/8	1.49
1	1.70
1-1/8	1.91
1-1/4	2.13
1-3/8	2.34
1-1/2	2.55
1-5/8	2.76
1-3/4	2.98
2	3.40
2-1/4	3.83
2-1/2	4.25
2-3/4	4.68
3	5.10
3-1/4	5.53
3-1/2	5.95
4	6.80
4-1/2	7.65
5	8.50
5-1/2	9.35
6	10.20
7	11.90
8	13.60

# HOT ROLLED FLATS

M-1020 MERCHANT QUALITY

Size In Inches	Weight Per Ft.	Weight of 16' Bar	Size In Inches	Weight Per Ft.	Weight of 16' Bar	
5/8 x 3/4	1.59	25.44	1 x 2-1/4	7.65	122.40	
7/8	1.86	29.76		8.50	136.00	
1	2.13	34.08		9.35	149.60	
1-1/8	2.39	38.24		10.20	163.20	
1-1/4	2.66	42.56		11.05	176.80	
1-3/8	2.92	46.72		11.90	190.40	
1-1/2	3.19	51.04		13.60	217.60	
1-5/8	3.45	55.20		15.30	244.80	
1-3/4	3.72	59.52	5	17.00	272.00	
2	4.25	68.00	5-1/2	18.70	299.20	
2-1/4	4.78	76.48	6	20.40	326.40	
2-1/2	5.31	84.96	7	23.80	380.80	
2-3/4	5.84	93.44	8	27.20	435.20	
3	6.38	102.08	1-1/8 x 2	7.65	122.40	
3-1/4	6.91	110.56		11.48	183.68	
3-1/2	7.44	119.04		15.30	244.80	
4	8.50	136.00		19.13	306.08	
4-1/2	9.56	152.96		22.95	367.20	
5	10.63	170.08		1-1/4 x 1-1/2	6.38	102.08
5-1/2	11.69	187.04	7.44		119.04	
6	12.75	204.00	8.50		136.00	
7	14.88	238.00	9.56		152.96	
8	17.00	272.00	10.63		170.08	
3/4 x 7/8	2.23	35.68	11.69	185.60	2-1/2	
	2.55	40.80	12.75	204.00		
	2.87	45.92	13.81	220.96		
	3.19	51.04	14.88	238.08		
	3.83	61.28	17.00	272.00		
	4.14	66.24	19.13	306.08		
	4.46	71.36	21.25	340.00		
	5.10	81.60	23.37	373.92		
	5.74	91.84	25.50	408.00		
	6.38	102.08	29.75	476.00		
	7.01	112.16	34.00	544.00		
	7.65	122.40	1-1/2 x 1-3/4	8.93		142.88
	8.29	132.64		10.20		163.20
	8.93	142.88		11.48		183.68
	10.20	163.20		12.75		204.00
	11.48	183.68		14.03		224.48
	12.75	204.00		15.30		244.80
	14.03	224.48	17.85	285.60		
15.30	244.80	4	20.40	326.40		
17.85	285.60	4-1/2	22.95	367.20		
20.40	326.40	5	25.50	408.00		
7/8 x 1	2.98	47.68	28.05	448.80		
	3.72	59.52	6	30.60	489.60	
	4.09	65.44	7	35.70	571.20	
	4.46	71.36	8	40.80*	652.80	
	5.21	83.20	1-3/4 x 2	11.90	190.40	
	5.95	95.20		14.88	238.08	
	6.69	107.40		17.85	285.60	
	7.44	119.04		20.83	333.28	
	8.18	130.88		23.80	380.80	
	8.93	142.88		26.78	428.48	
	10.41	166.56	4-1/2	29.75	476.00	
	11.90	190.40	5-1/2	32.73	523.68	
	13.39	214.24	6	35.70	571.00	
	14.88	238.08	2 x 2-1/2	17.00	272.00	
	16.36	261.76		20.40	326.40	
	17.85	285.60		23.80	380.80	
	20.83	333.28		27.20	435.20	
	23.80	380.80		30.60	489.60	
1 x 1-1/4	4.25	68.00		5	34.00	544.00
	5.10	81.60	6	40.80*	652.90	
	5.95	95.20	2-1/2 x 3	25.50	408.00	
	6.80	108.80		29.75	476.00	
	1 x 1-1/2	4.25		68.00	34.00	544.00
		5.10		81.60	38.25	612.00
5.95		95.20		42.50*	680.00	
6.80		108.80		51.00*	816.00	
1 x 1-3/4		4.25	68.00	3 x 4	40.80*	652.80
		5.10	81.60		45.90*	734.40
	5.95	95.20	51.00*		816.00	
	6.80	108.80	61.20*		979.20	

\* C1018 - Special Bar Quality.



# ROUNDS—HOT ROLLED

## M1020 1045

.20 Carbon Max. — Under 1/2"

M1020 — 3" and over.

A.S.T.M. A-36/A-36M — 1/2" to under 3"

1045 — 1/2" and over. Special bar quality.

Size Inches	Weight Per Foot	Est. Wt. 20' Bar	Size Inches	Weight Per Foot	Est. Wt. 20' Bar
3/16	.094	1.88	2 1/2	16.69	333.80
1/4	.167	3.34	2 5/8	18.40	368.00
5/16	.261	5.22	2 3/4	20.19	403.80
3/8	.376	7.52	3	24.03	480.60
7/16	.511	10.22	3 1/4	28.21	564.20
1/2	.668	13.36	3 1/2	32.71	654.20
9/16	.845	16.90	3 3/4	37.55	751.00
5/8	1.04	20.80	4	42.73	854.60
3/4	1.50	30.00	4 1/4	48.23	964.60
7/8	2.04	40.80	4 1/2	54.08	1081.60
15/16	2.35	47.00	4 5/8	57.12	1142.40
1	2.67	53.40	4 3/4	60.25	1205.00
1 1/8	3.38	67.60	5	66.76	1335.20
1 1/4	4.17	83.40	5 1/4	73.60	1472.00
1 3/8	5.05	101.00	5 1/2	80.78	1615.60
1 1/2	6.01	120.20	5 3/4	88.29	1765.80
1 5/8	7.05	141.00	6	96.13	1922.60
1 3/4	8.18	163.60	6 1/4	104.31	2086.20
1 7/8	9.39	187.80	6 1/2	112.81	2256.20
2	10.68	213.60	6 3/4	121.67	2433.40
2 1/8	12.06	241.20	7	130.85	2617.00
2 1/4	13.52	270.40	7 1/4	140.36	2807.20
2 3/8	15.06	301.20	8	170.90	3418.00
			9	216.30	4326.00

# HOT ROLLED SHEETS

PRIME COMMERCIAL QUALITY LOW CARBON - .15 MAX. CARBON

Gauge and Size	Weight Per Sq. Ft.	Est. Wt. Per Sheet	Gauge and Size	Weight Per Sq. Ft.	Est. Wt. Per Sheet
7 GA x 36 x 96	7.50	180.0	12 GA x 60 x 120	4.375	218.8
36 x 120	"	225.0	60 x 144	"	262.5
36 x 144	"	270.0	60 x 168	"	306.3
48 x 96	7.50	240.0	72 x 96	4.375	210.0
48 x 120	"	300.0	72 x 120	"	262.5
48 x 144	"	360.0	72 x 144	"	315.0
48 x 240	"	600.0	72 x 192	"	420.0
60 x 96	7.50	300.0	14 GA x 30 x 96	3.125	62.5
60 x 120	"	375.0	30 x 120	"	78.1
60 x 144	"	450.0	36 x 96	3.125	75.0
60 x 240	"	750.0	36 x 120	"	93.8
72 x 96	7.50	360.0	36 x 144	"	112.5
72 x 120	"	450.0	14 GA x 48 x 96	3.125	100.0
72 x 144	"	540.0	48 x 120	"	125.0
72 x 240	"	900.0	48 x 144	"	150.0
Over 72" Wide, See 3/16" Plate.			54 x 120	3.125	140.6
8 GA x 36 x 96	6.875	165.0	60 x 96	3.125	125.0
36 x 120	"	206.3	60 x 120	"	156.3
48 x 96	6.875	220.0	60 x 144	"	187.5
48 x 120	"	275.0	60 x 192	"	250.0
72 x 120	6.875	412.5	72 x 120	3.125	187.5
10 GA x 36 x 96	5.625	135.0	72 x 144	"	225.0
36 x 120	"	168.8	16 GA x 30 x 96	2.50	50.0
36 x 144	"	202.5	30 x 120	"	62.5
48 x 96	5.625	180.0	36 x 96	2.50	60.0
48 x 120	"	225.0	36 x 120	"	75.0
48 x 144	"	270.0	36 x 144	"	90.0
48 x 240	"	450.0	42 x 96	2.50	70.0
60 x 96	5.625	225.0	42 x 120	"	87.5
60 x 120	"	281.3	42 x 144	"	105.0
60 x 144	"	337.5	48 x 96	2.50	80.0
60 x 168	"	393.8	48 x 120	"	100.0
60 x 240	"	562.5	48 x 144	"	120.0
72 x 96	5.625	270.0	48 x 156	"	130.0
72 x 120	"	337.5	54 x 96	2.50	90.0
72 x 144	"	405.0	54 x 120	"	112.5
72 x 192	"	540.0	60 x 96	2.50	100.0
72 x 240	"	675.0	60 x 120	"	125.0
84 x 120	5.625	393.8	60 x 144	"	150.0
84 x 240	"	787.5	60 x 168	"	175.0
11 GA x 36 x 96	5.00	120.0	18 GA x 30 x 96	2.00	40.0
36 x 120	"	150.0	30 x 120	"	50.0
36 x 144	"	180.0	36 x 96	2.00	48.0
48 x 96	5.00	160.0	36 x 120	"	60.0
48 x 120	"	200.0	48 x 96	2.00	64.0
48 x 144	"	240.0	48 x 120	"	80.0
60 x 96	5.00	200.0			
60 x 120	"	250.0			
60 x 144	"	300.0			
60 x 168	"	350.0			
60 x 192	"	400.0			
72 x 120	"	300.0			
72 x 144	"	360.0			
72 x 192	"	480.0			
12 GA x 36 x 96	4.375	105.0			
36 x 120	"	131.3			
36 x 144	"	157.5			
48 x 96	4.375	140.0			
48 x 120	"	175.0			
48 x 144	"	210.0			
60 x 96	4.375	175.0			

## SHEET—COLD ROLLED

Low carbon steel sheet, annealed, scale-free. Sheets will bend and take moderate drawing operations. Oil protected.

Size Inches	Est. Wt. Per Sheet	Size Inches	Est. Wt. Per Sheet
<b>10 Gauge</b> (.134")	Wt. per sq. ft. 5.625	<b>18 Gauge</b> (.048")	Wt. per sq. ft. 2.00
36 x 96	135.0	36 x 96	48.0
120	168.8	120	60.0
48 x 120	225.0	48 x 120	80.0
144	270.0	144	96.0
<b>11 Gauge</b> (.120")	Wt. per sq. ft. 5.000	<b>20 Gauge</b> (.036")	Wt. per sq. ft. 1.50
36 x 96	120.0	36 x 96	36.0
120	150.0	120	45.0
48 x 96	160.0	48 x 120	60.0
120	200.0	144	72.0
144	240.0	<b>22 Gauge</b> (.030")	Wt. per sq. ft. 1.25
<b>12 Gauge</b> (.105")	Wt. per sq. ft. 4.375	36 x 96	30.0
36 x 96	105.0	120	37.5
120	131.3	48 x 96	40.0
48 x 96	140.0	120	50.0
120	175.0	<b>24 Gauge</b> (.024")	Wt. per sq. ft. 1.00
144	210.0	36 x 96	24.0
<b>13 Gauge</b> (.090")	Wt. per sq. ft. 3.75	120	30.0
48 x 120	150.0	48 x 96	32.0
<b>14 Gauge</b> (.075")	Wt. per sq. ft. 3.125	120	40.0
36 x 96	75.0	<b>26 Gauge</b> (.018")	Wt. per sq. ft. .750
120	93.8	36 x 96	18.0
48 x 120	125.0	120	22.5
144	150.0	48 x 96	24.0
<b>16 Gauge</b> (.060")	Wt. per sq. ft. 2.500	120	30.0
36 x 96	60.00		
120	75.00		
48 x 120	100.00		
144	120.00		

## SHEET—GALVANIZED STEEL

Low carbon, steel sheets, continuously annealed and galvanized.  
 .075" and heavier — A.S.T.M. A-526.  
 .067" and lighter — Lockforming quality — A.S.T.M. A-527.

Size Inches	Est. Wt. Per Sheet	Size Inches	Est. Wt. Per Sheet
<b>10 Gauge</b> (.1382)	Wt. per sq. ft. 5.78 lbs.	<b>20 Gauge</b> (.0396)	Wt. per sq. ft. 1.66 lbs.
36 x 96	138.8	36 x 96	39.8
120	173.4	120	49.7
48 x 96	185.0	48 x 96	53.0
120	231.2	120	66.2
<b>11 Gauge</b> (.1233)	Wt. per sq. ft. 5.16 lbs.	<b>22 Gauge</b> (.0336)	Wt. per sq. ft. 1.41 lbs.
48 x 120	206.24	36 x 96	33.8
<b>12 Gauge</b> (.1084)	Wt. per sq. ft. 4.53 lbs.	120	42.2
36 x 96	108.8	48 x 96	45.0
120	135.9	120	56.2
48 x 96	145.0	<b>24 Gauge</b> (.0276)	Wt. per sq. ft. 1.16 lbs.
120	181.2	36 x 96	27.8
<b>14 Gauge</b> (.0785)	Wt. per sq. ft. 3.28 lbs.	120	34.7
36 x 96	78.8	48 x 96	37.0
120	98.4	120	46.2
48 x 96	105.0	<b>26 Gauge</b> (.0217)	Wt. per sq. ft. .905 lbs.
120	131.2	36 x 96	21.8
<b>16 Gauge</b> (.0635)	Wt. per sq. ft. 2.66 lbs.	120	27.2
36 x 96	63.8	48 x 96	29.0
120	79.7	120	36.2
48 x 96	85.0	<b>28 Gauge</b> (.0187)	Wt. per sq. ft. .780 lbs.
120	106.2	36 x 96	18.8
<b>18 Gauge</b> (.0516)	Wt. per sq. ft. 2.16 lbs.	120	23.4
36 x 96	51.8		
120	64.7		
48 x 96	96.0		
120	86.2		

All Steels can be galvanized upon request.

# HOT ROLLED PLATE

Size in Inches	Weight per Foot Lbs.	.15 to .25* Carbon	ASTM A-36	.40 to .50 Carbon	ASTM A285-GR C	Fremax® 15	4140
3/16 x	36 to 72 also see 7 GA. H.R. Sheets						
	48	30.60	•	•	•	•	•
	60	38.25	•	•	•	•	•
	72	45.90	•	•	•	•	•
	84	53.55	•	•	•	•	•
	96	61.20	•	•	•	•	•
	120	76.50	•	•	•	•	•
1/4 x	36	30.60	•	•	•	•	•
	48	40.80	•	•	•	•	•
	60	51.00	•	•	•	•	•
	72	61.20	•	•	•	•	•
	84	71.40	•	•	•	•	•
	96	81.60	•	•	•	•	•
	120	102.00	•	•	•	•	•
5/16 x	36	38.25	•	•	•	•	•
	48	51.00	•	•	•	•	•
	60	63.75	•	•	•	•	•
	72	75.50	•	•	•	•	•
	84	89.25	•	•	•	•	•
	96	102.00	•	•	•	•	•
	120	127.50	•	•	•	•	•
3/8 x	36	45.90	•	•	•	•	•
	48	61.20	•	•	•	•	•
	60	76.50	•	•	•	•	•
	72	91.80	•	•	•	•	•
	84	107.10	•	•	•	•	•
	96	122.40	•	•	•	•	•
	120	153.00	•	•	•	•	•
7/16 x	72	107.10	•	•	•	•	•
	84	124.95	•	•	•	•	•
	96	142.80	•	•	•	•	•
1/2 x	36	61.20	•	•	•	•	•
	48	81.60	•	•	•	•	•
	60	102.00	•	•	•	•	•
	72	122.40	•	•	•	•	•
	84	142.80	•	•	•	•	•
	96	163.20	•	•	•	•	•
	120	204.00	•	•	•	•	•
9/16 x	84	160.65	•	•	•	•	•
	96	183.60	•	•	•	•	•
5/8 x	36	76.50	•	•	•	•	•
	48	102.00	•	•	•	•	•
	60	127.50	•	•	•	•	•
	72	153.00	•	•	•	•	•
	84	178.50	•	•	•	•	•
	96	204.00	•	•	•	•	•
	120	255.00	•	•	•	•	•
11/16 x	84	196.35	•	•	•	•	•
	96	224.40	•	•	•	•	•
3/4 x	36	91.80	•	•	•	•	•
	48	122.40	•	•	•	•	•
	60	153.00	•	•	•	•	•
	72	183.60	•	•	•	•	•
	84	214.20	•	•	•	•	•
	96	244.80	•	•	•	•	•
	120	306.00	•	•	•	•	•
7/8 x	60	178.50	•	•	•	•	•
	72	214.20	•	•	•	•	•
	84	249.90	•	•	•	•	•
	96	285.60	•	•	•	•	•
1 x	48	163.20	•	•	•	•	•
	60	204.00	•	•	•	•	•
	72	244.80	•	•	•	•	•
	84	285.60	•	•	•	•	•
	96	326.40	•	•	•	•	•
	120	408.00	•	•	•	•	•
1-1/8 x	84	321.30	•	•	•	•	•
	96	367.20	•	•	•	•	•
1-1/4 x	48	204.00	•	•	•	•	•
	60	255.00	•	•	•	•	•
	72	306.00	•	•	•	•	•
	84	357.00	•	•	•	•	•
	96	408.00	•	•	•	•	•
	120	510.00	•	•	•	•	•
1-3/8 x	84	392.70	•	•	•	•	•
	96	448.80	•	•	•	•	•
1-1/2 x	48	244.80	•	•	•	•	•
	60	306.00	•	•	•	•	•
	72	367.20	•	•	•	•	•
	84	428.40	•	•	•	•	•
	96	489.60	•	•	•	•	•
	120	612.00	•	•	•	•	•

\*3/16" to 1-1/2" Incl. Also carried in A283 Gr. D.

• In Stock.

# HOT ROLLED PLATE

Size In Inches	Weight per Foot Lbs.	.1020 Silicon Killed	ASTM A-36	.40 to .50 Carbon	ASTM A285-GR C	Fremax® 15	4140
1-5/8 x 72	397.80	•	—	—	—	—	•
84	484.10	•	—	—	—	—	•
96	530.40	•	—	•	—	•	•
1-3/4 x 72	428.40	•	—	—	—	—	•
84	499.80	•	—	—	—	—	•
96	571.20	•	—	•	•	•	•
1-7/8 x 84	535.50	•	—	—	—	—	•
2 x 72	489.60	•	—	—	—	—	•
84	571.20	•	—	—	—	—	•
96	652.80	•	—	•	•	•	•
2-1/4 x 72	550.80	•	—	—	—	—	•
84	642.60	•	—	—	—	—	•
96	734.40	•	—	•	—	•	•
2-3/8 x 84	678.30	•	—	—	—	—	•
96	775.20	•	—	—	—	—	•
2 1/2 x 72	612.00	•	—	—	—	—	•
84	714.00	•	—	—	—	—	•
96	816.00	•	—	•	—	•	•
2-3/4 x 72	673.20	•	—	—	—	—	•
84	785.40	•	—	—	—	—	•
96	897.60	•	—	•	—	•	•
3 x 72	734.40	•	—	—	—	—	•
84	856.80	•	—	—	—	—	•
96	979.20	•	—	•	—	•	•
3-1/4 x 84	928.20	•	—	—	—	—	•
96	1060.80	•	—	•	—	•	•
3-1/2 x 84	999.60	•	—	—	—	—	•
96	1142.40	•	—	•	—	•	•
3-3/4 x 84	1071.00	•	—	—	—	—	•
96	1224.00	•	—	•	—	•	•
4 x 84	1142.40	•	—	—	—	—	•
96	1305.60	•	—	•	—	•	•
4-1/4 x 84	1213.80	•	—	—	—	—	•
96	1387.20	•	—	•	—	•	•
4-1/2 x 84	1285.20	•	—	—	—	—	•
96	1468.80	•	—	•	—	•	•
4-3/4 x 84	1356.60	•	—	—	—	—	•
96	1550.40	•	—	•	—	•	•
5 x 84	1428.00	•	—	—	—	—	•
96	1632.00	•	—	•	—	•	•
5-1/2 x 84	1570.80	•	—	—	—	—	•
96	1795.20	•	—	•	—	•	•
6 x 84	1713.60	•	—	—	—	—	•
96	1958.40	•	—	•	—	•	•
6-1/2 x 84	1856.40	•	—	—	—	—	•
96	2121.60	•	—	•	—	•	•
7 x 84	1989.20	•	—	—	—	—	•
96	2284.80	•	—	•	—	•	•
7-1/2 x 84	2142.00	•	—	—	—	—	•
96	2448.00	•	—	•	—	•	•
8 x 84	2284.80	•	—	—	—	—	•
96	2611.20	•	—	•	—	•	•
8-1/2 x 84	2427.60	•	—	—	—	—	•
96	2774.40	•	—	•	—	•	•
9 x 84	2570.40	•	—	—	—	—	•
96	2937.60	•	—	•	—	•	•
10 x 84	2856.00	•	—	—	—	—	•
96	3284.00	•	—	•	—	•	•
12 x 84	3427.20	•	—	—	—	—	•
96	3916.80	•	—	•	—	•	•
14 x 72	3427.20	•	—	—	—	—	•

### ANALYSIS

### STOCK LENGTHS

### COLOR CODE

.15 to .25 Carbon  
.1020 Silicon Killed  
ASTM A-36  
ASTM A-283 Grade D  
.40 to .50 Carbon

#### 1-1/4" AND UNDER

8', 10', 12', 20', 30', 40'  
8', 10', 12', 20', 30', 40'  
8', 10', 12', 20', 30', 40'  
8', 10', 12', 20', 30', 40'

#### OVER 1-1/4" THICK

10', 20', 30', 40'  
10', 20', 30', 40'  
10', 20', 30', 40'  
10', 20', 30', 40'

ALL THICKNESSES 10', 20', 30'

Yellow

#### 3/4" AND UNDER

8', 10', 12', 20', 30'

#### OVER 3/4" THICK

10', 20', 30', 40'

ASTM A-285 Grade C  
(Flange Quality)  
(Fire Box Quality)

Blue  
Red

FREMAX®  
(Free Machining Quality)

8', 10', 12', 20', 30'

10', 20', 30', 40'

Green

ASTM A-441 Hi-Strength

8', 10', 12', 20', 30'

10', 20', 30', 40'

Pink



# UNIVERSAL MILL EDGE PLATE

# FLOOR PLATE

AVAILABLE IN FOUR WAY  
AND MULTIGRIP PATTERNS

1/4" to 1-1/2" Thick Incl. ASTM 283 Grade D  
Over 1-1/2" to 2" Thick Incl. .17 to .24 Carbon Killed Steel

Size In Inches	Weight Per Ft.	Stock Lengths In Ft.	Size In Inches	Weight Per Ft.	Stock Lengths In Ft.
1/4 x 9	7.73	20	<b>MEDIUM PATTERN</b>		
10	8.58	30	16 GA x 30	6.13	8, 10, 12, 16
12	10.30	30	36	9.18	"
			48	12.24	"
5/16 x 9	9.66	20	14 GA x 36	11.48	"
10	10.73	20	48	15.30	"
12	12.88	20			
			12 GA x 36	16.07	8, 10, 12, 16 & 20
3/8 x 9	11.59	20	48	21.42	"
10	12.87	30	60	26.78	"
12	15.45	30			
			1/8 x 36	18.82	"
1/2 x 9	15.45	20	48	25.09	"
10	17.17	30	60	31.37	"
12	20.60	30	72	37.65	"
			<b>LARGE PATTERN</b>		
5/8 x 9	19.41	20	3/16 x 30	21.75	8, 10, 12, 20 & 30
10	21.57	20	36	26.10	"
12	25.88	20	42	30.45	"
			48	34.80	"
3/4 x 9	23.30	20	54	39.15	"
10	25.88	20	60	43.50	"
12	31.06	20	72	52.20	"
			1/4 x 30	28.13	"
7/8 x 10	30.20	20	36	33.75	"
12	36.24	20	42	39.38	"
			48	45.00	"
1 x 9	31.06	20	54	50.62	"
10	34.51	20	60	56.25	"
12	41.41	20	72	67.50	"
			5/16 x 30	34.50	"
1-1/4 x 10	43.14	20	36	41.40	"
12	51.77	20	42	48.30	"
			48	55.20	"
1-1/2 x 10	51.77	20	60	69.00	"
12	62.12	20	72	82.80	"
			3/8 x 30	40.88	"
2 x 9	62.12	20	36	49.05	"
10	69.02	20	42	57.23	"
12	82.82	20	48	65.40	"
			60	81.27	"
			72	98.10	"
			1/2 x 30	53.63	"
			36	64.35	"
			42	75.08	"
			48	85.80	"
			60	107.25	"
			72	128.70	"

# HOT ROLLED STRIP FLATS

Stock Lengths: 20'

Thickness in Inches	Estimated Weight, Lbs.		Thickness in Inches	Estimated Weight, Lbs.	
	Per Foot	20-Ft. Bar		Per Foot	20-Ft. Bar
1/8 x			3/16 x		
3/8	.1595	3.191	3/8	.2393	4.786
1/2	.2127	4.254	1/2	.3191	6.381
5/8	.2659	5.318	5/8	.3988	7.976
3/4	.3191	6.381	3/4	.4786	9.572
7/8	.3722	7.445	7/8	.5583	11.17
1	.4254	8.508	1	.6381	12.76
1 1/8	.4786	9.572	1 1/8	.7179	14.36
1 1/4	.5318	10.64	1 1/4	.7976	15.95
1 3/8	.5849	11.70	1 3/8	.8774	17.55
1 1/2	.6381	12.76	1 1/2	.9572	19.14
1 3/4	.7445	14.89	1 3/4	1.117	22.33
2	.8508	17.02	2	1.276	25.52
2 1/4	.9572	19.14	2 1/4	1.436	28.71
2 1/2	1.064	21.27	2 1/2	1.595	31.91
2 3/4	1.170	23.40	2 3/4	1.755	35.10
3	1.276	25.52	3	1.914	38.29
3 1/4	1.383	27.65	3 1/4	2.074	41.48
3 1/2	1.489	29.78	3 1/2	2.233	44.67
4	1.702	34.03	4	2.552	51.05
4 1/2	1.914	38.29	4 1/2	2.871	57.43
5	2.127	42.54	5	3.191	63.81
5 1/2	2.340	46.80	5 1/2	3.510	70.20
6	2.552	51.06	6	3.828	76.57
7	2.978	59.56	7	4.467	89.33
8	3.403	68.08	8	5.106	102.1
10	4.254	85.08	10	6.381	127.6
12	5.105	102.1	12	7.657	153.1

# HOT ROLLED STRIP FLATS

Color Marking: Ends Painted Blue

This is a low-carbon steel with good ductility.

## ANALYSIS

Carbon	Manganese	Phosphorus	Sulphur
.15 Max.	.30/.60	.04 Max.	.05 Max.

**APPLICATIONS** — Since this steel has good ductility, it is easy to fabricate and is used for a wide variety of purposes, such as for strapping, banding, brackets, ornamental iron work, and similar applications requiring a steel that can be cold formed.

**MECHANICAL PROPERTIES** — Will bend flat on itself at room temperature, either crosswise or lengthwise, without readily visible cracks along the bend. Average properties are as follows:

Tensile Strength (psi)	Yield Point (psi)	Elongation in 8"	Reduction of Area
55,000	37,000	30%	55%

**WELDABILITY** — This grade is easily welded by all the welding processes and the resultant welds and joints are of extremely high quality. The grade of welding rod to be used depends on thickness of section, design, service requirements, etc.

# COLD FINISHED ROUNDS

## Specification

C-1018

C-1045

B-1113

B-1113 Leaded

MX B-1113

C-1213

C-1117 Leaded

MX C-1213

C-12L14 Leaded

C-1117

Size In Inches	Weight Per Ft.	Wt. Of 12' Bar	Wt. Of 20' Bar	Size In Inches	Weight Per Ft.	Wt. Of 12' Bar	Wt. Of 20' Bar
1/8	.042	.501	-	3-1/8	26.08	312.94	521.56
5/32	.065	.782	-	3-3/16	27.13	325.57	542.62
3/16	.094	1.127	-				
1/4	.167	2.00	-	3-1/4	28.21	338.47	564.12
5/16	.261	3.13	-	3-5/16	29.30	351.61	586.02
3/8	.376	4.51	-	3-3/8	30.42	365.00	608.34
7/16	.511	6.13	-	3-7/16	31.55	378.65	631.08
1/2	.668	8.01	-	3-1/2	32.71	392.54	654.24
9/16	.845	10.14	-	3-9/16	33.89	406.69	677.82
5/8	1.043	12.52	-	3-5/8	35.09	421.08	701.80
11/16	1.262	15.15	-	3-11/16	36.31	435.73	726.22
3/4	1.502	18.03	30.04	3-3/4	37.55	450.52	751.04
13/16	1.763	21.15	35.26	3-7/8	40.10	481.16	801.94
7/8	2.045	24.53	40.89	3-15/16	41.40	496.81	828.02
15/16	2.347	28.16	46.94				
				4	42.73	512.71	854.52
1	2.670	32.04	53.41	4-1/8	45.44	545.26	908.76
1-1/16	3.015	36.18	60.29	4-3/16	46.83	561.90	936.50
1-1/8	3.380	40.56	67.59				
1-3/16	3.766	45.19	75.31	4-1/4	48.23	578.80	964.66
				4-5/16	49.66	595.94	993.24
1-1/4	4.172	50.07	83.45	4-3/8	51.11	613.34	1022.24
1-5/16	4.600	55.20	92.00	4-7/16	52.58	631.00	1051.66
1-3/8	5.049	60.58	100.97				
1-7/16	5.518	66.22	110.36	4-1/2	54.08	648.90	1081.50
				4-9/16	55.59	667.04	1111.74
1-1/2	6.008	72.10	120.17	4-5/8	57.17	685.45	1142.42
1-9/16	6.519	78.23	130.39	4-11/16	58.68	704.10	1173.50
1-5/8	7.051	84.62	141.03				
1-11/16	7.604	91.25	152.09	4-3/4	60.25	723.00	1205.00
				4-7/8	63.46	761.56	1269.26
1-3/4	8.178	98.14	163.56	4-15/16	65.10	781.20	1302.00
1-13/16	8.773	105.27	175.45				
1-7/8	9.388	112.66	187.76	5	66.76	801.11	1335.18
1-15/16	10.024	120.29	200.48	5-1/8	70.14	841.67	1402.78
				5-3/16	71.86	862.32	1437.20
2	10.68	128.18	213.63				
2-1/16	11.36	136.31	227.19	5-1/4	73.60	883.22	1472.04
2-1/8	12.06	144.70	241.17	5-3/8	77.15	925.80	1543.00
2-3/16	12.78	153.34	255.56	5-7/16	78.95	947.44	1579.06
				5-1/2	80.78	969.34	1615.56
2-1/4	13.52	162.22	270.37				
2-5/16	14.28	171.36	285.60	5-5/8	84.49	1013.88	1689.80
2-3/8	15.06	180.75	301.25	5-3/4	88.29	1059.48	1765.80
2-7/16	15.87	190.39	317.31	5-7/8	92.17	1106.04	1843.40
				5-15/16	94.14	1129.68	1882.80
2-1/2	16.69	200.28	333.80				
2-9/16	17.53	210.42	350.69	6	96.13	1153.56	1922.60
2-5/8	18.40	220.80	368.01	6-1/4	104.31	1251.72	2086.20
2-11/16	19.29	231.44	385.74	6-1/2	112.82	1353.84	2256.40
				6-3/4	121.67	1460.04	2433.40
2-3/4	20.19	242.34	403.89				
2-13/16	21.12	253.48	422.40	7	130.85	1570.20	2617.00
2-7/8	22.07	264.86	441.44	7-1/2	150.21	1802.52	3004.20
2-15/16	23.04	276.50	460.84				
				8	170.90	2050.80	3418.0
3	24.03	288.40	480.66	9	216.30	2595.60	4326.0
3-1/16	25.05	300.54	500.90	10	267.04	3204.00	5340.0

Bars over 4" in Diameter are turned and polished.

# COLD FINISHED SQUARES

# COLD FINISHED HEXAGONS

## Specification

C1018  
C-1045

B-1113  
B-1113 Leaded  
C-1117

MX B-1113  
C-1213

MX C-1213  
C-12L14 Leaded

Size In Inches	Weight Per Ft.	Wt. Of 12' Bar	Size In Inches	Weight Per Ft.	Wt. Of 12' Bar
1/8	.053	.64	1/4	.184	2.21
3/16	.120	1.44	5/16	.288	3.46
1/4	.213	2.56	3/8	.414	4.97
5/16	.332	3.98	7/16	.564	6.77
3/8	.478	5.74			
7/16	.651	7.81	1/2	.737	8.84
1/2	.850	10.20	9/16	.932	11.18
9/16	1.08	12.96	5/8	1.150	13.80
5/8	1.33	15.96	11/16	1.393	16.72
11/16	1.61	19.32			
3/4	1.91	22.92	3/4	1.658	19.90
13/16	2.24	26.88	13/16	1.944	23.33
7/8	2.60	31.20	7/8	2.256	27.07
15/16	2.99	35.88	15/16	2.588	31.06
1	3.40	40.80			
1-1/16	3.83	45.96	1	2.944	35.33
1-1/8	4.30	51.60	1-1/16	3.324	39.89
1-3/16	4.80	57.60	1-1/8	3.727	44.72
			1-3/16	4.152	49.82
1-1/4	5.31	63.72			
1-5/16	5.86	70.32	1-1/4	4.601	55.21
1-3/8	6.43	77.16	1-5/16	5.072	60.86
1-7/16	7.03	84.36	1-3/8	5.567	66.80
1-1/2	7.65	91.80	1-7/16	6.085	73.02
1-5/8	8.98	107.76			
1-3/4	10.41	124.92	1-1/2	6.625	79.50
1-7/8	11.96	143.52	1-5/8	7.775	93.30
			1-3/4	9.018	108.22
2	13.60	163.20			
2-1/8	15.36	184.32	2	11.780	141.36
2-1/4	17.21	206.52	2-1/4	14.911	178.93
2-3/8	19.19	230.28	2-1/2	18.403	220.84
2-1/2	21.25	255.00			
2-5/8	23.42	281.04			
2-3/4	25.71	308.52			
3	30.60	367.20			
3-1/4	35.94	431.28			
3-1/2	41.65	499.80			
3-3/4	47.80	573.60			
4	54.40	652.80			

## Specification

## Color Identification

C-1018	Green
C-1045	Yellow
B-1113	Red
B-1113 Leaded	Gray
MX B-1113	Red
C-1213	Red
C-1117 Leaded (Round Only)	Gray and Blue
MX C-1213	Red
C-12L14 Leaded	Gray
C-1117	Blue

# COLD FINISHED FLATS

## SPECIFICATION

C-1018

## COLOR IDENTIFICATION

Green

Size In Inches	Weight Per Ft.	Wt. Of 12' Bar	Size In Inches	Weight Per Ft.	Wt. Of 12' Bar
1/8 x 3/16	.080	.96	1/4 x 1	.850	10.20
1/4	.106	1.272	1-1/8	.956	11.47
5/16	.133	1.596	1-1/4	1.063	12.76
3/8	.159	1.91	1-3/8	1.169	14.03
7/16	.186	2.232	1-1/2	1.275	15.30
1/2	.213	2.56	1-5/8	1.381	16.57
5/8	.266	3.19	1-3/4	1.488	17.86
11/16	.293	3.516	1-7/8	1.594	19.13
3/4	.319	3.83	2	1.700	20.40
7/8	.372	4.46	2-1/4	1.913	22.96
1	.425	5.10	2-1/2	2.125	25.50
1-1/8	.478	5.74	2-3/4	2.338	28.06
1-1/4	.531	6.37	3	2.550	30.60
1-3/8	.584	7.01	3-1/4	2.763	33.16
1-1/2	.638	7.66	3-1/2	2.975	35.70
1-3/4	.744	8.93	4	3.400	40.80
2	.850	10.20	4-1/2	3.825	45.90
2-1/4	.956	11.47	5	4.250	51.00
2-1/2	1.063	12.76	6	5.100	61.20
2-3/4	1.169	14.03	8	6.800	81.60
3	1.275	15.30	10	8.500	102.00
3-1/2	1.488	17.86	12	10.200	122.40
4	1.700	20.40	5/16 x 3/8	.398	4.78
4-1/2	1.913	22.96	7/16	.465	5.58
5	2.125	25.50	1/2	.531	6.37
6	2.550	30.60	9/16	.598	7.18
3/16 x 1/4	.159	1.91	5/8	.664	7.97
5/16	.199	2.39	3/4	.797	9.56
3/8	.239	2.87	7/8	.930	11.16
7/16	.279	3.35	1	1.063	12.76
1/2	.319	3.83	1-1/8	1.195	14.34
9/16	.359	4.31	1-1/4	1.328	15.94
5/8	.398	4.78	1-3/8	1.461	17.53
3/4	.478	5.74	1-1/2	1.594	19.13
7/8	.558	6.70	1-3/4	1.859	22.31
1	.638	7.66	2	2.125	25.50
1-1/8	.717	8.60	2-1/4	2.391	28.69
1-1/4	.797	9.56	2-1/2	2.656	31.87
1-3/8	.877	10.52	2-3/4	2.922	35.06
1-1/2	.956	11.47	3	3.188	38.26
1-3/4	1.116	13.39	3-1/2	3.719	44.63
1-7/8	1.195	14.34	4	4.250	51.00
2	1.275	15.30	4-1/2	4.781	57.37
2-1/4	1.434	17.21	5	5.313	63.76
2-1/2	1.594	19.13	6	6.375	76.50
2-3/4	1.753	21.04	8	8.500	102.00
3	1.913	22.96	10	10.625	127.50
3-1/4	2.072	24.86	12	12.750	153.00
3-1/2	2.231	26.77	3/8 x 7/16	.558	6.70
4	2.550	30.60	1/2	.638	7.66
4-1/2	2.868	34.42	9/16	.717	8.60
5	3.188	38.26	5/8	.797	9.56
6	3.825	45.90	11/16	.877	10.52
1/4 x 5/16	.266	3.19	3/4	.956	11.47
3/8	.319	3.83	7/8	1.116	13.39
7/16	.372	4.46	1	1.275	15.30
1/2	.425	5.10	1-1/8	1.434	17.21
9/16	.478	5.74	1-1/4	1.594	19.13
5/8	.531	6.37	1-3/8	1.753	21.04
11/16	.584	7.01	1-1/2	1.913	22.96
3/4	.638	7.66	1-5/8	2.072	24.86
7/8	.744	8.93	1-3/4	2.231	26.77
			1-7/8	2.391	28.69

# COLD FINISHED FLATS

**SPECIFICATION**  
C-1018

**COLOR IDENTIFICATION**  
Green

Size In Inches	Weight Per Ft.	Wt. Of 12' Bar	Size In Inches	Weight Per Ft.	Wt. Of 12' Bar
3/8 x 2	2.550	30.60	9/16 x 5/8	1.20	14.34
2-1/4	2.869	34.43	3/4	1.43	17.21
2-1/2	3.188	38.26	7/8	1.67	20.08
2-3/4	3.506	42.07	1	1.91	22.96
3	3.825	45.90	1-1/8	2.15	25.82
3-1/4	4.144	49.73	1-1/4	2.39	28.69
3-1/2	4.463	53.56	1-1/2	2.87	34.43
3-3/4	4.781	57.37	1-3/4	3.35	40.16
4	5.100	61.20	2	3.83	45.90
4-1/2	5.738	68.86	2-1/2	4.78	57.37
5	6.375	76.50	5/8 x 11/16	1.46	17.53
5-1/2	7.013	84.16	3/4	1.59	19.13
6	7.650	91.80	13/16	1.73	20.72
7	8.925	107.10	7/8	1.86	22.31
8	10.200	122.40	15/16	1.99	23.52
10	12.750	153.00	1	2.13	25.50
12	15.300	183.60	1-1/8	2.39	28.69
7/16 x 1/2	.744	8.93	1-1/4	2.66	31.87
9/16	.837	10.04	1-3/8	2.92	35.06
5/8	.930	11.16	1-1/2	3.19	38.20
3/4	1.116	13.39	1-5/8	3.45	41.44
7/8	1.302	15.62	1-3/4	3.72	44.63
1	1.488	17.86	2	4.25	51.00
1-1/8	1.673	20.08	2-1/4	4.78	57.37
1-1/4	1.859	22.31	2-1/2	5.31	63.76
1-1/2	2.231	26.77	2-3/4	5.84	70.13
1-3/4	2.603	31.24	3	6.38	76.50
2	2.975	35.70	3-1/4	6.91	82.87
2-1/4	3.347	40.16	3-1/2	7.44	89.26
2-1/2	3.719	44.63	3-3/4	7.97	95.63
2-3/4	4.091	49.09	4	8.50	102.00
3	4.463	53.56	4-1/2	9.56	114.76
3-1/2	5.206	62.47	5	10.63	127.50
4	5.950	71.40	5-1/2	11.69	140.26
4-1/2	6.694	80.33	6	12.75	153.00
5	7.438	89.26	8	17.00	204.00
6	8.925	107.10	10	21.25	255.00
1/2 x 9/16	.956	11.47	12	25.50	306.00
5/8	1.063	12.76	11/16 x 3/4	1.75	21.04
11/16	1.169	14.03	7/8	2.05	24.54
3/4	1.275	15.30	1	2.34	28.06
13/16	1.381	16.58	1-1/8	2.63	31.56
7/8	1.486	17.86	3/4 x 7/8	2.23	26.77
1	1.70	20.40	1	2.55	30.60
1-1/8	1.91	22.96	1-1/8	2.87	34.43
1-1/4	2.13	25.50	1-1/4	3.19	38.26
1-3/8	2.34	28.06	1-3/8	3.51	42.07
1-1/2	2.55	30.60	1-1/2	3.83	45.90
1-5/8	2.76	33.16	1-5/8	4.14	49.73
1-3/4	2.98	35.70	1-3/4	4.46	53.56
2	3.40	40.80	2	5.10	61.20
2-1/4	3.83	45.90	2-1/4	5.74	68.86
2-1/2	4.25	51.00	2-1/2	6.38	76.50
2-3/4	4.68	56.10	2-3/4	7.01	84.16
3	5.10	61.20	3	7.65	91.80
3-1/4	5.53	66.30	3-1/4	8.29	99.46
3-1/2	5.95	71.40	3-1/2	8.93	107.10
3-3/4	6.38	76.58	3-3/4	9.56	114.72
4	6.80	81.60	4	10.20	122.40
4-1/4	7.23	86.76	4-1/2	11.48	137.70
4-1/2	7.65	91.80	5	12.75	153.00
4-3/4	8.08	96.96	5-1/2	14.03	168.30
5	8.50	102.00	6	15.30	183.60
5-1/2	9.35	112.20	6-1/2	16.58	198.96
5-3/4	9.78	117.36	8	20.40	244.80
6	10.20	122.40	10	25.50	306.00
7	11.90	142.80	12	30.60	367.20
8	13.60	163.20	7/8 x 1	2.98	35.70
10	17.00	204.00	1-1/8	3.35	40.16
12	20.40	244.80			

# COLD FINISHED FLATS

## SPECIFICATION

C-1018

## COLOR IDENTIFICATION

Green

Size In Inches	Weight Per Ft.	Wt. Of 12' Bar	Size In Inches	Weight Per Ft.	Wt. Of 12' Bar		
7/8 x	1-1/4	3.719	1-1/4 x 10	42.500	510.00		
	1-3/8	4.091		12	51.00	612.00	
	1-1/2	4.463	1-3/8 x 2	9.35	112.20		
	1-3/4	5.206		3	14.03	168.36	
	2	5.950		1-1/2 x 1-5/8	8.29	99.48	
	2-1/4	6.694	1-3/4		8.93	107.16	
	2-1/2	7.438	2		10.20	122.40	
	2-3/4	8.181	2-1/4		11.48	137.76	
	3	8.925	2-1/2		12.75	153.00	
	3-1/2	10.413	2-3/4		14.03	168.36	
	4	11.900	3	15.30	183.60		
	4-1/2	13.388		3-1/2	17.85	214.20	
	5	14.875		4	20.40	244.80	
	6	17.850		4-1/2	22.95	275.40	
1 x	1-1/8	3.825		5	25.50	306.00	
	1-1/4	4.250		5-1/2	28.05	336.60	
	1-3/8	4.675	6	30.60	367.20		
	1-1/2	5.100	8	40.80	489.60		
	1-5/8	5.525	10	51.00	612.00		
	1-3/4	5.950	12	61.20	734.40		
	2	6.800	1-3/4 x 2	11.90	142.80		
	2-1/4	7.650		2-1/4	13.39	160.68	
	2-1/2	8.500		2-1/2	14.88	178.56	
	2-3/4	9.350		2-3/4	16.36	196.32	
	3	10.200		3	17.85	214.20	
	3-1/2	11.900		3-1/2	20.83	249.96	
	4	13.600	4	23.80	285.60		
	4-1/2	15.300		4-1/2	26.78	321.36	
5	17.000	5		29.75	357.00		
5-1/2	18.700	6		35.70	428.40		
6	20.400	2 x		2-1/4	15.30	183.60	
8	27.200			2-1/2	17.00	204.00	
10	34.000		2-3/4	18.70	224.40		
12	40.800		3	20.40	244.80		
1-1/8 x	1-1/4		4.781	3-1/2	23.80	285.60	
	1-3/8		5.259	4	27.20	326.40	
	1-1/2	5.738	4-1/2	30.60	367.20		
	1-5/8	6.216	5	34.00	408.00		
	1-3/4	6.694	6	40.80	489.60		
	2	7.650	8	54.40	652.80		
	2-1/4	8.606	10	68.00	816.00		
	2-1/2	9.563	12	81.60	979.20		
	3	11.475	2-1/4 x 2-1/2	19.13	229.56		
	4	15.300		3	22.95	275.40	
	1-1/4 x	1-3/8		5.844	3-1/4	24.86	298.32
		1-1/2		6.375	3-1/2	26.78	321.36
		1-5/8		6.906	4	30.60	367.20
		1-3/4		7.438		4-1/2	34.43
1-7/8		7.969	5	38.25		459.00	
2		8.500	6	45.90		550.80	
2-1/4		9.563	2-1/2 x 3	25.50		306.00	
2-1/2		10.625		3-1/2		29.75	357.00
2-3/4		11.688		4	34.00	408.00	
3		12.750		5	42.50	510.00	
3-1/2		14.875		6	51.00	612.00	
4		17.000		3 x 4	40.80	489.60	
4-1/2		19.125	5		51.00	612.00	
5		21.250	6		61.20	734.40	
5-1/2	23.375						
6	25.500						
8	34.000						

### STANDARD SHEET GAUGES and WEIGHTS

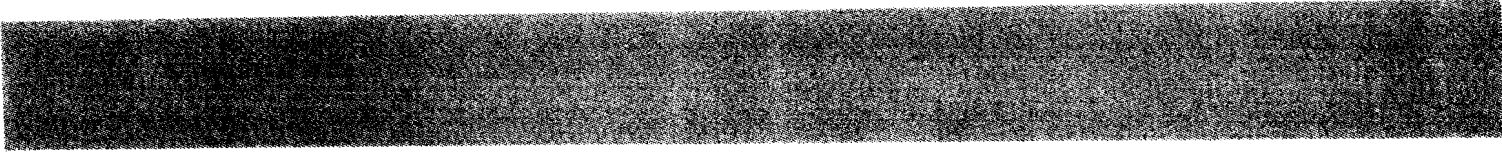
Specify thickness by decimal part of an inch, or by number and name of gauge.

Ga. No.	Carbon Sheets (To USS or Mfrs. ga.)	
	Thickness in Inches	Weight per Sq. Ft. in Lbs.
	1/4", & over are plates	
7	.1793	7.500
8	.1644	6.875
9	.1494	6.250
10	.1345	5.625
11	.1196	5.000
12	.1046	4.375
13	.0897	3.750
14	.0747	3.125
15	.0673	2.812
16	.0598	2.500
17	.0538	2.250
18	.0478	2.000
19	.0418	1.750
20	.0359	1.500
21	.0329	1.375
22	.0299	1.250
23	.0269	1.125
24	.0239	1.000
25	.0209	.875
26	.0179	.750
27	.0164	.6875
28	.0149	.625
29	.0135	.5625
30	.0120	.500

### FRACTION AND DECIMAL EQUIVALENTS

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



  
**NAPCO**

**STEEL, INC.**

**STAINLESS  
STEEL**

# **Vast stocks of Stainless Steel: plate, sheet, bars and angles always on hand.**

**Cut to your specifications on our new plasma cutting machine or straight-line—prices on application. It automatically cuts squares, circles, rectangles and rings with speed and precision. More complicated patterns can be produced just as easily with its electric eye control.**

**C. N. C. cuts any grade of stainless up to 3½" thick, eliminating templates and set-up time. There are no bottlenecks, no delays . . . and NSI operators are specially trained on this equipment to produce the best quality edge and the most accurate dimension tolerances.**

# SHEETS

SIZE	Est. Wt. Per Sht.	TYPE 302-304			TYPE 316 2B	304 L.C. .03 Max. Carbon 2B	316 L.C. .03 Max. Carbon 2B	SIZE	Est. Wt. Per Sht.	TYPE 302-304			TYPE 316 2B	304 L.C. .03 Max. Carbon 2B	316 L.C. .03 Max. Carbon 2B
		2B	100G	#4						2B	100G	#4			
# 8x48" x 120"	288.7	●		●		●	●	#16x30" x 96"	52.5	●	●	●			
#10x36" x 96"	141.7	●						#16x30" x 120"	65.6	●	●	●			
#10x36" x 120"	177.2	●	●	●	●			#16x36" x 96"	63.0	●	●	●			
#10x48" x 96"	189.0	●			●			#16x36" x 120"	78.8	●	●	●	●		
#10x48" x 120"	236.2	●	●	●	●	●	●	#16x36" x 144"	94.6	●	●	●			
#10x60" x 120"	295.3	●		●				#16x42" x 120"	91.9	●	●	●			
#10x60" x 144"	354.4	●		●	●			#16x48" x 96"	84.0	●	●	●			
#10x72" x 120"	354.4	●						#16x48" x 120"	105.0	●	●	●	●	●	●
#10x72" x 144"	425.2	●						#16x48" x 144"	126.0	●	●	●			
#11x36" x 96"	126.0	●	●	●				#16x54" x 120"	118.1	●	●	●			
#11x36" x 120"	157.5	●	●	●	●			#16x56" x 96"	98.0			●			
#11x48" x 120"	210.0	●	●	●	●	●	●	#16x60" x 96"	105.0			●			
#11x48" x 144"	252.0	●	●	●				#16x60" x 120"	131.3	●		●			
#11x60" x 120"	262.5	●						#16x60" x 144"	157.5	●		●			
#11x60" x 144"	315.0	●			●			#16x72" x 144"	189.0						
#11x72" x 144"	378.0	●						#18x30" x 96"	42.0	●	●	●			
#12x30" x 96"	91.86	●	●	●				#18x30" x 120"	52.5	●	●	●			
#12x30" x 120"	114.8	●	●	●				#18x36" x 96"	50.4	●	●	●			
#12x36" x 96"	110.2	●	●	●				#18x36" x 120"	63.0	●	●	●	●		
#12x36" x 120"	137.8	●	●	●	●			#18x36" x 144"	75.6	●	●	●			
#12x42" x 120"	160.8	●	●	●				#18x42" x 120"	73.5	●	●	●			
#12x48" x 96"	146.8	●	●	●				#18x48" x 96"	67.2	●	●	●			
#12x48" x 120"	183.7	●	●	●	●	●	●	#18x48" x 120"	84.0	●	●	●	●	●	
#12x48" x 144"	220.9	●	●	●				#18x48" x 144"	100.8	●	●	●			
#12x54" x 96"	165.37			●				#18x54" x 120"	94.5						
#12x54" x 120"	206.7			●				#18x56" x 120"	98.0	●					
#12x60" x 96"	183.7	●	●	●				#18x60" x 120"	105.0	●	●	●			
#12x60" x 120"	229.7	●	●	●				#20x30" x 96"	31.5	●	●	●			
#12x60" x 144"	275.6	●	●	●	●			#20x30" x 120"	39.4	●	●	●			
#12x61½" x 120"	235.4			●				#20x36" x 96"	37.8	●	●	●			
#12x72" x 120"	275.6	●						#20x36" x 120"	47.3	●	●	●	●		
#12x72" x 144"	330.8							#20x42" x 120"	55.1	●	●	●			
#13x36" x 96"	94.5							#20x48" x 96"	50.4	●	●	●			
#13x36" x 120"	118.1							#20x48" x 120"	63.0	●	●	●	●		
#13x48" x 120"	157.5	●	●	●	●			#22x30" x 96"	26.3			●			
#14x30" x 120"	82.0	●	●	●				#22x30" x 120"	32.8	●	●	●			
#14x36" x 96"	78.7	●	●	●				#22x36" x 96"	31.5	●	●	●			
#14x36" x 120"	98.4	●	●	●	●			#22x36" x 120"	39.4	●	●	●	●		
#14x36" x 144"	118.1	●	●	●				#22x48" x 96"	42.0	●	●	●			
#14x42" x 120"	114.8	●	●	●				#22x48" x 120"	52.5	●	●	●	●		
#14x48" x 96"	104.9	●	●	●				#24x30" x 96"	21.0	●	●	●	●		
#14x48" x 120"	131.2	●	●	●	●	●	●	#24x30" x 120"	26.3	●	●	●			
#14x48" x 144"	157.4	●	●	●				#24x36" x 96"	25.2	●	●	●	●		
#14x54" x 120"	147.7	●	●	●				#24x36" x 120"	31.5	●	●	●			
#14x54" x 144"	177.0	●						#24x48" x 96"	33.6	●	●	●	●		
#14x60" x 120"	164.0	●		●				#24x48" x 120"	42.0	●	●	●	●		
#14x60" x 144"	196.9	●		●				#26x30" x 96"	15.8	●	●	●	●		
#14x72" x 120"	196.9							#26x30" x 120"	19.7	●	●	●			
#14x72" x 144"	236.2	●						#26x36" x 96"	18.9	●	●	●	●		
								#26x36" x 120"	23.6	●	●	●	●		
								#26x48" x 96"	25.2	●	●	●			
								#26x48" x 120"	31.5	●	●	●			

● indicates items normally carried in stock.

NOTE: Special rolled-on finishes available from mill.

**ODD-STOCK ITEMS:** Sizes and alloys not usually stocked or shown may be in our odd-stock inventory. Please call us if you have an unusual requirement.

## SPECIFICATIONS

Stainless Steel in our stock is purchased to conform with the following specifications:

<b>PLATES</b>	304 & 304 LC A.S.T.M. A-240-60T No ultrasonic testing No line marking DuPont 819M DuPont 819A	309 AMS 5523 Except 12 max. C No line marking	310 AMS 5521 No line marking	316 & 316 LC A.S.T.M.A-240-60T QQS-766C	321 AMS 5510-H MIL-S-6721-A No line marking	347 AMS 5512-B No ultrasonic testing No line marking
	<b>BAR</b>	303 A.M.S. 5640-no line marking QQS-763D Condition A	304 A.S.T.M. A-276 Condition A QQS-763B Condition A No ultrasonic testing No line marking	309 QQS-763D Condition A A.S.T.M. A276 Condition A	309-S AMS 5650 - no line marking A.S.T.M.A-276	316 AMS 5648-C no line marking QQS-763D Condition A
<b>SHEETS</b>		304 & 304 LC A.S.T.M. A-240 QQS-766C Condition A Including embrittlement test No ultrasonic testing or line marking	316 & 316 LC QQS-766C-no line marking A.S.T.M.A-240-including embrittlement test	Above specifications cover many others not listed. Contact our stainless department if your specification is not shown.		

## PLATES

Hot Rolled Annealed and Pickled Finish

Thickness in inches	WEIGHTS PER SQUARE FOOT		Type	Type	Type	Type	Type	Type	Type	Type
	UP TO & INCLUDING 120' WIDE		304	304-LC	309	310	316	316-LC	321	347
3/16	7.752		•*	•	•	•	•	•	•	•
1/4	10.336		•*	•	•	•	•	•	•	•
5/16	12.920		•	•	•	•	•	•	•	•
3/8	15.503		•	•	•	•	•	•	•	•
7/16	18.087		•	•	•	•	•	•	•	•
1/2	20.671		•	•	•	•	•	•	•	•
9/16	23.255		•	•	•	•	•	•	•	•
5/8	25.839		•	•	•	•	•	•	•	•
3/4	31.007		•	•	•	•	•	•	•	•
7/8	36.175		•	•	•	•	•	•	•	•
1	41.342		•	•	•	•	•	•	•	•
1 1/8	46.510		•	•	•	•	•	•	•	•
1 3/16	49.084		•	•	•	•	•	•	•	•
1 1/4	51.678		•	•	•	•	•	•	•	•
1 3/8	56.845		•	•	•	•	•	•	•	•
1 7/16	59.429		•	•	•	•	•	•	•	•
1 1/2	62.013		•	•	•	•	•	•	•	•
1 5/8	67.181		•	•	•	•	•	•	•	•
1 3/4	72.349		•	•	•	•	•	•	•	•
2	82.584		•	•	•	•	•	•	•	•
2 1/4	93.02		•	•	•	•	•	•	•	•
2 1/2	103.355		•	•	•	•	•	•	•	•
2 3/4	113.691		•	•	•	•	•	•	•	•
3	124.026		•	•	•	•	•	•	•	•
3 1/2	144.897		•	•	•	•	•	•	•	•
4	165.368		•	•	•	•	•	•	•	•

\* Also Available in Temper Rolled Finish (ASTM A-240)

• indicates items normally carried in stock.

PLATES CAN BE FURNISHED ABRASIVE CUT.

# BARS

CG - ANNEALED and

# ROUNDS

CD - ANNEALED and COLD DRAWN

CENTERLESS GROUND

SIZE	Wt. Per Ft.	TYPE 303		TYPE 304		TYPE 316		TYPE 416		SIZE	Wt. Per Ft.	TYPE 303		TYPE 304		TYPE 316		TYPE 416	
		CD	CG	CD	CG	CD	CG	CD	CG			CD	CG	CD	CG	CD	CG	CD	CG
3/32"	.024			●						2"	10.68		●		●		●		
1/8"	.042									2 1/8"	12.06		●				●		
3/16"	.094	●		●		●				2 3/16"	12.78		●				●		
1/4"	.167	●		●		●		●		2 1/4"	13.52		●		●		●		
5/16"	.26	●		●		●				2 3/8"	15.06		●		●		●		
9/32"	.211							●		2 7/16"	15.87		●						
3/8"	.38	●	●	●		●	●	●		2 1/2"	16.69		●		●		●		
7/16"	.51		●							2 5/8"	18.40		●		●		●		
1/2"	.67	●	●	●	●	●	●		●	2 11/16"	19.29		●						
9/16"	.85		●		●					2 3/4"	20.20		●		●		●		
5/8"	1.04		●		●		●		●	2 7/8"	22.07		●		●				
11/16"	1.26		●							2 15/16"	23.04		●						
3/4"	1.50		●		●		●		●	3"	24.03		●		●		●		
13/16"	1.76		●							3 1/8"	26.08		●						
7/8"	2.04		●		●		●		●	3 1/4"	28.21		●		●		●		
15/16"	2.35		●				●			3 3/8"	30.42		●						
1"	2.67		●		●		●		●	3 7/16"	31.55		●						
1 1/16"	3.01		●							3 1/2"	32.71		●		●		●		
1 1/8"	3.38		●		●		●			3 5/8"	35.09				●				
1 3/16"	3.77		●				●			3 11/16"	36.31								
1 1/4"	4.17		●		●		●		●	3 3/4"	37.55		●		●		●		
1 5/16"	4.60		●							4"	42.73		●		●		●		
1 3/8"	5.05		●		●		●			4 1/4"	48.23		●		●		●		
1 7/16"	5.52		●		●		●			4 1/2"	54.08		●		●		●		
1 1/2"	6.01		●		●		●			4 3/4"	60.25		●		●		●		
1 9/16"	6.52		●		●					5"	66.76		●		●		●		
1 5/8"	7.05		●		●		●			5 1/4"	73.60		●		●		●		
1 11/16"	7.60		●		●					5 1/2"	80.78		●		●		●		
1 3/4"	8.18		●		●		●		●	6"	96.13		●		●		●		
1 13/16"	8.77				●														
1 7/8"	9.39		●		●		●												
1 15/16"	10.02		●																

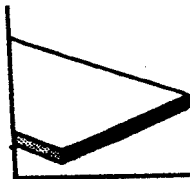
All Rounds 4 1/4" and larger are hot rolled, annealed and rough turned.

# SQUARES

SIZE	Wt. Per Ft.	303 CD	304 CD	SIZE	Wt. Per Ft.	303 CD	304 CD	SIZE	Wt. Per Ft.	303 CD	304 CD
1/8"	.053			5/8"	1.33	●	●	1 3/4"	10.41		●
3/16"	.120			3/4"	1.91	●	●	2"	13.60	●	●
1/4"	.213	●	●	7/8"	2.60	●	●				
5/16"	.332	●		1"	3.40	●	●				
3/8"	.478	●	●	1 1/8"	4.30						
7/16"	.651	●		1 1/4"	5.31	●	●				
1/2"	.85	●	●	1 1/2"	7.65	●	●				

● indicates items normally carried in stock.

We are a source for type 17-4PH requirements.



## FLATS—STAINLESS STEEL

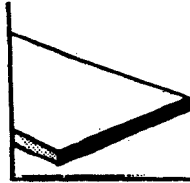
HOT ROLLED, ANNEALED and PICKLED

Stock lengths: 14 ft.-16 ft. random.

A.S.T.M.: A-276

See Data Section for mechanical properties, chemical analysis.

Size Inches	Weight Per Ft. Lbs.	304	316	Size Inches	Weight Per Ft. Lbs.	304	316
$\frac{1}{8}$ x $\frac{3}{4}$	.319	X		6	7.65	X	
1	.425		X	$\frac{1}{2}$ x $\frac{3}{4}$	1.28	X	
$1\frac{1}{2}$	.638		X	1	1.70	X	X
2	.850		X	$1\frac{1}{4}$	2.13	X	X
$2\frac{1}{2}$	1.06		X	$1\frac{1}{2}$	2.55	X	X
3	1.28		X	$1\frac{3}{4}$	2.98	X	
$\frac{3}{16}$ x $\frac{1}{2}$	.319	X		2	3.40	X	X
$\frac{3}{8}$	.478	X	X	$2\frac{1}{2}$	4.25	X	X
1	.638		X	3	5.10	X	X
$1\frac{1}{4}$	.797		X	$3\frac{1}{2}$	5.95	X	
$1\frac{1}{2}$	.956		X	4	6.80	X	X
2	1.28		X	$4\frac{1}{2}$	7.65	X	
3	1.91		X	5	8.50	X	
$\frac{1}{4}$ x $\frac{1}{2}$	.425	X		6	10.20	X	
$\frac{3}{8}$	.638	X	X	$\frac{3}{8}$ x 1	2.13	X	
1	.850	X	X	$1\frac{1}{2}$	3.19	X	
$1\frac{1}{4}$	1.06	X	X	2	4.25	X	
$1\frac{1}{2}$	1.28	X	X	$2\frac{1}{2}$	5.31	X	
$1\frac{3}{4}$	1.49	X		3	6.38	X	
2	1.70	X	X	$3\frac{1}{2}$	7.44	X	
$2\frac{1}{2}$	2.13	X	X	4	8.50	X	
3	2.55	X	X	$\frac{3}{4}$ x 1	2.55	X	
4	3.40	X		$1\frac{1}{2}$	3.83	X	
6	5.10	X	X	2	5.10	X	X
$\frac{3}{8}$ x $\frac{1}{2}$	.637	X		$2\frac{1}{2}$	6.38	X	
$\frac{3}{4}$	.956	X	X	3	7.65	X	X
1	1.28	X	X	4	10.20	X	
$1\frac{1}{4}$	1.59	X		5	12.75	X	
$1\frac{1}{2}$	1.91	X	X	6	15.30	X	
$1\frac{3}{4}$	2.23	X		1 x $1\frac{1}{2}$	5.10	X	
2	2.55	X	X	2	6.80	X	X
$2\frac{1}{2}$	3.19	X	X	3	10.20	X	
3	3.83	X	X	4	13.60	X	
$\frac{3}{8}$ x 4	5.10	X		6	20.40	X	
5	6.38	X		$1\frac{1}{2}$ x 2	7.65	X	



## FLATS—STAINLESS STEEL

### STRIP and PLATE FLATS

Strip and plate flats are produced from sheared and edge conditioned type 304 stainless strip and plate.  
 Stock lengths: 12 ft. random.  
 A.S.T.M.: A-240

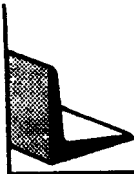
Size Inches	Weight Per Ft. Lbs.	Size Inches	Weight Per Ft. Lbs.
$\frac{1}{8}$ x $\frac{1}{2}$	.213	$\frac{1}{4}$ x 2	1.86
$\frac{3}{4}$	.319	2 $\frac{1}{2}$	2.33
1	.420	3	2.79
1 $\frac{1}{4}$	.525	4	3.72
1 $\frac{1}{2}$	.630	6	5.58
1 $\frac{3}{4}$	.735	$\frac{3}{8}$ x 1 $\frac{1}{2}$	2.06
2	.840	1 $\frac{3}{4}$	2.40
2 $\frac{1}{2}$	1.050	2	2.75
3	1.260	2 $\frac{1}{2}$	3.44
4	1.680	3	4.13
$\frac{3}{16}$ x $\frac{1}{2}$	.319	4	5.50
$\frac{3}{4}$	.479	6	8.25
1	.715	$\frac{1}{2}$ x 1 $\frac{1}{2}$	2.70
1 $\frac{1}{4}$	.894	1 $\frac{3}{4}$	3.16
1 $\frac{1}{2}$	1.070	2	3.61
1 $\frac{3}{4}$	1.250	2 $\frac{1}{2}$	4.51
2	1.430	3	5.41
2 $\frac{1}{2}$	1.790	4	7.22
3	2.140	6	10.83
4	2.860		
$\frac{1}{8}$ x $\frac{1}{2}$	.420		
$\frac{3}{4}$	.650		
1	.930		
1 $\frac{1}{4}$	1.160		
1 $\frac{1}{2}$	1.400		
1 $\frac{3}{4}$	1.630		

Note: Tolerances of this product are not as close as material produced to A.S.T.M. A-276.

## HALF ROUND-STAINLESS STEEL

A.S.T.M.: A-276  
 Stock lengths: 20 ft. random.

Size Inches	Weight Per Ft. Lbs.	Size Inches	Weight Per Ft. Lbs.
$\frac{3}{8}$	.522		
$\frac{3}{4}$	.751		
1	1.335		



## ANGLE—STAINLESS STEEL

HOT ROLLED, ANNEALED and PICKLED

A.S.T.M.: A-276  
 Stock lengths: 21 ft. random.  
 See Data Section for mechanical properties, chemical analysis.

Size Inches	Weight Per Ft. Lbs.	304	316	Size Inches	Weight Per Ft. Lbs.	304	316
¾ x ¾ x ½	.59	X	X	2 x 2 x ¼	3.19	X	X
	.84	X			¾	4.70	X
1 x 1	¾	X	X	2½ x 2½ x ¾	3.07	X	
	⅞	X	X		¼	4.10	X
1¼ x 1¼ x ½	1.16	X	X	¾	5.90	X	X
	1.49	X		★ 3 x 1½ x ¼	3.64	X	
1½ x 1½ x ½	1.01	X	X	★ 3 x 2 x ¼	4.06	X	
	¾	X		3 x 3 x ¼	4.90	X	X
1½ x 1½ x ⅞	1.23	X		⅞	6.10	X	X
	¾	X	X	¾	7.20	X	X
2 x 2	¾	X	X	4 x 4 x ¼	6.60	X	X
	⅞	X	X	¾	9.80	X	X
	2.44	X	X				

★ Unequal leg angles are welded, ground, annealed and pickled.

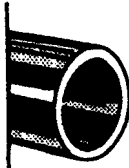
## CHANNEL-304 STAINLESS STEEL

WELDED, GROUND, ANNEALED, and PICKLED

Stock lengths: 21 ft. randoms.

Size Inches	Weight Per Ft. Lbs.	Size Inches	Weight Per Ft. Lbs.
3 x 1½ x ¼	4.75		
4 x 2 x ¼	6.50		

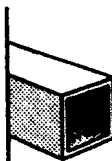




## ROUND TUBING—STAINLESS STEEL TYPE 304 WELDED

Stock lengths: 17 ft.-24 ft. random.

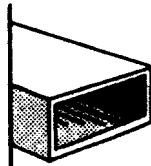
O.D. Size	Wall Thickness	Weight Per Ft. Lbs.	O.D. Size	Wall Thickness	Weight Per Ft. Lbs.
½	.035	.1738	1	.035	.3607
	.049	.2360		.049	.4977
	.065	.3020		.065	.6491
¾	.035	.2205	1½	.120	1.128
	.049	.3014		.065	.9962
	.065	.3888		.120	1.769
¾	.035	.2673	2	.065	1.343
	.049	.3668		.120	2.409
	.065	.4755			



## SQUARE TUBING—STAINLESS STEEL TYPE 304 WELDED

Stock lengths: 17 ft.-24 ft. random.

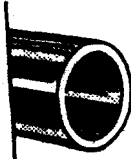
O.D. Size Inches	Wall Thickness	Wt. Per Ft. Lbs.	O.D. Size Inches	Wall Thickness	Wt. Per Ft. Lbs.
1	.065	.827	2½	.120	3.884
	.120	1.436		.180	5.679
1½	.065	1.269	3	.120	4.700
	.120	2.522		.180	6.903
2	.065	1.711	4	.120	6.260
	.120	3.068		.180	9.270
	.180	4.455			



## RECTANGULAR TUBING— STAINLESS STEEL TYPE 304 WELDED

Stock lengths: 17 ft.-24 ft. random.

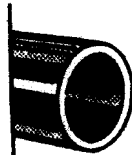
O.D. Size Inches	Wall Thickness	Wt. Per Ft. Lbs.	O.D. Size Inches	Wall Thickness	Wt. Per Ft. Lbs.
1 x 2	.120	2.252	2 x 3	.180	5.679
1½ x 3	.120	3.476	2 x 4	.180	6.903



**PIPE—STAINLESS STEEL**  
**SCHEDULE 40, WELDED**

Stock lengths: 17 ft.-24 ft. random.

Size Inches	Outside Diameter	Wall Thickness	Weight Per Ft. lbs.	304	316
1/8	.405	.068	.2447	X	X
1/4	.540	.088	.4248	X	X
3/8	.675	.091	.5676	X	X
1/2	.840	.109	.8510	X	X
3/4	1.050	.113	1.131	X	X
1	1.315	.133	1.679	X	X
1 1/4	1.660	.140	2.273	X	X
1 1/2	1.900	.145	2.718	X	X
2	2.375	.154	3.653	X	X
2 1/2	2.875	.203	5.790	X	
3	3.500	.216	7.617	X	
4	4.500	.237	10.89	X	
5	5.563	.258	14.62	X	



**PIPE—STAINLESS STEEL**  
**SCHEDULE 10, WELDED**

Stock lengths: 17 ft.-24 ft. random.

Size Inches	Outside Diameter	Wall Thickness	Weight Per Ft. Lbs.	304*	316*
3/4	1.050	.083	.8572	X	X
1	1.315	.109	1.404	X	X
1 1/4	1.660	.109	1.806	X	X
1 1/2	1.900	.109	2.085	X	X
2	2.375	.109	2.638	X	X
2 1/2	2.875	.120	3.531	X	X
3	3.500	.120	4.332	X	X
3 1/2	4.000	.120	4.973	X	X
4	4.500	.120	5.613	X	X

\*Also available in sizes larger than 2" in 304L, 316L.

  
**NAPCO**

**STEEL, INC.**

**ALUMINUM**

# ALUMINUM FLAT SHEETS

NONHEAT - TREATABLE  
MILL FINISH

THICKNESS	WIDTH	LENGTH	EST. WT. PER SHT.	ALLOY AND TEMPER						
				1100-0	1100-H14	3003-0	3003H14	5052-0	5052H32	5052H34
020	36	96	6.84						•	
	36	120	8.55							
025	36	96	8.55				•			
	36	120	10.69				•			
	48	96	11.39				•			
	48	120	14.24							
	48	144	17.10				•			
032	36	96	10.95				•	•	•	
	36	120	13.69				•			
	48	96	14.60				•			•
	48	120	18.25				•			
	48	144	21.90				•			
040	36	96	13.68		•		•	•		•
	36	120	17.11				•			
	48	96	18.24				•			
	48	120	22.81		•		•		•	
	48	144	27.37		•		•	•	•	
	60	144	34.21							
050	36	96	17.11				•		•	•
	36	120	21.28		•				•	
	48	96	22.81						•	
	48	120	28.51		•		•		•	•
	48	144	34.21	•			•		•	
	60	144	42.77							
063	36	96	21.55		•		•		•	•
	36	120	26.94		•		•			
	48	96	28.74				•		•	
	48	120	35.92		•		•		•	•
	48	144	43.11		•	•	•		•	•
	60	144	53.89				•			
080	36	96	27.37		•		•		•	
	48	96	35.84				•		•	
	48	120	45.62				•			
	48	144	54.74		•		•		•	•
	60	144	68.46							
090	36	96	30.79	•			•			•
	48	144	61.59		•		•	•	•	•
	60	144	76.98				•			
100	36	96	34.21				•			
	48	144	68.43		•		•		•	
	60	144	85.56							
125	36	96	42.72	•	•		•		•	•
	36	120	53.46				•			
	48	96	55.87						•	
	48	120	71.28		•		•			
	48	144	85.54		•		•	•	•	•
	60	144	106.92				•			
	72	144	128.30							
190	36	96	65.00				•		•	
	48	120	106.34				•			
	48	144	130.00				•		•	•
	60	144	162.54				•			

• Indicates items normally carried in stock.

# ALUMINUM FLAT SHEETS

HEAT - TREATABLE  
MILL FINISH

THICK- NESS	WIDTH	LENGTH	EST. WT. PER SHT.	ALLOY AND TEMPER		THICK- NESS	WIDTH	LENGTH	EST. WT. PER SHT.	ALLOY AND TEMPER	
				2024T3 BARE	6061T6					2024T3 BARE	6061T6
.020	36	144	10.37			.090	48	144	60.96	●	●
.025	36	144	12.70		●		60	144	76.20		
	48	144	17.28	●		.100	48	144	67.74	●	●
.032	48	144	22.12	●	●	.125	36	96	42.34		●
.040	48	144	27.65				36	144	63.50		
.050	36	96	16.93		●		48	96	56.45		
	48	144	34.56	●	●		48	144	84.67	●	●
	60	144	42.36				60	144	105.84		
.063	36	96	21.34		●	.160	48	144	108.38		
	48	144	42.67	●	●		60	144	135.48		
	60	144	53.34			.190	36	96	64.35		
.080	48	144	54.19	●	●		48	144	128.70	●	●
	60	144	67.92				60	144	160.68		●
							72	144	193.05		

**Table 1 – CHEMICAL COMPOSITION LIMITS (1)  
ALUMINUM SHEET AND PLATE**

ALLOY DESIG- NATION	SILICON	IRON	COPPER	MAN- GANESE	MAG- NESIUM	CHRO- MIUM	ZINC	TITA- NIUM	OTHERS		ALUMINUM MIN. (6)
									EACH	TOTAL	
1100	1.0 Si + Fe		0.20	0.05	....	....	0.10	....	0.05	0.15	99.00
1230 (2)	0.7 Si + Fe		0.10	0.05	....	....	0.10	....	0.05	0.15	99.30
2014	0.50 - 1.2	1.0	3.9 - 5.0	0.40 - 1.2	0.20 - 0.8	0.10	0.25	0.15	0.05	0.15	Remainder
2024	0.50	0.50	3.8 - 4.9	0.30 - 0.9	1.2 - 1.8	0.10	0.25	....	0.05	0.15	Remainder
3003	0.6	0.7	0.20	1.0 - 1.5	....	....	0.10	....	0.05	0.15	Remainder
3004	0.30	0.7	0.25	1.0 - 1.5	0.8 - 1.3	....	0.25	....	0.05	0.15	Remainder
4343 (5)	6.8 - 8.2	0.8	0.25	0.10	....	....	0.20	....	0.05	0.15	Remainder
5005	0.40	0.7	0.20	0.20	0.50 - 1.1	0.10	0.25	....	0.05	0.15	Remainder
5050	0.40	0.7	0.20	0.10	1.0 - 1.8	0.10	0.25	....	0.05	0.15	Remainder
5052	0.45 Si + Fe		0.10	0.10	2.2 - 2.8	0.15 - 0.35	0.20 (7)	....	0.05	0.15	Remainder
5154	0.45 Si + Fe		0.10	0.10	3.1 - 3.9	0.15 - 0.35	0.20	0.20	0.05	0.15	Remainder
5357	0.12	0.17	0.07	0.15 - 0.45	0.8 - 1.2	....	....	....	0.05	0.15	Remainder
6003 (3)	0.35 - 1.0	0.6	0.10	0.8	0.8 - 1.5	0.35	0.20	0.10	0.05	0.15	Remainder
6061	0.40 - 0.8	0.7	0.15 - 0.40	0.15	0.8 - 1.2	0.15 - 0.35	0.25	0.15	0.05	0.15	Remainder
7072 (4)	0.7 Si + Fe		0.10	0.10	0.10	....	0.8 - 1.3	....	0.05	0.15	Remainder
7075	0.50	0.7	1.2 - 2.0	0.30	2.0 - 2.9	0.18 - 0.40	5.1 - 6.1	0.20	0.05	0.15	Remainder

● Indicates items normally carried in stock.

# ALUMINUM PLATE



THICKNESS	WIDTH	LENGTH	EST. WT. PER PLT.	ALLOY AND TEMPER						
				1100 - F	2024T3	5052H32	5083H113	5086H32	6061T6	3003 F-
1/4	36	96	86.40	●	●				●	●
	48	144	172.80	●	●	●			●	●
	60	144	211.68	●			●	●	●	
	72	144	254.08							
5/16	36	96	106.01	●	●					
	48	144	212.02		●				●	
3/8	36	96	127.00	●	●				●	
	48	144	254.01		●	●	●		●	●
	60	144	317.40				●			
1/2	36	96	169.34	●	●				●	●
	48	144	338.69		●	●	●	●	●	●
5/8	36	96	211.68		●					
	48	144	423.36						●	
3/4	36	96	254.02		●				●	
	48	144	508.03		●				●	
7/8	48	144	592.70							
1	36	96	338.69						●	
	48	144	677.38		●				●	
1-1/4	36	96	423.36							
	48	144	846.72		●				●	
1-1/2	36	96	508.04							
	48	144	1016.16		●				●	
1-3/4	36	96	592.7						●	
	48	144	1208.6		●					
2	48	144	1382.4		●				●	
2-1/2	36	96	846.72							
3	36	96	1015.92							

### SUPER DIAMOND ALUMINUM TREAD PLATE 6061T6

1/8	48	192	121.6
3/16	48	192	179.2
1/4	48	192	236.8
1/4	60	192	296
3/8	48	192	352.6

● Indicates items normally carried in stock.



# ALUMINUM RECTANGULAR BAR

2024T4 - 12 Ft. Lengths  
6061T6 - 12 Ft. Lengths  
6063T5 - 16 Ft. Lengths



THICKNESS	WIDTH	EST. WT. PER FT.	EST. WT. PER BAR.	ALLOY AND TEMPER		
				2024T4	6061T6	6063T5
1/8	1/2	.075	.900			●
	5/8	.094	1.128			●
	3/4	.112	1.344			●
	1	.150	1.800		●	●
	1-1/4	.187	2.24			●
	1-1/2	.225	2.70		●	●
	1-3/4	.260	4.21			●
	2	.300	3.60		●	●
3/16	1/2	.112	1.34			●
	5/8	.140	1.68			●
	3/4	.169	2.03		●	●
	1	.225	2.70	●	●	●
	1-1/4	.281	3.37		●	●
	1-1/2	.337	4.04		●	●
	2	.449	5.39	●	●	●
	2-1/2	.564	9.02			●
1/4	1/2	.156	1.872			●
	5/8	.187	2.24			●
	3/4	.225	2.70	●	●	●
	7/8	.262	3.14			●
	1	.300	3.60	●	●	●
	1-1/4	.374	4.49		●	●
	1-1/2	.449	5.39	●	●	●
	1-3/4	.525	8.40			●
	2	.599	7.19	●	●	●
	2-1/2	.749	8.99	●		●
5/16	1/2	.187	2.24			●
	5/8	.234	2.81			●
	3/4	.281	3.37	●		●
	1	.374	4.49			●
	1-1/2	.562	6.74			●
3/8	1/2	.225	2.70		●	●
	5/8	.281	3.37			●
	3/4	.337	4.04		●	●
	1	.449	5.39		●	●
	1-1/4	.562	6.74		●	●
	1-1/2	.674	8.09		●	●
	1-3/4	.786	9.43			●
	2	.899	10.79		●	●
	2-1/2	1.123	13.48	●		●
	3	1.348	16.18	●	●	●
1/2	5/8	.374	4.49			●
	3/4	.449	5.39	●		●
	7/8	.524	6.29			●
	1	.599	7.19		●	●
	1-1/4	.749	8.99	●		●
	1-1/2	.899	10.79		●	●
	1-3/4	1.048	12.58			●
	2	1.198	14.38	●	●	●

● Indicates items normally carried in stock.



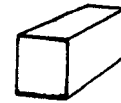
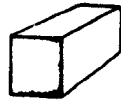
# ALUMINUM RECTANGULAR BAR



THICKNESS	WIDTH	EST. WT. PER FT.	EST. WT. PER FT.	ALLOY AND TEMPER		
				2024T4	6061T6	6063T5
1/2	2-1/2	1.498	17.98		●	●
	3	1.797	21.56		●	●
	4	2.397	28.76	●	●	
	6	3.595	43.14		●	
	8	4.793	57.52			
	10	5.992	71.90			
5/8	3/4	.562	6.74			
	7/8	.656	7.87			
	1	.747	8.96			
	1-1/4	.936	11.23	●		
	1-1/2	1.123	13.48			
	2	1.498	17.98			
3/4	1	.899	10.79		●	
	1-1/2	1.348	16.18		●	●
	2	1.797	21.56			
	2-1/2	2.247	26.96		●	
	3	26.96	32.35	●		
	3-1/2	3.146	37.75		●	
	4	3.594	43.13			
6	5.392	64.70				
1	1-1/4	1.490	17.88			●
	1-1/2	1.797	21.56			
	1-3/4	2.097	25.16	●		●
	2	2.397	28.76		●	
	2-1/2	2.996	35.95		●	
	3	3.595	43.14			
	3-1/2	4.194	50.33			
1-1/4	1-1/2	2.247	26.96		●	
	2	2.996	35.95			
	2-1/2	3.745	44.94			

● Indicates items normally carried in stock.

# ALUMINUM SQUARE BAR



16 Ft. Lengths

SIZE	EST. WT. PER FT.	ALLOY		
		6063T5	2024T4	2017T4
1/2	.300	●		
5/8	.468	●		
3/4	.674	●		
1	1.200	●		●
1-1/4	1.875	●	●	
1-1/2	2.700	●		
2	4.8	●		
2-1/2	7.5		●	

# HEXAGON ALUMINUM ROD



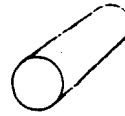
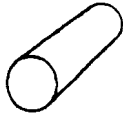
12 Ft. Lengths

SIZE	EST. WT. PER BAR	ALLOY AND TEMPER		
		2011T3	2017T4	2024T4
3/16	.444			
1/4	.780	●		
5/16	1.224			
3/8	1.764		●	●
7/16	2.41			●
1/2	3.14		●	●
9/16	4.00			●
5/8	4.91			●
11/16	5.94			
3/4	7.07		●	●
13/16	8.30	●		
7/8	9.62		●	●
15/16	11.04			
1	12.56		●	●
1-1/16	14.18			
1-1/8	15.90	●		
1-3/16	17.71	●		
1-1/4	19.62			●
1-5/16	21.64			
1-3/8	23.75	●	●	
1-7/16	25.96			
1-1/2	28.26			
1-5/8	33.20			●
1-3/4	38.44		●	●
1-7/8	44.21			●
2	50.30			
2-1/4	63.66			
2-1/2	78.59			
2-3/4	95.10			
3	113.17			

● Indicates items normally carried in stock.

# ROUND ALUMINUM ROD

Specific 12-Foot Lengths



SIZE IN. (NOM.)	EST. WT. PER FT.	2011T3	2017T4	2024T4	6061T6	SIZE IN. (NOM.)	EST. WT. PER FT.	2011T3	2017T4	2024T4	6061T6
						1-5/16	1.660	●	●	●	●
3/32						1-3/8	1.810	●	●	●	●
1/8	.015	●	●	●		1-7/16	2.000	●	●	●	●
5/32	.023	●				1-1/2	2.160	●	●	●	●
11/64	.028					1-9/16	2.340	●	●	●	●
3/16	.034	●	●	●	●	1-5/8	2.530	●	●	●	●
13/64	.038					1-11/16	2.740	●	●		●
7/32	.046	●	●			1-3/4	2.950	●	●	●	●
15/64	.053					1-13/16	3.150	●		●	●
1/4	.060	●	●	●	●	1-7/8	3.370	●	●	●	●
17/64	.068					1-15/16	3.590	●		●	
9/32	.076	●				2	3.840	●	●	●	●
5/16	.094	●	●	●	●	2-1/16	4.043	●			
11/32	.113	●	●	●		2-1/8	4.340	●	●	●	●
3/8	.135	●	●	●	●	2-3/16	4.548		●		
13/32	.159	●				2-1/4	4.811	●	●	●	●
7/16	.184	●	●	●		2-5/16	5.082	●			
15/32	.210	●				2-3/8	5.361	●	●	●	
1/2	.240	●	●	●	●	2-7/16	5.647	●	●		
17/32	.271	●	●			2-1/2	5.940	●	●	●	●
9/16	.305	●	●	●	●	2-9/16	6.240				
19/32	.338	●				2-5/8	6.549	●	●	●	●
5/8	.375	●	●	●	●	2-3/4	7.187	●	●	●	●
21/32	.414	●				2-7/8	7.855	●		●	●
43/64	.417					3	8.553	●		●	●
11/16	.454	●	●	●	●	3-1/8	9.281	●		●	
23/32	.496	●				3-1/4	10.038	●		●	●
3/4	.540	●	●	●	●	3-3/8	10.825			●	
25/32	.586	●	●			3-1/2	11.642			●	●
13/16	.633	●	●	●	●	3-3/4	13.365			●	●
7/8	.735	●	●	●	●	4	15.206			●	●
15/16	.845	●	●	●	●	4-1/4	17.166			●	
1	.960	●	●	●	●	4-1/2	19.245			●	
1-1/16	1.080	●	●	●	●	4-3/4	21.443			●	
1-1/8	1.220	●	●	●	●	5	23.759			●	
1-3/16	1.350	●	●	●	●						
1-1/4	1.490	●	●	●	●						

● Indicates items normally carried in stock.

# ALUMINUM STRUCTURALS

25 Ft. Lengths  
EQUAL ANGLE

SIZE	WT. PER FT.	6061T6	SIZE	WT. PER FT.	6061T6	SIZE	WT. PER FT.	6061T6
3/4 x 3/4 x 1/8	.201	●	1-3/4 x 1-3/4 x 1/8	.497		3 x 3 x 3/16	1.275	●
1 x 1 x 1/8	.275	●	3/16	.731		1/4	1.684	●
3/16	.400	●	1/4	.956	●	5/16	2.082	●
1/4	.514	●	2 x 2 x 1/8	.577	●	3/8	2.474	●
1-1/4 x 1-1/4 x 1/8	.343	●	3/16	.850	●	1/2	3.227	
3/16	.510	●	1/4	1.110	●	3-1/2 x 3-1/2 x 1/4	1.989	
1/4	.656	●	5/16	1.364		5/16	2.450	●
1-1/2 x 1-1/2 x 1/8	.423	●	3/8	1.606	●	1/2	3.826	
3/16	.619	●	2-1/2 x 2-1/2 x 1/8	.724		4 x 4 x 1/4	2.283	●
1/4	.809	●	3/16	1.020	●	5/16	2.820	●
			1/4	1.404	●	3/8	3.366	●
			3/8	2.047				
			5/16	1.73	●			

## UNEQUAL ANGLE

SIZE	WT. PER FT.	6061T6	SIZE	WT. PER FT.	6061T6	SIZE	WT. PER FT.	6061T6
1-1/2 x 1-1/4 x 1/8	.387	●	2 x 1-1/2 x 1/8	.496	●	3 x 2 x 3/16	1.071	●
3/16	.566		3/16	.731	●	1/4	1.403	●
1/4	.740	●	1/4	.956	●	3/8	2.046	●
1-3/4 x 1-1/4 x 1/8	.421	●	2-1/2 x 2 x 1/8	.652		3 x 2-1/2 x 1/4	1.537	●
3/16	.621	●	3/16	.961	●	3-1/2 x 2-1/2 x 1/4	1.684	●
1/4	.809	●	1/4	1.257	●	4 x 3 x 1/4	1.988	●
						3/8	2.926	●

# ALUMINUM ARCHITECTURALS

16 Ft. Lengths EQUAL ANGLE

SIZE	WT. PER FT.	6063T5	SIZE	WT. PER FT.	6063T5	SIZE	WT. PER FT.	6063T5
1/2 x 1/2 x 1/16	.069	●	1 x 1 x 1/16	.144		1-1/2 x 1-1/2 x 1/8	.431	●
1/8	.131	●	1/8	.281	●	3/16	.632	●
5/8 x 5/8 x 1/8	.169	●	3/16	.408	●	1-3/4 x 1-3/4 x 1/8	.506	●
3/4 x 3/4 x 1/16	.109	●	1-1/4 x 1-1/4 x 1/8	.355	●	2 x 2 x 1/8	.581	●
1/8	.206	●	3/16	.521	●	3/16	.858	●
						1/4	1.124	●

## UNEQUAL ANGLE

SIZE	WT. PER FT.	6063T5	SIZE	WT. PER FT.	6063T5	SIZE	WT. PER FT.	6063T5
3/4 x 3/8 x 3/32	.116	●	1 x 3/4 x 1/8	.244		1-1/2 x 3/4 x 1/8	.319	
1 x 1/2 x 3/32	.161		1-1/4 x 1/2 x 1/8	.244	●	1-1/2 x 1 x 1/8	.356	●
1/8	.206	●	1-1/4 x 3/4 x 1/8	.277		2 x 1 x 1/8	.431	●
						3-1/2 x 1-1/4 x 1/8	.694	

ALLOY	GENERAL CHARACTERISTICS	TYPICAL USES AND APPLICATIONS
6061-T6	Good strength and workability, high resistance to corrosion.	Truck bodies, furniture, scaffolding, towers, fire ladders, moldings.
6063-T5	High resistance to corrosion, pleasing appearance, adequate strength, low cost. Good finishing characteristics.	Windows, store fronts, awning supports, architectural trim.

● Indicates items normally carried in stock.

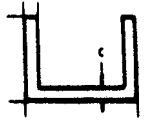
# ALUMINUM STRUCTURALS

## 25 Ft. Lengths CHANNEL

SIZE	EST. WT. PER FT.	ALLOY 6061T6	SIZE	EST. WT. PER FT.	ALLOY 6061T6
3 x .170 x 1.410	1.42	●	6 x .225 x 1.945	3.00	●
.258 x 1.498	1.73	●	.314 x 2.034	3.62	●
.356 x 1.596	2.07	●	.437 x 2.157	4.49	●
4 x .180 x 1.580	1.84	●	7 x .230 x 2.11	3.53	●
.247 x 1.647	2.15	●	8 x .250 x 2.29	4.25	●
.320 x 1.720	2.50	●	.487 x 2.527	6.47	●
5 x .190 x 1.75	2.31	●			
.325 x 1.885	3.1	●			
.472 x 2.032	3.97	●			

## CHANNEL - 16 Ft. Lengths

SIZE	EST. WT. PER FT.	ALLOY 6063T5	SIZE	EST. WT. PER FT.	ALLOY 6063T5
1/2 x 1/2 x 3/32	.148	●	1-1/2 x 1/2 x 1/8*	.337	●
1/2 x 3/4 x 1/8	.263	●	1-3/4 x 1/2 x 1/8	.374	●
5/8 x 5/8 x 1/8	.244	●	1-3/4 x 3/4 x 1/8	.441	●
3/4 x 3/8 x 1/8	.187	●	1-3/4 x 1 x 1/8	.524	●
3/4 x 3/4 x 1/8	.300	●	2 x 1/2 x 1/8	.413	●
1 x 1/2 x 1/8*	.263	●	2 x 1 x 1/8*	.564	●
1 x 1 x 1/8	.413	●	2-1/4 x 7/8 x 1/8	.563	●
1-1/4 x 1/2 x 1/8*	.300	●	2-1/2 x 1-1/2 x 1/8	.787	●
1-1/4 x 1-1/4 x 1/8	.526	●	3 x 1 x 1/8	.713	●

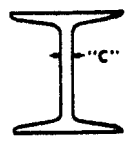


\*20 Ft. Lengths

# ALUMINUM STRUCTURALS

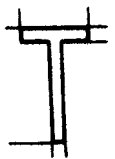
## 25 Ft. Lengths BEAM

SIZE	ALLOY		SIZE	ALLOY	
	EST. WT. PER FT.	6061T6		EST. WT. PER FT.	6061T6
3 x .170 x 2.33	1.96	●	5 x .210 x 3	3.42	●
.349 x 2.509	2.59	●	.494 x 3.284	5.09	●
4 x .190 x 2.64	2.64	●	6 x .230 x 3.330	.43	●
.313 x 4	4.7	●	.343 x 3.443	5.09	●
.326 x 2.796	3.28	●			



## TEE - 22 Ft. Lengths

SIZE	ALLOY		SIZE	ALLOY	
	EST. WT. PER FT.	6061T6		EST. WT. PER FT.	6061T6
1 x 1 x 1/8	.310	●	1-1/2 x 1-1/2 x 3/16	.680	●
1-1/2 x 1-1/4 x 1/8	.440	●	1/4	.870	●
3/16	.620	●	2 x 2 x 1/4*	1.29	●



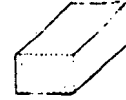
## CHEMICALLY EQUIVALENT SPECIFICATIONS

\*25 Ft. Lengths

ALLOY	S. A. E.	A. S. T. M.	A. M. S.	FEDERAL
6063-T5	AA-6063 (Formerly 212)	B221 - Alloy GS10A	4156C	QQ-A-274 - QQ-A-200/9a
6061-T6 Rolled	AA-6061 (Formerly 281)	B308 - Alloy GS11A	4117	QQ-A-325 - QQ-A-225/8a
6061-T6 Extruded	AA-6061 (Formerly 281)	B308 - Alloy GS11A	4150C	QQ-A-270 - QQ-A-200/8a

● Indicates items normally carried in stock.

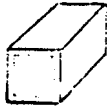
# 6063-T5 RECTANGULAR EXTRUDED ALUMINUM TUBING



Standard 21-Ft. 1-In. Lengths,  
.125-In. Wall Thickness

Dimensions In Inches		APPROXIMATE WEIGHT		
Depth	Width	Pounds Per Foot	Pounds Per Length	
1/2	1	.383	8.46	
3/4	1-1/2	.604	13.9	●
1	1-1/2	.677	14.2	●
1	2	.824	17.4	
1-1/4	2-1/2	1.05	22.0	●
1-1/2	2	.971	20.5	●
1-3/4	3	1.34	28.5	●
1-3/4	3-1/2	1.49	31.3	●
1-3/4	4	1.63	34.8	●
1-3/4	4-1/2	1.78	37.1	●
1-3/4	5	1.93	41.1	●
2	3	1.41	30.1	●
2	5	2.00	42.5	●

# 6063-T5 SQUARE EXTRUDED ALUMINUM TUBING



Standard 21-Ft. 1-In. Lengths,  
.125-In. Wall Thickness

Dimensions In Inches		APPROXIMATE WEIGHT		
Depth	Width	Pounds Per Foot	Pounds Per Length	
3/4	3/4	.376	7.93	●
1	1	.526	11.2	●
1-1/4	1-1/4	.675	14.2	●
1-1/2	1-1/2	.825	17.3	●
1-3/4	1-3/4	.974	20.5	●
2	2	1.13	23.7	●

● Indicates items normally carried in stock.

  
**NAPCO**

**STEEL, INC.**

**EXPANDED  
METAL & GRATING**

**EXPANDED STEEL FLATTENED**  
**Carbon (MIL-M-17194 Type II Class 1) and**  
**Stainless Steel Type 304\*\***

Style Designation*	Width in Inches	Length in Inches	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening in Inches	
				SWO	LWO
1/4 x 20-22 Ga.	36, 48	96	.82	.110 x	.715
1/4 x 18-20 Ga.	36, 48	96	1.08	.118 x	.715
1/2 x 20-22 Ga.	36, 48	96	.40	.375 x	1.000
1/2 x 40 (18 Ga.)	48	96	.38	.380 x	1.000
1/2 x 18-20 Ga.	36, 48**	96	.66	.312 x	1.000
	48	120	.66	.312 x	1.000
1/2 x 16-18 Ga.	36**, 48**	96	.82	.312 x	1.000
	60	144	.82	.312 x	1.000
1/2 x 13-15 Ga.	36, 48**	96	1.40	.265 x	1.000
3/4 x 18-20 Ga.	48†	96	.46	.750 x	1.812
3/4 x 16-18 Ga.	36**, 48**	96	.51	.750 x	1.750
	48	120	.51	.750 x	1.750
3/4 x 14-16 Ga.	36, 48	96	.63	.688 x	1.813
	48	120	.63	.688 x	1.813
3/4 x 13-15 Ga.	36, 48**	96	.75	.688 x	1.781
3/4 x 9(10-11 Ga.)	36, 48**	96	1.71	.563 x	1.688
1 1/2 x 16-18 Ga.	36, 48	96	.38	1.062 x	2.750
1 1/2 x 14-16 Ga.	48	96	.46	1.062 x	2.750
1 1/2 x 13-15 Ga.	36, 48**	96	.57	1.062 x	2.750
1 1/2 x 9(10-11 Ga.)	36, 48**	96	1.14	1.000 x	2.563
	48	120	1.14	1.000 x	2.563

\*The first number represents the nominal width of diamond in inches measured from center to center of bonds; the second number represents the approximate original gage before expanding, and the third number represents the approximate gage thickness after flattening.

Sheets of special size can be furnished.

\*\*Also available in Stainless Steel. Weights will be slightly higher.

†Stainless Steel only.

**EXPANDED ALUMINUM NOT FLATTENED**  
**5005-H34**

Style Designation	Width in Inches	Length in Inches	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening in Inches	
				SWO	LWO
1/2 — .051	36, 48	96	.27	.375 x	.937
1/2 — .081	36, 48	96	.44	.375 x	.937
3/4 — .051	48	96	.17	.812 x	1.75
3/4 — .081 Heavy	48	96	.41	.750 x	1.68
3/4 — .125	48	96	.65	.687 x	1.68
1 1/2 — .125	48	96	.43	1.187 x	2.50

**EXPANDED ALUMINUM FLATTENED**  
**5005-H34**

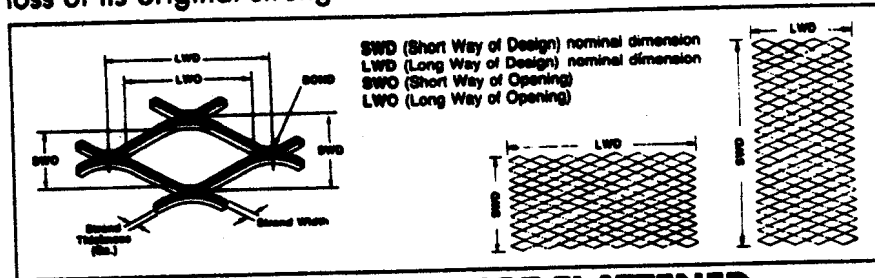
Style Designation	Width in Inches	Length in Inches	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening in Inches	
				SWO	LWO
1/2 — .051	36, 48	96	.26	.312 x	1.00
1/2 — .081	48	96	.42	.312 x	1.00
3/4 — .051	48	96	.16	.750 x	1.81
3/4 — .081 Light	48	96	.30	.687 x	1.75
3/4 — .081 Heavy	48	96	.39	.687 x	1.75
3/4 — .125	48	96	.62	.625 x	1.75
1 1/2 — .081	48	96	.21	1.062 x	2.75



## EXPANDED METAL

Expanded Metal may be used for many industrial purposes such as open partitions, window guards, machine guards, and other manufacturing and maintenance uses.

It is more rigid than an equal weight of solid steel plate or wire mesh. In fabricating it may be cut to any desired shape without loss of its original strength.



### EXPANDED STEEL NOT FLATTENED Carbon (MIL-M-17194 Type I Class 1) and Stainless Steels\*\*

Style Designation*	Width in Inches	Length in Inches	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening in Inches	
				SWO	LWO
$\frac{1}{4}$ x 20 Ga.	36, 48	96	.86	.140	x .718
$\frac{1}{4}$ x 18 Ga.	48	96	1.14	.145	x .718
$\frac{1}{2}$ x 20 Ga.	48	96	.43	.438	x .938
$\frac{1}{2}$ x 18 Ga.	36, 48, 72	96	.70	.438	x .938
$\frac{1}{2}$ x 16 Ga.	48, 72	96	.86	.375	x .938
$\frac{1}{2}$ x 13 Ga.	48, 72	96	1.47	.312	x .938
$\frac{3}{4}$ x 16 Ga.	48, 72	96	.54	.813	x 1.750
$\frac{3}{4}$ x 13 Ga.	48, 72	96	.80	.750	x 1.688
	48	120	.80	.750	x 1.688
$\frac{3}{4}$ x 10 (13 Ga.)	48	96	1.20	.750	x 1.625
$\frac{3}{4}$ x 9 (10 Ga.)	48, 72	96	1.80	.688	x 1.562
	48	120	1.80	.688	x 1.562
$1\frac{1}{2}$ x 16 Ga.	48	96	.40	1.250	x 2.625
$1\frac{1}{2}$ x 13 Ga.	48, 72	96	.60	1.188	x 2.500
	72	120	.60	1.188	x 2.500
$1\frac{1}{2}$ x 10 (13 Ga.)	48, 72	96	.79	1.188	x 2.500
$1\frac{1}{2}$ x 9 (10 Ga.)	72	96	1.20	1.125	x 2.375
	48, 72	120	1.20	1.125	x 2.375
<b>2 x 9 (10 Ga.)</b>	48	96	.90	1.563	x 3.375

\*The first number represents the nominal width of diamond in inches measured from center to center of bonds, and the second number represents the approximate gage of sheet or plate before expanding. Sheets of special size can be furnished.

\*\*Stainless Steel weights are slightly higher.

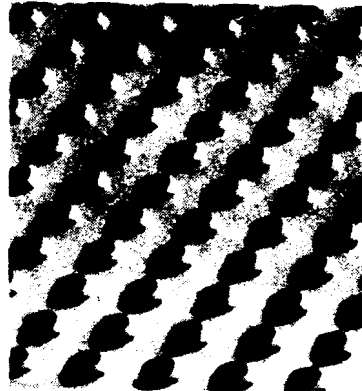
### EXPANDED STEEL GRATING Not Flattened

Style Designation	Width in Inches	Length in Inches	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening in Inches	
<b>3.0 Lb. Grating</b>	72	120	3.00	$1\frac{5}{16}$	x $3\frac{7}{16}$
<b>3.14 Lb. Grating</b>	48	120	3.14	$1\frac{5}{8}$	x $4\frac{7}{8}$
<b>4.0 Lb. Grating</b>	48, 60, 72	96	4.00	$1\frac{5}{16}$	x $3\frac{7}{16}$
<b>4.27 Lb. Grating</b>	48, 72	96	4.27	1	x $2\frac{7}{8}$
<b>6.25 Lb. Grating</b>	48, 72	96	6.25	$1\frac{3}{16}$	x $3\frac{3}{8}$

**MORTON STEEL  
SAFETY PRODUCTS  
TREAD-GRIP®**

**Hot Rolled Pickled and Oiled**

A permanent, non-skid surface for positive gripping action on steps and walkways. Made of mild steel.



**GRATING  
EXP. METAL**

Size in Inches	Lbs. Sq. Ft.	Est. Lbs. Per Sht.
<b>16 Ga. x 36 x 120</b>	2.403	72.1
<b>13 Ga. x 36 x 120</b>	3.607	108.2
<b>11 Ga. x 36 x 120</b>	4.810	144.3

Also available in aluminum.

**TREAD-GRIP® LADDER RUNGS**

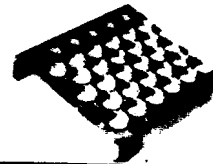
**Hot Rolled  
Pickled and Oiled**



Size in Inches	Type	Est. Lbs. Per Rung
<b>13 Ga. x 1 5/8 x 48 3/4</b>	3 Row	4.0
<b>13 Ga. x 2 1/4 x 48 3/4</b>	4 Row	6.3

**OPEN-GRIP® GRATING**

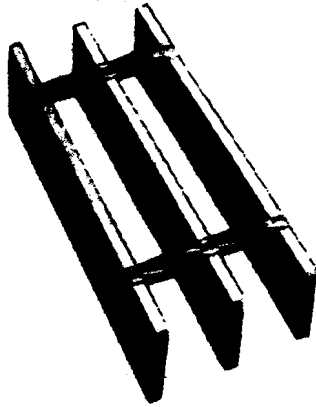
**Pre-Galvanized Channels**



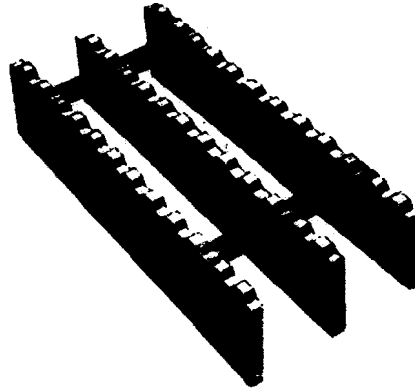
Size in Inches			Est. Lbs. Per Channel
Thickness and Width	Height	Length	
<b>13 Ga. x 5</b>	<b>1 1/2</b>	<b>120</b>	25.6
<b>13 Ga. x 5</b>	<b>2</b>	<b>120</b>	28.7
<b>13 Ga. x 7</b>	<b>1 1/2</b>	<b>120</b>	32.5
<b>13 Ga. x 7</b>	<b>1 1/2</b>	<b>144</b>	39.0
<b>13 Ga. x 7</b>	<b>2</b>	<b>120</b>	32.5
<b>13 Ga. x 7</b>	<b>2</b>	<b>144</b>	39.0
<b>13 Ga. x 10</b>	<b>1 1/2</b>	<b>120</b>	40.2
<b>13 Ga. x 10</b>	<b>1 1/2</b>	<b>144</b>	48.2
<b>13 Ga. x 10</b>	<b>2</b>	<b>120</b>	40.2
<b>13 Ga. x 10</b>	<b>2</b>	<b>144</b>	48.2
<b>13 Ga. x 12</b>	<b>1 1/2</b>	<b>120</b>	44.0
<b>13 Ga. x 12</b>	<b>1 1/2</b>	<b>144</b>	52.8
<b>13 Ga. x 12</b>	<b>2</b>	<b>120</b>	44.0
<b>13 Ga. x 12</b>	<b>2</b>	<b>144</b>	52.8
<b>13 Ga. x 18</b>	<b>1 1/2</b>	<b>120</b>	56.3
<b>13 Ga. x 18</b>	<b>1 1/2</b>	<b>144</b>	67.6
<b>13 Ga. x 18</b>	<b>2</b>	<b>120</b>	56.3
<b>13 Ga. x 18</b>	<b>2</b>	<b>144</b>	67.6

# OPEN STEEL FLOOR GRATING

Conforms to Specification RR-G-661c



Smooth-surface grating



Serrated-surface safety grating

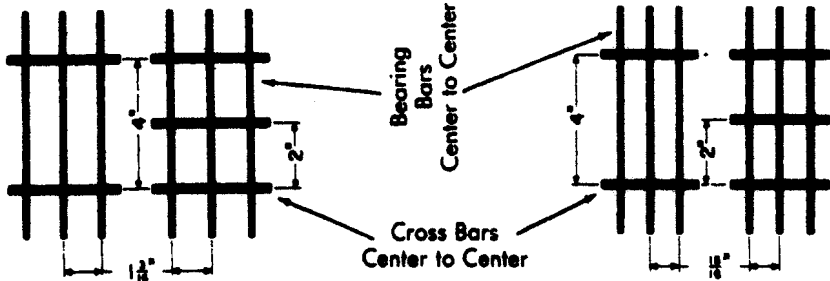
Grating available in Carbon Steel, Aluminum, Stainless, & Fibregla

## STANDARD MESH TYPES

TYPE 19W4 TYPE 19W2

## CLOSE MESH TYPES

TYPE 15W4 TYPE 15W2



### Lbs. Per Sq. Ft.

Bearing Bars	Type 19W4	Type 19W2	Type 15W4	Type 15W2
3/4 x 1/8	4.0	4.6	4.8	5.5
3/4 x 3/16	5.6	6.3	6.9	7.5
1 x 1/8	5.1	5.7	6.2	6.9
1 x 3/16	7.3	8.0	9.0	9.6
1 1/4 x 1/8	6.1	6.8	7.5	8.2
1 1/4 x 3/16	8.9	9.6	11.1	11.7
1 1/2 x 1/8	7.3	7.9	9.0	9.6
1 1/2 x 3/16	10.6	11.2	13.1	13.8
1 3/4 x 3/16	12.2	12.9	15.2	15.8
2 x 3/16	13.9	14.5	17.3	17.9
2 1/4 x 3/16	15.4	16.1	19.2	19.9
2 1/2 x 3/16	17.1	17.7	21.3	22.0

### Stock Sizes

Panel Width in Inches	Panel Length in Inches
24, 36	240, 288

Other bearing bar sizes and spacings are available.  
All grating can be cut to your specifications.

### When ordering GRATING, specify:

- Type of GRATING
- Size of BEARING BARS (Depth & Width)
- Span (direction of bearing bars)
- Dimensions of area
- Unpainted, Painted or Galvanized, Smooth or Serrated

### When ordering STAIR TREADS, also specify:

- Width & Length
- Type of Nosing (Checker Plate or Cast Iron Abrasive)
- Punching in side plates or standardized dimensions may be altered to suit special conditions

# GRIP STRUT®—SAFETY GRATING

## DESCRIPTION:

Accident prevention. Uninterrupted work schedules. Greater security for workers. These are a few of the many important ways GRIP STRUT® Safety grating pays off. That's because GRIP STRUT® is designed for safety—it provides superior slip-resistance longitudinally, transversely, diagonally—all directions! In fact, GRIP STRUT® Safety Grating equals or exceeds the slip resistance standards as established by Federal Specifications RR-G- 1602A.

**SAFETY:** Check All Of The Important Benefits Of GRIP STRUT® Safety Grating!

- One-piece construction for great strength and durability
- Open design-drains fluid, mud, chips, debris
- Easy to clean with bristle brush, water or air spray
- Resilient surface cushions feet, cuts fatigue
- Available in carbon steel, stainless steel and aluminum
- Takes paint, hot dip galvanizing and other finishes—all surfaces accessible
- Fabricates with standard fabrication tools and methods
- Easy installation—welding, bolting or mechanical fasteners

STANDARD LENGTH (Nominal) 10' and 12'.

- MATERIALS: A) STEEL: Pregalvanized A.S.T.M. A-525  
 B) ALUMINUM: Type 5052-H32 Mill finish  
 C) STAINLESS STEEL: Type 304 2D finish—316L.  
 D) BLACK STEEL: Unpainted

OPEN AREA: 37-47%; over 52% open area in rectilinear tread surface.

SPECIAL ORDERS: Steel 7' to 14' special lengths; non-serrated; flat (no channel); unpainted, lightly oiled.

For more complete data ask for a GRIP STRUT® catalog.

Weight Per Lineal Foot							
Material	Channel	Diamond / Width					
		2/4"	3/7"	4/9½"	5/11¾"	8/18¾"	10/24"
Steel 14 Gauge	1½"	2.3	3.0	3.6	4.2	6.1	
	2"	2.6	3.2	3.8	4.4	6.3	7.4
	2½"	2.8	3.5	4.1	4.7	6.6	7.9
Steel 12 Gauge	1½"	3.2	4.1	5.0	5.9	8.5	
	2"	3.6	4.5	5.4	6.2	8.9	10.4
	2½"	4.0	4.9	5.7	6.6	9.2	
	3"		5.2	6.1	7.0	9.6	11.1
Stainless 16 Gauge	2"			3.2	3.7		
Aluminum .080"	2"	.9	1.2	1.4	1.6		
Aluminum .100"	2"	1.2	1.5	1.7	2.0	2.8	

Weights indicated are ± 10%

GRIP STRUT® Safety Grating is manufactured under Patent numbers 2828843 and 2828792.

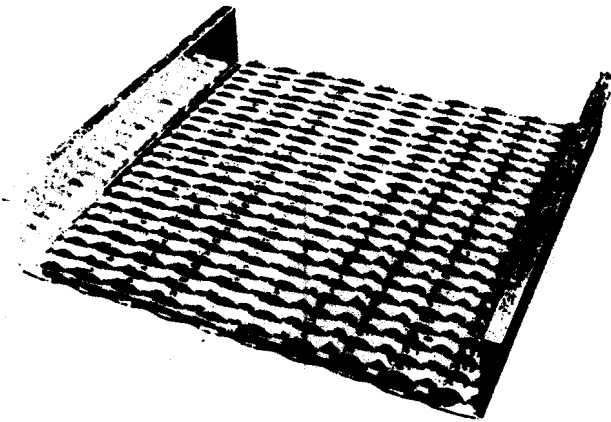
# GRIP STRUT®—SAFETY GRATING

## PRODUCT DETAILS:

Unique engineered design of GRIP STRUT® Safety Grating is shown in cross section. Vertical struts are structurally bridged together for exceptionally efficient load-carrying capacity.



## GRIP STRUT® SAFETY GRATING WALKWAY

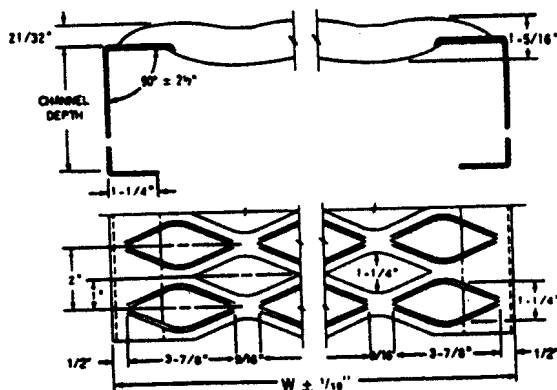


**SAFETY  
GRATING  
WITH INTEGRAL  
Z-FLANGE  
MEETS O.S.H.A.  
REQUIREMENT  
FOR TOE BOARDS  
ON  
ELEVATED  
RUNWAYS**

GRIP STRUT® Safety grating is now available in a 10-diamond, 24-in. width with flanges bent upward to form integrally attached toeboards. These 4½-in. high flanges help prevent tools and parts from falling over the edges and make the grating ideal for conveyor, walkways and other elevated catwalks.

Weight Per Lineal Foot			
14 Gauge	8.9	12 Gauge	12.5

# HEAVY DUTY GRIP STRUT®



## DESCRIPTION:

Here's a dramatic new safety grating product which features the slip resistant reliability and rugged durability of regular GRIP STRUT® Safety Grating. Made stronger to span longer and thicker to assure longer service life in corrosive applications.

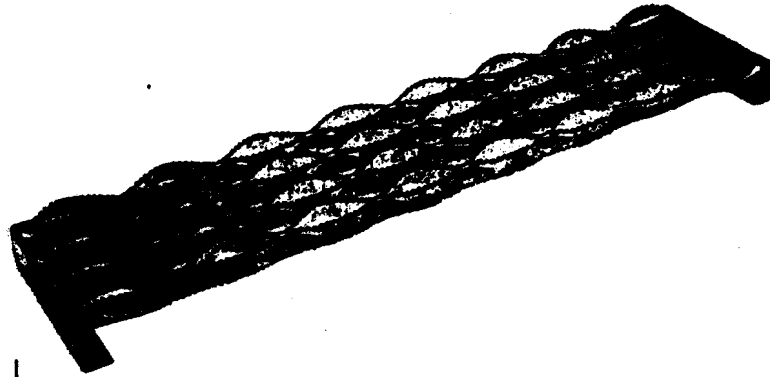
**SAFETY:** Highly slip resistant serrated surface scrapes slip-inducing debris from soles. Open reticulated surface allows passage of slip-inducing liquids, and even any ice buildup which may occur shears free under foot pressure.

- **Longer Service Life:** Now in 10 gauge to provide longer service life in all installations where heavy-duty performance and corrosion resistance is required.
- **Longer Spans:** Made stronger to span longer. Rugged durability handles heavier loads and minimizes deflection.
- **Economical:** Low initial cost plus freedom from further finishing or re-finishing means minimum life-cycle cost. Long spans mean fewer supports and lower installation costs.
- **Quick Installation:** One-piece integral channel design is easily handled, quickly cut-to-length, welded or bolted to supports.
- **Standard Lengths:** 10' and 12', special lengths upon request.
- **Standard Finish:** Hot dip G-90 mill galvanized; black, unpainted, lightly oiled.

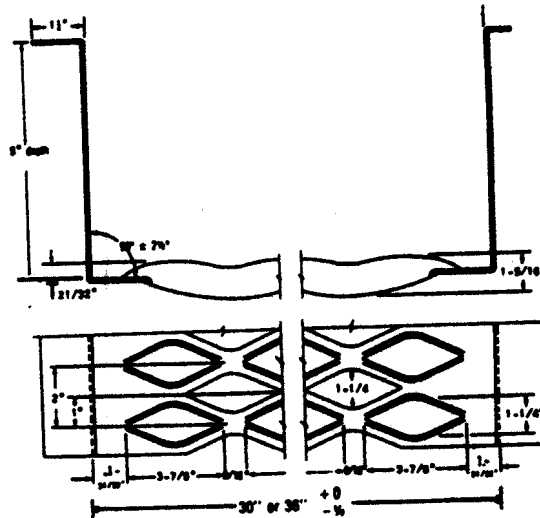
## Weight Per Linear Foot

Material	Channel	Diamond / Width		
		2/9¼"	3/13¼"	8/36"
10 Gauge Plank	2	7.4	9.5	19.9
	2½	7.9	10.0	20.4
	3	8.4	10.5	20.9
	4	9.3	11.4	21.8

# HEAVY DUTY GRIP STRUT®



## HEAVY DUTY GRIP STRUT® WALKWAY



Weight Per Linear Foot			
10 Gauge Walkway	Channel	Diamond / Width	
		6/30"	8/36"
	5"	19.9	22.7



**STEEL, INC.**

**TUBING & PIPE**



# STEEL TUBING SQUARE WELDED



Produced to O.D. and Wall  
Low Carbon Mechanical  
ASTM A 513 Flash In  
Stock Lengths 20 Ft. Random

Size & Ga.	Wall	I.D.	Lbs. per Ft.	Size & Ga.	Wall	I.D.	Lbs. per Ft.
<b>3/8 x 3/8</b>				<b>1 1/4 x 1 1/4</b>			
20	.035	.305	.1618	18	.049	1.152	.8003
16	.065	.245	.2740	16	.065	1.120	1.048
<b>1/2 x 1/2</b>				14	.083	1.084	1.317
20	.035	.430	.2213	13	.095	1.060	1.492
18	.049	.402	.3005	12	.109	1.032	1.691
16	.065	.370	.3845	11	.120	1.010	1.844
<b>5/8 x 5/8</b>				<b>1 7/16 x 1 7/16</b>			
20	.035	.555	.2808	8*	.165	1.108	2.860
18	.049	.527	.3838	<b>1 1/2 x 1 1/2</b>			
16	.065	.495	.4950	18	.049	1.402	.9669
<b>3/4 x 3/4</b>				16	.065	1.370	1.269
20	.035	.680	.3403	14**	.083	1.334	1.600
18	.049	.652	.4671	13	.095	1.310	1.815
16	.065	.620	.6055	12	.109	1.282	2.062
14	.083	.584	.7529	11	.120	1.260	2.252
11	.120	.510	1.028	<b>1 3/4 x 1 3/4</b>			
<b>7/8 x 7/8</b>				16	.065	1.620	1.490
18	.049	.777	.5504	14	.083	1.584	1.882
16	.065	.745	.7160	11	.120	1.510	2.660
14	.083	.709	.8940	<b>2 x 2</b>			
<b>1 x 1</b>				18	.049	1.902	1.300
20	.035	.930	.4593	16	.065	1.870	1.711
18†	.049	.902	.6337	14	.083	1.834	2.164
16	.065	.870	.8265	13	.095	1.810	2.461
14	.083	.834	1.035	11	.120	1.760	3.068
12	.109	.782	1.321	<b>2 1/4 x 2 1/4</b>			
11	.120	.760	1.436	16	.065	2.120	1.932
<b>1 1/8 x 1 1/8</b>				<b>2 1/2 x 2 1/2</b>			
18	.049	1.027	.7170	16**	.065	2.370	2.153
16	.065	.995	.9370	14	.083	2.334	2.728
<b>1 1/4 x 1 1/4</b>				12	.109	2.282	3.544
<b>1 1/2 x 1 1/2</b>				<b>3 x 3</b>			
<b>1 3/4 x 1 3/4</b>				14	.083	2.834	3.293



## STEEL TUBING SQUARE STRUCTURAL WELDED

ASTM A 500 Gr. B  
Stock Lengths 20 and 40 Ft. Random  
Identification Color: Green

Size in Inches	Wall	Lbs. per Ft.	Size in Inches	Wall	Lbs. per Ft.
3/4 x 3/4	x .125	1.03	5 x 5	x .188	11.97
1 x 1	x .073	.91		x .250	15.62
	x .095	1.17		x .313	19.08
	x .125	1.44		x .375	22.37
1 1/4 x 1 1/4	x .135	2.03	6 x 6	x .500	28.43
	x .188†	2.40		x .188	14.53
1 1/2 x 1 1/2	x .148	2.57		x .250	19.02
	x .188	3.04	x .313	23.34	
	x .250†	3.70	x .375	27.48	
2 x 2	x .125*	3.05		x .500	35.24
	x .148	3.54	7 x 7	x .188	17.08
	x .188	4.32		x .250	22.42
	x .250	5.41		x .313	27.59
2 1/2 x 2 1/2	x .125	3.90		x .375	32.58
	x .188	5.59		x .500	42.05
	x .250	7.11	8 x 8	x .188	19.63
3 x 3	x .125	4.75		x .250	25.82
	x .188	6.87		x .313	31.84
	x .250	8.81		x .375	37.69
	x .313	10.58		x .500	48.85
3 1/2 x 3 1/2	x .125	5.61	10 x 10	x .250	32.63
	x .188	8.15		x .313	40.35
	x .250	10.51		x .375	47.90
	x .313	12.70		x .500	62.46
4 x 4	x .125	6.46	12 x 12	x .250	39.43
	x .188	9.42		x .313	48.86
	x .250	12.21		x .375	58.10
	x .313	14.83		x .500	76.07
	x .375	17.27	14 x 14	x .500	89.68
	x .500	21.63			

\*Also 24'

†ASTM A 618 Gr. 3 21 Ft. Lengths—Ends Blue



## STEEL TUBING RECTANGULAR WELDED

Low Carbon Mechanical  
ASTM A 513 Flash In  
Stock Lengths 20 Ft. Random  
Identification Color: Lavender

Size in Inches	Wall		Lbs. per Ft.	Size in Inches	Wall		Lbs. per Ft.
	Ga.	Dec.			Ga.	Dec.	
1 1/2 x 3/4	x 14	.083	1.176	2 1/2 x 1 1/2	x 14	.083	2.164
1 1/2 x 1	x 16	.065	1.048		x 11	.120	3.068
	x 14	.083	1.317	3 x 1	x 14	.083	2.164
	x 11*	.120	1.844		x 11	.120	3.068
2 x 1	x 16	.065	1.269	3 x 1 1/2	x 14	.083	2.446
	x 14	.083	1.600		x 12	.109	3.174
	x 11	.120	2.252		x 11	.120	3.476
2 x 1 1/4	x 14	.083	1.741	3 x 2	x 14	.083	2.728
2 x 1 1/2	x 14	.083	1.882		x 11	.120	3.884
	x 11	.120	2.660	3 1/2 x 2	x 7**	.180	6.290
2 1/2 x 1	x 14	.083	1.882		4 x 2	x 14	.083
2 1/2 x 1 1/4	x 14	.083	2.023	x 11		.120	4.700

\*Also 24' \*\*151'

# STEEL TUBING RECTANGULAR STRUCTURAL WELDED

ASTM A 500 Gr. B  
Stock Lengths 20 and 40 Ft. Random  
Identification Color: Green



Size in Inches	Wall	Lbs. per Ft.	Size in Inches	Wall	Lbs. per Ft.
2½ x 1½	x .188	4.32	7 x 5	x .313	23.34
	x .250	5.41		x .375	27.48
3 x 1½	x .125	3.48	8 x 2	x .188	11.97
	x .188	4.97		x .250	15.62
3 x 2	x .125	3.90	8 x 3	x .188	13.25
	x .188	5.59		x .250	17.32
	x .250	7.11		x .375	24.93
	x .313	8.44		8 x 4	x .188
3½ x 2½	x .188	6.87	x .250		19.02
	x .125	4.75	x .313		23.34
	x .188	6.87	x .375		27.48
	x .250	8.81	x .500	35.24	
4 x 2½	x .125	5.11	8 x 6	x .188	17.08
	x .188	6.87		x .250	22.42
	x .250	8.81		x .313	27.59
	x .313	10.58		x .375	32.58
4 x 3	x .125	5.61	10 x 2	x .188	14.53
	x .188	8.15		x .250	19.02
	x .250	10.51		x .250	20.72
	x .313	12.70		x .188	17.08
5 x 2	x .188	8.15	10 x 3	x .250	22.42
	x .250	10.51		x .313	27.59
	x .125	5.92		x .375	32.58
	x .188	8.88		x .500	42.05
5 x 2½	x .125	5.92	10 x 4	x .188	17.08
	x .188	8.88		x .250	22.42
	x .250	10.51		x .313	27.59
	x .313	12.70		x .375	32.58
5 x 3	x .188	9.42	10 x 6	x .500	42.05
	x .250	12.21		x .250	25.82
	x .313	14.83		x .313	31.84
	x .375	17.27		x .375	37.69
6 x 2	x .500	21.63	10 x 8	x .500	48.85
	x .188	9.42		x .250	29.23
	x .250	12.21		x .375	42.79
	x .188	10.70		x .500	55.66
6 x 3	x .250	13.91	12 x 2	x .188	17.08
	x .313	16.96		x .250	25.82
	x .375	19.82		x .375	37.69
	x .500	28.43		x .500	55.66
6 x 4	x .188*	11.97	12 x 4	x .250	29.23
	x .250	15.62		x .375	42.79
	x .313	19.08		x .375	42.79
	x .375	22.37		x .500	55.66
7 x 5	x .500	28.43	12 x 6	x .250	29.23
	x .188	14.53		x .375	42.79
	x .250	19.02	12 x 8	x .375	47.90
				x .500	62.46

\*Also 24'



# STEEL BLACK PIPE

Round

Also available Galvanized

Plain Ends

Identification Color: None

Nominal Size in Inches	Schedule	Wall	O.D.	Lbs. per Ft.	ASTM A 53	ASTM A 53
					Type F ASTM A 120 Welded	Gr B Welded (Ends Green)
1/8	40	.068	.405	.24	21'	..
1/4	40	.088	.540	.42	21'	..
1/4	80	.119	.540	.54	21'	..
3/8	40	.091	.675	.57	21'	..
3/8	80	.126	.675	.74	21'	..
1/2	40	.109	.840	.85	21'	..
1/2	80	.147	.840	1.09	21'	..
3/4	40	.113	1.050	1.13	21'	..
3/4	80	.154	1.050	1.47	21'	..
1	40	.133	1.315	1.68	21'	..
1	80	.179	1.315	2.17	21', 25'	..
1 1/4	40	.140	1.660	2.27	21'	..
1 1/4	80	.191	1.660	3.00	21'	..
1 1/2	40	.145	1.900	2.72	21'	..
1 1/2	80	.200	1.900	3.63	21'	..
2	40	.154	2.375	3.65	21'	..
2	80	.218	2.375	5.02	21'	..
2 1/2	40	.203	2.875	5.79	21'	..
2 1/2	80	.276	2.875	7.66	21'	..
3	40	.216	3.500	7.58	21'	..
3	80	.300	3.500	10.25	21'	..
3 1/2	40	.226	4.000	9.11	21'	..
3 1/2	80	.318	4.000	12.51	21'	..
4	40	.237	4.500	10.79	21'	..
4	80	.337	4.500	14.98	21'	..
5	40	.258	5.563	14.62	..	16-22'
5	80	.375	5.563	20.78	..	16-22'
6	40	.280	6.625	18.97	..	16-22'
6	80	.432	6.625	28.57	..	16-22'
8	40	.322	8.625	28.55	..	16-22'
8	XS	.500	8.625	43.39	..	16-22'
10	40	.365	10.750	40.48	..	16-22'
10	XS	.500	10.750	54.74	..	16-22'
12	Std.	.375	12.750	49.56	..	16-22'
12	XS	.500	12.750	65.42	..	16-22'
14	Std.	.375	14.000	54.57	..	16-22'
14	XS	.500	14.000	72.09	..	16-22'
16	XS	.500	16.000	82.77	..	16-22'

Can be furnished threaded or threaded and coupled



**NAPCO**

**STEEL, INC.**

**TOOL STEEL**

# TOOL STEEL FLAT GROUND OIL HARDENING

Stock Lengths 18 Inches

Individually Paper Wrapped



Size in Inches	Lbs. per Piece	Size in Inches	Lbs. per Piece	Size in Inches	Lbs. per Piece
1/64 x 1/2	.0398	5/64 x 1 1/4	.4979	9/64 x 1/2	.3585
3/4	.0597	1 1/2	.5975	3/4	.5378
1	.0796	2	.7966	1	.7171
1 1/4	.0995	2 1/2	.9958	1 1/4	.8963
1 1/2	.1193	3	1.195	1 1/2	1.076
2	.1591	4	1.593	2	1.434
2 1/2	.1989	6	2.390	3	2.151
3	.2387	3/32 x 1/2	.2392	4	2.868
4	.3182	3/4	.3588	5/32 x 1/2	.3986
1/32 x 1/2	.0798	1	.4784	3/4	.5978
3/4	.1197	1 1/4	.5980	1	.7971
1	.1596	1 1/2	.7176	1 1/4	.9964
1 1/4	.1995	2	.9568	1 1/2	1.196
1 1/2	.2394	2 1/2	1.196	2	1.594
2	.3193	3	1.435	2 1/2	1.993
2 1/2	.3991	4	1.914	3	2.391
3	.4789	5	2.392	3 1/2	2.790
4	.6385	6	2.870	4	3.189
6	.9578	8	3.827	5	3.986
3/64 x 1/2	.1196	7/64 x 1/2	.2790	6	4.783
3/4	.1794	3/4	.4185	8	6.377
1	.2392	1	.5579	3/16 x 1/2	.4781
1 1/4	.2990	1 1/4	.6974	3/4	.7172
1 1/2	.3588	1 1/2	.8369	1	.9563
2	.4784	2	1.116	1 1/4	1.195
2 1/2	.5980	2 1/2	1.395	1 1/2	1.434
3	.7176	3	1.674	2	1.913
3 1/2	.8372	4	2.232	2 1/2	2.391
4	.9568	1/8 x 1/2	.3188	3	2.869
6	1.435	5/8	.3984	3 1/2	3.347
1/16 x 1/2	.1594	3/4	.4781	4	3.825
3/4	.2391	1	.6375	5	4.781
1	.3188	1 1/4	.7969	6	5.738
1 1/4	.3984	1 1/2	.9563	8	7.650
1 1/2	.4781	2	1.275	10	9.563
2	.6375	2 1/2	1.594	7/32 x 1/2	.5579
2 1/2	.7969	3	1.913	3/4	.8369
3	.9563	3 1/2	2.231	1	1.116
3 1/2	1.116	4	2.550	1 1/4	1.395
4	1.275	4 1/2	2.869	1 1/2	1.674
5	1.594	5	3.188	2	2.232
6	1.913	6	3.825	2 1/2	2.790
8	2.550	7	4.463	3	3.348
10	3.188	8	5.100	4	4.464
5/64 x 1/2	.1992	10	6.375	6	6.695
3/4	.2987	12	7.650		
1	.3983	14	8.925		



# TOOL STEEL FLAT GROUND

OIL HARDENING SAE 01

Stock Lengths 18 Inches

Individually Paper Wrapped

Continued from preceding page

Size in Inches	Lbs. per Piece	Size in Inches	Lbs. per Piece	Size in Inches	Lbs. per Piece				
1/4 x	1/2	.6375	3/8 x	1 1/2	2.869	5/8 x	3/4	2.391	
	3/4	.9563		2	3.825		1	3.188	
	1	1.275		2 1/2	4.781		1 1/4	3.984	
	1 1/4	1.594		3	5.738		1 1/2	4.781	
	1 1/2	1.913		3 1/2	6.694		2	6.375	
	2	2.550		4	7.650		2 1/2	7.969	
	2 1/2	3.188		4 1/2	8.606		3	9.563	
	3	3.825		5	9.563		3 1/2	11.16	
	3 1/2	4.463		5 1/2	10.52		4	12.75	
	4	5.100		6	11.48		5	15.94	
	4 1/2	5.738		7	13.39		6	19.13	
	5	6.375		8	15.30		7	22.31	
	5 1/2	7.013		10	19.13		8	25.50	
	6	7.650		12	22.95		10	31.88	
7	8.925	7/16 x	1/2	1.116	3/4 x	1	3.825		
8	10.20		3/4	1.673		1 1/4	4.781		
10	12.75		1	2.231		1 1/2	5.738		
12	15.30		1 1/4	2.789		2	7.650		
14	17.85		1 1/2	3.347		2 1/2	9.563		
9/32 x	1/2		.7173	2		4.463	3	11.48	
	3/4		1.076	2 1/2		5.578	3 1/2	13.39	
	1		1.435	3		6.694	4	15.30	
	1 1/4		1.793	4		8.925	4 1/2	17.21	
	1 1/2		2.152	6		13.39	5	19.13	
	2		2.869	1/2 x		3/4	1.913	6	22.95
	2 1/2		3.587			1	2.550	8	30.60
3	4.304		1 1/4			3.188	10	38.25	
4	5.739		1 1/2			3.825	12	45.90	
6	8.608	2	5.100		7/8 x	1	4.463		
5/16 x	1/2	.7969	2 1/2			6.375	1 1/4	5.578	
	3/4	1.195	3			7.650	1 1/2	6.694	
	1	1.594	3 1/2			8.925	2	8.925	
	1 1/4	1.992	4			10.20	2 1/2	11.16	
	1 1/2	2.391	4 1/2			11.48	3	13.39	
	2	3.188	5		12.75	4	17.85		
	2 1/2	3.984	6		15.30	6	26.78		
	3	4.781	7		17.85	1 x	1 1/4	6.375	
3 1/2	5.578	8	20.40		1 1/2		7.650		
4	6.375	10	25.50	2	10.20				
4 1/2	7.172	12	30.60	2 1/2	12.75				
5	7.969	14	35.70	3	15.30				
6	9.563	9/16 x	3/4	2.152	3 1/2		17.85		
8	12.75		1	2.869	4	20.40			
3/8 x	1/2		.9563	1 1/4	3.586	4 1/2	22.95		
	3/4		1.434	1 1/2	4.303	5	25.50		
	1		1.913	2	5.738	6	30.60		
	1 1/4	2.391							

## COLD DRAWN MECHANICAL STEEL TUBING

O.D.	Wall	I.D.	Wt./Ft.	O.D.	Wall	I.D.	Wt./Ft.	O.D.	Wall	I.D.	Wt./Ft.	
1/4"	.049"	.152"	0.105	3"	.156"	2.688"	4.738	5 3/4"	.120"	5.510"	7.215	
	.058"	.134"	0.118		.188"	2.624"	5.646		.188"	5.374"	11.168	
1/2"	.058"	.384"	0.274		.219"	2.562"	6.505	.250"	5.250"	14.685		
	.072"	.356"	0.329		.250"	2.500"	7.343	.375"	5.000"	21.527		
	.083"	.334"	0.370		.281"	2.438"	8.160	.500"	4.750"	28.035		
	.095"	.310"	0.411		.313"	2.374"	8.982	6"	.120"	5.760"	7.536	
	.109"	.282"	0.455		.375"	2.250"	10.513		.188"	5.624"	11.670	
	.120"	.260"	0.487		.438"	2.124"	11.985		.250"	5.500"	15.353	
3/4"	.065"	.620"	0.476		.500"	2.000"	13.350		.313"	5.374"	19.011	
	.072"	.606"	0.521		3 1/4"	.120"	3.010"		4.011	.375"	5.250"	22.528
	.083"	.584"	0.591			.188"	2.874"		6.148	.500"	5.000"	29.370
	.095"	.560"	0.665			.250"	2.750"	8.010	6 1/4"	.120"	6.010"	7.856
	.109"	.532"	0.746	.313"		2.624"	9.818	.188"		5.874"	12.172	
	.120"	.510"	0.807	.375"		2.500"	11.514	.250"		5.750"	16.020	
	.134"	.482"	0.882	.438"		2.374"	13.154	.375"		5.500"	23.529	
	.156"	.438"	0.990	.500"	2.250"	14.685	.500"	5.250"		30.705		
.188"	.374"	1.128	3 1/2"	.125"	3.250"	4.332	6 1/2"	.188"		6.124"	12.673	
.219"	.312"	1.242		.188"	3.124"	6.650		.250"	6.000"	18.688		
.250"	.250"	1.335		.219"	3.062"	7.674		.375"	5.750"	24.531		
1"	.120"	.760"		1.128	.250"	3.000"		8.678	.500"	5.500"	32.040	
	.134"	.732"		1.239	.281"	2.938"		9.660	6 3/4"	.250"	6.250"	17.355
	.156"	.688"		1.406	.313"	2.874"		10.654		.375"	6.000"	25.532
	.188"	.624"	1.630	.375"	2.750"	12.516	.500"	5.750"		33.375		
	.219"	.562"	1.827	.500"	2.500"	16.020	7"	.188"		6.624"	13.677	
	.250"	.500"	2.003	3 3/4"	.125"	3.500"		4.652		.250"	6.500"	18.023
	.281"	.438"	2.160		.188"	3.374"		7.152		.312"	6.376"	22.354
	.375"	.250"	2.503		.250"	3.250"		9.345	.375"	6.250"	26.533	
1 1/4"	.120"	1.010"	1.448		.312"	3.125"		11.489	.500"	6.000"	34.710	
	.134"	.982"	1.597		.375"	3.000"		13.517	7 1/4"	.188"	6.874"	14.179
	.156"	.938"	1.823		.438"	2.875"	15.493	.250"		6.750"	18.690	
	.188"	.874"	2.132	.500"	2.750"	17.355	.375"	6.500"		27.534		
	.219"	.812"	2.411	4"	.125"	3.750"	4.973	.500"		6.250"	36.046	
	.250"	.750"	2.670		.188"	3.624"	7.654	7 1/2"		.250"	7.000"	19.358
	.281"	.688"	2.908		.219"	3.562"	8.843			.375"	6.750"	28.536
	.313"	.624"	3.132		.250"	3.500"	10.013		.500"	6.500"	37.380	
.375"	.500"	3.504	.281"		3.438"	11.161	8"		.250"	7.500"	20.693	
1 1/2"	.095"	1.310"	1.426		.313"	3.374"			12.325	.375"	7.250"	30.538
	.120"	1.260"	1.769	.375"	3.250"	14.518			.500"	7.000"	40.050	
	.134"	1.232"	1.955	.500"	3.000"	18.690		8 1/4"	.250"	7.750"	21.360	
	.156"	1.188"	2.239	4 1/4"	.125"	4.000"			5.293	.375"	7.500"	31.539
	.188"	1.124"	2.634		.188"	3.874"			8.156	.500"	7.250"	41.385
	.219"	1.062"	2.996		.250"	3.750"	10.680		8 1/2"	.250"	8.000"	22.028
	.250"	1.000"	3.338		.313"	3.624"	13.161			.375"	7.750"	32.541
	.281"	.938"	3.658		.375"	3.500"	15.519			.500"	7.500"	42.720
.375"	.750"	4.506	.438"		3.374"	17.832	8 3/4"	.250"		8.250"	22.696	
.500"	.500"	5.340	.500"	3.250"	20.025	.375"		8.000"		33.542		
1 3/4"	.095"	1.560"	1.679	4 1/2"	.125"	4.250"		5.613		.500"	7.750"	44.055
	.109"	1.532"	1.910		.188"	4.124"		8.658	9"	.250"	8.500"	23.363
	.120"	1.510"	2.089		.219"	4.062"		10.013		.375"	8.250"	34.543
	.134"	1.482"	2.313		.250"	4.000"		11.348		.500"	8.000"	46.390
	.156"	1.438"	2.656		.313"	3.874"	13.996	9 1/4"		.250"	8.750"	24.030
	.188"	1.374"	3.136		.375"	3.750"	16.521			.375"	8.500"	35.544
	.219"	1.312"	3.581	.500"	3.500"	21.360	.500"			8.250"	46.725	
	.250"	1.250"	4.005	4 3/4"	.120"	4.510"	5.934		9 1/2"	.250"	9.000"	24.698
.281"	1.124"	4.804	.188"		4.374"	9.160	.375"			8.750"	36.546	
.375"	1.000"	5.507	.250"		4.250"	12.015	.500"			8.500"	48.060	
2"	.134"	1.732"	2.670		.312"	4.125"	14.832	9 3/4"		.250"	9.250"	25.365
	.156"	1.688"	3.072		.375"	4.000"	17.522			.375"	9.000"	37.547
	.188"	1.624"	3.638		.500"	3.750"	22.695			.500"	8.750"	49.395
	.219"	1.562"	4.166	5"	.120"	4.760"	6.254		10"	.250"	9.500"	26.033
	.250"	1.500"	4.673		.188"	4.624"	9.662			.375"	9.250"	38.548
	.281"	1.438"	5.159		.219"	4.562"	11.182			.500"	9.000"	50.730
	.313"	1.374"	5.639		.250"	4.500"	12.683	10 1/4"		.250"	9.750"	26.700
	.344"	1.312"	6.080		.313"	4.374"	15.688			.375"	9.500"	39.549
.375"	1.250"	6.503	.375"		4.250"	18.523	.500"			9.250"	52.065	
.438"	1.124"	7.307	.500"	4.000"	24.030	10 1/2"	.250"		10.000"	27.368		
.500"	1.000"	8.010	5 1/4"	.120"	5.010"		6.575		.375"	9.750"	40.551	
2 1/2"	.156"	2.188"		3.906	.188"		4.874"		10.164	.500"	9.500"	53.400
	.188"	2.124"		4.642	.250"		4.750"	13.350	10 3/4"	.250"	10.250"	28.035
	.219"	2.062"		5.335	.313"		4.624"	16.504		.375"	10.000"	41.552
	.250"	2.000"		6.008	.375"		4.500"	19.524		.500"	9.750"	54.735
	.313"	1.874"		7.311	.500"	4.250"	25.365	3"		.156"	2.688"	4.738
	.375"	1.750"	8.511	3 1/4"	.120"	3.010"	4.011			.188"	2.624"	5.646
	.438"	1.624"	9.646		.188"	2.874"	6.148			.219"	2.562"	6.505
	.500"	1.500"	10.680		.250"	2.750"	8.010		.250"	2.500"	7.343	
2 3/4"	.156"	2.438"	4.322		.313"	2.624"	9.818		.281"	2.438"	8.160	
	.188"	2.374"	5.144		.375"	2.500"	11.514		.313"	2.374"	8.982	
	.219"	2.312"	5.920		.438"	2.374"	13.154	.375"	2.250"	10.513		
	.250"	2.250"	6.675	.500"	2.250"	14.685	.438"	2.124"	11.985			
	.313"	2.124"	8.147	3 1/2"	.125"	3.250"	4.332	.500"	2.000"	13.350		
	.375"	2.000"	9.512		.188"	3.124"	6.650	3 3/4"	.125"	3.500"	4.652	
	.438"	1.874"	10.815		.219"	3.062"	7.674		.188"	3.374"	7.152	
	.500"	1.750"	12.015		.250"	3.000"	8.678		.250"	3.250"	9.345	
3"	.156"	2.688"	4.738		.312"	3.125"	11.489		.375"	3.000"	13.517	
	.188"	2.624"	5.646		.438"	2.875"	15.493		.500"	2.750"	17.355	
	.219"	2.562"	6.505	.500"	2.750"	17.355	4"		.125"	3.750"	4.973	
	.250"	2.500"	7.343	4 1/4"	.125"	4.000"		5.293	.188"	3.624"	7.654	
	.281"	2.438"	8.160		.188"	3.874"		8.156	.219"	3.562"	8.843	
	.313"	2.374"	8.982		.250"	3.750"		10.680	.250"	3.500"	10.013	
	.375"	2.250"	10.513		.313"	3.624"		13.161	.313"	3.438"	11.161	
	.438"	2.124"	11.985		.375"	3.500"		15.519	.375"	3.374"	12.325	
.500"	2.000"	13.350	.500"		3.250"	18.690	.438"	3.374"	17.832			

Full range of sizes available. Call NAPCO for specific needs.



# ADDITIONAL PRODUCTS AND SERVICES

## PRODUCTS

**STAINLESS STEEL** - Vast Stocks of plates, sheets, rounds, flats, hexagons, and angles.

**ALUMINUM** - Extensive new inventories of rod and bar, plates, sheets, and extrusions.

**COLD FINISHED BARS** - Rounds, squares, flats and hexagons.

**DRILL ROD** - Water hardening and oil hardening drill rod in 3 and 12 foot lengths.

**PRECISION GROUND FLAT STOCK** - Oil hardening, air hardening, A-6 free machining, low carbon and CNS-1 (high carbon and high chrome) precision ground flat stock in standard and non-standard lengths.

**TUBING**

**EXPANDED METALS**

## SERVICES

**FLAME CUTTING** - NAPCO Steel Services has long been an industry leader in precision flame and plasma cutting.

**MACHINED STAINLESS STEEL RINGS AND CIRCLES** - First service center in Midwest to offer these in-plant facilities.

**SHEARING** - Stainless & Carbon Steel, plus Aluminum

**SAW CUTTING** - Power band and hack saw cutting of structural steel, bars, and aluminum.

**ROLLER LEVELING** - Material in widths up through 56" and thicknesses through 5/16"

**CIRCLE SHEARING** - Carbon, stainless and aluminum rings and circles can be sheared in diameters up through 100" and thicknesses through 5/16" in stainless steel, 1/2" in aluminum and 3/8" in carbon steel . . . another first in metalworking services offered by a Midwestern steel service center from facilities in our own plant.

# NOTES

## ***ALSO AVAILABLE FOR YOUR METAL REQUIREMENTS***

### **● BRASS • COPPER**

- Sheet
- Strip
- Bars
- Tubing

### **● STEEL STRAPPING**

- Oscillated Wound Coil
- Ribbon Wound Coil

### **● FULL METALLURGY SERVICES**

- Heat Treating
- Stress Relieving
- Test Reports

**NAPCO**

**STEEL, INC.**