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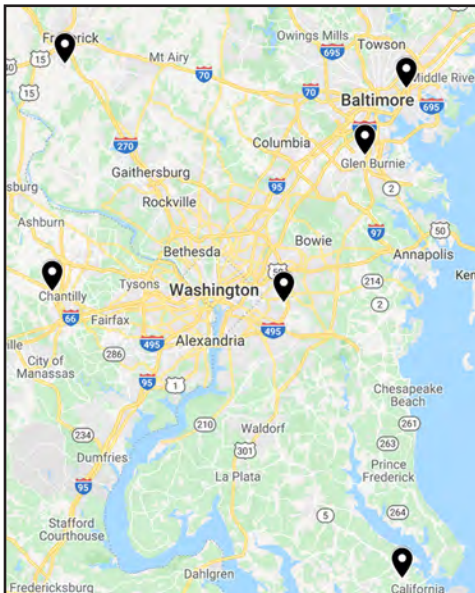
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# Notes

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# Guide to Selection

## STRUCTURAL SHAPES

### ANGLES

Bar size and structural size angles of equal and unequal legs for all-purpose structural use with a 36KSI minimum yield. Material is certified ASTM A36 and ASME SA36.

### CHANNELS

Bar size A36/SA36 can be used for all purpose structural functions requiring small sections. C Channels (which are standard) for general purpose are stocked as A36/SA36. These are certified to the bridge specification A709 as well. Many sizes are stock as Grade 50 where greater strength is necessary. ASTM A572 is certified . Also available is A992 for building framing or bridges. MC ship and car is stocked as A36/SA36 with some sizes dual certified as Grade 50. Jr. channels are light weight for stair stringers but can also be used for many functions where light structural steel is desirable. These are certified to A36/SA36.

### BEAMS

Standard beams are produced to A36/SA36. Wide flange is dual certified Grade 50 to A572 and A992. M beams, Jr., H or light are certified to A36/SA36.

# Guide to Selection

## STRUCTURAL SHAPES

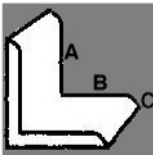
Structural Shape Grade - Comparison - Chemistry, % Grade

Elements	ASTM A36	ASTM A572	A36/A572	A572/992	ASTM A992	CSA	CSA
		Gr. 50	Gr. 50	Gr. 50	Gr. 50	44W	50W
C	0.26 max	0.23 max	0.23 max	0.23 max	0.23 max	0.22 max	0.23 max
Mn		1.35 max*	1.35 max*	0.50-1.50	0.50-1.50	0.50-1.50	0.50-1.50
P	0.04 max	0.04 max	0.04 max	0.035 max	0.035 max	0.04 max	0.04 max
S	0.05 max	0.05 max	0.05 max	0.045 max	0.045 max	0.05 max	0.05 max
Si	0.40 max	0.40 max	0.40 max	0.40 max	0.40 max	0.40 max	0.40 max
Cu				0.60 max	0.60 max		
Ni				0.45 max	0.45 max		
Cr				0.45 max	0.35 max		
Mo				0.15 max	0.15 max		
Sn							
V		0.010-0.15**	0.010-0.15**		0.11**	0.10 max	0.10 max
Cb/Nb		0.005-0.05**	0.005-0.05**		0.05 max**	0.10 max	0.10 max

\* For each.01% reduction of carbon, manganese may be increased .06% to 1.50% max.

\*\* Cb & V in combination must be .02-.15%





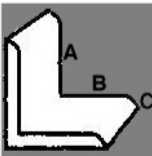
# Angle

## Bar Size

Conforms to ASTM A36  
Stock Lengths: 20 & 40 ft.

Leg		Leg		Thickness	Weight per Ft. in Lbs.
A	x	B	x	C	
1/2	x	1/2	x	1/8	0.38
3/4	x	3/4	x	1/8	0.59
1	x	1	x	1/8	0.80
1	x	1	x	3/16	1.16
1	x	1	x	1/4	1.49
1-1/4	x	1-1/4	x	1/8	1.01
1-1/4	x	1-1/4	x	3/16	1.48
1-1/4	x	1-1/4	x	1/4	1.92
1-1/2	x	1-1/2	x	1/8	1.23
1-1/2	x	1-1/2	x	3/16	1.80
1-1/2	x	1-1/2	x	1/4	2.34
1-3/4	x	1-3/4	x	1/8	1.44
1-3/4	x	1-3/4	x	3/16	2.12
1-3/4	x	1-3/4	x	1/4	2.77
2	x	1-1/2	x	1/8	1.44
2	x	1-1/2	x	3/16	2.12
2	x	1-1/2	x	1/4	2.77
2	x	2	x	1/8	1.65
2	x	2	x	3/16	2.44
2	x	2	x	1/4	3.19
2	x	2	x	5/16	3.29
2	x	2	x	3/8	4.70
2-1/2	x	2	x	3/16	2.75
2-1/2	x	2	x	1/4	3.62
2-1/2	x	2	x	5/16	4.50
2-1/2	x	2	x	3/8	5.30
2-1/2	x	2-1/2	x	3/16	3.07
2-1/2	x	2-1/2	x	1/4	4.10
2-1/2	x	2-1/2	x	5/16	5.00
2-1/2	x	2-1/2	x	3/8	5.90
2-1/2	x	2-1/2	x	1/2	7.70

Also available in Galvanized



# Angle

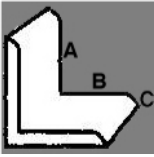
## Structural

Conforms to ASTM A36

Stock Lengths: 20 & 40 ft.

Leg		Leg		Thickness	Weight per Ft. in Lbs.
A	x	B	x	C	
3	x	2	x	3/16	3.07
3	x	2	x	1/4	4.1
3	x	2	x	5/16	5
3	x	2	x	3/8	5.9
3	x	2	x	1/2	7.7
3	x	2-1/2	x	3/16	3.35
3	x	2-1/2	x	1/4	4.5
3	x	2-1/2	x	5/16	5.6
3	x	2-1/2	x	3/8	6.6
3	x	2-1/2	x	1/2	8.5
3	x	3	x	3/16	3.71
3	x	3	x	1/4	4.9
3	x	3	x	5/16	6.1
3	x	3	x	3/8	7.2
3	x	3	x	1/2	9.4
3-1/2	x	2-1/2	x	1/4	4.9
3-1/2	x	2-1/2	x	5/16	6.1
3-1/2	x	2-1/2	x	3/8	7.2
3-1/2	x	2-1/2	x	1/2	9.4
3-1/2	x	3	x	1/4	5.4
3-1/2	x	3	x	5/16	6.6
3-1/2	x	3	x	3/8	7.9
3-1/2	x	3	x	1/2	10.2
3-1/2	x	3-1/2	x	1/4	5.8
3-1/2	x	3-1/2	x	5/16	7.2
3-1/2	x	3-1/2	x	3/8	8.5
3-1/2	x	3-1/2	x	1/2	11.1

Also available in Galvanized

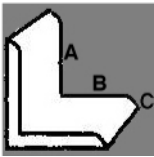


# Angle

**Structural** (Continued)  
 Conforms to ASTM A36  
 Stock Lengths: 20 & 40 ft.

Leg		Leg		Thickness	Weight per Ft. in Lbs.
A	x	B	x	C	
4	x	3	x	5/16	7.200
4	x	3	x	3/8	8.500
4	x	3	x	1/2	11.100
4	x	3-1/2	x	1/4	6.200
4	x	3-1/2	x	5/16	7.700
4	x	3-1/2	x	3/8	9.100
4	x	3-1/2	x	1/2	11.900
4	x	4	x	1/4	6.600
4	x	4	x	5/16	8.200
4	x	4	x	3/8	9.800
4	x	4	x	1/2	12.800
4	x	4	x	5/8	15.700
4	x	4	x	3/4	18.500
5	x	3	x	1/4	6.600
5	x	3	x	5/16	8.200
5	x	3	x	3/8	9.800
5	x	3	x	1/2	12.800
5	x	3-1/2	x	1/4	7.000
5	x	3-1/2	x	5/16	8.700
5	x	3-1/2	x	3/8	10.400
5	x	3-1/2	x	1/2	13.600
5	x	3-1/2	x	5/8	16.800
5	x	3-1/2	x	3/4	19.800
5	x	5	x	5/16	10.300
5	x	5	x	3/8	12.300
5	x	5	x	1/2	16.200
5	x	5	x	5/8	20.000
5	x	5	x	3/4	23.600

Also available in Galvanized

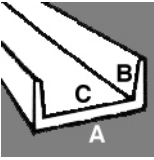


# Angle

**Structural** (Continued)  
 Conforms to ASTM A36  
 Stock Lengths: 20 & 40 ft.

Leg		Leg		Thickness	Weight per Ft. in Lbs.
A	x	B	x	C	
6	x	3-1/2	x	1/4	7.900
6	x	3-1/2	x	5/16	9.800
6	x	3-1/2	x	3/8	11.700
6	x	3-1/2	x	1/2	15.300
6	x	4	x	5/16	13.300
6	x	4	x	3/8	12.300
6	x	4	x	1/2	16.200
6	x	4	x	5/8	20.000
6	x	4	x	3/4	23.600
6	x	6	x	5/18	12.400
6	x	6	x	3/8	14.900
6	x	6	x	1/2	19.600
6	x	6	x	5/8	24.200
6	x	6	x	3/4	28.700
6	x	6	x	1	37.400
7	x	4	x	3/8	13.600
7	x	4	x	1/2	17.900
7	x	4	x	3/4	26.200
8	x	4	x	1/2	19.600
8	x	4	x	3/4	28.700
8	x	6	x	1/2	23.000
8	x	6	x	3/4	33.800
8	x	6	x	1	44.200
8	x	8	x	1/2	26.400
8	x	8	x	5/8	32.700
8	x	8	x	3/4	38.900
8	x	8	x	1	51.000
9	x	4	x	1/2	21.300

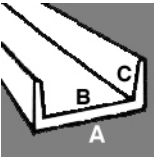
Also available in Galvanized



## Channel

**Bar Size**  
 ASTM A36  
 Stock Length: 20 ft.

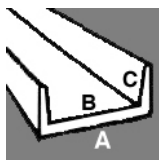
Size in Inches	Flange Width	Web Thickness	Est. Lbs. per Ft.	Est. Lbs. per Length
A	B	C		
1	1/2	1/8	.840	16.80
1-1/4	1/2	1/8	1.01	20.20
1-1/2	1/2	1/8	1.12	22.40
2	1	1/8	1.59	36.00
2	1	3/16	2.32	46.40



**MC Channels (Jr Channels)**  
 ASTM A36  
 Stock Length: 20 & 40 ft.

Size in Inches	Est. Lbs. per Ft.	Web Thickness	Flange Width
A		B	C
8	8.5	.179	1.874
10	6.5	.152	1.127
10	8.4	.170	1.50
12	10.6	.190	1.50
12	14.3	.250	2.125

Also available in Galvanized

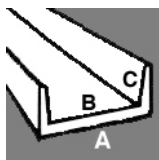


## Channel

Structural  
ASTM A36  
Stock Length: 20 ft.

Size	Est. Lbs. per Ft.	Web Thickness	Flange Width
A		B	C
3	4.1	0.17	1.41
3	5.0	0.258	1.498
3	6.0	0.356	1.596
4	5.4	0.180	1.58
4	7.25	0.32	1.72
5	6.7	0.19	1.75
5	9.0	0.325	1.885
6	8.2	0.2	1.92
6	10.5	0.314	2.034
6	13	0.437	2.157
7	9.8	0.210	2.09
7	12.25	0.314	2.194
7	14.75	0.419	2.299
8	11.5	0.22	2.26
8	13.75	0.303	2.343
9	13.4	0.233	2.433
9	15	0.285	2.485
9	20	0.448	2.648
10	15.3	0.240	2.60
10	20	0.379	2.739
10	25	0.526	2.886
10	30	0.673	3.033
12	20.7	0.282	2.942
12	25	0.387	3.047
12	30	0.510	3.17
15	33.9	0.4	3.4
15	40	0.52	3.52
15	50	0.716	3.716

Also available in Galvanized



## Channel

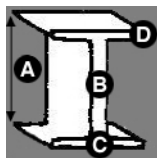
MC - Ship & Car

ASTM A36

Stock Length: 20 ft.

Size	Est. Lbs. per Ft.	Web Thickness	Flange Width
A		B	C
3	7.10	0.312	0.938
4	13.80	0.500	2.500
6	12.00	0.310	2.497
6	15.10	0.316	2.941
6	15.30	0.340	3.500
6	16.30	0.375	3.000
6	18.00	0.379	3.504
7	19.10	0.352	3.452
7	22.70	0.503	3.603
8	18.70	0.353	2.978
8	20.00	0.400	3.025
8	21.40	0.375	3.450
8	22.80	0.427	3.502
9	23.90	0.400	3.450
9	25.40	0.450	3.500
10	22.00	0.312	3.315
10	25.00	0.380	3.405
10	28.50	0.425	3.950
10	33.60	0.575	4.100
10	41.10	0.796	4.321
12	31.00	0.370	3.670
12	35.00	0.467	3.767
12	40.00	0.590	3.890
12	45.00	0.712	4.012
12	50.00	0.835	4.135
13	31.80	0.375	4.000
13	50.00	0.787	4.412
18	42.70	0.450	3.950
18	45.80	0.500	4.000
18	51.90	0.600	4.100
18	58.00	0.700	4.200

Also available in Galvanized



## S Beam

### Standard

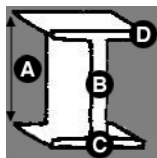
ASTM A572/A992 Gr. 50

Stock Length: 20 & 40 ft.

		Est. Lbs. per Ft.	Web Thickness	Flange Width	Flange Thickness
A			B	C	D
3	x	5.7	0.17	2.33	0.26
3	x	7.5	0.349	2.509	0.26
4	x	7.7	0.193	2.663	0.293
4	x	9.5	0.326	2.796	0.293
5	x	10	0.214	3.007	0.326
6	x	12.5	0.232	3.332	0.359
6	x	17.3	0.465	3.565	0.359
8	x	18.4	0.271	4.001	0.425
8	x	23	0.441	4.171	0.425
10	x	25.4	0.311	4.661	0.491
10	x	35	0.594	1.944	0.491
12	x	31.8	0.35	5	0.544
12	x	35	0.428	5.078	0.544
12	x	40.1	0.472	5.252	0.659
12	x	50	0.687	5.477	0.659
15	x	42.9	0.411	5.501	0.622
15	x	50	0.55	5.64	0.622
18	x	54.7	0.461	6.001	0.691
18	x	70	0.711	6.251	0.691
20	x	66	0.505	6.255	0.795

Also available in Galvanized





## W Beam

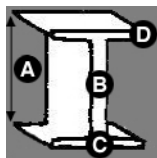
### Wide Flange

ASTM A572/A992 Gr. 50

Stock Length: 20 & 40 ft.

Size		Est. Lbs. per Ft.	Depth in Inches	Web Thick- ness	Flange Width	Flange Thick- ness
			A	B	C	D
4	x	13	4.16	0.28	4.06	0.345
5	x	16	5.01	0.24	5	0.36
5	x	19	5.15	0.27	5.03	0.43
6	x	12	6.03	0.23	4	0.28
6	x	15	5.99	0.23	5.99	0.26
6	x	16	6.28	0.26	4.03	0.405
6	x	20	6.2	0.26	6.02	0.365
6	x	9	5.9	0.17	3.94	0.215
8	x	10	7.89	0.17	3.94	0.205
8	x	13	7.99	0.23	4	0.255
8	x	15	8.11	0.245	4.015	0.315
8	x	18	8.14	0.23	5.25	0.33
8	x	21	8.28	0.25	5.27	0.4
8	x	24	7.93	0.245	6.495	0.4
8	x	28	8.06	0.285	6.535	0.465
8	x	31	8	0.285	7.995	0.435
8	x	35	8.12	0.31	8.02	0.495
8	x	40	8.25	0.36	8.07	0.56
8	x	48	8.5	0.4	8.11	0.685
8	x	58	8.75	0.51	8.22	0.81
8	x	67	9	0.57	8.28	0.935
10	x	12	9.87	0.19	3.96	0.21
10	x	15	9.99	0.23	4	0.27
10	x	17	10.11	0.24	4.01	0.33
10	x	19	10.24	0.25	4.02	0.395
10	x	22	10.17	0.24	5.75	0.36
10	x	26	10.33	0.26	5.77	0.44
10	x	30	10.47	0.3	5.81	0.51
10	x	33	9.73	0.29	7.96	0.435

Also available in Galvanized



## W Beam

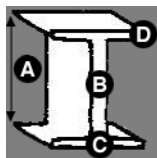
Wide Flange (Continued)

ASTM A572/A992 Gr. 50

Stock Length: 20 & 40 ft.

Size		Est. Lbs. per Ft.	Depth in Inches	Web Thickness	Flange Width	Flange Thickness
			A	B	C	D
10	x	39	9.92	0.315	7.985	0.53
10	x	45	10.1	0.35	8.02	0.62
10	x	49	9.98	0.34	10	0.56
10	x	54	10.09	0.37	10.03	0.615
10	x	60	10.22	0.42	10.08	0.68
10	x	77	10.6	0.53	10.19	0.87
10	x	88	10.84	0.605	10.265	0.99
10	x	68	10.4	0.47	10.13	0.77
10	x	100	11.1	0.68	10.34	1.12
10	x	112	11.36	0.755	10.415	1.25
12	x	14	11.91	0.2	3.97	0.225
12	x	16	11.99	0.22	3.99	0.265
12	x	19	12.16	0.235	4.005	0.35
12	x	22	12.31	0.26	4.03	0.425
12	x	26	12.22	0.23	6.49	0.38
12	x	30	12.34	0.26	6.52	0.44
12	x	40	11.94	0.295	8.005	0.515
12	x	45	12.06	0.335	8.045	0.575
12	x	50	12.19	0.37	8.08	0.64
12	x	53	12.06	0.345	9.995	0.575
12	x	58	12.19	0.36	10.01	0.64
12	x	65	12.12	0.39	12	0.605
12	x	72	12.25	0.43	12.04	0.67
12	x	79	12.38	0.47	12.08	0.735
12	x	87	12.53	0.515	12.125	0.81
12	x	96	12.71	0.55	12.16	0.9
12	x	106	12.89	0.61	12.22	0.99
14	x	22	13.74	0.23	5	0.335
14	x	26	13.91	0.255	5.025	0.42

Also available in Galvanized



## W Beam

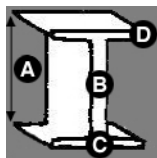
Wide Flange (Continued)

ASTM A572/A992 Gr. 50

Stock Length: 20 & 40 ft.

Size		Est. Lbs. per Ft.	Depth in Inches	Web Thickness	Flange Width	Flange Thickness
			A	B	C	D
14	x	30	13.84	0.27	6.73	0.385
14	x	34	13.98	0.285	6.745	0.455
14	x	38	14.1	0.31	6.77	0.515
14	x	43	13.66	0.305	7.995	0.53
14	x	48	13.79	0.34	8.03	0.595
14	x	53	13.92	0.37	8.06	0.66
14	x	61	13.89	0.375	9.995	0.645
14	x	74	14.17	0.45	10.07	0.785
14	x	82	14.31	0.51	10.13	0.855
16	x	26	15.69	0.25	5.5	0.345
16	x	31	15.88	0.275	5.525	0.44
16	x	36	15.86	0.295	6.985	0.43
16	x	40	16.01	0.305	6.995	0.505
16	x	45	16.13	0.345	7.035	0.565
16	x	50	16.26	0.38	7.07	0.63
16	x	57	16.43	0.43	7.12	0.715
16	x	67	16.33	0.395	10.235	0.665
16	x	77	16.52	0.455	10.295	0.76
16	x	89	16.75	0.525	10.365	0.875
18	x	35	17.7	0.3	6	0.425
18	x	40	17.9	0.315	6.015	0.525
18	x	46	18.06	0.36	6.06	0.605
18	x	50	17.99	0.355	7.495	0.57
18	x	55	18.11	0.39	7.53	0.63
18	x	60	18.24	0.415	7.555	0.695
18	x	65	18.35	0.45	7.59	0.75
18	x	71	18.47	0.495	7.635	0.81
18	x	76	18.21	0.43	11.04	0.68
18	x	86	18.39	0.48	11.09	0.77

Also available in Galvanized



## W Beam

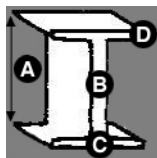
Wide Flange (Continued)

ASTM A572/A992 Gr. 50

Stock Length: 20 & 40 ft.

Size		Est. Lbs. per Ft.	Depth in Inches	Web Thickness	Flange Width	Flange Thickness
			A	B	C	D
18	x	97	18.59	0.535	11.145	0.87
21	x	101	21.4	0.5	12.29	0.8
21	x	111	21.5	0.55	12.34	0.88
21	x	44	20.66	0.35	6.5	0.45
21	x	50	20.8	0.38	6.53	0.54
21	x	57	21.1	0.41	6.555	0.65
21	x	62	21	0.4	8.24	0.62
21	x	68	21.1	0.43	8.27	0.69
21	x	73	21.2	0.46	8.295	0.74
21	x	83	21.4	0.52	8.355	0.84
24	x	104	24.06	0.5	12.75	0.75
24	x	55	23.6	0.4	7.005	0.51
24	x	62	23.7	0.43	7.04	0.59
24	x	68	23.7	0.42	8.965	0.59
24	x	76	23.9	0.44	8.99	0.68
24	x	84	24.1	0.47	9.02	0.77
24	x	94	24.3	0.52	9.065	0.88
27	x	84	26.72	0.46	9.96	0.64
27	x	94	26.92	0.49	9.99	0.745

Also available in Galvanized



## M Beam

**M Beam Jr., H or Light Beam**

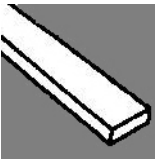
Conforms to ASTM A36

Stock Length: 20 & 40 ft.

Nom. Depth in Inches x Est. Lbs. per Ft.			Web Thickness	Flange Width	Flange Thickness
A			B	C	D
6	x	4.40	0.114	1.844	0.17
8	x	6.50	0.135	2.281	0.19
10	x	9.00	0.157	2.690	0.21
12	x	12.00	0.177	3.065	0.23

Also available in Galvanized



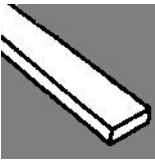


## Hot Rolled Strip

Commercial Quality  
Stock Length: 20 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
1/8	1/2	.213	4.26
1/8	3/4	.319	6.38
1/8	1	.425	8.50
1/8	1-1/4	.531	10.62
1/8	1-1/2	.638	12.76
1/8	2	.850	17.00
1/8	2-1/2	.063	21.26
1/8	3	1.275	25.50
1/8	4	1.70	34.00
1/8	5	2.125	42.50
1/8	6	2.55	51.00
3/16	1/2	.319	6.38
3/16	3/4	.479	9.58
3/16	1	.638	12.75
3/16	1-1/4	.797	15.94
3/16	1-1/2	.956	19.12
3/16	2	1.275	25.50
3/16	3	1.913	38.26
3/16	4	2.55	51.00
3/16	5	3.188	63.76
3/16	6	3.825	76.50

Also available in Galvanized



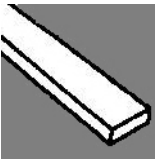
## Hot Rolled Flat

ASTM A36  
Stock Length: 20 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
1/4	1/2	.4250	8.50
1/4	3/4	.6375	12.75
1/4	1	.850	17.00
1/4	1-1/4	1.063	21.26
1/4	1-1/2	1.275	25.50
1/4	2	1.700	34.00
1/4	2-1/2	2.125	42.50
1/4	3	2.550	51.00
1/4	3-1/2	2.975	59.50
1/4	4	3.400	68.00
1/4	4-1/2	3.825	76.50
1/4	5	4.250	85.00
1/4	6	5.100	102.00
1/4	7	5.950	119.00
1/4	8	6.800	136.00
1/4	9	7.660	153.20
1/4	10	8.510	170.20
1/4	11	9.360	187.18
1/4	12	10.21	204.20
5/16	1	1.06	21.20
5/16	1-1/4	1.33	26.60
5/16	1-1/2	1.59	31.88
5/16	2	2.13	42.50
5/16	3	3.188	63.76
5/16	4	4.250	85.00
5/16	5	5.313	106.26
5/16	6	6.375	127.50
3/8	3/4	.9563	19.13
3/8	1	1.275	25.50
3/8	1-1/4	1.594	31.88
3/8	2	2.550	51.00
3/8	2-1/2	3.188	63.76
3/8	3	3.825	76.50

Also available in Galvanized





## Hot Rolled Flat

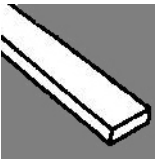
(Continued)

ASTM A36

Stock Length: 20 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
3/8	3-1/2	4.463	89.26
3/8	4	5.100	102.00
3/8	4-1/2	5.738	114.80
3/8	5	6.375	127.50
3/8	6	7.65	153.00
3/8	7	8.925	178.50
3/8	8	10.20	204.00
3/8	9	11.49	229.80
3/8	10	12.77	255.40
3/8	11	14.04	280.80
3/8	12	5.32	360.40
1/2	3/4	1.275	25.50
1/2	1	1.70	34.00
1/2	1-1/4	2.125	42.50
1/2	1-1/2	2.55	51.00
1/2	1-3/4	2.975	59.50
1/2	2	3.40	68.00
1/2	2-1/2	4.25	85.00
1/2	3	5.10	102.00
1/2	3-1/2	5.95	119.00
1/2	4	6.80	136.00
1/2	4-1/2	7.65	153.00
1/2	5	8.50	170.00
1/2	6	10.20	204.00
1/2	7	11.90	238.00
1/2	8	13.60	272.00
1/2	9	15.32	306.40
1/2	10	17.02	340.40
1/2	11	18.72	374.40
1/2	12	20.42	408.40
5/8	1	2.13	42.60
5/8	1-1/4	2.66	53.20
5/8	1-1/2	3.19	63.80

Also available in Galvanized



## Hot Rolled Flat

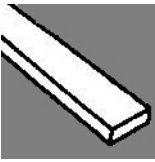
(Continued)

ASTM A36

Stock Length: 20 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
5/8	2	4.25	85.00
5/8	2-1/2	5.31	106.20
5/8	3	6.38	127.60
5/8	4	8.50	170.00
5/8	5	10.63	212.00
5/8	6	12.75	255.00
5/8	7	14.88	297.00
5/8	8	17.00	340.00
5/8	9	15.32	306.40
5/8	10	17.02	340.40
5/8	11	23.38	467.60
5/8	12	25.52	510.40
3/4	1	2.55	51.00
3/4	1-1/4	3.19	63.80
3/4	1-1/2	3.83	76.60
3/4	2	5.10	102.00
3/4	2-1/2	6.38	127.60
3/4	3	7.65	153.00
3/4	3-1/2	8.93	178.60
3/4	4	10.20	204.00
3/4	5	12.70	255.00
3/4	6	15.30	306.00
3/4	7	17.80	356.00
3/4	8	20.40	408.00
3/4	9	22.97	459.40
3/4	10	25.53	510.60
3/4	11	28.08	561.60
3/4	12	30.63	612.60
1	1-1/4	4.25	85.00
1	1-1/2	5.10	102.00
1	2	6.80	136.00
1	2-1/2	8.50	170.00
1	3	10.20	204.00

Also available in Galvanized



## Hot Rolled Flat & Square

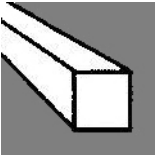
### Flat

ASTM A36

Stock Length: 20 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
1	4	13.60	272.00
1	5	17.00	340.00
1	6	20.40	408.00
1	7	23.80	476.00
1	8	27.20	544.00
1	10	34.03	680.60
1	12	40.84	816.80
1-1/4	3	12.75	255.00
1-1/4	4	17.00	340.00
1-1/4	6	25.50	510.00
1-1/4	8	34.00	680.00
1-1/2	3	15.30	306.00
1-1/2	4	20.40	408.00
1-1/2	6	30.60	612.00
1-1/2	8	40.80	816.00

Also available in Galvanized



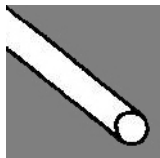
### Square

ASTM A36

Stock Length: 20 ft.

Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
3/8	.478	9.56
1/2	.850	17.00
5/8	1.33	26.60
3/4	1.91	38.20
1	3.40	68.00
1-1/4	5.31	106.20
1-1/2	7.65	153.00
2	13.60	272.00

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## Hot Rolled Round

ASTM A36  
Stock Length: 20 ft.

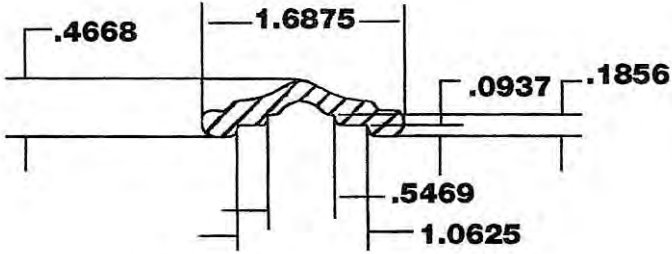
Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
1/4	.167	3.34
5/16	.216	4.32
3/8	.376	7.52
1/2	.668	13.36
5/8	1.043	20.86
3/4	1.502	30.04
7/8	2.045	40.90
1	2.670	53.40
1-1/8	3.380	67.60
1-1/4	4.173	83.46
1-3/8	5.049	100.98
1-1/2	6.008	120.16
1-3/4	8.178	163.56
2	10.60	212.00
2-1/2	16.60	332.00
3	24.03	480.60
4	42.73	854.60
5	66.76	1,335.20
6	96.13	1,922.60

Galvanized available in sizes ½ inch and larger

# Top Rail Moulding (Cover Rail)

Size	Est. Lbs. per Ft.	Est. Lbs. per Length
1"	1.25	24.92

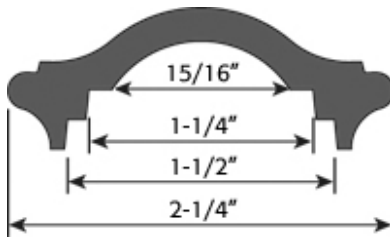
Stock Length: 20 ft.



Designed to fit over 1" Bar Channel

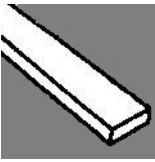
Size	Est. Lbs. per Ft.	Est. Lbs. per Length
1-1/2"	2.21	42

Stock Length: 19 ft.



Designed to fit over 1-1/2" Bar Channel

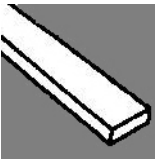
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## Cold Rolled Flat

ASTM 1018  
Stock Length: 12 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
1/8	1/4	.106	1.27
1/8	3/8	.159	1.91
1/8	1/2	.213	2.55
1/8	5/8	.266	3.19
1/8	3/4	.319	3.82
1/8	1	.425	5.10
1/8	1-1/4	.531	6.37
1/8	1-1/2	.638	7.65
1/8	1-3/4	.744	8.92
1/8	2	.850	10.20
1/8	2-1/2	1.063	12.75
1/8	3	1.275	15.30
3/16	1/2	.319	3.82
3/16	3/4	.478	5.73
3/16	1	.638	7.65
3/16	1-1/4	.797	9.56
3/16	1-1/2	.956	11.47
3/16	1-3/4	1.116	13.39
3/16	2	1.275	15.30
3/16	2-1/2	1.594	19.12
3/16	3	1.913	22.95
3/16	4	2.550	30.60
1/4	1/2	.425	5.10
1/4	5/8	.531	6.37
1/4	3/4	.638	7.65
1/4	1	.850	10.20
1/4	1-1/4	1.063	12.75
1/4	1-1/2	1.275	15.30
1/4	1-3/4	1.49	17.88
1/4	2	1.70	20.40
1/4	2-1/2	2.13	25.56
1/4	3	2.55	30.60
1/4	4	3.40	40.80



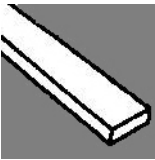
## Cold Rolled Flat

(Continued)

ASTM A36

Stock Length: 12 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
1/4	5	4.25	51.00
1/4	6	5.10	61.20
1/4	8	6.80	81.60
5/16	3/4	.797	9.56
5/16	1	1.06	12.72
5/16	1-1/4	1.33	15.96
5/16	1-1/2	1.59	19.08
5/16	2	2.13	25.56
5/16	3	3.19	38.28
3/8	1/2	.638	7.66
3/8	5/8	.797	9.56
3/8	3/4	.956	11.47
3/8	1	1.28	15.36
3/8	1-1/4	1.59	19.08
3/8	1-1/2	1.91	22.92
3/8	1-3/4	2.23	26.76
3/8	2	2.55	30.60
3/8	2-1/2	3.19	38.28
3/8	3	3.83	45.96
3/8	4	5.10	61.20
3/8	5	6.38	76.56
3/8	6	7.65	91.80
1/2	5/8	1.06	12.72
1/2	3/4	1.28	15.36
1/2	1	1.70	20.40
1/2	1-1/4	2.13	25.56
1/2	1-1/2	2.55	30.60
1/2	2	3.40	40.80
1/2	3	5.10	61.20
1/2	4	6.80	81.60
1/2	5	8.50	102.00
1/2	6	10.20	122.40
5/8	3/4	1.59	19.08



## Cold Rolled Flat

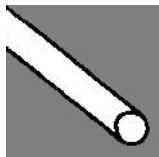
(Continued)

ASTM A36

Stock Length: 12 ft.

Size in Inches (WxH)		Est. Lbs. per Ft.	Est. Lbs. per Length
5/8	1	2.13	25.56
5/8	1-1/4	2.66	31.92
5/8	1-1/2	3.19	38.28
5/8	2	4.25	51.00
5/8	2-1/2	5.31	63.72
5/8	3	6.38	76.56
5/8	4	8.50	102.00
5/8	5	10.63	127.56
5/8	6	12.75	153.00
3/4	1	2.55	30.60
3/4	1-1/4	3.19	38.28
3/4	1-1/2	3.83	45.96
3/4	2	5.10	61.20
3/4	2-1/2	6.38	76.56
3/4	3	7.65	91.80
3/4	4	10.20	122.40
3/4	5	12.75	153.00
3/4	6	15.30	183.60

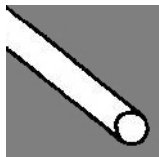




## Cold Rolled Round

ASTM 1018  
Stock Length: 20 ft.

Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
1/8	.042	0.51
3/16	.094	1.13
1/4	.167	3.34
5/16	.261	5.22
3/8	.376	7.52
7/16	.511	10.22
1/2	.668	13.36
9/16	.845	16.90
5/8	1.04	20.80
11/16	1.26	25.20
3/4	1.50	30.00
13/16	1.76	35.20
7/8	2.04	40.80
15/16	2.35	47.00
1	2.67	53.40
1-1/16	3.01	60.20
1-1/8	3.38	67.60
1-3/16	3.77	75.40
1-1/4	4.17	83.40
1-5/16	4.60	92.00
1-3/8	5.05	101.00
1-7/16	5.52	110.40
1-1/2	6.01	120.20
1-9/16	6.52	130.40
1-5/8	7.05	141.00
1-11/16	7.60	152.00
1-3/4	8.18	163.60
1-7/8	9.39	187.80
1-15/16	10.02	200.40
2	10.68	213.60
2-1/8	12.06	241.20
2-3/16	12.78	255.60
2-1/4	13.52	270.40



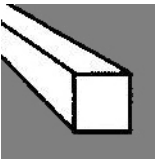
## Cold Rolled Round

(Continued)

ASTM 1018

Stock Length: 20 ft.

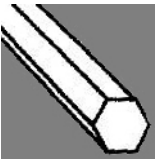
Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
2-5/16	14.28	285.60
2-3/8	15.06	301.20
2-7/16	15.87	317.40
2-1/2	16.69	333.80
2-9/16	17.53	350.60
2-5/8	18.40	368.00
2-11/16	19.29	385.80
2-3/4	20.20	404.00
2-7/8	22.07	441.40
2-15/16	23.04	460.80
3	24.03	480.60
3-1/4	28.21	564.20
3-3/8	30.42	608.40
3-1/2	32.71	654.20
3-5/8	35.09	701.80
3-3/4	37.55	751.00
4	42.73	854.60
4-1/4	48.23	964.60
4-1/2	54.08	1081.60
4-5/8	57.12	1142.40
4-3/4	60.25	1205.00
4-7/8	63.46	1269.20
5	66.76	1335.20
5-1/4	73.60	1472.00
5-3/8	77.15	1543.00
5-1/2	80.78	1615.60
5-3/4	88.29	1765.80
6	96.13	1922.60



## Cold Rolled Square

ASTM 1018  
Stock Length: 12 ft.

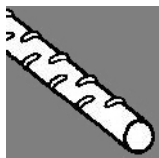
Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
1/8	.053	.63
3/16	.120	1.44
1/4	.213	2.55
5/16	.332	3.98
3/8	.478	5.73
7/16	.651	7.81
1/2	.850	10.20
9/16	1.08	12.96
5/8	1.33	15.96
11/16	1.61	19.32
3/4	1.91	22.92
7/8	2.60	31.20
1	3.40	40.80
1-1/8	4.30	51.60
1-1/4	5.31	63.72
1-3/8	6.43	77.16
1-1/2	7.65	91.80
1-5/8	8.98	107.76
1-3/4	10.41	124.92
2	13.60	163.20
2-1/4	17.21	206.52
2-1/2	21.25	255.00
2-3/4	25.71	308.52
3	30.60	367.20
4	54.40	652.80



## Cold Rolled Hexagon

ASTM 1018  
Stock Length: 12 ft.

Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
1/4	.184	2.20
5/16	.288	3.45
3/8	.414	4.96
7/16	.564	6.77
1/2	.736	8.83
9/16	.932	11.18
5/8	1.15	13.80
11/16	1.392	16.70
3/4	1.656	19.87
7/8	2.254	27.05
1	2.945	35.34
1-1/8	3.727	44.72
1-1/4	4.601	55.21
1-3/8	5.567	66.80
1-1/2	6.625	79.50
1-5/8	7.775	93.30
1-3/4	9.018	108.22
1-7/8	10.35	124.20
2	11.78	141.36



## Reinforcing Bar

ASTM A615  
Grade: 40 & 60  
Stock Length: 20 ft.

Inch Bar Size	Diameter in Inches	Metric Bar Size	Diameter in MM	Est. Lbs. per Ft.	Est. Lbs. per Length
#3	.375 (3/8")	#10	9.5	.376	7.52
#4	.500 (1/2")	#13	12.7	.668	13.36
#5	.625 (5/8")	#16	15.9	1.043	20.86
#6	.750 (3/4)	#19	19.1	1.502	30.04
#7	.875 (7/8)	#22	22.2	2.044	40.88
#8	1.000 (1)	#25	25.4	2.670	53.4
#9	1.128	#29	28.7	3.400	68.0
#10	1.270	#32	32.3	4.303	86.06
#11	1.410	#36	35.8	5.313	106.26
#14	1.693	#43	43.0	7.65	153.0
#18	2.257	#57	57.3	13.60	272.0

# Notes

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# Guide to Selection

## HOT ROLLED SHEET

### Commercial Sheet

Conforms to A1011 (Formally A569). Used for tanks, barrels, farm implements and other applications where surface finish is not critical.

### Pickled & Oiled

Acid pickling removes mill oxide, improving surface appearance, uniformity and finishing quality. Paint and enamel adhere well after cleaning. Same properties and forming characteristics as commercial steel but less wear on tooling. Conforms to A1011 (Formally A569). Typical applications; auto and truck parts, farm implements, tanks, stamped and toll formed parts, formed sections.

### Abrasion Resisting

Medium carbon content plus higher manganese greatly improves resistance to abrasion. Typically used for scrapers, liners, chutes and conveyors. Outlasts low carbon steel by two times. Moderate formability.

## HIGH STRENGTH/LOW ALLOY SHEET

### High Strength/Low Alloy Sheets

Have much higher minimum yield strengths, improved formability weldability and/or atmospheric corrosion resistance than ordinary low carbon commercial steel sheets. Lend themselves to applications where weight reduction is a main factor. Extra strength permits weight savings up to 25%. Produced to minimum mechanical requirements. Available in three types: Cold Rolled, Galvanized and Hot Rolled.

## COLD ROLLED SHEET

### Carbon Steel

Conforms to ASTM A1008 (A366) . Closer Tolerances and better surface than pickled and oiled. The Matte finish is ideal for paints, enamels and lacquers. Soft enough to bend flat on itself in any direction without

## Guide to Selection

cracking. Used for refrigerators, ranges, washing machines, auto and truck bodies, signs, shelving and stamped parts.

### **GALVANIZED SHEET**

Galvanized sheets conform to ASTM A924 (A525). They are continuously hot dip coated with a durable protective coat of zinc. Can be formed without flaking or peeling. Thickness 16ga. and lighter are lock forming quality. Thickness 14ga. and heavier are commercial quality. Coatings are G90 (minimum .90 oz. per foot) or G60 (light commercial).

Galvannealed sheets are heat treated after coating to produce zinc-iron alloy and eliminate the spangle. Can be painted without further surface preparation except for normal cleaning.

Galvalume is a corrosion resistant sheet continuously hot dipped coated with an aluminum zinc alloy. It offers a substantial increase in corrosion resistance over G90. Conforms to ASTM A792



# Guide to Selection

## STRUCTURAL QUALITY PLATE – HOT ROLLED

Manufactured to detailed ASTM specs for use in structures such as bridges and buildings or in railroad cars and other mobile equipment.

**ASTM A36** - A structural quality carbon steel for use in welded, bolted, or riveted construction of bridges and buildings and for wide ranging structural purposes. Engineered with a minimum yield point of 36KSI. Stronger than A283, A36 plates can be used to design lighter weight configurations and equipment and provides liberal weld-ability. Most material is certified to ASTM A709 Gr. 36 bridge specification, through 4".

**ASTM A36** is a structural quality material with specific minimum mechanical properties for general purpose structural applications. When de-coiled, this product tested to ASTM A6.

### MECHANICAL PROPERTIES

-	Minimum	Tensile	Elongation	Carbon
	Yield Point ksi	Strength ksi	In 2" Minimum	Maximum
A36	36	58-80	21%	.25/.29*

\* Depending on Thickness

**ASTM A572** is available at a strength level of 50 KSI minimum. Provides high strength, good workability and weldability at a moderate price. Atmospheric corrosion resistance is the same as that of plain carbon steel. Conforms to ASTM A572, SAW J1442 Grade 050X. Also available in Grades 42, 45, 55, 60 and 65. Most material is certified to A709 Grade 50 bridge specification, through 4" thickness. Standard impact tests are available upon request.

# Guide to Selection - Plate

## PLATE

**ASTM A588** with a combination of high strength and outstanding resistance to atmospheric corrosion, is often used wherever weight reduction or maintenance cost savings are major considerations. Easily cold formed and welded.

Abrasion Resistant is a medium carbon, high-strength, quenched and tempered chrome-moly, boron treated plate, especially designed to a minimum hardness of 360 BHN. It offers an exceptional amount of sliding and impact abrasion resistance at a moderate cost. Abrasion Resistant Plate can be used as a basic component, or as a liner in all types of mining and material handling equipment. An added feature of formability better than most 360 mi. BHN products adds to its value.

	T-1 Type A 321 Min. BHN	AR 400
C	.12/.21	.30 Max
Mn	.70/1.00	1.51/1.60
Cr	.40/.65	.20 Max .10
Mo	.15/.25	Max
B	.0005 min.	.0005/.005
BHN	321 min.	360 Min.

## CONSTRUCTION ALLOYS

Construction Alloys are quenched and tempered high strength alloy steels produced to minimum mechanical properties with a yield strength nearly three times that of A36 structural steel. This material offers high strength plus good work-ability with minimum pre-heating. Plus exceptional toughness at low atmospheric temperatures, (to -50 degrees F.) Used extensively for component parts and as liners for construction equipment, mining machinery, truck bodies, chutes and wear plates.

# Guide to Selection

## PLATE

### **T-1 TYPE A (ASTM A514 Grade B)**

Stocked in thicknesses through 1-1/4". Has a lower alloy content than the original T-1 but the same strength.

### **T-1 TYPE B (ASTM A514 Grade H)**

Stocked 1-3/8" through 2" with an alloy content between Type A and original T-1 while maintaining the same strength.

### **T-1 Structural Quality (ASTM A514 Grade F)**

Stocked over 2-1/4"- 2-1/2". This is the original T-1 grade.

### **T-1 Type C (ASTM A514 Grade Q)**

Stocked in thicknesses over 2-1/2", Type C is richer in alloy than the original T-1 with slightly lower strength levels.

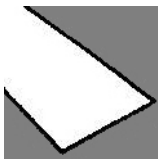
**NOTE:** Post weld heat treatment of T-1 steel isn't recommended because cracking may develop in the heat affected zone.

## PRESSURE VESSEL QUALITY PLATE

Specifically, tightly controlled ASTM specs produce a superior carbon or alloy steel to withstand the pressure found in vessels, boilers, etc. The known, consistent properties of these tightly controlled plates make them desirable for many other applications. All PVQ plates are subjected to a series of tests to assure consistent, controlled properties. PVQ S4 plates are ordered with supplemental S4 testing (as outlined by ASTM A20) to assure conformance to mechanical property requirements.

**ASTM A285 (ASM SA285)** - A popular, moderate strength steel for stationary service vessels and boilers. Stocked up to 2" thick, they have excellent formability and weldability. Stocked in Grade C.

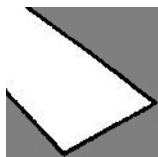
**ASTM A516 (ASME SA516)** - Intended for low temperatures where improved notch toughness is required. ASTM A516 has fine grain structure and is silicon filled. Additional S5 testing for selected items in the normalized condition.



## Hot Rolled Sheet

Commercial Quality  
ASTM A1011 (A569)

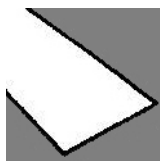
Gauge	Thickness in Decimals	Sheet Size in Inches			Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
10 Ga.	.1345	48"	x	96"	5.625	180.0
		48"	x	120"		225.0
		60"	x	120"		281.3
11 Ga.	.1196	48"	x	96"	5.00	160.0
		48"	x	120"		200.0
		60"	x	120"		250.0
12 Ga.	.1046	48"	x	96"	4.375	140.0
		48"	x	120"		175.0
		60"	x	120"		218.8
14 Ga.	.0747	48"	x	96"	3.125	100.0
		48"	x	120"		125.0
		60"	x	120"		156.3
16 Ga.	.0598	48"	x	96"	2.50	80.0
		48"	x	120"		100.0
		60"	x	120"		125.0



## Cold Rolled Sheet

Commercial Quality  
ASTM A1008 (A366)

Gauge	Thickness in Decimals	Sheet Size in Inches			Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
10 Ga.	.1345	48"	x	96"	5.625	180.0
11 Ga.	.1196	48"	x	96"	5.00	160.0
12 Ga.	.1046	48"	x	96"	4.375	140.0
14 Ga.	.0747	48"	x	96"	3.125	100.0
16 Ga.	.0598	48"	x	96"	2.50	80.0
18 Ga.	.0478	48"	x	96"	2.00	64.0
20 Ga.	.0359	48"	x	96"	1.50	48.0
22 Ga.	.0299	48"	x	96"	1.250	40.0
24 Ga.	.0239	48"	x	96"	1.00	32.0

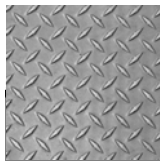


# Galvanized Sheet

Commercial Quality  
ASTM A924 (A525)

Gauge	Thickness in Decimals	Sheet Size in Inches			Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
11 Ga.	.1233	48"	x	96"	5.156	165.0
12 Ga.	.1084	48"	x	96"	4.531	145.0
14 Ga.	.0785	48"	x	96"	3.281	105.0
16 Ga.	.0635	48"	x	96"	2.656	85.0
18 Ga.	.0516	48"	x	96"	2.156	69.0
20 Ga.	.0396	48"	x	96"	1.656	53.0
22 Ga.	.0336	48"	x	96"	1.406	45.0
24 Ga.	.0276	48"	x	96"	1.156	37.0
26 Ga.	.0217	48"	x	96"	.906	29.0
28 Ga.	.0187	48"	x	96"	.781	25.0

Other widths and lengths available.



## Steel Diamond Plate

Carbon Steel  
ASTM A786

Thickness in Inches	Sheet Size in Inches			Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
1/8	48"	x	96"	6.16	197.12
1/8	48"	x	120"	6.16	246.40
3/16	48"	x	96"	8.70	278.40
3/16	48"	x	120"	8.70	348.00
1/4	48"	x	96"	11.26	360.32
1/4	48"	x	120"	11.26	450.40
3/8	48"	x	96"	16.37	523.84
1/2	48"	x	96"	21.47	687.04
3/4	48"	x	96"	31.68	1,013.76

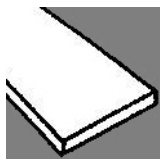


# Plate

Hot Rolled Carbon Steel Plate  
Commercial Quality  
ASTM A36

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Plate
3/16	7.66	48	x	96	245.12
	7.66	48	x	120	306.29
1/4	10.21	48	x	96	326.71
	10.21	48	x	120	408.38
5/16	12.76	48	x	96	408.32
3/8	15.31	48	x	96	490.06
	15.31	48	x	120	612.58
1/2	20.42	48	x	96	653.43
	20.42	48	x	120	816.77
	20.42	60	x	120	1020.96
5/8	25.53	48	x	96	816.77
3/4	30.63	48	x	96	980.12
7/8	35.74	48	x	96	1143.68
1	40.84	48	x	96	1306.88
1-1/8	45.95	48	x	96	1470.4
1-1/4	51.05	48	x	96	1633.6
1-3/8	56.16	48	x	96	1797.12
1-1/2	61.26	48	x	96	1960.24
1-5/8	66.37	48	x	96	2123.84
1-3/4	71.47	48	x	96	2287.04
2	81.68	48	x	96	2613.66
2-1/4	91.89	48	x	96	2940.48
2-1/2	102.1	48	x	96	3267.2
2-3/4	112.31	48	x	96	3593.92
3	122.52	48	x	96	3920.64
3-1/2	142.94	48	x	96	4574.08
4	163.36	48	x	96	5227.52
4-1/2	183.78	48	x	96	5880.96
5	204.2	48	x	96	6534.4
6	245.04	48	x	96	7841.28

Call for special sizes.



## Abrasion Resistant Plate

AR360/AR400

Heat Treated, Quenched & Tempered

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Plate
1/4	10.21	48	x	96	326.71
		96	x	288	1,960.32
3/8	15.32	48	x	96	490.06
		96	x	288	2,941.44
1/2	20.42	48	x	96	653.41
		96	x	288	3,920.64
5/8	25.53	96	x	288	4,901.76
		96	x	288	5,880.73
3/4	30.63	96	x	288	5,880.73
1	40.84	96	x	288	7,840.97
1-1/4	51.05	96	x	288	9,801.22
1-1/2	61.26	96	x	288	11,761.46

Call for special sizes.



# Guide to Selection

## EXPANDED METAL

Conventional Type A1011 (formally ASTM A607)- Lowest cost HSLA steels made to specific minimum yield strengths where atmospheric corrosion resistance is not a requirement. Good formability and weldability. Typical applications: transmission towers, formed utility poles, auto parts, truck trailers.

Improved Atmospheric Corrosion Resistance Type ASTM A606- Two to four times more resistant to atmospheric corrosion than low carbon steel. Unpainted, Cor-Ten has tightly adherent oxide surface which stops further oxidation. Excellent weldability and formability.

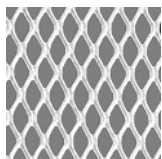
HSLAS-F Improved Formability Type A1011 (Formally ASTM A715)- Maximum formability with improved toughness and fatigue resistance. Good weldability. Available with minimum yield ranging from 50 ksi to 80 ksi. Used when fabrication involves difficult forming or tight radii bending

Flattened Expanded Metal is a regular expanded metal which has been cold rolled, leaving a flat smooth surface.

**SWD** - After flattening shall not vary from the nominal dimension more than  $-0" + 1/4"$  of dimension

**LWD** - After flattening shall not vary from the nominal

Welded Steel Bar Grating is the most popular of all grating types due to its strength, cost-efficient production and ease of installation. Used in most general industrial plants as well as commercial buildings. It has wide applications as walkways, platforms, drainage covers and ventilation grates. It is also ideal for use as mezzanine decking since it supports the same loads as comparable solid flooring. More than that, its cost saving openness maximizes the circulation of air, light, heat, water and sound while promoting cleanliness. Standard panels are available in widths of 2' and 3'.

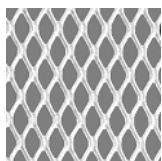


## Expanded Metal

Flattened  
Carbon Steel  
ASTM A1011

Style	Width in Inches	Length in Inches	Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
1/4" #20	48	96	.83	26.56
1/4" #18	48	96	1.08	34.56
1/2" #16	48	96	.82	26.24
1/2" #13	48	96	1.40	44.80
3/4" #16	48	96	.51	16.32
3/4" #13	48	96	.75	24.00
3/4" #9	48	96	1.71	54.72
3/4" #9	48	120	1.71	68.40
1" #16	48	96	.44	14.08
1-1/2" #16	48	96	.38	12.16
1-1/2" #13	48	96	.57	18.24
1-1/2" #9	48	96	1.14	36.48
1-1/2" #9	48	120	1.14	45.60
1-1/2" #6	48	96	2.50	80.00

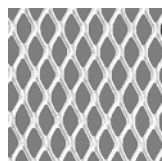
Also available in Galvanized



## Expanded Metal

**Regular**  
Carbon Steel  
ASTM A1011

Style	Width in Inches	Length in Inches	Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
1/2" #16	48	96	.83	27.52
1/2" #13	48	96	1.47	47.04
3/4" #16	48	96	.54	17.28
3/4" #13	48	96	.80	25.60
3/4" #9	48	96	1.80	57.60
1-1/2" #9	48	96	1.20	38.40



**Expanded Metal Grating**  
Carbon Steel  
ASTM A1011

Style	Width in Inches	Length in Inches	Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
3 lb.	48	96	3.00	96.00
3.14 lb.	48	96	3.14	100.48
4 lb.	48	96	4.00	128.00
4.27 lb.	48	96	4.27	136.64
5 lb.	48	96	5.00	160.00
6.25 lb.	48	96	6.25	200.00
7lb.	48	96	7.00	224.00

Also available in Galvanized

# Bar Grating



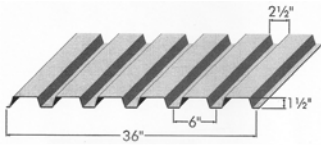
Welded Steel  
Type 19-W-4  
1/8" & 3/16" Bearing Bars  
1-3/16" x 4" Center to Center  
ASTM A1011  
Stock Length: 20 ft.

Bearing Bar Size in Inches			Width in Feet	Length in Feet	Est. Lbs. per Sq. Ft.
1"	x	1/8"	3	20	5.1
1"	x	3/16"	3	20	7.3
1-1/4"	x	3/16"	3	20	8.9
1-1/2"	x	3/16"	3	20	10.6

Weights above are for plain steel

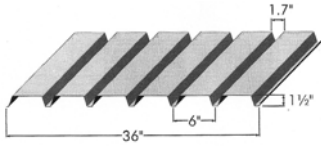
Material is also available in Plain Steel, Painted Black or Galvanized. Other types and sizes are available

## Roof Deck



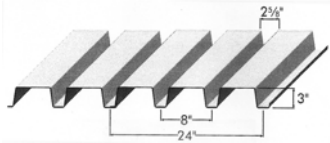
**Roof Deck - Type B**  
Galvanized G 60 and Painted Gray

Size	Gauge	Dimension
1-1/2"	22	3' x 25' 2"
1-1/2"	20	3' x 25' 2"



**Roof Deck - Type F**  
Galvanized G 60

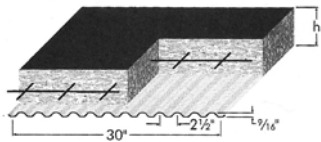
Size	Gauge	Dimension
1-1/2"	20	3' x 25' 2"



**Roof Deck - Type N**  
Galvanized G 60

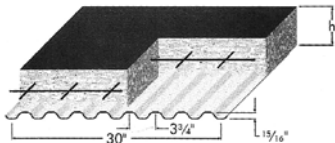
Size	Gauge	Dimension
3"	20	2' x 24' 2"

## Form Deck



**Form Deck - Type S**  
Galvanized G 60

Size	Gauge	Dimension
5/16"	22	30"x 20' 2"

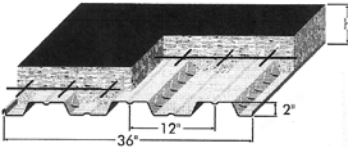


**Form Deck - Type HD**  
Galvanized G 60

Size	Gauge	Dimension
15/16"	22	30"x 20' 2"

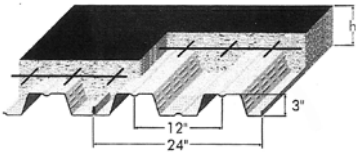
Type B, Type N, Type S - Other gauges are available

# Composite Deck



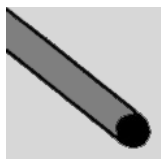
**Roof - CFD2**  
Galvanized G 60

Size	Gauge	Dimension
2"	18	3' x 25' 2"



**Roof - CFD3**  
Galvanized G 60

Size	Gauge	Dimension
3"	18	2' x 25' 2"

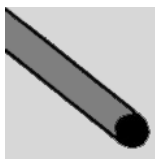


## Pipe

### Standard Black Pipe

Plain End, Schedule 40, ASTM A500 Structural Grade B  
Stock Lengths 21 ft. and 42 ft.

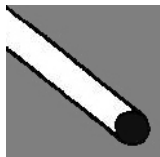
Nominal Size	O.D.	I.D.	Wall Thickness	Est. Lbs. per Ft.	Est. Lbs. per Length
1/2	.840	.622	.109	.85	17.85
3/4	1.050	.824	.113	1.13	23.73
1	1.315	1.049	.133	1.68	35.28
1-1/4	1.660	1.380	.140	2.27	47.67
1-1/2	1.900	1.610	.145	2.72	57.12
2	2.375	2.0678	.154	3.65	76.65
2-1/2	2.875	2.469	.203	5.79	121.59
3	3.500	3.068	.216	7.58	161.91
3-1/2	4.000	3.548	.226	9.11	186.48
4	4.500	4.026	.237	10.79	226.59
5	5.563	5.047	.258	14.62	307.02
6	6.625	6.065	.280	18.97	398.37
8	8.625	7.961	.322	28.55	599.55



### Standard Black Pipe

Plain End, Schedule 80  
ASTM A500 Structural Grade B  
Stock Lengths 21 ft.

Nominal Size	O.D.	I.D.	Wall Thickness	Est. Lbs. per Ft.	Est. Lbs. per Length
1/2	.840	.546	.147	1.09	22.89
3/4	1.050	.742	.154	1.47	30.87
1	1.315	.957	.179	2.17	45.57
1-1/4	1.660	1.278	.191	3.00	63.00
1-1/2	1.900	1.500	.200	3.63	76.23
2	2.375	1.939	.218	5.02	105.42
2-1/2	2.875	2.323	.276	7.66	160.86
3	3.500	2.900	.300	10.25	215.25
4	4.500	3.826	.337	14.98	314.58
5	5.563	4.813	.375	20.78	436.38
6	6.625	5.761	.432	28.57	599.97
8	8.625	7.625	.500	43.39	911.19



## Galvanized Pipe

ASTM A53, Schedule 40

Stock Lengths 21 ft.

Est. Lbs. include the weight of the Zinc

Nominal Size	O.D.	I.D.	Wall Thickness	Est. Lbs. per Ft.	Est. Lbs. per Length
1/2	.840	.622	.109	.8925	18.74
3/4	1.050	.824	.113	1.1865	24.91
1	1.315	1.049	.133	1.7640	37.04
1-1/4	1.660	1.380	.140	2.3835	50.05
1-1/2	1.900	1.610	.145	2.8560	59.98
2	2.375	2.067	.154	3.8325	80.48
2-1/2	2.875	2.469	.203	6.0795	127.67
3	3.500	3.068	.216	7.9590	167.14
4	4.500	4.026	.237	11.3295	237.92
5	5.563	5.047	.258	15.50	325.44
6	6.625	6.065	.280	20.11	422.27
8	8.625	8.071	.322	28.55	599.55





## Square Tube

ASTM A500 & A513 Flash In  
Stock Lengths 20 ft., 24 ft., and 40 ft.

Sizes 2" and smaller with wall thicknesses less than .120 are manufactured to ASTM A-513. Sizes 2" and larger with wall thickness of .120 and thicker are manufactured to ASTM A-500.

Size in Inches	Gauge	Wall Thickness	Est. Lbs. per Ft.
1/2	16	.065	.3850
3/4	16	.065	.6055
	14	.083	.7530
1	16	.065	.8265
	15	.072	.909
	12	.109	1.321
	11	.120	1.436
1-1/4	14	.083	1.317
	11	.120	1.844
1-1/2	14	.083	1.599
	11	.120	2.252
	3/16	.188	3.230
	1/4	.250	4.000
1-3/4	11	.120	2.660
2	14	.083	2.164
	11	.120	3.068
	3/16	.188	4.32
	1/4	.250	5.41
2-1/2	11	.120	3.90
	3/16	.188	5.59
	1/4	.250	7.11
3	11	.120	4.75
	3/16	.188	6.87
	1/4	.250	8.81
	3/8	.375	11.74
3-1/2	3/16	.188	8.15
	1/4	.250	10.51
4	11	.120	6.46

Also available in Galvanized



## Square Tube

(Continued)

ASTM A500 & A513 Flash In

Stock Lengths 20 ft., 24 ft., and 40 ft.

Size in Inches	Gauge	Wall Thickness	Est. Lbs. per Ft.
4	3/16	.188	9.42
	1/4	.250	12.21
	5/16	.313	14.83
	3/8	.375	17.27
	1/2	.500	21.63
5	3/16	.188	11.97
	1/4	.250	15.62
	5/16	.313	19.08
	3/8	.375	22.37
6	3/16	.188	14.53
	1/4	.250	19.02
	3/16	.188	3.230
	5/16	.313	23.34
	3/8	.375	27.48
	1/2	.500	35.24
7	3/16	.188	17.08
	1/4	.250	22.42
	5/16	.313	27.59
	3/8	.375	32.58
	1/2	.500	42.05
8	3/16	.188	19.63
	1/4	.250	25.82
	5/16	.313	31.84
	3/8	.375	37.69
	1/2	.500	48.85
	5/8	.625	59.32
10	3/16	.188	24.73
	1/4	.250	32.63
	5/16	.313	40.35

Also available in Galvanized



## Square Tube

*(Continued)*

ASTM A500 & A513 Flash In

Stock Lengths 20 ft., 24 ft., and 40 ft.

Size in Inches	Gauge	Wall Thickness	Est. Lbs. per Ft.
10	3/8	.375	47.90
	1/2	.500	62.46
	5/8	.625	76.33
12	1/4	.250	39.43
	5/16	.313	48.86
	3/8	.375	58.10
14	1/2	.500	76.07
	5/16	.313	57.36
	3/8	.375	68.31
16	1/2	.500	89.68
	5/16	.313	65.87
	3/8	.375	78.52
	1/2	.500	103.50

Also available in Galvanized



# Rectangular Tube

ASTM A500 Grade B  
 Stock Lengths 20 ft., 24 ft., and 40 ft.  
 Stocked in ASTM A-513

Size in Inches			Gauge	Wall Thickness	Est. Lbs. per Ft.
2	x	1	14	.083	1.600
			11	.120	2.252
2	x	1-1/2	11	.120	2.660
2-1/2	x	1-1/2	11	.120	3.068
			3/16	.188	4.320
3	x	1	11	.120	3.068
3	x	1-1/2	14	.083	2.446
			11	.120	3.476
			3/16	.188	5.97
3	x	2	11	.120	3.90
			3/16	.188	5.59
			1/4	.250	7.11
4	x	2	11	.120	4.75
			3/16	.188	6.87
			1/4	.250	8.81
4	x	3	11	.120	5.61
			3/16	.188	8.15
			1/4	.250	10.51
5	x	2	3/16	.188	8.15
			1/4	.250	10.51
5	x	3	3/16	.188	9.42
			1/4	.250	12.21
6	x	2	3/16	.188	9.42
			1/4	.250	12.21
6	x	3	3/16	.188	10.70

Also available in Galvanized



# Rectangular Tube

(Continued)

ASTM A500 Grade B

Stock Lengths 20 ft., 24 ft., and 40 ft.

Stocked in ASTM A-513

Size in Inches			Gauge	Wall Thickness	Est. Lbs. per Ft.
6	x	3	1/4	.250	13.91
			3/8	.375	19.82
6	x	4	1/4	.250	15.62
			5/16	.313	19.08
			3/8	.375	22.37
			1/2	.500	28.43
7	x	4	3/16	.188	14.53
			1/4	.250	19.02
7	x	5	3/16	.188	14.53
			1/4	.250	19.02
			5/16	.313	23.34
			3/8	.375	27.48
			1/2	.500	35.24
8	x	2	3/16	.188	11.97
			1/4	.250	15.62
8	x	3	3/16	.188	13.25
			1/4	.250	17.32
			3/8	.375	24.93
			1/2	.500	35.24
8	x	4	3/16	.188	14.53
			1/4	.250	19.02
			5/16	.313	23.34
			3/8	.375	27.48
			1/2	.500	35.24

Also available in Galvanized



# Rectangular Tube

(Continued)

ASTM A500 Grade B

Stock Lengths 20 ft., 24 ft., and 40 ft.

Stocked in ASTM A-513

Size in Inches			Gauge	Wall Thickness	Est. Lbs. per Ft.
8	x	6	3/16	.188	17.08
			1/4	.250	22.42
			5/16	.313	27.59
			3/8	.375	32.58
			1/2	.500	42.05
10	x	2	3/16	.188	14.53
			1/4	.250	19.02
10	x	4	3/16	.188	17.08
			1/4	.250	22.42
			5/16	.313	27.59
			3/8	.375	32.58
			1/2	.500	42.05
10	x	6	1/4	.250	25.82
			5/16	.313	31.84
			3/8	.375	37.69
			1/2	.500	48.85
10	x	8	1/4	.250	29.23
			3/8	.375	42.79
			1/2	.500	55.66
12	x	4	3/16	.188	19.63
			1/4	.250	25.82
			5/16	.313	31.84
			3/8	.375	37.69
			1/2	.500	48.85

Also available in Galvanized



# Rectangular Tube

(Continued)

ASTM A500 Grade B

Stock Lengths 20 ft., 24 ft., and 40 ft.

Stocked in ASTM A-513

Size in Inches			Gauge	Wall Thickness	Est. Lbs. per Ft.
12	x	6	1/4	.250	29.23
			5/16	.313	36.10
			3/8	.375	42.79
			1/2	.500	55.66
12	x	8	1/4	.250	32.63
			5/16	.313	40.35
			3/8	.375	47.90
			1/2	.500	62.46
			5/8	.625	76.33

Also available in Galvanized

# Notes

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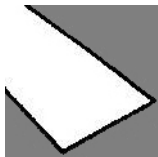
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# Guide to Selection

## ALUMINUM

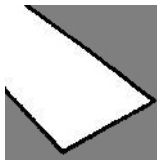
Grade	Tensile Strength {PSI}	Yield Strength (PSI)	Specifications	Characteristics
1100	13,000 (O Temper) thru 24,000 (H18 Temper)	5,000 (O Temper) thru 22,000 (H18 Temper)	QQ-A250/1 ASTM B-209	Pure aluminum, soft with excellent workability and weldability, cannot be heat treated.
2024-T3	70,000	50,000	QQ-A-250/4	High strength to weight ratio, good machinability, can be formed and heat treated in annealed condition.
3003-H14	22,000	21,000	QQ-A-250/2 ASTM B-209 SAE29 AMS4008	The most widely used grade. Pure aluminum with addition of manganese for 20% more strength than 1100, retains excellent corrosion resistance and workability, cannot be heat treated.
5052-H32	33,000	28,000	QQ-A-250/8 ASTM B-209	Highest strength of non-heat treatable grades, excellent marine and salt water corrosion, great workability, anodized bright and clear
6061-T6	45,000	40,000	QQ-A-250/11 (Sheet & Plate) QQ-A-200/8 (Bars & Shapes) QQ-A-200/16 (Structural Shapes) ASTM B-209, B-211, B-308 SAE281 AMS 4027 (Sheet) AMS 4150 (Bars)	Most versatile of the heat treatable grades, combines good corrosion resistance, weldability and workability. Used for wide variety of products and applications.
6063-T5	27,000	21,000	QQ-A-200/9 ASTM B-221	The "architectural alloy", extruded square corners, excellent corrosion resistance and finishing characteristics. Best suited alloy for anodizing.



# Aluminum Sheet

3003-H14 Federal Specification  
 QQ-A-250/2 (1) Mill Finish

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.020	.285	36	x	96	6.84
		36	x	120	8.55
		48	x	96	9.12
		48	x	120	11.40
		48	x	144	13.68
.025	.356	36	x	96	8.54
		36	x	120	10.68
		48	x	96	11.39
		48	x	120	14.24
		48	x	144	17.09
.032	.456	36	x	96	10.94
		36	x	120	13.68
		48	x	96	14.59
		48	x	120	18.24
		48	x	144	21.89
		60	x	120	22.80
		60	x	144	27.36
.040	.570	36	x	36	13.68
		36	x	120	17.10
		48	x	96	18.24
		48	x	120	22.80
		48	x	144	27.36
		60	x	120	28.50
		60	x	144	34.20
.050	.713	36	x	96	17.11
		36	x	120	21.39
		48	x	96	22.82
		48	x	120	28.52
		48	x	144	34.22
		60	x	120	35.65
		60	x	120	42.78



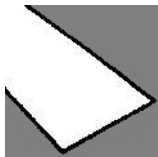
# Aluminum Sheet

(Continued)

3003-H14 Federal Specification

QQ-A-250/2 (1) Mill Finish

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.063	.898	36	x	96	21.55
		36	x	120	26.94
		48	x	96	28.74
		48	x	120	35.92
		48	x	144	43.10
		60	x	120	44.90
.080	1.139	60	x	144	53.88
		36	x	96	27.34
		36	x	120	34.17
		48	x	96	36.45
		48	x	120	45.56
		48	x	144	54.67
.090	1.287	60	x	120	56.95
		60	x	144	68.34
		36	x	96	30.89
		36	x	120	38.61
		48	x	96	41.18
		48	x	120	51.48
.100	1.426	48	x	144	61.78
		60	x	120	64.35
		60	x	144	77.22
		36	x	36	34.22
		36	x	120	42.78
		48	x	96	45.63
.125	1.782	48	x	120	57.04
		48	x	144	68.45
		60	x	120	71.30
		60	x	144	85.56
		36	x	96	42.77
		36	x	120	53.46
		48	x	96	57.02
		48	x	120	71.28
		48	x	144	85.54
		60	x	120	89.10
		60	x	144	106.92



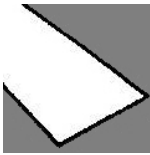
# Aluminum Sheet

*(Continued)*

3003-H14 Federal Specification

QQ-A-250/2 (1) Mill Finish

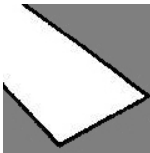
Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.190	2.713	36	x	96	65.11
		36	x	120	81.39
		48	x	96	86.82
		48	x	120	108.52
		48	x	144	130.22
		60	x	120	135.65
		60	x	144	162.78



## Aluminum Sheet

5052-H32 Federal Specification  
QQ-A-250/8 (1) Mill Finish

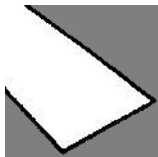
Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.050	.698	48	x	120	27.92
.063	.880	48	x	120	35.20
.080	1.117	48	x	96	35.74
.090	1.257	48	x	120	50.28
.125	1.746	48	x	144	83.81
.190	2.654	48	x	144	127.39



## Aluminum Sheet

6061-T6 Federal Specification  
QQ-A-250/11 (1) Mill Finish

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.032	.452	48	x	96	21.70
.040	.565	48	x	96	27.12
.050	.706	48	x	96	33.89
		60	x	96	42.36
.063	.889	48	x	96	42.67
		60	x	96	53.34
.071	1.002	48	x	96	48.10
.080	1.129	48	x	96	54.19
		60	x	96	67.74
.090	1.270	48	x	96	60.69
		60	x	96	76.20
.100	1.411	48	x	96	67.73
.125	1.764	48	x	96	56.45
		48	x	96	84.67
		60	x	96	105.84



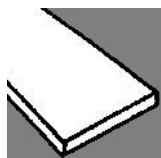
## Aluminum Sheet

(Continued)

606T-T6 Federal Specification

QQ-A-250/11 (1) Mill Finish

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.160	2.258	48	x	144	108.38
.190	2.681	48	x	144	128.69
		60	x	144	160.86
		72	x	144	193.03



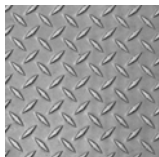
## Aluminum Plate

606T-T6 Federal Specification

QQ-A-250/11 (1) Mill Finish

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
3/16	2.685	48	x	96	85.92
		48	x	120	107.40
		48	x	144	128.88
1/4	3.660	48	x	96	117.12
		48	x	144	175.68
3/8	5.440	48	x	96	174.08
		48	x	144	261.12
1/2	7.250	48	x	96	232.00
		48	x	144	348.00

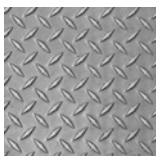
Other grades and sizes are available, please call for availability and pricing.



## Aluminum Diamond Floor Plate

6061-T6 Federal Specification

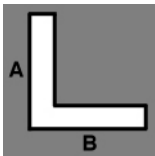
Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.100	1.570	48	x	192	100.48
.125	1.905	48	x	192	121.92
		60	x	192	152.40
.188	2.820	48	x	192	180.48
		60	x	192	225.60
.250	3.700	48	x	192	236.8
		60	x	192	296.00
.375	5.490	48	x	192	351.36
		60	x	192	439.20
.500	7.270	48	x	192	465.28



## Aluminum Diamond Floor Plate

Bright Finish 3003

Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Sheet
.063	.84	48	x	96	26.88
.100	1.568	48	x	96	50.176
.125	1.925	48	x	144	92.40
.188	2.823	48	x	96	90.34
.250	3.60	48	x	96	115.20



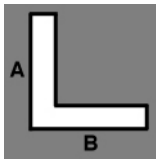
# Aluminum Angle

ASTM B221  
6063-T52  
Stock Lengths 16 ft.

Size in Inches			Thickness	Est. Lbs. per Ft.	Est. Lbs. per Length
A	x	B			
1/2	x	3/8	1/16	.061	.976
		1/2	1/16	.068	1.09
		1/2	1/8	.128	2.05
5/8	x	5/8	1/8	.168	2.69
3/4	x	3/8	3/32	.120	1.90
		3/8	1/8	.150	2.40
		3/4	1/16	.107	1.71
		3/4	3/32	.155	2.48
		3/4	1/8	.202	3.23
7/8	x	7/8	1/8	.236	3.78
1	x	1/2	1/16	.107	1.71
		1/2	3/32	.157	2.51
		1/2	1/8	.202	3.23
		3/4	1/8	.239	3.82
		1	1/16	.141	2.26
		1	1/8	.275	4.40
		1	3/16	.400	6.40
		1	1/4	.524	8.38

Legs are uniform in thickness - all corners are sharp



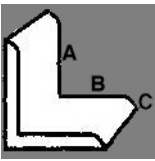


# Aluminum Angle

ASTM B221  
6063-T52  
Stock Lengths 16 ft.

Size in Inches		Thickness	Est. Lbs. per Ft.	Est. Lbs. per Length	
A	B				
1-1/4	x	1/2	1/8	.239	3.84
		3/4	1/8	.276	4.42
		1	1/8	.313	5.01
		1-1/4	1/8	.348	5.57
		1-1/4	3/16	.511	8.18
		1-1/4	1/4	.660	10.56
1-1/2	x	1/2	1/8	.275	4.40
		3/4	1/8	.313	5.01
		1	1/8	.349	5.58
		1-1/2	1/8	.422	6.75
		1-1/2	3/16	.619	9.90
		1-1/2	1/4	.830	13.28
1-3/4	x	1-3/4	1/8	.496	7.94
2	x	1/2	1/8	.350	5.60
		3/4	1/8	.394	6.30
		1	1/8	.422	6.75
		1	3/16	.633	10.13
		1-1/2	1/8	.496	7.94
		1-1/2	3/16	.728	11.65
		1-1/2	1/4	.974	15.60
		2	1/8	.581	9.30
		2	3/16	.841	13.46
		2	1/4	1.130	18.08

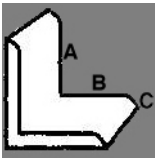
Legs are uniform in thickness - all corners are sharp



# Aluminum Structural Angle

6061-T6 Federal Specification  
 QQ-A-200/16 Equal Leg  
 Stock Lengths 25 ft.

Size in Inches				C	Est. Lbs. per Ft.	Est. Lbs. per Length
A	x	B	x			
3/4	x	3/4	x	1/8	.201	5.03
1	x	1	x	1/8	.275	6.88
				3/16	.400	10.00
				1/4	.514	12.85
1-1/4	x	1-1/4	x	1/8	.343	8.58
				3/16	.510	12.75
				1/4	.656	16.40
1-1/2	x	1-1/2	x	1/8	.423	10.58
				3/16	.619	15.48
				1/4	.809	20.23
1-3/4	x	1-3/4	x	1/8	.497	12.43
				3/16	.731	18.28
				1/4	.956	23.90
				5/16	1.171	29.28
				3/8	1.378	34.45
2	x	2	x	1/8	.577	14.43
				3/16	.850	21.25
				1/4	1.110	27.75
				5/16	1.364	34.10
				3/8	1.606	40.15
2-1/2	x	2-1/2	x	1/8	.724	18.10
				3/16	1.070	26.75
				1/4	1.404	35.10
				5/16	1.729	43.23
				3/8	2.047	51.18

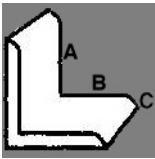


# Aluminum Structural Angle

(Continued)

6061-T6 Federal Specification  
 QQ-A-200/16 Equal Leg  
 Stock Lengths 25 ft.

Size in Inches				C	Est. Lbs. per Ft.	Est. Lbs. per Length
A		B				
3	x	3	x	3/16	1.275	31.88
				1/4	1.684	42.10
				5/16	2.082	52.05
				3/8	2.474	61.85
				1/2	3.227	80.68
3-1/2	x	3-1/2	x	1/4	1.989	49.73
				5/16	2.461	61.53
				3/8	2.926	73.15
				1/2	3.826	95.65
4	x	4	x	1/4	2.283	57.08
				5/16	2.461	61.53
				3/8	3.366	84.15
				1/2	4.414	110.35
				5/8	5.425	135.63
5	x	5	x	3/8	4.237	105.93
				1/2	5.578	139.45
6	x	6	x	3/8	5.119	127.98
				1/2	6.754	168.85
				5/8	8.352	208.80
8	x	8	x	1/2	9.141	228.53
				3/4	13.478	336.95

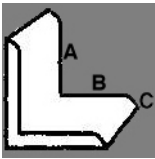


# Aluminum Structural Angle

(Continued)

6061-T6 Federal Specification  
 QQ-A-200/16 Unequal Leg  
 Stock Lengths 25 ft.

Size in Inches					Est. Lbs. per Ft.	Est. Lbs. per Length
A		B		C		
1	x	3/4	x	1/8	.238	5.95
1-1/4	x	3/4	x	1/8	.272	6.80
1-1/4	x	1	x	1/8	.314	7.85
1-1/2	x	3/4	x	1/8	.314	7.85
				3/16	.454	11.35
1-1/2	x	1	x	1/8	.347	8.68
				1/4	.662	16.55
1-1/2	x	1-1/4	x	1/8	.387	9.68
				3/16	.566	14.15
				1/4	.734	18.35
1-3/4	x	1-1/4	x	1/8	.421	10.53
				3/16	.621	15.53
				1/4	.809	20.23
2	x	1	x	1/8	.431	10.78
2	x	1-1/2	x	1/8	.496	12.40
				3/16	.731	18.28
				1/4	.956	23.90
				3/8	1.378	34.45
2-1/2	x	1-1/4	x	3/16	.797	19.93
2-1/2	x	1-1/2	x	1/8	.577	14.43
				3/16	.850	21.25
				1/4	1.110	27.75
2-1/2	x	2	x	1/8	.652	16.30
				3/16	.961	24.03
				1/4	1.257	31.43
				3/8	1.828	45.70

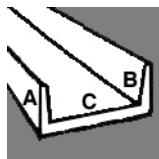


# Aluminum Structural Angle

(Continued)

6061-T6 Federal Specification  
 QQ-A-200/16 Unequal Leg  
 Stock Lengths 25 ft.

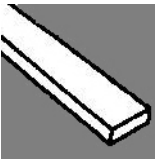
Size in Inches				C	Est. Lbs. per Ft.	Est. Lbs. per Length
A	x	B	x			
3	x	2	x	3/16	1.071	26.78
				1/4	1.403	35.08
				3/8	2.046	51.15
3	x	2-1/2	x	1/4	1.537	38.43
				3/8	2.253	56.33
3-1/2	x	2-1/2	x	1/4	1.684	42.10
				3/8	2.474	61.85
				1/2	3.227	80.68
3-1/2	x	3	x	1/4	1.842	46.05
				3/8	2.705	67.63
				1/2	3.532	88.30
4	x	2-1/2	x	1/4	1.856	46.40
4	x	3	x	1/4	1.988	49.70
				3/8	2.926	73.15
				1/2	3.826	95.65
4	x	3-1/2	x	3/8	3.128	78.20
				1/2	4.102	102.55
5	x	3	x	3/8	3.349	83.73
				1/2	4.396	109.90
5	x	3-1/2	x	3/8	3.582	89.55
				1/2	4.704	117.60
6	x	3-1/2	x	5/16	3.385	84.63
				3/8	4.037	100.93
				1/2	5.306	132.65
6	x	4	x	3/8	4.237	105.93
				1/2	5.578	139.45
8	x	6	x	1/2	7.952	198.80
				3/4	11.679	291.98



## Aluminum Structural Channel

6061-T6 Federal Specification  
 QQ-A-200/16 American Standard  
 Stock Lengths 25 ft.

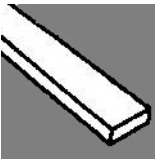
Size in Inches					Est. Lbs. per Ft.	Est. Lbs. per Length
A		B		C		
3	x	1.410	x	.170	1.417	35.43
3	x	1.498	x	.258	1.729	43.23
3	x	1.596	x	.356	2.074	51.85
4	x	1.580	x	.180	1.846	46.15
4	x	1.647	x	.247	2.161	54.03
4	x	1.720	x	.320	2.504	62.60
5	x	1.750	x	.190	2.316	57.90
5	x	1.885	x	.325	3.108	77.70
5	x	2.032	x	.472	3.975	99.38
6	x	1.920	x	.200	2.826	70.65
6	x	1.945	x	.225	3.002	75.05
6	x	2.034	x	.314	3.631	90.78
6	x	2.157	x	.437	4.498	112.45
7	x	2.110	x	.230	3.541	88.53
7	x	2.194	x	.314	4.232	105.80
8	x	2.290	x	.250	4.252	106.30
8	x	2.343	x	.303	4.751	118.78
8	x	2.435	x	.395	5.617	140.43
8	x	2.527	x	.487	6.484	162.10
9	x	2.430	x	.230	4.604	115.10
9	x	2.648	x	.448	6.911	172.78
10	x	2.600	x	.240	5.278	131.96
10	x	2.739	x	.379	6.915	172.88
10	x	2.886	x	.526	8.641	216.03
12	x	2.960	x	.300	7.411	185.28
12	x	3.047	x	.387	8.639	215.98
12	x	3.170	x	.510	10.374	259.35
15	x	3.400	x	.400	11.708	292.70
15	x	3.716	x	.716	17.282	432.05



# Aluminum Flat

6061-T6 Federal Specification  
 QQ-A-200/8 Extruded  
 Stock Lengths 12 ft.

Size in Inches			Est. Lbs. per Ft.	Est. Lbs. per Length
1/8	x	1/2	.074	0.89
	x	5/8	.092	1.10
	x	3/4	.110	1.32
	x	1	.147	1.76
	x	1-1/4	.184	2.21
	x	1-1/2	.221	2.65
	x	1-3/4	.257	3.08
	x	2	.294	3.53
	x	2-1/2	.368	4.42
	x	3	.441	5.29
3/16	x	4	.588	7.06
	x	6	.882	10.58
	x	3/4	.165	1.98
	x	1	.221	2.65
	x	1-1/4	.276	3.31
	x	1-1/2	.331	3.97
	x	2	.441	5.29
	x	3	.662	7.94
1/4	x	1/2	1.47	1.76
	x	3/4	.221	2.65
	x	1	.294	3.53
	x	1-1/4	.368	4.42
	x	1-1/2	.441	5.29
	x	3/4	.515	6.18
	x	2	.588	7.06
	x	2-1/2	.735	8.82
	x	3	.882	10.50
	x	3-1/2	1.029	12.35
	x	4	1.176	14.11
	x	5	1.470	17.64
	x	6	1.764	21.17
	5/16	x	3/4	.276
x		1	.368	4.42
x		1-1/4	.459	5.51
x		1-1/2	.551	6.61
x		2	.713	8.56



# Aluminum Flat

(Continued)

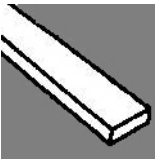
6061-T6 Federal Specification

QQ-A-200/8 Extruded

Stock Lengths 12 ft.

Size in Inches			Est. Lbs. per Ft.	Est. Lbs. per Length
3/8	x	1/2	.221	2.65
	x	3/4	.331	3.97
	x	1	.441	5.29
	x	1-1/4	.551	6.61
	x	1-1/2	.661	7.93
	x	2	.882	10.58
	x	2-1/2	1.103	13.24
	x	3	1.323	15.88
	x	4	1.764	21.17
	x	6	2.646	31.75
1/2	x	3/4	.441	5.29
	x	1	.588	7.06
	x	1-1/4	.735	8.82
	x	1-1/2	.882	10.58
	x	1-3/4	1.029	12.35
	x	2	1.176	14.11
	x	2-1/2	1.470	17.64
	x	3	1.764	21.17
	x	4	2.352	28.22
	x	5	2.940	35.28
5/8	x	6	3.528	42.34
	x	3/4	.551	6.61
	x	1	.735	8.82
	x	1-1/4	.919	11.03
	x	1-1/2	1.103	13.24
	x	2	1.470	17.64
	x	3	2.205	26.46
3/4	x	1	.882	10.58
	x	1-1/4	1.103	13.24
	x	1-1/2	1.323	15.88
	x	2	1.764	21.17
	x	2-1/2	2.205	26.46
	x	3	2.646	31.75
	x	3-1/2	3.087	37.04
	x	4	3.528	42.34





# Aluminum Flat

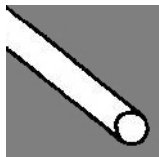
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6061-T6 Federal Specification

QQ-A-200/8 Extruded

Stock Lengths 12 ft.

Size in Inches			Est. Lbs. per Ft.	Est. Lbs. per Length
3/4	x	5	4.410	52.92
	x	6	5.292	63.50
1	x	1-1/4	1.470	17.64
	x	1-1/2	1.764	21.17
	x	2	2.352	28.22
	x	2-1/2	2.940	35.28
	x	3	3.528	42.34
	x	4	4.704	56.45
1-1/4	x	6	7.056	84.67
	x	1-1/2	2.205	26.46
	x	2	2.940	35.28
	x	2-1/2	3.675	44.10
1-1/2	x	3	4.410	52.92
	x	4	5.880	70.56
	x	2	3.528	42.34
	x	2-1/2	4.410	52.92
	x	3	5.292	63.50
2	x	4	7.056	84.67
	x	6	10.584	127.01
	x	2-1/2	5.880	70.56
	x	3	7.056	84.67
3	x	4	9.408	112.90
	x	4	4.112	169.34
	x	5	17.640	211.68



## Aluminum Round

6061-T6 Federal Specification QQ-A-225/8  
Cold Finished Federal Specifications QQ-A-200/8  
Extruded Stock Lengths 12 ft.

Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
1/8	.0145	.17
3/16	.033	.39
1/4	.058	.70
5/16	.090	1.08
3/8	.130	1.56
7/16	.177	2.12
1/2	.231	2.77
9/16	.292	3.50
5/8	.361	4.33
3/4	.520	6.24
7/8	.707	8.48
1	.924	11.09
11/8	1.169	14.03
1-1/4	1.443	17.32
1-5/16	1.591	19.09
1-3/8	1.746	20.95
1-7/16	1.909	22.91
1-1/2	2.078	24.94
1-5/8	2.439	29.27
1-3/4	2.829	33.95
1-13/16	3.034	36.41
1-7/8	3.247	38.96
2	3.695	44.34
2-1/8	4.171	50.05
2-1/4	4.676	56.11
2-1/2	5.773	69.28
2-5/8	6.364	76.37
2-3/4	6.985	83.82
3	8.313	99.76
3-1/4	9.776	117.31
3-1/2	11.315	135.78
3-5/8	12.152	145.28
3-3/4	12.989	155.87



# Aluminum Round

*(Continued)*

6061-T6 Federal Specification QQ-A-225/8

Cold Finished Federal Specifications QQ-A-200/8

Extruded Stock Lengths 12 ft.

Size in Inches	Est. Lbs. per Ft.	Est. Lbs. per Length
4	14.778	177.34
4-1/4	16.683	200.20
4-1/2	18.704	244.45
5	23.070	276.84
5-1/2	27.940	355.28
6	33.251	399.01
6-1/2	39.023	468.28
7	45.258	543.10
7-1/2	51.954	623.45
8	59.112	709.34
9	74.814	897.77
10	92.363	1,108.36



## Aluminum Square

Extruded

6061: AMS QQ-A-200/8, ASTM B221

Stock Lengths 12 ft.

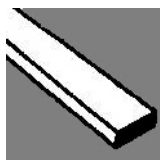
Size in Inches	Approx. Wt. per Ft. in Lbs.	6061 T6511 Extruded
1/4	.0735	x
5/16	.1148	x
3/8	.1656	x
1/2	.2940	x
5/8	.4586	x
3/4	.6595	x
7/8	.8994	x
1	1.176	x
1-1/8	1.489	x
1-1/4	1.838	x
1-1/2	2.646	x
1-3/4	3.598	x
2	4.704	x
2-1/4	5.947	x
2-1/2	7.343	x
2-3/4	8.884	x
3	10.57	x
3-1/2	14.39	x
4	18.80	x
5	29.37	x
6	42.34	x



## Aluminum Square Tube

6063-T52 Extruded  
Stock Lengths 21 ft. and 24 ft.  
\*6061-T6

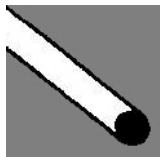
Size in Inches	Wall Thickness	Lbs. per Ft.
3/4	.125	0.368
1	.062	0.280
1	.125	0.516
1-1/4	.125	0.676
1-1/2	.063	0.430
1-1/2	.125	0.810
2	.125	1.103
2	.250	2.037
3	.125	1.691
3	.188	2.540
3	.250	3.201
4	.188	3.440
4*	.250	4.410



## Aluminum Rectangular Tube

6063-T52 Extruded  
Stock Lengths 21 ft. and 24 ft.

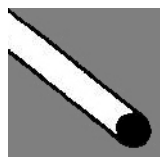
Size in Inches			Wall Thickness	Lbs. per Ft.
2	x	1	.125	0.809
2	x	1-1/2	.125	0.956
3	x	1-1/2	.125	1.237
4	x	2	.125	1.724



## Aluminum Pipe

6063-T52  
Schedule 40  
Stock Lengths 20 ft.

Pipe Size in Inches	O.D. in Inches	I.D in Inches	Avg. Wall Thickness	Est. Lbs. per Ft.
3/4	1.050	.824	.113	0.391
1	1.315	1.049	.113	1.315
1-1/4	1.660	1.380	.140	0.786
1-1/2	1.900	1.610	.145	0.940
2	2.375	2.067	.154	1.264
2-1/2	2.875	2.469	.203	2.004



## Aluminum Pipe

6061-T6  
Schedule 40  
Stock Lengths 20 ft.

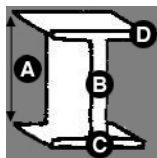
Pipe Size in Inches	O.D. in Inches	I.D in Inches	Avg. Wall Thickness	Est. Lbs. per Ft.
1	1.315	1.049	.113	1.315
1-1/4	1.660	1.380	.140	0.786
1-1/2	1.900	1.610	.145	0.940
2	2.375	2.067	.154	1.264
6	6.625	6.065	.280	6.654

Schedule 80 6063-T52

Pipe Size in Inches	O.D. in Inches	I.D in Inches	Avg. Wall Thickness	Est. Lbs. per Ft.
1-1/2	1.900	1.500	.200	1.256

Schedule 80 6061-T6

Pipe Size in Inches	O.D. in Inches	I.D in Inches	Avg. Wall Thickness	Est. Lbs. per Ft.
2-1/2	2.875	2.323	.276	2.650



# Aluminum I Beam

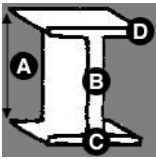
**American Standard**

Grade 6061-T6

ASTM B221

Stock Length: 25 ft.

Dimension		Web Thickness		Flange Width	Flange Thickness	Est. Lbs. per ft.	Est. Lbs. per 25 ft.
A		B		C	D		
3	x	0.170	x	2.33	0.170	1.96	49.10
		0.349	x	2.51	0.170	2.60	64.98
4	x	0.190	x	2.60	0.190	2.65	66.15
		0.326	x	2.80	0.190	3.28	82.02
5	x	0.210	x	3.00	0.210	3.43	85.85
		0.494	x	3.28	0.210	5.10	127.60
6	x	0.230	x	3.33	0.230	4.30	107.60
		0.343	x	3.44	0.230	5.25	131.25
8	x	0.270	x	4.00	0.270	6.35	158.75
		0.532	x	4.26	.270	8.81	220.20
10	x	0.310	x	3.00	0.310	8.76	219.00
12	x	0.350	x	5.00	0.350	10.99	274.80



# Aluminum I Beam

Aluminum Association

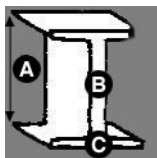
Grade 6061-T6

ASTM B221

Stock Length: 25 ft.

Dimension		Web Thickness		Flange Width	Flange Thickness	Est. Lbs. per Ft.	Est. Lbs. per 25 Ft.
A		B		C	D		
3	x	0.130	x	2.50	0.200	1.64	41.00
		0.150	x	2.50	0.260	2.03	50.75
4	x	0.150	x	3.00	0.230	2.31	57.77
		0.170	x	3.00	0.290	2.79	69.82
5	x	0.190	x	3.50	0.320	3.70	92.50
6	x	0.190	x	4.00	0.290	4.03	100.75
		0.210	X	4.00	0.350	4.69	117.25
7	x	0.230	x	3.00	0.380	5.80	145.00
8	x	0.230	x	5.00	0.350	6.18	154.50
		0.250	x	5.00	0.410	7.02	175.50
10	x	0.250	x	6.00	0.410	8.65	216.25
		0.290	x	6.00	0.500	10.29	257.25
12	x	0.290	x	7.00	0.470	11.67	291.75
		0.310	x	7.00	0.620	14.29	357.25





## Aluminum Wide Flange Beams

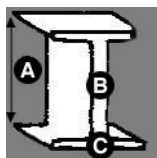
American Standard

Grade 6061-T6

ASTM B221

Stock Length: 25 ft.

Dimension		Web Thickness		Flange Width	Est. Lbs. per Ft.	Est. Lbs. per 25 Ft.
A		B		C		
6	x	0.24	x	6.00	5.40	135.0
8	x	0.23	x	5.25	5.91	147.8
		0.245	x	6.50	8.32	208.0
		0.2880	x	8.00	10.72	268.0



## Aluminum H Beams

American Standard

Grade 6061-T6

ASTM B221

Stock Length: 25 ft.

Dimension		Web Thickness		Flange Width	Est. Lbs. per Ft.	Est. Lbs. per 25 Ft.
A		B		C		
4	x	0.3125	x	4.00	4.76	119.0
5	x	0.3125	x	5.00	6.49	162.3
6	x	0.2500	x	5.94	8.02	200.5

# Notes

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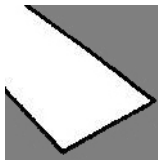
# Guide to Selection

## STAINLESS STEEL

The American Iron and Steel Institute (AISI) has assigned the following designations for stainless steel and are considered industry standards

Type	Tensile Strength	Yield Strength	Characteristics
304	80/90,000	30/40,000	The basic 18-8 chromium-nickel steel. The most widely used of the stainless heat resisting steel, offers good corrosion resistance, formability, readily welded by most common methods. Particularly good corrosion resistance after welding where heat treating is not possible. Hardness and tensile strength increased by cold working.
304L	Slightly lower than straight grade above	Slightly lower than straight grade above	L means extra low carbon, avoids harmful, carbide precipitation following welding or stress relieving. Same corrosion resistance, slightly lower mechanical properties. Low carbon chromium nickel steel.
303	85/95,000	30/40,000	18-8 chromium-nickel steel with addition of selenium or sulphur, phosphorous to improve machinability (rating of 60%, B-1112 rated 100%). Used for parts requiring machining, polishing or grinding. Maximum corrosion resistance in annealed condition, fairly good forming properties, only fair weldability.
316	75/90,000	30/40,000	18-8 chromium-nickel steel with addition of molybdenum for increased corrosion resistance and higher strength at elevated temperatures. Good cold forming and drawing properties make it the choice for many applications. Good weldability.
316L	Slightly lower than straight grade above	Slightly lower than straight grade above	Extra low carbon avoids harmful carbide precipitation following welding or stress relieving. Retains many of the excellent characteristics of T-316.

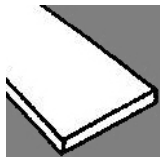
Other grades available: T-310 T-321 T-410 T-416 T-440  
Many sizes are dual certified to Straight/L Grade.



# Stainless Steel Sheet

T304 2B Finished, ASTM A240 T304 Polished  
 T316 & T316L (Low Carbon)  
 2B Finish & #4 Finish (Polished)  
 Cold Rolled and Annealed  
 QQ-S-766, ATSM A-240, MIL-S-5059

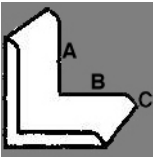
Gauge Thickness	Size in Inches			Est. Lbs. per Sq. Ft.	Est. Lbs. per Sheet
10	48	x	96	5.670	181.44
	48	x	120		226.80
	60	x	120		283.50
11	48	x	96	5.040	161.28
	48	x	120		201.60
12	48	x	96	4.410	141.12
	48	x	120		176.40
	60	x	120		220.50
14	48	x	96	3.150	100.80
	48	x	120		126.00
	60	x	120		157.50
16	48	x	96	2.520	80.64
	48	x	120		100.80
	60	x	120		126.00
18	48	x	96	2.016	64.51
	48	x	120		80.64
20	48	x	96	1.512	48.38
	48	x	120		60.48
22	48	x	96	1.260	40.32
	48	x	120		50.40
24	48	x	96	1.008	32.26
	48	x	120		40.32
26	48	x	96	.756	24.19
	48	x	120		30.24



## Stainless Steel Plate

T304 & T316L (Low Carbon)  
HRA&P, ATSM A240

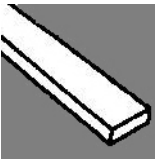
Thickness	Est. Lbs. per Sq. Ft.	Size in Inches			Est. Lbs. per Plate
3/16	8.579	48	x	96	274.53
		48	x	120	343.16
1/4	11.162	48	x	96	357.18
		48	x	120	446.48
3/8	16.496	48	x	96	527.87
		48	x	120	659.84
1/2	21.663	48	x	96	693.52
		48	x	120	866.52
5/8	26.831	48	x	96	858.59
3/4	32.123	48	x	96	1027.60
1	42.665	48	x	120	1706.60
1-1/2	63.34	48	x	120	2533.60



## Stainless Steel Angle

T304, HRA&P, ASTM A276  
Stock Lengths 20/25 ft. Random

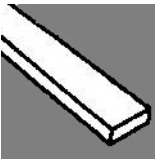
Size in Inches					Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
A		B		C		
3/4	x	3/4	x	1/8	.59	11.80
1	x	1	x	1/8	.80	16.00
				3/16	1.16	23.20
				1/4	1.49	29.80
1-1/4	x	1-1/4	x	1/8	1.01	20.20
				3/16	1.48	29.60
				1/4	1.92	38.40
1-1/2	x	1-1/2	x	1/8	1.23	24.60
				3/16	1.80	36.00
				1/4	2.34	46.80
2	x	2	x	1/8	1.65	33.00
				3/16	2.44	48.80
				1/4	3.19	63.80
				3/8	4.70	94.00
2-1/2	x	2-1/2	x	3/16	3.07	61.40
				1/4	4.10	82.00
				3/8	5.90	118.00
3	x	3	x	1/4	4.90	98.00
				3/8	7.20	144.00
4	x	4	x	1/4	6.60	132.00
				3/8	9.80	196.00



# Stainless Steel Flat

T304, HRA&P, ASTM A240  
 Stock Lengths 12/14 ft. Random

Size in Inches			Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
1/8	x	1/2	.213	2.56
		3/4	.319	3.83
		1	.425	5.10
		1-1/4	.531	6.37
		1-1/2	.638	7.66
		2	.850	10.20
		3	1.280	15.36
		4	1.689	20.26
3/16	x	1/2	.318	3.82
		3/4	.478	5.74
		1	.638	7.66
		1-1/4	.797	9.56
		1-1/2	.957	11.48
		2	1.280	15.36
		2-1/2	1.590	19.08
		3	1.910	22.92
1/4	x	1/2	.425	5.10
		3/4	.638	7.66
		1	.850	10.20
		1-1/4	1.060	12.72
		1-1/2	1.280	15.36
		2	1.700	20.40
		2-1/2	2.130	25.56
		3	2.550	30.60
5/16	x	3	3.190	38.28
		4	3.400	40.80
		6	5.100	61.20
		3	3.190	38.28



## Stainless Steel Flat

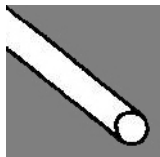
(Continued)

T304, HRA&P, ASTM A240

Stock Lengths 12/14 ft. Random

Size in Inches			Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
3/8	x	1/2	.638	7.66
		1	1.280	15.36
		1-1/2	1.910	22.92
		2	2.550	30.60
		2-1/2	3.190	38.28
		3	3.830	45.96
		3-1/2	4.470	53.64
		4	5.100	61.20
		6	7.650	91.80
1/2	x	1	1.700	20.40
		1-1/2	2.550	30.60
		2	3.400	40.80
		2-1/2	4.250	51.00
		3	5.100	61.20
		4	6.800	81.60
		6	10.200	122.40
		8	13.600	163.20





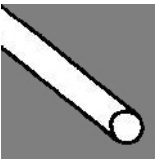
## Stainless Steel Round

T304, 316 ASTM A276

Stock Lengths 12/14 ft. Random

Annealed, Cold Drawn, Centerless Ground or Smooth Turned

Size in Inches	Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
1/8	.042	.50
3/16	.094	1.13
1/4	.167	2.00
5/16	.261	3.13
3/8	.376	4.51
7/16	.511	6.13
1/2	.668	8.02
5/8	1.043	12.52
3/4	1.502	18.02
7/8	2.044	24.53
1	2.670	32.04
1-1/8	3.380	40.56
1-1/4	4.172	50.06
1-3/8	5.049	60.59
1-1/2	6.008	72.10
1-5/8	7.051	84.61
1-3/4	8.178	98.14
1-7/8	9.388	112.66
2	10.681	128.17
2-3/4	20.195	242.34
3	24.033	288.40
3-1/2	32.712	392.54



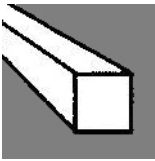
## Stainless Steel Round

T304, ASTM A276

Stock Lengths 12/14 ft. Random

Annealed, Cold Drawn, Centerless Ground or Smooth Turned

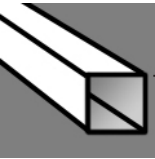
Size in Inches	Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
3/4	1.502	18.02
1	2.670	32.04
1-1/8	3.380	40.56
1-3/16	3.766	45.19
1-1/4	4.172	50.06
1-3/8	5.049	60.59
1-7/16	5.518	66.022
1-1/2	6.008	72.10
1-3/4	8.178	98.14
2	10.681	128.17



## Stainless Steel Square

T303, T304, T316  
Stock Lengths 10/12 ft. Random

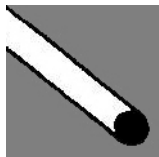
Size in Inches	Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
1/4	.213	2.56
3/8	.478	5.74
1/2	.850	10.20
5/8	1.328	15.96
3/4	1.913	22.92
1	3.400	40.80
1-1/2	7.650	91.80



## Stainless Steel Square Tube

T303, ATSM A554  
Stock Lengths 18/20 ft. Random

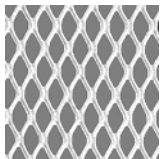
Size in Inches	Gauge	Wall Thickness	Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
3/4	16	.065	.6055	12.11
	16	.065	.8264	16.53
1	12	.109	1.3208	26.42
1-1/4	16	.065	1.0474	20.95
	12	.109	1.6914	33.83
1-1/2	16	.065	1.2685	25.37
	12	.109	2.0620	41.24
2	16	.065	1.7103	34.21
	12	.109	2.8029	56.06
3	7	.180	4.4555	89.11
	11	.120	4.7002	94.00



## Stainless Steel Pipe

ASTM A312, Schedule 40, T304  
Stock Length 20 ft.

Size in Inches	O.D. in Inches	I.D. in Inches	Wall Thickness	Est. Lbs. per Sq. Ft.	Est. Lbs. per Length
3/8	.675	.493	.091	.568	11.36
1/2	.840	.622	.109	.851	17.02
3/4	1.050	.824	.113	1.131	22.62
1	1.315	1.049	.133	1.680	33.60
1-1/4	1.660	1.380	.140	2.273	45.40
1-1/2	1.900	1.610	.145	2.718	54.40
2	2.375	2.067	.154	3.653	73.06
3	3.500	3.068	.216	7.576	151.52
4	4.500	4.026	.237	10.790	215.80
6	6.625	6.065	.280	18.970	379.40



# Stainless Steel Expanded Metal

T304 Flattened

Size Designation			Size in Inches			Est. Lbs. per Sq. Ft.	Approx. Size of Opening in In.		
1/2	x	#18	48	x	96	0.69	.313	x	1.000
	x	#16	48	x	96	0.89	.313	x	1.000
	x	#13	48	x	96	1.78	.250	x	1.000
3/4	x	#13	48	x	96	0.87	.625	x	1.750
	x	#9	48	x	96	1.95	.563	x	1.688

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# Weights & Data

## COMPARISON CHART

### SHEET METAL GAUGES & DECIMAL EQUIVALENTS

Gauge	Hot Rolled Cold Rolled	Galvanized	Stainless	Aluminum Brass
30	.0120	.0157	.0125	.0100
29	.0135	.0172	.0140	.0113
28	.0149	.0187	.0156	.0126
27	.0164	.0202	.0171	.0142
26	.0179	.0217	.0187	.0159
25	.0209	.0247	.0218	.0179
24	.0239	.0276	.0250	.0201
23	.0269	.0306	.0281	.0226
22	.0299	.0336	.0312	.0253
21	.0329	.0366	.0343	.0285
20	.0359	.0396	.0375	.0320
19	.0418	.0456	.0437	.0359
18	.0478	.0516	.0500	.0403
17	.0538	.0575	.0562	.0453
16	.0598	.0598	.0625	.0508
15	.0673	.0710	.0703	.0571
14	.0747	.0785	.0781	.0641
13	.0897	.0934	.0937	.0720
12	.1046	.1084	.1093	.0808
11	.1196	.1233	.1250	.0907
10	.1345	.1382	.1406	.1019
7	.1793	---	.1875	.1443
3	.2391	---	.2500	.2294

# Weights & Data

## FRACTION, DECIMAL & METRIC PARTS OF AN INCH

Inches		Inches		Millimeters
1/64	=	0.015625	=	0.39687
1/32	=	0.031250	=	0.70374
3/64	=	0.046875	=	1.19061
1/16	=	0.062500	=	1.58749
5/64	=	0.078125	=	1.98436
3/32	=	0.093750	=	2.38123
7/64	=	0.109375	=	2.77810
1/8	=	0.125000	=	3.17497
9/64	=	0.140625	=	3.57184
5/32	=	0.156250	=	3.96871
11/64	=	0.171875	=	4.36559
3/16	=	0.187500	=	4.76246
13/64	=	0.203125	=	5.15933
7/32	=	0.218750	=	5.55620
15/64	=	0.234375	=	5.95307
1/4	=	0.250000	=	6.34994
17/64	=	0.265625	=	6.74681
9/32	=	0.281250	=	7.14369
19/64	=	0.296875	=	7.54056
5/16	=	0.312500	=	7.93743
21/64	=	0.328125	=	8.33430
11/32	=	0.343750	=	8.73117
23/64	=	0.359375	=	9.12804
3/8	=	0.375000	=	9.52491
25/64	=	0.390625	=	9.92179
13/32	=	0.406250	=	10.31866
27/64	=	0.421875	=	10.71553
7/16	=	0.437500	=	11.11240
29/64	=	0.453125	=	11.50927
15/32	=	0.468750	=	11.90614
31/64	=	0.484375	=	12.30301
1/2	=	0.500000	=	12.69989
33/64	=	0.515625	=	13.09676
17/32	=	0.531250	=	13.49363
35/64	=	0.546875	=	13.89050
9/16	=	0.562500	=	14.28737
37/64	=	0.578125	=	14.68424
19/32	=	0.593750	=	15.08111



# Weights & Data

## FRACTION, DECIMAL & METRIC (continued) PARTS OF AN INCH

Inches	=	Inches	=	Millimeters
39/64	=	0.609375	=	15.47798
5/8	=	0.625000	=	15.87486
41/64	=	0.640625	=	16.27173
21/32	=	0.656250	=	16.66860
43/64	=	0.671875	=	17.06547
11/16	=	0.687500	=	17.46234
45/64	=	0.703125	=	17.85921
23/32	=	0.718750	=	18.25608
47/64	=	0.734375	=	18.65296
3/4	=	0.750000	=	19.04983
49/64	=	0.765625	=	19.44670
25/32	=	0.781250	=	19.84357
51/64	=	0.796875	=	20.24044
13/16	=	0.812500	=	20.63731
53/64	=	0.828125	=	21.03418
27/32	=	0.843750	=	21.43106
55/64	=	0.859375	=	21.82793
7/8	=	0.875000	=	22.22480
57/64	=	0.890625	=	22.62167
29/32	=	0.906250	=	23.01854
59/64	=	0.921875	=	23.41541
15/16	=	0.937500	=	23.81228
61/64	=	0.953125	=	24.20916
31/32	=	0.968750	=	24.60603
63/64	=	0.984375	=	25.00290
1	=	1.000000	=	25.39977

## DECIMAL INCH EQUIVALENTS OF MILLIMETERS

mm	Dec. of an Inch	mm	Dec. of an Inch	mm	Dec. of an Inch
1	0.03937	10	0.39370	19	0.74803
2	0.07874	11	0.43307	20	0.78740
3	0.11811	12	0.47244	21	0.82677
4	0.15748	13	0.51181	22	0.86614
5	0.19685	14	0.55118	23	0.90551
6	0.23622	15	0.59055	24	0.94488
7	0.27559	16	0.62992	25	0.98425
8	0.31496	17	0.66929	25.4	1.00000
9	0.35433	18	0.70866		

# Weights & Data

## FORMULA FOR WEIGHTS & MEASURES

### **To find the circumference of a circle:**

Multiply the radius by 6.2832, or

Multiply the diameter by 3.1416, or

Multiply the square root of the area by 3.5449

### **To find the radius of a circle:**

Multiply the diameter by .500, or

Multiply the circumference by .15915, or

Multiply the square root of the area by .56419

### **To find the diameter of a circle:**

Multiply the radius by 2.000, or

Multiply the circumference by .31831, or

Multiply the square root of the area by 1.1284

### **To find the area of a circle:**

Multiply the square of the radius by 3.1416, or

Multiply the square of the diameter by .7854, or

Multiply the square of the circumference by .07958

### **To find the area of a hexagon:**

Multiply the square of the distance across by .86603, or

Multiply the area of the inscribed circle by 1.1027

### **To find the area of an octagon:**

Multiply the square of the distance across by .82843, or

Multiply the area of the inscribed circle by 1.0548

### **To find the area of a rectangle:**

Multiply the length by the width

### **To find the area of a triangle:**

Multiply the base by one-half the perpendicular height

# Weights & Data

## METRIC SYSTEM RECOMMENDED UNIT PREFIXES

Multiples & Submultiples	Prefixes	Symbols
10	mega	m
10	kilo	k
10	hecto	h
10	deka	da
	meter/gram/liter	
10	deci	d
10	centi	c
10	milli	m

length = meter(m)    weight = gram(g)    volume = liter(l)

## CONVERSION FACTORS

**Centimeter** = 0.0328084 foot; 0.393701 inch

**Foot** = 0.3048 meter

**Gallon** = 0.1336816 cubic foot; 231 cubic inches  
0.0037854 cubic meter; 3.785306 liters

**Gram** = 0.00220462 pound

**Inch** = 2.54 centimeters

**Kilogram** = 2.204623 pounds

**Kilometer** = 0.621371 mile

**Liter** = 0.264179 gallon

**Meter** = 1.093613 yards; 3.280840 feet; 39.37008 inches

**Mile** = 1.609344 kilometers

**Ounce** = 28.349523 grams

**Pound** = 0.453592 kilogram

**Square Centimeter** = 0.155 square inch

**Square Foot** = 0.09290304 square meter

**Square Inch** = 645.16 square millimeters

**Square Meter** = 10.763910 square feet

**Square Yard** = 0.836127 square meter

**Ton (Short)** = 907.18474 kilograms

**Yard** = 0.9144 meter

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Abrasives • Annular Cutters • Carbide Burs • Core Bits • Cut Off Wheels  
Drill Bits • Grinding Discs • Metal Cloth • Polifan Discs  
Sanding Belts/Discs • Sandpaper • Saw Blades • Wire Wheels

## **ANCHORS**

Expansion Shields • Epoxy • Lag Shields • Plastics • Toggle Bolts  
Sleeves • Drop-Ins • Wedge Anchors • Tapcon • Nail-Ins

## **CONTRACTOR SUPPLIES**

Brooms • Brushes • Caulking • Crayon/Markers • Cleaning Supplies  
Duct Tape • Gloves • Nails • Extension Cords • Grease Guns  
Hand Cleaner • Ladders • Locks • Mason Line • Paint Brushes • Poly  
Pumps • Rags • Tarps • Spray Paint • Staple Guns • Water Coolers  
Gatorade • Welding Supplies • Wheelbarrows • Generators  
Oil Absorbing Compound

## **FASTENERS**

Grade 5 • Grade 8 • Metric • A325 • A490 • Structural Bolts  
Carriage Bolts • Cotter Pins • Drive Pins • Hanger Bolts • Lag Bolts  
Lock Nuts • Machine Screws • Nuts • Pop Rivets • Pins • Loads  
Tapping Screws • Tek Screws • Threaded Rod • Couplers • Washers  
Lock Washers

## **HARDWARE**

Blocks • Sheaves • Chain Links • Eye Bolts • Hooks • Clamps • Rings  
Snaps • Swivels • Shackles • Turnbuckles • Thimbles • Pulleys  
Cable Hoists • Electric Chain • Ratchet Lever

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Adhesives • Anti-Seize • Concrete Mix • Cement • Mortar • Sand  
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# Your Single Source of Supply

## **ORNAMENTAL IRON**

Castings • Caps • Collars • Spears • Brackets • Shoes • Newel Posts  
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Welding Rod • Forged Steel • Gate Latches • Tubing plugs

## **SAFETY**

Aprons & Disposable Clothing • Batteries • Carabiners  
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Lanyard • Lifelines • Respiratory Protection • Retractable  
Roofers Kits • Safety Fence • Safety Gas Cans • Traffic Cones  
Warning Beacons • Warning Vests

## **HAND TOOLS**

Axes • Cutters • Digging/Crow Bars • Chisels • Clamps • Hammers  
Bars • Levels • Picks • Files • Pliers • Punches • Rulers • Saws  
Screwdrivers • Shovels • Snips • Sockets • Tapes • Tool Belts/Pouches  
Laser Levels • Rakes • Tampers • Masonry Tools • Vises • Wedges  
Tap & Die Sets • Pipe Cutters • Tubing Tools • Pipe Threaders • Vises  
• Wrenches

## **POWER TOOLS**

Coordless • Chop Saws • Circular Saws • Cut Off Saws • Drills  
Grinders • Impact Wrenches • Jig Saws • Miter Saws • Shop Vacs  
Magnetic Drill Press • Rotary Hammers • Reciprocating Saws  
Portabands • Sanders • Shears • Worm Drive Saws • Screw Drive Guns

## **TOOL BOXES/TRUCK & VAN EQUIPMENT**

Jobsite Boxes • Hand Tool Boxes • Ladder Racks • Truck Racks  
Saddle Boxes • Truck Side Boxes • Rolling Work Benches  
Van Equipment

# Notes

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