

ALUMINUM INDEX

SHEETS



Flat	Page
1100-H14	154
1100-O	154
2024-T3 Alclad	156
2024-T3 Bare	156
3003-H14	155
3003-O	154
5052-H32	157
5052-O	158
6061-O	158
6061-T4	159
6061-T6	159
Lighting	153

Coiled



1100-H14	152
3003-H14	152
5052-H32	153

EXPANDED METAL 27

GRATING 25

SAFETY PRODUCTS . . . 28-30

PLATES



1100-F	160
2024-T351 Bare	162
3003-F	160
5052-H32	161
6061-O	161
6061-T651	163
7075-T651 Bare	164
Cast Tool & Jig Plate	164
Tread Plate	165

STRUCTURALS



Angles, Beams, Channels,
Tees, Zees 180-183

BARS

Rounds



	Page
2011-T3, T451	166
2017-T4, T451	167
2024-T4, T351	168
4032-T6, T651	171
6061-T6, T651, T6511	169
6063-T5	170
6262-T6511	170
6262-T9	171
7075-T6, T651	167

Hexagons



2011-T3	172
2024-T4, T351	172
6061-T6, T651, T6511	173
6262-T9	173

Squares



2017-T4, T451	174
2024-T4, T351	174
6061-T6511	175
6061-T6511 Manifold Quality	175
6063-T5	174
7075-T651	175

Rectangles



2024-T4, T351	176
6061-T6511	177
6061-T6511 Manifold Quality	178
6063-T5, T52	179
6101-T61 Bus Bar	180
7075-T6, T651	179

WIRE



. 180

TUBING



3003-H14	184
6061-T6	185
6061-T6511	186
6063-T52 Square & Rectangular	188

PIPE 186-188

EXTRUSIONS



Angles	189
Channels	189
Tees	190
Trim Moulding	190
Truck Body Shapes	191
Zeas	190

SHAPE CUTTING 264



**ALUMINUM COILED* SHEET****1100-H14****Mill Finish**

20" I.D. Coils

ASTM B 209 AMS 4003

Chemical Composition and Mechanical Properties, *Pages 237-241*

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Ft.
.050 x 36	.7056	2.117
.063 x 36	.8891	2.667
.090 x 48	1.270	5.080

*Coils can be slit to width, or leveled and cut to length

**ALUMINUM COILED* SHEET****3003-H14****Mill Finish**

20" I.D. Coils

ASTM B 209 AMS 4008

Chemical Composition and Mechanical Properties, *Pages 237-241*

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Ft.	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Ft.
.020 x 36	.2851	.8553	.063 x 36	.8981	2.694
.025 x 48	.3564	1.426	48		3.592
.032 x 36	.4562	1.369	60		4.491
48		1.825	.080 x 36	1.141	3.423
60		2.281	48		4.564
.040 x 36	.5702	1.711	60		5.705
48		2.281	.090 x 36	1.283	3.849
60		2.851	48		5.132
.050 x 36	.7128	2.138	60		6.415
48		2.851	.100 x 48	1.426	5.704
60		3.564	60		7.130
			.125 x 36	1.782	5.346
			48		7.128
			60		8.910

*Coils can be slit to width, or leveled and cut to length

ALUMINUM COILED* SHEET
5052-H32
Mill Finish



20" I.D. Coils

AMS-QQ-A-250/8 ASTM B 209 AMS 4016

Chemical Composition and Mechanical Properties, Pages 237-241

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Ft.
.020 x 36	.2794	.8382
.025 x 36	.3492	1.048
48		1.397
.032 x 36	.4470	1.341
48		1.788
.040 x 36	.5587	1.676
48		2.235
.050 x 36	.6984	2.095
48		2.794
60		3.492
.063 x 36	.8800	2.640
48		3.520
60		4.400
.080 x 36	1.117	3.351
48		4.468
60		5.585
.090 x 36	1.257	3.771
48		5.028
60		6.285
.100 x 36	1.397	4.191
48		5.588
60		6.985
.125 x 36	1.746	5.238
48		6.984
60		8.730

*Coils can be slit to width, or leveled and cut to length

ALUMINUM
SPECULAR LIGHTING SHEET



This lighting sheet is produced from bright-rolled, reflector-quality coiled sheet. It has a guaranteed minimum total reflectivity of 86 percent, along with a high specularity level. Supplied with a strippable vinyl protective coating to protect the anodized surface.

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.025 x 24 x 96	.360	5.76
.032 x 24 x 96	.461	7.38

**ALUMINUM FLAT SHEET****1100-O****Mill Finish**

Paper Interleaved

ASTM B 209

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Yellow with Orange Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.050 x 48 x 144	.7056	33.87

**ALUMINUM FLAT SHEET****1100-H14****Mill Finish**

.125" and Heavier — Paper Interleaved

ASTM B 209

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Yellow with Grey Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.040 x 36 x 96	.5645	13.55
.050 x 36 x 96	.7056	16.93
.063 x 36 x 96	.8891	21.34
.090 x 48 x 144	1.270	60.96
.125 x 48 x 144	1.764	84.67

**ALUMINUM FLAT SHEET****3003-O****Mill Finish**

Paper Interleaved

ASTM B 209

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Pink with Orange Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.040 x 48 x 144	.5702	27.37	.080 x 48 x 144	1.141	54.77
.050 x 48 x 144	.7128	34.21	.090 x 48 x 144	1.283	61.58
.063 x 48 x 144	.8981	43.11	.125 x 48 x 144	1.782	85.54

ALUMINUM FLAT SHEET
3003-H14



Mill Finish

.125" and Heavier — Paper Interleaved
ASTM B 209

Chemical Composition and Mechanical Properties, *Pages 237-241*
Identification Color: Pink with Grey Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.016 x 36 x 120	.2281	6.843	.080 x 60 x 120	1.141	57.05
.020 x 36 x 120	.2851	8.553	60 x 144		68.46
.025 x 48 x 120	.3564	14.26	.090 x 36 x 96	1.283	30.79
48 x 144		17.11	36 x 120		38.49
.032 x 36 x 96	.4562	10.95	36 x 144		46.19
36 x 120		13.69	48 x 96		41.05
36 x 144		16.42	48 x 120		51.32
48 x 96		14.60	48 x 144**		61.58
48 x 120		18.25	60 x 96		51.32
48 x 144		21.90	60 x 120		64.15
60 x 96		18.25	60 x 144		76.98
60 x 120		22.81	.100 x 36 x 96	1.426	34.22
60 x 144		27.37	36 x 120*		42.78
.040 x 36 x 96	.5702	13.68	36 x 144		51.34
36 x 120		17.11	48 x 96		45.63
36 x 144		20.52	48 x 120		57.04
48 x 96		18.25	48 x 144		68.45
48 x 120		22.81	60 x 96*		57.04
48 x 144		27.37	60 x 120*		71.30
60 x 96		22.81	60 x 144*		85.56
60 x 120		28.51	.125 x 36 x 96*	1.782	42.77
60 x 144		34.21	36 x 120*		53.46
.050 x 36 x 96	.7128	17.11	36 x 144*		64.15
36 x 120		21.38	48 x 96*		57.02
36 x 144		25.66	48 x 120*		71.28
48 x 96		22.81	48 x 144*		85.54
48 x 120		28.51	60 x 96*		71.28
48 x 144		34.21	60 x 120*		89.10
60 x 96		28.51	60 x 144*		106.9
60 x 120		35.64	72 x 144*		128.3
60 x 144		42.77	.190 x 36 x 96*	2.709	65.02
.063 x 36 x 96	.8981	21.55	36 x 120*		81.27
36 x 120		26.94	36 x 144*		97.52
36 x 144		32.33	48 x 96*		86.68
48 x 96		28.74	48 x 120*		108.4
48 x 120**		35.92	48 x 144*		130.0
48 x 144**		43.11	60 x 96*		108.4
60 x 96		35.92	60 x 120*		135.5
60 x 120		44.91	60 x 144*		162.5
60 x 144		53.89	.249 x 36 x 96*	3.550	85.20
.080 x 36 x 96	1.141	27.38	36 x 120*		106.5
36 x 120		34.23	36 x 144*		127.8
36 x 144		41.08	48 x 96*		113.6
48 x 96		36.51	48 x 120*		142.0
48 x 120		45.64	48 x 144*		170.4
48 x 144		54.77	60 x 96*		142.0
60 x 96		45.64	60 x 120*		177.5
			60 x 144*		213.0

*Paper interleaved

**Available paper interleaved or not interleaved



ALUMINUM FLAT SHEET
2024-T3 BARE
Mill Finish

Paper Interleaved and Identified

AMS-QQ-A-250/4 ASTM B 209 AMS 4037

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Red with Grey Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.025 x 48 x 144 .....	.3636	17.45
.032 x 48 x 144	.4654	22.34
.050 x 48 x 144	.7272	34.91
.063 x 48 x 144	.9163	43.98
.080 x 48 x 144	1.164	55.87
.090 x 48 x 144	1.309	62.83
.100 x 48 x 144	1.454	69.79
.125 x 48 x 144	1.818	87.26
.160 x 48 x 144	2.327	111.7
.190 x 48 x 144	2.763	132.6



ALUMINUM FLAT SHEET
2024-T3 ALCLAD
Mill Finish

Paper Interleaved and Identified

AMS-QQ-A-250/5 ASTM B 209 AMS 4041

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Red with Purple Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.020 x 48 x 144 .....	.2909	13.96
.025 x 48 x 144	.3636	17.45
.032 x 48 x 144	.4654	22.34
.040 x 48 x 144 .....	.5818	27.93
.050 x 48 x 144	.7272	34.91
.063 x 48 x 144	.9163	43.98

ALUMINUM FLAT SHEET
5052-H32
Mill Finish



.080" and Heavier—Paper Interleaved
 AMS-QQ-A-250/8 ASTM B 209 AMS 4016
 Chemical Composition and Mechanical Properties, Pages 237-241
 Identification Color: White with Purple Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.020 x 36 x 96	.2794	6.706	.090 x 36 x 96*	1.257	30.17
		8.382			37.71
		10.06			45.25
.025 x 36 x 96	.3492	8.381	36 x 120*		40.22
		10.48	36 x 144*		50.28
		12.57	48 x 96*		60.34
.032 x 36 x 96	.4470	11.17	48 x 120*		50.28
		10.73	60 x 96*		62.85
		13.41	60 x 120**		75.42
.040 x 36 x 96	.5587	16.10	60 x 144*		33.53
		14.30	.100 x 36 x 96*	1.397	41.91
		17.88	36 x 120*		49.93
.048 x 96		21.46	36 x 144*		44.38
		17.88	48 x 96*		55.88
		22.35	48 x 120*		67.06
.060 x 96		26.82	48 x 144*		55.88
		13.41	60 x 96*		69.85
		16.76	60 x 120*		83.82
.080 x 36 x 96		20.11	60 x 144*		41.90
		17.88	.125 x 36 x 96*	1.746	52.38
		22.35	36 x 120**		62.86
.080 x 36 x 120		26.82	36 x 144*		55.87
		22.35	48 x 96*		69.84
		27.94	48 x 120*		83.81
.050 x 36 x 96	.6984	33.52	48 x 144*		69.84
		16.76	60 x 96*		87.30
		20.95	60 x 120*		104.8
.050 x 36 x 120		25.14	60 x 144*		125.7
		22.35	.160 x 36 x 96*	2.235	71.52
		27.94	36 x 120*		67.05
.050 x 48 x 96		33.52	36 x 144*		80.46
		27.94	48 x 96*		71.52
		34.92	48 x 120*		89.40
.060 x 96		41.90	48 x 144*		107.3
		27.94	60 x 96*		89.40
		34.92	60 x 120*		111.8
.060 x 120		49.00	60 x 144*		134.1
		21.12	.190 x 36 x 96*	2.654	63.70
		26.40	36 x 120*		79.62
.063 x 36 x 96	.8800	31.68	36 x 144*		95.54
		28.16	48 x 96*		84.93
		35.20	48 x 120*		106.2
.063 x 48 x 96		42.24	48 x 144*		127.4
		35.20	60 x 96*		106.2
		44.00	60 x 120*		132.7
.063 x 60 x 96		52.80	60 x 144*		159.2
		1.117	72 x 144*		191.1
		26.81	.249 x 36 x 96*	3.478	83.47
.080 x 36 x 96*		33.51	36 x 120*		104.3
		40.21	36 x 144*		125.21
		35.74	48 x 96*		111.3
.080 x 36 x 120*		44.68	48 x 120*		139.1
		53.62	48 x 144*		166.9
		44.68	60 x 96*		139.1
.080 x 48 x 96*		55.85	60 x 120*		173.9
		67.02	60 x 144*		208.7

*Paper interleaved
 **Available paper interleaved or not interleaved

**ALUMINUM FLAT SHEET****5052-O****Mill Finish**

Paper Interleaved

AMS-QQ-A-250/8 ASTM B 209 AMS 4015

Chemical Composition and Mechanical Properties, Pages 237-241

Identification Color: White with Orange Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.063 x 48 x 144	.8800	42.24	.125 x 48 x 144	1.746	83.81
.090 x 48 x 144	1.257	60.34	.190 x 48 x 144	2.654	127.4
.125 x 48 x 120	1.746	69.84			

**ALUMINUM FLAT SHEET****6061-O****Mill Finish**

Paper Interleaved

ASTM B 209 AMS 4025

Chemical Composition and Mechanical Properties, Pages 237-241

Identification Color: Blue with Brown Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.040 x 48 x 144	.5645	27.10	.100 x 48 x 144	1.411	67.73
.050 x 48 x 144	.7056	33.87	.125 x 48 x 144	1.764	84.67
.063 x 48 x 144	.8891	42.68	.190 x 48 x 144	2.681	128.7
.080 x 48 x 144	1.129	54.19			

ALUMINUM FLAT SHEET

6061-T4

Mill Finish



Paper Interleaved and Identified

ASTM B 209 AMS 4026

Chemical Composition and Mechanical Properties, Pages 237-241

Identification Color: Blue with Orange Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.032 x 48 x 144	.4516	21.68	.090 x 48 x 144	1.270	60.96
.040 x 48 x 144	.5645	27.10	.100 x 48 x 144	1.411	67.73
.050 x 48 x 144	.7056	33.87	.125 x 48 x 144	1.764	84.67
.063 x 48 x 144	.8891	42.68	.190 x 48 x 144	2.681	128.7
.080 x 48 x 144	1.129	54.19			

ALUMINUM FLAT SHEET

6061-T6

Mill Finish



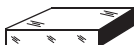
Paper Interleaved and Identified

ASTM B 209 AMS 4027

Chemical Composition and Mechanical Properties, Pages 237-241

Identification Color: Blue with Grey Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Sheet
.032 x 48 x 144	.4516	21.68	.100 x 48 x 144	1.411	67.73
.040 x 48 x 144	.5645	27.10	.125 x 36 x 96	1.764	42.34
.050 x 48 x 144	.7056	33.87	48 x 96		56.45
.063 x 36 x 96	.8891	21.34	48 x 144		84.67
48 x 144		42.68	60 x 144		105.8
60 x 144		53.35	.160 x 48 x 144	2.258	108.4
.080 x 48 x 144	1.129	54.19	.190 x 36 x 96	2.681	64.34
60 x 144		67.74	48 x 144		128.7
.090 x 48 x 144		60.96	60 x 144		160.9
60 x 144		76.20			



ALUMINUM PLATE
1100-F
Mill Finish

Paper Interleaved

ASTM B 209

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Yellow with Brown Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
1/2 x 48 x 144	7.056	338.7



ALUMINUM PLATE
3003-F*
Mill Finish

Paper Interleaved

ASTM B 209

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Pink with Brown Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
3/8 x 48 x 144	5.346	256.6
1/2 x 48 x 144	7.128	342.1

*.249" thick, see page 155

ALUMINUM PLATE 5052-H32*



Mill Finish

Paper Interleaved and Identified

AMS-QQ-A-250/8 ASTM B 209 AMS 4016

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: White with Purple Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
5/16 x 48 x 96	4.365	139.7
3/8 x 48 x 120	5.238	209.5
48 x 144		251.4
1/2 x 48 x 144	6.984	335.2
60 x 120		349.2

*.249" thick, see page 157

ALUMINUM PLATE 6061-O



Mill Finish

Paper Interleaved and Identified

ASTM B 209 AMS 4025

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Blue with Brown Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
1/4 x 48 x 144	3.528	169.3



ALUMINUM PLATE
2024-T351 BARE
Mill Finish

Paper Interleaved and Identified

AMS-QQ-A-250/4 ASTM B 209 AMS 4037

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Red with Grey Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
1/4 x 36¹/₂ x 96¹/₂	3.636	88.94
48¹/₂ x 144¹/₂		177.0
5/16 x 48¹/₂ x 144¹/₂	4.545	221.2
3/8 x 48¹/₂ x 144¹/₂	5.454	265.4
1/2 x 48¹/₂ x 144¹/₂	7.272	353.9
3/4 x 48¹/₂ x 144¹/₂	10.91	531.0
1 x 48¹/₂ x 144¹/₂	14.54	707.6
1¹/₂ x 48¹/₂ x 144¹/₂	21.82	1062
2 x 48¹/₂ x 144¹/₂	29.09	1416
3 x 48¹/₂ x 144¹/₂	43.63	2123

**ALUMINUM PLATE
6061-T651**



Mill Finish

Paper Interleaved and Identified — Sawed Edges
ASTM B 209 AMS 4027

Chemical Composition and Mechanical Properties, *Pages 237-241*
Identification Color: Blue with Purple Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
1/4 x 36¹/₂ x 96¹/₂	3.528	86.30
48¹/₂ x 96¹/₂		114.7
48¹/₂ x 144¹/₂		171.7
60¹/₂ x 144¹/₂		214.2
72¹/₂ x 144¹/₂		256.7
5/16 x 48¹/₂ x 144¹/₂	4.410	214.6
3/8 x 36¹/₂ x 96¹/₂	5.292	129.4
48¹/₂ x 144¹/₂		257.6
60¹/₂ x 144¹/₂		321.3
1/2 x 36¹/₂ x 96¹/₂	7.056	172.6
48¹/₂ x 144¹/₂		343.4
60¹/₂ x 144¹/₂		428.4
5/8 x 48¹/₂ x 96¹/₂	8.820	286.7
48¹/₂ x 144¹/₂		429.3
3/4 x 36¹/₂ x 96¹/₂	10.58	258.8
48¹/₂ x 144¹/₂		514.9
60¹/₂ x 144¹/₂		642.3
1 x 36¹/₂ x 96¹/₂	14.11	345.1
48¹/₂ x 96¹/₂		458.6
48¹/₂ x 144¹/₂		686.7
60¹/₂ x 144¹/₂		856.6
1 1/4 x 48¹/₂ x 144¹/₂	17.64	858.5
60¹/₂ x 144¹/₂		1071
1 1/2 x 48¹/₂ x 144¹/₂	21.17	1030
1 3/4 x 48¹/₂ x 144¹/₂	24.70	1202
2 x 48¹/₂ x 144¹/₂	28.22	1373
2 1/4 x 48¹/₂ x 144¹/₂	31.75	1545
60¹/₂ x 144¹/₂		1928
2 1/2 x 48¹/₂ x 144¹/₂	35.28	1717
2 3/4 x 48¹/₂ x 144¹/₂	38.81	1888
3 x 48¹/₂ x 144¹/₂	42.34	2061
3 1/2 x 48¹/₂ x 144¹/₂	49.39	2404
4 x 48¹/₂ x 144¹/₂	56.45	2747
4 1/2 x 48¹/₂ x 144¹/₂	63.50	3090
5 x 48¹/₂ x 144¹/₂	70.56	3434
6 x 48¹/₂ x 144¹/₂	84.67	4121



ALUMINUM CAST TOOL AND JIG PLATE

Cast, Stress Relieved, and Machined

Vinyl Covered Both Sides and Identified

Both surfaces machined to 25 micro-inches or better. Thickness tolerance is plus or minus .005 in.

Typical uses: stretch-forming dies, rubber pad process form blocks, assembly jigs, locating devices, drill jigs, pattern and core plates, and inspection fixtures.

Mechanical Properties, *Page 241*

Identification Color: Plain Ends

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
1/4 x 48¹/₂ x 96¹/₂	3.636	118.2
3/8 x 48¹/₂ x 96¹/₂	5.454	177.3
1/2 x 48¹/₂ x 96¹/₂	7.272	236.4
48¹/₂ x 144¹/₂		353.9
5/8 x 48¹/₂ x 144¹/₂	9.090	442.4
3/4 x 48¹/₂ x 96¹/₂	10.91	354.6
48¹/₂ x 144¹/₂		531.0
60¹/₂ x 144¹/₂		662.3
1 x 48¹/₂ x 96¹/₂	14.54	472.6
48¹/₂ x 144¹/₂		707.6
1¹/₂ x 48¹/₂ x 144¹/₂	21.82	1061



ALUMINUM PLATE

7075-T651 BARE

Mill Finish

Paper Interleaved and Identified

AMS-QQ-A-250/12 ASTM B 209 AMS 4045

Chemical Composition and Mechanical Properties, *Pages 237-241*

Identification Color: Green with Grey Stripe

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
1/4 x 48¹/₂ x 144¹/₂	3.636	177.0

ALUMINUM TREAD PLATE



Pattern C-102—Length of diamond: $1\frac{3}{16}$ " max.

Width of diamond at center: $1\frac{1}{32}$ " max.

Chemical Composition and Mechanical Properties, *Pages 238-241*

6061-T6

Conforms to ASTM B 632 Pattern B

Identification Color: Blue

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
1/8 x 48 x 192	1.9	121.6
60 x 192		152.0
3/16 x 48 x 192	2.8	179.2
60 x 120		140.0
60 x 192		224.0
1/4 x 48 x 144	3.7	177.6
48 x 192		236.8
60 x 144		222.0
60 x 192		296.0
3/8 x 48 x 192	5.4	345.6
60 x 192		432.0

BRIGHT TREAD PLATE
3003-H22

Identification Color: Pink

Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. per Plate
.072 x 48 x 96	1.2	38.40
48 x 120		48.00
48 x 144		57.60
60 x 96		48.00
60 x 120		60.00
60 x 144		72.00
60 x 192		96.00
.100 x 48 x 96	1.6	51.20
48 x 120		64.00
48 x 144		76.80
60 x 96		64.00
60 x 120		80.00
60 x 144		96.00
1/8 x 48 x 96	1.9	60.80
48 x 120		76.00
48 x 144		91.2
48 x 192		121.6
60 x 96		76.00
60 x 120		95.00
60 x 144		114.0
60 x 192		152.0
3/16 x 48 x 96	2.8	89.60
48 x 120		112.0
48 x 144		134.4
48 x 192		179.2
60 x 96		112.0
60 x 120		140.0
60 x 144		168.0
60 x 192		224.0



ALUMINUM ROUNDS

2011-T3

ASTM B 211

$\frac{1}{2}$ " & Over — Identified
Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241
Identification Color: Brown

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
$\frac{1}{8}$	.0150	.1800	$1\frac{7}{16}$	1.986	23.83
$\frac{5}{32}$	.0235	.2820	$1\frac{1}{2}$	2.163	25.96
$\frac{3}{16}$	.0338	.4056	$1\frac{9}{16}$	2.347	28.16
$\frac{7}{32}$	.0460	.5520	$1\frac{5}{8}$	2.538	30.46
$\frac{1}{4}$ . . . . .	.0601 . . . . .	.7212	$1\frac{11}{16}$	2.738	32.86
$\frac{9}{32}$	.0761	.9132	$1\frac{3}{4}$	2.944	35.33
$\frac{5}{16}$	.0939	1.127	$1\frac{13}{16}$	3.158	37.90
$\frac{11}{32}$	.1136	1.363	$1\frac{7}{8}$	3.380	40.56
$\frac{3}{8}$	.1352	1.622	2	3.845	46.14
$\frac{25}{64}$ . . . . .	.1467	1.760	$2\frac{1}{16}$	4.092	49.10
$\frac{13}{32}$	.1587	1.904	$2\frac{1}{8}$	4.341	52.09
$\frac{7}{16}$	.1840	2.208	$2\frac{1}{4}$	4.867	58.40
$\frac{15}{32}$	.2113	2.536	$2\frac{3}{8}$	5.422	65.06
$\frac{1}{2}$	.2403	2.884	$2\frac{1}{2}$	6.008	72.10
$\frac{17}{32}$	.2714	3.257	$2\frac{9}{16}$	6.312	75.74
$\frac{9}{16}$ . . . . .	.3042	3.650	$2\frac{5}{8}$	6.624	79.49
$\frac{5}{8}$	.3755	4.506	$2\frac{3}{4}$	7.270	87.24
$\frac{21}{32}$	.4141	4.969	3	8.652	103.8
$\frac{11}{16}$	.4544	5.453	$3\frac{1}{8}$	9.388	112.7
$\frac{23}{32}$	.4967	5.960	$3\frac{1}{4}$	10.15	121.8
$\frac{3}{4}$	.5407	6.488	$3\frac{1}{2}$	11.78	141.4
$\frac{25}{32}$ . . . . .	.5868	7.042	$3\frac{3}{4}$ *	13.52	162.2
$\frac{13}{16}$	.6346	7.615	$3\frac{13}{16}\dagger$	13.97	167.6
$\frac{7}{8}$	.7360	8.832	4*	15.38	184.6
$\frac{15}{16}$	.8449	10.14	$4\frac{1}{8}\dagger$	16.36	196.3
1	.9613	11.54	$4\frac{1}{4}\dagger$	17.36	208.3
$1\frac{1}{16}$	1.085	13.02	$4\frac{5}{16}\dagger$	17.88	214.6
$1\frac{1}{8}$	1.217	14.60	$5\frac{1}{16}\dagger$	29.74	356.9
$1\frac{3}{16}$	1.356	16.27			
$1\frac{1}{4}$	1.502	18.02			
$1\frac{5}{16}$	1.656	19.87			
$1\frac{3}{8}$	1.818	21.82			

*Above specifications, chemistry only

†T451 Temper

ALUMINUM ROUNDS

2017-T4 2017-T451



$\frac{5}{8}$ " & Under — 2017-T4

Over $\frac{5}{8}$ " — 2017-T451

AMS-QQ-A-225/5 ASTM B 211

$\frac{1}{2}$ " & Over — Identified

Stock Lengths: 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Yellow

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
$\frac{5}{32}$	.0233	.2796	$\frac{5}{16}$	.0930	1.116	$\frac{5}{8}$	.3718	4.462
$\frac{3}{16}$	.0335	.4020	$\frac{3}{8}$	.1339	1.607	1	.9519	11.42
$\frac{1}{4}$	.0595	.7140	$\frac{1}{2}$	.2380	2.856	1$\frac{1}{8}$	1.205	14.46

ALUMINUM ROUNDS

7075-T6 7075-T651



Under $\frac{3}{4}$ " — 7075-T6

$\frac{3}{4}$ " & Over — 7075-T651

AMS-QQ-A-225/9 ASTM B 211

$\frac{1}{2}$ " & Over — Identified

Stock Lengths: 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Black

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
$\frac{3}{8}$	.1339	1.607	1$\frac{5}{16}$	1.644	19.73	2$\frac{1}{8}$	4.298	51.58
$\frac{7}{16}$	.1822	2.186	1$\frac{3}{8}$	1.800	21.60	2$\frac{1}{4}$	4.819	57.83
$\frac{1}{2}$	.2380	2.856	1$\frac{1}{2}$	2.142	25.70	2$\frac{1}{2}$	5.949	71.39
$\frac{5}{8}$	.3720	4.464	1$\frac{5}{8}$	2.514	30.17	2$\frac{3}{4}$	7.199	86.39
$\frac{3}{4}$	.5354	6.425	1$\frac{3}{4}$	2.915	34.98	3	8.567	102.8
$\frac{7}{8}$	.7288	8.746	1$\frac{7}{8}$	3.347	40.16	3$\frac{1}{2}$	11.66	139.9
1	.9519	11.42	2	3.808	45.70	3$\frac{3}{4}$	13.39	160.7



ALUMINUM ROUNDS

2024-T4 2024-T351

Under $\frac{3}{4}$ " — 2024-T4
 $\frac{3}{4}$ " to 7" Incl. — 2024-T351

AMS-QQ-A-225/6 ASTM B 211

$\frac{1}{2}$ " & Over — Identified

Stock Lengths: Up to $4\frac{5}{8}$ " Inclusive — 12 Ft.

$4\frac{3}{4}$ " and Over — 8 to 12 Ft. Random

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Red

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
$\frac{3}{16}$	.0335	.4020	$2\frac{3}{8}$	5.369	64.43
$\frac{1}{4}$	.0595	.7140	$2\frac{1}{2}$	5.949	71.39
$\frac{5}{16}$	.0930	1.116	$2\frac{9}{16}$	6.251	75.01
$\frac{3}{8}$	.1339	1.607	$2\frac{5}{8}$	6.559	78.71
$\frac{7}{16}$	.1822	2.186	$2\frac{3}{4}$	7.199	86.39
$\frac{1}{2}$	.2380	2.856	$2\frac{7}{8}$	7.868	94.42
$\frac{9}{16}$	.3012	3.614	3	8.567	102.8
$\frac{5}{8}$	.3718	4.462	$3\frac{1}{16}$	8.928	107.1
$\frac{11}{16}$	.4499	5.399	$3\frac{1}{8}$	9.296	111.6
$\frac{3}{4}$	.5354	6.425	$3\frac{1}{4}$	10.05	120.6
$\frac{13}{16}$	.6284	7.541	$3\frac{3}{8}$	10.84	130.1
$\frac{7}{8}$	.7288	8.746	$3\frac{1}{2}$	11.66	139.9
$\frac{15}{16}$	.8366	10.04	$3\frac{9}{16}$	12.08	145.0
1	.9519	11.42	$3\frac{3}{4}$	13.39	160.7
$1\frac{1}{16}$	1.075	12.90	4	15.23	182.8
$1\frac{1}{8}$	1.205	14.46	$4\frac{1}{16}$	15.71	188.5
$1\frac{3}{16}$	1.342	16.10	$4\frac{1}{4}$	17.19	206.3
$1\frac{1}{4}$	1.487	17.84	$4\frac{1}{2}$	19.28	231.4
$1\frac{5}{16}$	1.640	19.68	$4\frac{5}{8}$	20.36	244.3
$1\frac{3}{8}$	1.800	21.60	$4\frac{3}{4}$	21.48	257.8
$1\frac{7}{16}$	1.967	23.60	5	23.80	285.6
$1\frac{1}{2}$	2.142	25.70	$5\frac{1}{8}$	25.00	300.0
$1\frac{9}{16}$	2.324	27.89	$5\frac{1}{4}$	26.24	314.9
$1\frac{5}{8}$	2.514	30.17	$5\frac{1}{2}$	28.80	345.6
$1\frac{3}{4}$	2.915	34.98	6	34.27	411.2
$1\frac{7}{8}$	3.347	40.16	$6\frac{1}{4}$	37.18	446.2
2	3.808	45.70	$6\frac{1}{2}$	40.22	482.6
$2\frac{1}{16}$	4.049	48.59	7	46.64	559.7
$2\frac{1}{8}$	4.298	51.58			
$2\frac{1}{4}$	4.819	57.83			

ALUMINUM ROUNDS
6061-T6 6061-T651



Under 3/4" — 6061-T6 3/4" and Over — 6061-T651

AMS-QQ-A-225/8 ASTM B 211

1/2" & Over — Identified

Stock Lengths: Up to 4 1/2" Incl. — 12 Ft.,

5" & Over — 8-12 Ft. Random

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/8	.0144	.1728	1	.9236	11.08	2 1/8	4.171	50.05
3/16	.0325	.3900	1 1/16	1.043	12.52	2 1/4	4.676	56.11
1/4	.0577	.6924	1 1/8	1.169	14.03	2 3/8	5.210	62.52
5/16	.0902	1.082	1 3/16	1.302	15.62	2 1/2	5.773	69.28
3/8	.1299	1.559	1 1/4	1.443	17.32	2 5/8	6.364	76.37
7/16	.1768	2.122	1 5/16	1.591	19.09	2 3/4	6.985	83.82
1/2	.2309	2.771	1 3/8	1.746	20.95	3	8.312	99.74
9/16	.2922	3.506	1 7/16	1.909	22.91	3 1/4	9.756	117.1
5/8	.3608	4.330	1 1/2	2.078	24.94	3 1/2	11.31	135.7
11/16	.4365	5.238	1 9/16	2.255	27.06	3 3/4	12.99	155.9
3/4	.5195	6.234	1 5/8	2.439	29.27	4	14.78	177.4
13/16	.6097	7.316	1 3/4	2.829	33.95	4 1/2	18.70	224.4
7/8	.7071	8.485	1 7/8	3.247	38.96	5 1/2	27.94	335.3
15/16	.8118	9.742	2	3.694	44.33			

ALUMINUM ROUNDS
6061-T6511 (Extruded)



AMS-QQ-A-200/8 ASTM B 221 Identified

Stock Lengths: Up to 4 5/8" Incl. — 12 Ft.,

4 3/4" & Over — 8-12 Ft. Random

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Standard & Half Standard Tolerance — Pink

Special Tolerance—No Paint

Size in Inches	Lbs. per Ft.	Std. Tol.	Half Std. Tol.	Special Tol.*	Size in Inches	Lbs. per Ft.	Std. Tol.	Half Std. Tol.	Special Tol.*
1/4	.0577	..	±.005	..	2 5/8	6.364	..	±.008	±.008
5/16	.0902	..	±.005	..	2 3/4	6.985	..	±.008	±.008
3/8	.1299	..	±.005	±.0025	2 7/8	7.635	..	±.008	±.008
7/16	.1768	..	±.005	..	3	8.312	..	±.008	±.008
1/2	.2309	..	±.005	±.003	3 1/8	9.019	..	±.012	..
9/16	.2922	..	±.005	..	3 1/4	9.756	..	±.012	..
5/8	.3608	..	±.005	±.003	3 3/8	10.52	..	±.012	..
11/16	.4365	..	±.005	±.003	3 1/2	11.31	..	±.012	..
3/4	.5195	..	±.005	±.003	3 5/8	12.14	..	±.012	..
13/16	.6097	..	±.005	±.003	3 3/4	12.99	..	±.012	..
7/8	.7071	..	±.005	±.003	4	14.78	..	±.017	..
15/16	.8118	..	±.005	±.003	4 1/8	15.24	..	±.017	..
1	.9236	..	±.005	±.003	4 1/4	16.68	..	±.017	..
1 1/16	1.043	..	±.006	±.004	4 1/2	18.70	..	±.017	..
1 1/8	1.169	..	±.006	..	4 5/8	19.76	..	±.017	..
1 3/16	1.302	..	±.006	±.004	4 3/4	20.84	..	±.017	..
1 1/4	1.443	..	±.006	±.004	5	23.09	..	±.017	..
1 5/16	1.591	..	±.006	±.004	5 1/4	25.46	..	±.022	..
1 3/8	1.746	..	±.006	±.004	5 1/2	27.94	..	±.022	..
1 7/16	1.909	..	±.006	±.004	5 3/4	30.54	..	±.022	..
1 1/2	2.078	..	±.006	±.004	6	33.25	..	±.022	..
1 9/16	2.255	..	±.006	..	6 1/4	36.08	..	±.022	..
1 5/8	2.439	..	±.006	±.005	6 1/2	39.02	..	±.022	..
1 11/16	2.630	..	..	±.005	6 3/4	42.08	±.044	..	..
1 3/4	2.829	..	±.006	±.005	7	45.26	±.044	..	..
1 13/16	3.034	..	±.006	±.005	7 1/2	51.96	±.044	..	..
1 7/8	3.247	..	±.006	±.005	8	59.11	±.054	..	..
2	3.694	..	±.008	±.005	8 1/2	66.73	±.054	..	..
2 1/8	4.171	..	±.008	±.008	9†	74.81	±.054	..	..
2 1/4	4.676	..	±.008	±.008	10, 13†	94.78	±.074	..	..
2 3/8	5.210	..	±.008	±.008	11†	111.8	±.074	..	..
2 1/2	5.773	..	±.008	±.008	12†	133.0	±.084	..	..

*Also Special Straightness

†6061-T6 Extruded



ALUMINUM ROUNDS 6063-T5 (Extruded)

ASTM B 221

Not Identified

Stock Lengths 16 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Purple

Size in Inches	Lbs. per Ft.	Est. Lbs. 16' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 16' Bar
1/2	.2286	3.658	3/4	.5142	8.227
5/8	.3571	5.714	1	.9142	14.63



ALUMINUM ROUNDS 6262-T6511 (Extruded)

ASTM B 221 *

Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: White

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/2	.2309	2.771	1 7/16	1.908	22.90
9/16	.2922	3.506	1 1/2	2.078	24.94
5/8	.3608	4.330	1 5/8	2.439	29.27
11/16	.4365	5.238	1 3/4	2.829	33.95
3/4	.5195	6.234	1 13/16	3.034	36.41
13/16	.6097	7.316	1 7/8	3.247	38.96
7/8	.7071	8.485	2	3.694	44.33
15/16	.8118	9.742	2 1/8	4.171	50.05
1	.9236	11.08	2 1/4	4.676	56.11
1 1/16	1.043	12.52	2 3/8	5.210	62.52
1 1/8	1.169	14.03	2 1/2	5.773	69.28
1 3/16	1.296	15.55	2 3/4	6.985	83.82
1 1/4	1.443	17.32	3	8.312	99.74
1 5/16	1.591	19.09			
1 3/8	1.746	20.95			

*Tolerances are half of standard

ALUMINUM ROUNDS

SCREW MACHINE STOCK

6262-T9*

ASTM B 211

1/2" & Over — Identified

Stock Lengths 12 Ft.

Chemical Composition, Page 238 Mechanical Properties, Page 241

Identification Color: Orange



Size in Inches	Lbs. per Ft.	Est lbs 12' Bar	Size in Inches	Lbs. per Ft.	Est lbs 12' Bar
1/4	.0577	.6924	1 1/8	1.169	14.03
5/16	.0902	1.082	1 3/16	1.296	15.55
3/8	.1299	1.559	1 1/4	1.443	17.32
7/16	.1768	2.122	1 5/16	1.591	19.09
1/2	.2309	2.771	1 3/8	1.746	20.95
9/16	.2922	3.506	1 1/2	2.078	24.94
5/8	.3608	4.330	1 9/16	2.256	27.07
11/16	.4365	5.238	1 5/8	2.439	29.27
3/4	.5195	6.234	1 3/4	2.829	33.95
13/16	.6097	7.316	1 7/8	3.247	38.96
7/8	.7071	8.485	2	3.694	44.33
15/16	.8118	9.742	2 3/8	5.210	62.52
1	.9236	11.08	2 1/2	5.773	69.28
1 1/16	1.043	12.52	2 3/4	6.985	83.82
			3	8.312	99.74

*6262-T6511, see page 170

ALUMINUM ROUNDS

4032-T6 4032-T651

Under 7/8" — 4032-T6

7/8" & Over — 4032-T651

Identified

Stock Lengths: 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Orange and White



Size in Inches	Lbs. per Ft.	Est lbs 12' Bar	Size in Inches	Lbs. per Ft.	Est lbs 12' Bar
1/2	.228	2.736	1	.911	10.93
5/8	.356	4.272	1 1/8	1.153	13.84
11/16	.454	5.453	2	3.694	44.33
7/8	.698	8.376			



ALUMINUM HEXAGONS

SCREW MACHINE STOCK

2011-T3

ASTM B 211

$\frac{1}{2}$ " & Over — Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Brown

Size in Inches	Lbs. per Ft.	Est lbs 12' Bar	Size in Inches	Lbs. per Ft.	Est lbs 12' Bar
$\frac{1}{4}$	.0663	.7956	$\frac{7}{8}$	.8116	9.739
$\frac{5}{16}$	.1035	1.242	$\frac{15}{16}$	.9316	11.18
$\frac{3}{8}$	.1491	1.789	1	1.060	12.72
$\frac{7}{16}$	.2029	2.435	1$\frac{1}{8}$	1.342	16.10
$\frac{1}{2}$	.2650	3.180	1$\frac{1}{4}$	1.656	19.87
$\frac{9}{16}$	.3354	4.025	1$\frac{3}{8}$	2.004	24.05
$\frac{5}{8}$	.4141	4.969	1$\frac{1}{2}$	2.385	28.62
$\frac{3}{4}$	.5963	7.156	1$\frac{3}{4}$	3.246	38.95
$\frac{13}{16}$	.6998	8.398			



ALUMINUM HEXAGONS

SCREW MACHINE STOCK

2024-T4 2024-T351

Under $\frac{5}{8}$ " — 2024-T4

$\frac{5}{8}$ " & Over — 2024-T351

AMS-QQ-A-225/6 ASTM B 211

$\frac{1}{2}$ " & Over — Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Red

Size in Inches	Lbs. per Ft.	Est lbs 12' Bar	Size in Inches	Lbs. per Ft.	Est lbs 12' Bar
$\frac{3}{16}$	.0369	.4428	$\frac{13}{16}$	.6850	8.220
$\frac{1}{4}$	.0656	.7872	$\frac{7}{8}$	.8036	9.643
$\frac{3}{8}$	.1476	1.771	1	1.050	12.60
$\frac{7}{16}$	.2009	2.411	1$\frac{1}{8}$	1.328	15.94
$\frac{1}{2}$	.2624	3.149	1$\frac{1}{4}$	1.640	19.68
$\frac{9}{16}$	.3321	3.985	1$\frac{3}{8}$	1.984	23.81
$\frac{5}{8}$	.4100	4.920			

ALUMINUM HEXAGONS

SCREW MACHINE STOCK

6061-T6 6061-T651

Under 5/8" — 6061-T6

5/8" & Over — 6061-T651

AMS-QQ-A-225/8 ASTM B 211

1/2" & Over — Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue



Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/4	.0637	.7644	5/8	.3978	4.774
3/8	.1432	1.718	1 1/8	1.289	15.47

ALUMINUM HEXAGONS

6061-T6511 (Extruded)

AMS-QQ-A-200/8 ASTM B 221

Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Pink



Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/2 (±.005)	.2546	3.055	1 1/8 (±.006)	1.289	15.47
5/8 (±.005)	.3978	4.774	1 1/4 (±.006)	1.591	19.09
11/16 (±.005)	.481	5.772	1 3/8 (±.006)	1.925	23.10
3/4 (±.005)	.5729	6.875	1 1/2 (±.007)	2.291	27.49
7/8 (±.005)	.779	9.348	1 3/4 (±.007)	3.119	37.43
1 (±.006)	1.018	12.22	2 (±.008)	4.074	48.89

ALUMINUM HEXAGONS

SCREW MACHINE STOCK

6262-T9

ASTM B 211

Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Orange



Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
3/4	.5729	6.875	1	1.018	12.22
13/16	.6723	8.068			



ALUMINUM SQUARES 2017-T4 2017-T451

Under 1/2" — 2017-T4
1/2" & Over — 2017-T451
AMS-QQ-A-225/5 ASTM B 211
1/2" & Over — Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, *Pages 238-241*
Identification Color: Yellow

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
3/8	.1704	2.045	1 1/2	2.727	32.72



ALUMINUM SQUARES 2024-T4 2024-T351

Under 1/2" — 2024-T4
1/2" & Over — 2024-T351
AMS-QQ-A-225/6 ASTM B 211
1/2" & Over — Identified

Stock Lengths: Up to 2" Inclusive — 12 Ft.

Over 2" — 8 to 12 Ft. Random

Chemical Composition and Mechanical Properties, *Pages 238-241*
Identification Color: Red

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/4	.0758	.9096	1 3/4	3.712	44.54
3/8	.1704	2.045	2	4.848	58.18
1/2	.3030	3.636	2 1/4	6.136	73.63
5/8	.4734	5.681	2 1/2	7.575	90.90
3/4	.6818	8.182	2 3/4	9.166	110.0
7/8	.9279	11.13	3	10.91	130.9
1	1.212	14.54	3 1/4	12.80	153.6
1 1/8	1.534	18.41	3 1/2	14.85	178.2
1 1/4	1.894	22.73	4	19.39	232.7
1 1/2	2.727	32.72	5	29.40	352.8



ALUMINUM SQUARES 6063-T5 (Extruded)

ASTM B 221

Not Identified

Stock Lengths 16 Ft.

Chemical Composition and Mechanical Properties, *Pages 238-241*
Identification Color: Purple

Size in Inches	Lbs. per Ft.	Est. Lbs. 16' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 16' Bar
3/8*	.1637	2.619	1	1.164	18.62
1/2	.2910	4.656	1 1/4**	1.819	29.10
5/8	.4547	7.275	2**	4.656	74.50
3/4	.6548	10.48			

*6063-T52

**Above specifications, chemistry only

ALUMINUM SQUARES
6061-T6511 (Extruded)



AMS-QQ-A-200/8 ASTM B 221
Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/2	.2940	3.528	1 3/4	3.600	43.20
5/8	.4600	5.508	2	4.704	56.45
3/4	.6615	7.938	2 1/2	7.350	88.20
7/8	.9010	10.81	2 3/4	8.893	106.72
1	1.176	14.11	3	10.58	127.0
1 1/4	1.838	22.06	3 1/2	14.41	172.9
1 1/2	2.646	31.75	4	18.82	225.8
1 5/8	3.108	37.30	5 1/2	35.57	426.8

ALUMINUM SQUARES
6061-T6511 (Extruded)
MANIFOLD QUALITY



Elevated Mechanical Properties
Special Tolerance

1/2 Commercial Size to Oversize Thickness and Width

AMS-QQ-A-200/8 ASTM B 221
Identified Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Plain Ends

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
2 (+.024)	4.761	57.13	4 (+.034)	18.98	227.8
2 1/4 (+.024)	6.017	72.20	4 1/2 (+.034)	23.99	287.9
2 1/2 (+.024)	7.421	89.05	5 (+.034)	29.60	355.2
3 (+.024)	10.67	128.0	5 1/2 (+.034)	35.79	429.5
3 1/2 (+.024)	14.50	174.0	6 (+.044)	42.65	511.8

ALUMINUM SQUARES
7075-T651



AMS-QQ-A-225/9 ASTM B 211
Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Black

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
3/4	.6818	8.182	1 3/4	3.712	44.54
1	1.212	14.54			



ALUMINUM RECTANGLES

2024-T4 2024-T351

Under 1/2" Thick—2024-T4

1/2" Thick & Over—2024-T351

AMS-QQ-A-225/6 ASTM B 211

Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Red

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/8 x 3/4	.1136	1.363	5/8 x 3/4	.5681	6.817
1	.1515	1.818	7/8	.6628	7.954
1 1/4	.1894	2.273	1	.7575	9.090
3/16 x 1/2	.1136	1.363	1 1/4	.9469	11.36
5/8	.1420	1.704	1 1/2	1.136	13.63
3/4	.1704	2.045	2	1.515	18.18
1	.2273	2.728	3/4 x 1	.9090	10.91
1 1/2	.3409	4.091	1 1/4	1.136	13.63
2	.4545	5.454	1 1/2	1.364	16.37
1/4 x 1/2	.1515	1.818	1 3/4	1.591	19.09
5/8	.1894	2.273	2	1.818	21.82
3/4	.2273	2.728	2 1/2	2.273	27.28
7/8	.2651	3.181	3	2.727	32.72
1	.3030	3.636	3 1/2	3.182	38.18
1 1/4	.3788	4.546	4	3.636	43.63
1 1/2	.4545	5.454	1 x 1 1/4	1.515	18.18
2	.6060	7.272	1 1/2	1.818	21.82
3	.9090	10.91	1 3/4	2.121	25.45
4	1.212	14.54	2	2.424	29.09
5/16 x 5/8	.2367	2.840	2 1/2	3.030	36.36
3/4	.2841	3.409	3	3.636	43.63
2	.7575	9.090	4*	4.848	58.18
3/8 x 3/4	.3409	4.091	5*	6.060	72.72
1	.4545	5.454	6*	7.272	87.26
1 1/2	.6818	8.182	1 1/4 x 1 1/2	2.273	27.28
2	.9090	10.91	2	3.030	36.36
2 1/2	1.136	13.63	2 1/2	3.788	45.46
3	1.364	16.37	3*	4.545	54.54
4	1.818	21.82	3 1/2*	5.303	63.64
6	2.727	32.72	1 1/2 x 2	3.636	43.63
1/2 x 5/8	.3788	4.546	2 1/2*	4.545	54.54
3/4	.4545	5.454	3*	5.454	65.45
7/8	.5303	6.364	4*	7.272	87.26
1	.6060	7.272	6*	10.91	130.9
1 1/4	.7575	9.090	1 3/4 x 3*	6.360	76.32
1 1/2	.9090	10.91	2 x 2 1/4*	5.454	65.45
1 3/4	1.061	12.73	2 1/2*	6.060	72.72
2	1.212	14.54	3 1/2*	8.484	101.8
2 1/2	1.515	18.18	4*	9.696	116.4
3	1.818	21.82	5*	12.00	144.0
4	2.424	29.09	6*	14.54	174.5
6	3.636	43.63	2 1/4 x 4*	10.91	130.9
			2 1/2 x 3*	9.090	109.1
			4*	12.12	145.4
			5*	15.15	181.8
			3 x 5*	18.18	218.2
			6*	21.82	261.8
			4 x 5	24.24	290.9
			6	29.09	349.1

*8 to 12 ft. random lengths

ALUMINUM RECTANGLES
6061-T6511 (Extruded)



AMS-QQ-A-200/8 ASTM B 221

Identified

Stock Lengths 12 Ft. (Sharp Corners)

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue

Size in Inches	Lbs. per Ft.	Size in Inches	Lbs. per Ft.	Size in Inches	Lbs. per Ft.
1/8 x 3/4	.1103	1/2 x 2 1/2	1.470	1 1/4 4	5.880
1	.1470	3	1.764	4 1/2	6.615
1 1/4	.1838	3 1/2	2.058	5 1/2	8.085
1 1/2	.2205	4	2.352	6	8.820
2	.2940	4 1/2	2.646	1 1/2 x 1 3/4	3.087
3/16 x 3/4	.1654	5	2.940	2	3.528
1	.2205	6	3.528	2 1/2	4.410
1 1/4	.2756	7	4.116	3	5.292
1 1/2	.3308	8	4.704	3 1/2	6.174
2	.4410	10	5.880	4	7.056
3	.6615	12	7.056	5	8.820
1/4 x 1/2	.1470	14	8.232	5 1/2	9.702
3/4	.2205	5/8 x 1	.7350	6	10.58
1	.2940	1 1/4	.9180	6 1/2	11.47
1 1/4	.3675	1 1/2	1.103	8	14.11
1 1/2	.4410	2	1.470	8 1/2	14.99
2	.5880	2 1/2	1.838	12	21.17
2 1/2	.7350	3	2.205	1 5/8 x 2	3.828
3	.8820	4	2.940	1 3/4 x 3 1/2	7.203
3 1/2	1.032	6	4.410	3 3/4	7.718
4	1.176	3/4 x 1	.8820	4 1/2	9.261
4 1/2	1.320	1 1/4	1.103	5 1/2	11.32
5	1.470	1 1/2	1.323	2 x 2 1/2	5.880
6	1.764	1 3/4	1.544	3	7.056
8	2.352	2	1.764	3 1/2	8.232
10	2.940	2 1/2	2.205	4	9.408
12	3.528	3	2.646	4 1/2	10.58
14	4.116	3 1/2	3.087	5	11.76
5/16 x 3/4	.2756	4	3.528	6 1/2	15.29
1	.3675	5	4.416	7	16.46
1 1/2	.5513	6	5.292	8	18.82
2	.7350	8	7.056	2 1/4 x 4	10.58
2 1/2	.9188	10	8.820	2 1/2 x 2 5/8	7.718
3	1.103	12	10.58	3	8.820
3/8 x 1/2	.2205	14	12.35	3 1/4	9.555
3/4	.3308	1 x 1 1/4	1.470	3 1/2	10.29
1	.4410	1 1/2	1.764	4	11.76
1 1/4	.5513	1 3/4	2.058	4 1/2	13.23
1 1/2	.6615	2	2.352	5	14.70
1 3/4	.7680	2 1/2	2.940	5 1/2	16.17
2	.8820	3	3.528	6	17.64
2 1/2	1.103	3 1/2	4.116	3 x 4	14.11
3	1.323	4	4.704	4 1/2	15.87
4	1.764	5	5.880	5	17.64
5	2.205	6	7.056	3 1/2 x 4	16.46
6	2.646	8	9.408	4 1/2	18.52
8	3.628	10	11.76	5	20.58
10	4.410	12	14.11	6	24.70
12	5.292	1 1/4 x 1 1/2	2.205	4 x 4 1/2	21.17
1/2 x 3/4	.4410	1 3/4	2.573	6	28.22
1	.5880	2	2.940	4 1/2 x 5	26.46
1 1/4	.7320	2 1/2	3.675	5 x 5 1/2	32.34
1 1/2	.8820	3	4.410	7	41.16
1 3/4	1.029	3 1/2	5.145		
2	1.176	3 3/4	5.513		



ALUMINUM RECTANGLES 6061-T6511 (Extruded) MANIFOLD QUALITY

Elevated Mechanical Properties
Special Tolerance

1/2 Commercial Size to Oversize Thickness and Width

AMS-QQ-A-200/8 ASTM B 221
Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241
Identification Color: Plain Ends

	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	
1	(+.012) x 1 ¹ / ₂ (+.014)	1.782	21.39	
	2 (+.024)	2.380	28.56	
	3 ¹ / ₂ (+.024)	4.155	49.86	
1 ¹ / ₄ (+.012) x	2 ¹ / ₂ (+.024)	3.710	44.52	
	5 (+.034)	7.35	88.20	
1 ¹ / ₂ (+.014) x	2 (+.024)	3.566	42.79	
	3 (+.024)	5.338	64.06	
	4 (+.034)	7.119	85.43	
2 (+.024) x	2 ¹ / ₂ (+.024)	5.944	71.32	
	3 (+.024)	7.127	85.52	
	3 ¹ / ₂ (+.024)	8.310	99.72	
	4 (+.034)	9.505	114.1	
	5 (+.034)	11.76	141.1	
	6 (+.044)	14.25	171.0	
2 ¹ / ₂ (+.024) x	3 (+.024)	8.898	106.8	
	3 ¹ / ₄ (+.024)	9.666	116.0	
	3 ¹ / ₂ (+.024)	10.37	124.4	
	4 (+.034)	11.87	142.4	
	4 ¹ / ₂ (+.034)	13.34	160.1	
	5 (+.034)	14.82	177.8	
	6 (+.044)	17.79	213.5	
3 (+.024) x	3 ¹ / ₂ (+.024)	12.44	149.3	
	4 (+.034)	14.23	170.8	
	4 ¹ / ₂ (+.034)	16.00	192.0	
	5 (+.034)	17.77	213.2	
	6 (+.044)	21.33	256.0	
	3 ¹ / ₂ (+.024) x	4 (+.034)	16.59	199.1
4 (+.034) x	4 ¹ / ₂ (+.034)	18.66	223.9	
	5 (+.034)	20.72	248.6	
	4 ¹ / ₂ (+.034) x	4 ¹ / ₂ (+.034)	21.34	256.1
	5 (+.034)	23.70	284.4	
	6 (+.044)	28.45	341.4	
	7 (+.044)	33.17	398.0	
	4 ¹ / ₂ (+.034) x	5 (+.034)	26.65	319.8
5 (+.034) x	5 ¹ / ₂ * (+.034)	29.31	351.7	
	6 (+.044)	31.99	383.9	
	6 (+.044) x	6 (+.044)	36.61	439.3
	7 (+.044)	41.43	497.2	
	8 ** (+.054)	47.36	568.3	
6 (+.044) x	6 ¹ / ₂ (+.044)	46.29	555.5	
	7 (+.044)	49.73	596.8	

*146" length

**147" length

ALUMINUM RECTANGLES
6063-T5 6063-T52 (Extruded)



Under 1/2" Thick—6063-T52

1/2" Thick & Over—6063-T5

ASTM B 221

Not Identified

Stock Lengths 16 Ft.

Chemical Composition and Mechanical Properties, *Pages 238-241*

Identification Color: Purple

Size in Inches	Lbs. per Ft.	Est. Lbs. 16' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 16' Bar			
1/8 x 1/2	.0728	1.165	1/4 x 2	.5820	9.312			
	.0909	1.454		2 1/2	.7275	11.64		
	.1091	1.746		3	.8730	13.97		
	1	.1455		2.328	3 1/2	1.018	16.29	
	1 1/4	.1819		2.910	4	1.164	18.62	
	1 1/2	.2183		3.493	3/8 x 5/8	.2728	4.365	
	1 3/4	.2546		4.074		3/4	.3274	5.238
	2	.2910		4.656		1	.4365	6.984
3/16 x 1/2	.1091	1.746	1 1/4	.5456		8.730		
	.1637	2.619	1 1/2	.6548		10.48		
	1	.2183	3.493	2		.8730	13.97	
	1 1/4	.2728	4.365	3		1.310	20.96	
	1 1/2	.3274	5.238	1/2 x 3/4		.4365	6.984	
	2	.4365	6.984		1	.5820	9.312	
	2 1/2	.5456	8.730		1 1/2	.8730	13.97	
	3	.6565	10.50		2	1.164	18.62	
1/4 x 1/2	.1455	2.328	2 1/2		1.455	23.28		
	.1819	2.910	3		1.746	27.94		
	.2183	3.493	3/4 x 1 1/2		1.310	20.96		
	1	.2910			4.656	2	1.746	27.94
	1 1/4	.3638		5.821	1 x 1 1/2	1.746	27.94	
	1 1/2	.4365		6.984		2	2.328	37.25
	1 3/4	.5093		8.149				

ALUMINUM RECTANGLES
7075-T6 7075-T651



Under 1/2" Thick—7075-T6

1/2" Thick & Over—7075-T651

AMS-QQ-A-225/9 ASTM B 211

Identified

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, *Pages 238-241*

Identification Color: Black

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar	
3/8 x 1	.4545	5.454	1 x 4*	4.848	58.18	
1 x 1 3/4	2.121	25.45		1 1/4 x 3*	4.545	54.54
	2	2.424		29.09	1 1/2 x 4*	7.272

*8 to 12 ft. random lengths



ALUMINUM BUS BARS 6101-T61 (Extruded)

ASTM B 317 Type B

Not Identified

Stock Lengths 20 Ft. ($1/16$ " Radius on Corners)

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Pink

Size in Inches	Lbs. per Ft.	Est. Lbs. 20' Bar
1/4 x 2	.5820	11.64
3	.8730	17.46
4	1.164	23.28
6	1.746	34.92



ALUMINUM ROUND WIRE IN COILS

Coil Sizes

.100" and Under — 60 lb. cwc

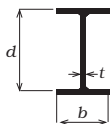
.101" and Larger — 120 lb. cwc

1100-O

ASTM B 211

Chemical Composition and Mechanical Properties, Pages 238-241

Size in Inches	Lbs. per Ft.
.051	.0024
.064	.0038
.081 .....	.0061
.102	.0096
.125 .....	.0144



ALUMINUM BEAMS AMERICAN STANDARD WIDE FLANGE 6061-T6 (Extruded)

AMS-QQ-A-200/8 (Except for Marking)

ASTM B 221 ASTM B 308

Identified

Stock Lengths 25 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue

Depth <i>d</i> In.		Flange <i>b</i> In.	Web <i>t</i> In.	Lbs. per Ft.
4	x	4*	.313	4.758
5	x	5*	.313	6.444
6	x	4	.230	4.161
6	x	6	.240	5.401
8	x	8	.288	10.73

*H Beam

ALUMINUM ANGLES
AMERICAN STANDARD
6061-T6 (Extruded)*



AMS-QQ-A-200/8 (Except for Marking)

ASTM B 221 ASTM B 308

Identified

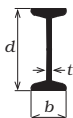
Stock Lengths 25 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue

Size in Inches	t	Lbs. per Ft.	Size in Inches	t	Lbs. per Ft.
3/4 x 3/4 x 1/8		.2011	2 1/2 x 2 1/2 x 5/16		1.729
1 x 1 x 1/8		.2752		3/8	2.047
	3/16	.3998	3 x 2 x 3/16		1.071
	1/4	.5139		1/4	1.403
1 1/4 x 1 1/4 x 1/8		.3434		3/8	2.047
	3/16	.5104	3 x 2 1/2 x 1/4		1.537
	1/4	.6562	3 x 3 x 3/16		1.275
1 1/2 x 1 1/4 x 1/8		.3869		1/4	1.684
	3/16	.5657		5/16	2.082
	1/4	.7338		3/8	2.550
1 1/2 x 1 1/2 x 1/8		.4234		1/2	3.227
	3/16	.6221	3 1/2 x 2 1/2 x 1/4		1.684
	1/4	.8091		3/8	2.474
1 3/4 x 1 1/4 x 3/16		.6209	3 1/2 x 3 1/2 x 1/4		1.989
	1/4	.8091		5/16	2.461
1 3/4 x 1 3/4 x 3/16		.7315	4 x 3 x 1/4		1.989
	1/4	.9561		3/8	2.926
2 x 1 1/2 x 1/8		.4963	4 x 4 x 1/4		2.283
	3/16	.7315		3/8	3.366
	1/4	.9561		1/2	4.414
2 x 2 x 1/8		.5774	5 x 3 x 3/8		3.349
	3/16	.8502	5 x 3 1/2 x 1/2		4.704
	1/4	1.110	5 x 5 x 3/8		4.237
	3/8	1.606		1/2	5.578
2 1/2 x 2 x 3/16		.9608	6 x 3 1/2 x 3/8		4.038
	1/4	1.257	6 x 4 x 3/8		4.237
2 1/2 x 2 1/2 x 3/16		1.070		1/2	5.578
	1/4	1.404	6 x 6 x 3/8		5.120
				1/2	6.754
			8 x 8 x 1/2		9.141

*For Architectural Angles, see page 189



ALUMINUM I BEAMS

AMERICAN STANDARD

6061-T6 (Extruded)

AMS-QQ-A-200/8 (Except for Marking)

ASTM B 221 ASTM B 308

Identified

Stock Lengths 25 Ft.

Chemical Composition and Mechanical Properties, *Pages 238-241*

Identification Color: Blue

Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Lbs. per Ft.	Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Lbs. per Ft.
3 x 2.330	.170	1.963	5 x 3.284	.494	5.100		
3 x 2.509	.349	2.591	6 x 3.330	.230	4.302		
4 x 2.660	.190	2.645	6 x 3.443	.343	5.099		
4 x 2.796	.326	3.283	8 x 4.000	.270	6.350		
5 x 3.000	.210	3.430	10 x 4.660	.310	8.761		



ALUMINUM CHANNELS

AMERICAN STANDARD

6061-T6 (Extruded)

AMS-QQ-A-200/8 (Except for Marking)

ASTM B 221 ASTM B 308

Identified

Stock Lengths 25 Ft.

Chemical Composition and Mechanical Properties, *Pages 238-241*

Identification Color: Blue

Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Lbs. per Ft.	Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Lbs. per Ft.
3 x 1.410	.170	1.417	6 x 2.034	.314	3.632		
3 x 1.498	.258	1.729	6 x 2.157	.438	4.505		
3 x 1.596	.356	2.075	7 x 2.110	.230	3.541		
4 x 1.580	.180	1.846	8 x 2.290	.250	4.252		
4 x 1.647	.247	2.162	8 x 2.527	.487	6.485		
4 x 1.720	.320	2.504	9 x 2.430	.230	4.604		
5 x 1.750	.190	2.316	10 x 2.600	.240	5.278		
5 x 1.885	.325	3.108	10 x 2.886	.526	8.640		
5 x 2.032	.472	3.975	12 x 2.960	.300	7.411		
6 x 1.920	.200	2.826	12 x 3.047	.387	8.639		
6 x 1.945	.225	3.002	12 x 3.170	.510	10.38		

For Architectural Channels, see *page 189*

ALUMINUM I BEAMS
ALUMINUM ASSOCIATION
6061-T6 (Extruded)

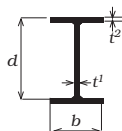
AMS-QQ-A-200/8 (Except for Marking)

ASTM B 221 ASTM B 308

Stock Lengths 25 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue



Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Web <i>t</i> In.	Lbs. per Ft.	Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Web <i>t</i> In.	Lbs. per Ft.
3	2.5	.150	.260	2.030	7	4.5	.230	.380	5.799
4	3.0	.170	.290	2.793	8	5.0	.230	.350	6.181
5	3.5	.190	.320	3.700	8	5.0	.250	.410	7.023
6	4.0	.190	.290	4.030	10	6.0	.250	.410	8.647
6	4.0	.210	.350	4.692	12	7.0	.310	.620	14.29

ALUMINUM CHANNELS
ALUMINUM ASSOCIATION
6061-T6 (Extruded)†

AMS-QQ-A-200/8 (Except for Marking)

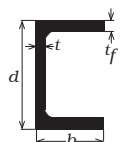
ASTM B 221 ASTM B 308

Identified

Stock Lengths 25 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue



Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Flange Thickness <i>t_f</i> In.	Lbs. per Ft.	Depth <i>d</i> In.	Flange <i>b</i> In.	Web <i>t</i> In.	Flange Thickness <i>t_f</i> In.	Lbs. per Ft.
2	1.00	.13	.13	.5774	6	3.25	.21	.35	4.030
2	1.25	.17	.26	1.071	7	3.50	.21	.38	4.715
3	1.50	.13	.20	1.135	8	3.00	.19	.35	4.147
3	1.75	.17	.26	1.597	8	3.75	.25	.41	5.789
4	2.00	.15	.23	1.738	9	3.25	.23	.35	4.982
4	2.25	.19	.29	2.331	10	3.50	.25	.41	6.138
5	2.25	.15	.26	2.212	10	4.25	.31	.50	8.359
5	2.75	.19	.32	3.089	12	4.00	.29	.47	8.274
6	2.50	.17	.29	2.834					

ALUMINUM TEES AND ZEES
6061-T6 (Extruded)†

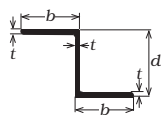
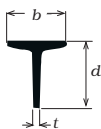
AMS-QQ-A-200/8 (Except for Marking)

ASTM B 221 ASTM B 308

Identified

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue



TEES

Stock Lengths 22 Ft.

ZEES

Stock Lengths 25 Ft.

Die No.	Size Inches	Stem <i>d</i>	Flange Inches <i>b</i>	Thickness Inches <i>t</i>	Lbs. per Ft.	Web Inches <i>d</i>	Thickness Inches <i>t</i>	Flange Inches <i>b</i>	Lbs. per Ft.
83490	1 1/4		1 1/2	1/8	.4351	3	1/4	2 11/16	2.333
72290	1 1/2		1 1/2	3/16	.6821	3**	3/8	2 11/16	3.381
18143	1 1/2		1 1/2	1/4	.8702				
	* 2		2	1/4	1.260				
	* 3		3	3/8	2.717				

*25 ft.

**30 ft.

† For Architectural Shapes, see page 190



ALUMINUM ROUND TUBING DRAWN SEAMLESS

3003-H14

Not Identified

Normally Produced to O.D. and Wall Dimensions

AMS-WW-T-700/2 ASTM B 210 AMS 4067

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Pink

O.D.		Gage	Wall	I.D.	Lbs. per Ft.
1/4	x	20	.035	.180	.0281
3/8	x	22	.028	.319	.0363
		20	.035	.305	.0444
1/2	x	20	.035	.430	.0607
		18	.049	.402	.0825
		16	.065	.370	.1055
5/8	x	22	.028	.569	.0624
		20	.035	.555	.0771
		18	.049	.527	.1053
		16	.065	.495	.1359
3/4	x	20	.035	.680	.0934
		18	.049	.652	.1282
		16	.065	.620	.1662
7/8	x	18	.049	.777	.1511
		16	.065	.745	.1965
1	x	20	.035	.930	.1261
		18	.049	.902	.1739
		17	.058	.884	.2039
		16	.065	.870	.2268
1 1/8	x	17	.058	1.009	.2310
1 1/4	x	20	.035	1.180	.1587
		16	.065	1.120	.2875
1 1/2	x	20	.035	1.430	.1914
		18	.049	1.402	.2654
		17	.058	1.384	.3121
		16	.065	1.370	.3481
1 3/4	x	20	.035	1.680	.2240
		16	.065	1.620	.4088
2	x	20	.035	1.930	.2567
		16	.065	1.870	.4694
2 1/2	x	16	.065	2.370	.5907
3	x	16	.065	2.870	.7120

**ALUMINUM ROUND TUBING
DRAWN SEAMLESS**



6061-T6

Under 1/2" — Not Identified

1/2" and Over — Identified

Normally Produced to O.D. and Wall Dimensions

AMS-WW-T-700/6 ASTM B 210 AMS 4082

Stock Lengths 12 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue

O.D.	Gage	Wall	I.D.	Lbs. per Ft.	O.D.	Gage	Wall	I.D.	Lbs. per Ft.
3/16	x 20	.035	.118	.0197	1	x 17	.058	.884	.2019
1/4	x 18	.049	.152	.0364		16	.065	.870	.2245
	17	.058	.134	.0411		14	.083	.834	.2812
5/16	x 20	.035	.243	.0359		1/8	.125	.750	.4041
	18	.049	.215	.0477	1 1/8	x 20	.035	1.055	.1409
	17	.058	.197	.0545		17	.058	1.009	.2286
3/8	x 20	.035	.305	.0440	1 1/4	x 20	.035	1.180	.1571
	18	.049	.277	.0590		18	.049	1.152	.2174
	17	.058	.259	.0679		17	.058	1.134	.2554
	16	.065	.245	.0744		16	.065	1.120	.2846
7/16	x 18	.049	.340	.0703		14	.083	1.084	.3579
	16	.065	.308	.0895	1 3/8	x 20	.035	1.305	.1733
1/2	x 22	.028	.444	.0488		18	.049	1.277	.2400
	20	.035	.430	.0601		17	.058	1.259	.2822
	18	.049	.402	.0816	1 1/2	x 20	.035	1.430	.1894
	17	.058	.384	.0947		18	.049	1.402	.2627
	16	.065	.370	.1045		17	.058	1.384	.3090
	11	.120	.260	.1685		16	.065	1.370	.3446
5/8	x 20	.035	.555	.0763		14	.083	1.334	.4345
	18	.049	.527	.1043	1 5/8	x 20	.035	1.555	.2056
	17	.058	.509	.1215		17	.058	1.509	.3358
	16	.065	.495	.1345	1 3/4	x 17	.058	1.634	.3626
3/4	x 20	.035	.680	.0925		14	.083	1.584	.5112
	18	.049	.652	.1269	1 7/8	x 17	.058	1.759	.3893
	17	.058	.634	.1483	2	x 18	.049	1.902	.3532
	16	.065	.620	.1645		17	.058	1.884	.4161
	14	.083	.584	.2045		16	.065	1.870	.4647
7/8	x 20	.035	.805	.1086		14	.083	1.834	.5878
	18	.049	.777	.1495	2 1/4	x 18	.049	2.152	.3984
	17	.058	.759	.1751		16	.065	2.120	.5247
	16	.065	.745	.1945		14	.083	2.084	.6645
1	x 20	.035	.930	.1248	2 1/2	x 16	.065	2.370	.5847
	18	.049	.902	.1722	3	x 16	.065	2.870	.7048
						14	.083	2.834	.8945
					4	x 16	.065	3.870	.9450



ALUMINUM ROUND TUBING EXTRUDED SEAMLESS

6061-T6511

Identified

AMS-QQ-A-200/8 ASTM B 221

Stock Lengths 12 and 24 Ft.

Chemical Composition and Mechanical Properties, Pages 238-241

Identification Color: Blue

O.D.	Wall	I.D.	Lbs. per Ft.	O.D.	Wall	I.D.	Lbs. per Ft.
1½ x	1/8	1.250	.6350	4 x	1/8	3.750	1.788
	1/4	1.000	1.155		1/4	3.500	3.464
1¾ x	1/4	1.250	1.375	1/2	3.000	6.465	
	2 x	1/8	1.750	.8659	¾	2.500	9.005
1/4		1.500	1.616	4½ x	1/2	3.500	7.389
2¼ x	1/2	1.250	3.233		¾	3.000	10.39
2½ x	1/8	2.250	1.097	5 x	1/2	4.000	8.313
	1/4	2.000	2.078		¾	3.500	11.78
	1/2	1.500	3.695		1	3.000	14.78
2¾ x	1/2	1.750	4.152	5½ x	1/2	4.500	9.236
	5/8	1.500	4.907		¾	4.000	13.16
	¾	1.250	5.542		1	3.500	16.63
3 x	1/8**	2.750	1.328	6 x	1/2	5.000	10.16
	1/4	2.500	2.540		¾	4.500	14.55
	1/2	2.000	4.618		1*	4.000	18.47
	¾	1.500	6.234		6½ x	1	4.500	20.32
3¼ x	3/8	2.500	3.983	7 x		1/2	6.000	12.01
	1/2	2.250	5.080		1*	5.000	22.17
3½ x	1/2	2.500	5.542	8 x	1/4	7.500	7.158
	¾	2.000	7.620		1*	6.000	25.86
3¾ x	1/2	2.750	6.004				

*12 ft. lengths only

**Also available Extruded Structural



ALUMINUM ROUND PIPE

6063-T6

Schedule 40

Under 1" — Welded - ASTM B 221

1" & Over — Extruded Seamless - ASTM B 241

Identified

Chemical Composition and Mechanical Properties, Pages 238-241

Stock Lengths 20 Ft. Identification Color: Yellow

Nominal Size	O.D.	I.D.	Wall	Lbs. per Ft.
1/2*	.840	.622	.109	.2914
¾*	1.050	.824	.113	.3872
1	1.315	1.049	.133	.5749
1¼†	1.660	1.380	.140	.7782
1½†	1.900	1.610	.145	.9306
2	2.375	2.067	.154	1.251
2½	2.875	2.469	.203	1.984
4	4.500	4.026	.237	3.733

* Not Identified

† Also Handrail Pipe, Not Identified, Plain Ends

ALUMINUM ROUND PIPE**6061-T6
Schedule 40**Under 1" — Drawn Seamless
1" & Over — Extruded SeamlessASTM B 241
IdentifiedChemical Composition and Mechanical Properties, *Pages 238-241*

Stock Lengths 20 Ft. Identification Color: Blue

Nominal Size	O.D.	I.D.	Wall	Lbs. per Ft.
1/8*	.405	.269	.068	.0847
1/4*	.540	.364	.088	.1470
3/8*	.675	.493	.091	.1963
1/2	.840	.622	.109	.2944
3/4	1.050	.824	.113	.3912
1	1.315	1.049	.133	.5808
1 1/4	1.660	1.380	.140	.7862
1 1/2	1.900	1.610	.145	.9402
2	2.375	2.067	.154	1.264
2 1/2	2.875	2.469	.203	2.004
3	3.500	3.068	.216	2.621
3 1/2	4.000	3.548	.226	3.151
4	4.500	4.026	.237	3.733
5	5.563	5.047	.258	5.057
6	6.625	6.065	.280	6.564
8	8.625	7.981	.322	9.878

*12 ft. lengths

ALUMINUM ROUND PIPE**6061-T6
Schedule 80**

Extruded Seamless

ASTM B 241
IdentifiedChemical Composition and Mechanical Properties, *Pages 238-241*

Stock Lengths 20 Ft. Identification Color: Purple

Nominal Size	O.D.	I.D.	Wall	Lbs. per Ft.
1	1.315	.957	.179	.7513
1 1/4	1.660	1.278	.191	1.037
1 1/2	1.900	1.500	.200	1.256
2	2.375	1.939	.218	1.737
2 1/2	2.875	2.323	.276	2.650
3	3.500	2.900	.300	3.547
3 1/2	4.000	3.364	.318	4.326
4	4.500	3.826	.337	5.183
5	5.563	4.813	.375	7.188

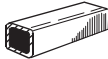


ALUMINUM EXTRUDED ROUND STRUCTURAL PIPE 6061-T6

ASTM B 429

Chemical Composition and Mechanical Properties, Pages 238-241
Stock Lengths 20 Ft. Identification Color: Plain Ends

Nominal Size	Schedule	O.D.	I.D.	Wall	Lbs. Per Ft.	Nominal Size	Schedule	O.D.	I.D.	Wall	Lbs. Per Ft.
1/2	40	.840	.622	.109	.2944	2	40	2.375	2.067	.154	1.264
3/4	40	1.050	.824	.113	.3912	2	80	2.375	1.939	.218	1.737
1	40	1.315	1.049	.133	.5808	2 1/2	40	2.875	2.469	.203	2.004
1 1/4	40	1.660	1.380	.140	.7862	3	40	3.500	3.068	.216	2.621
1 1/2	40	1.900	1.610	.145	.9402	3 1/2	40	4.000	3.548	.226	3.151
1 1/2	80	1.900	1.500	.200	1.256	4	40	4.500	4.026	.237	3.733



ALUMINUM SQUARE TUBING 6063-T52 (Extruded)

ASTM B 221 Type 2

Not Identified

Sharp Corners Stock Lengths 21 Ft.-1 In.

Chemical Composition and Mechanical Properties, Pages 238-241
Identification Color: Yellow

Size in Inches	Wall	Lbs. per Ft.	Size in Inches	Wall	Lbs. per Ft.
3/4 x 3/4	.062	.1986	1 3/4 x 1 3/4	.125	.9458
	.125	.3638	2 x 2	.125	1.091
1 x 1	.062	.2708		.188*	1.586
	.125	.5093	2 1/2 x 2 1/2	.125	1.426
1 1/4 x 1 1/4	.125	.6548	3 x 3	.125	1.673
1 1/2 x 1 1/2	.125	.8003	4 x 4	.125	2.255

*12 ft. length

ALUMINUM RECTANGULAR TUBING 6063-T52 (Extruded)

ASTM B 221 Type 2

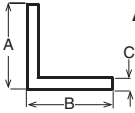
Not Identified

Sharp Corners Stock Lengths 21 Ft.-1 In.

Chemical Composition and Mechanical Properties, Pages 238-241
Identification Color: Yellow

Size in Inches	Wall	Lbs. per Ft.	Size in Inches	Wall	Lbs. per Ft.
1/2 x 1	.125	.3638	1 3/4 x 3 1/2	.125	1.455
3/4 x 1 1/2	.125	.5820	1 3/4 x 4	.125	1.601
1 x 1 1/2	.125	.6548	1 3/4 x 4 1/2	.125	1.746
1 x 2	.125	.8003	1 3/4 x 5	.125	1.892
1 1/4 x 2 1/2	.125	1.019	2 x 3	.125	1.382
1 1/2 x 2	.125	.9458	2 x 4	.125	1.673
1 1/2 x 2 1/2	.125	1.091	2 x 5	.125	1.964
1 1/2 x 3	.125**	1.250	2 x 6	.125	2.255
1 3/4 x 3	.125	1.310	3 x 6	.188	3.814

**24 ft. length



ALUMINUM EXTRUSIONS

ARCHITECTURAL SHAPES

ANGLES

6063-T52

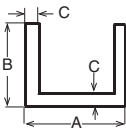
ASTM B 221

EQUAL AND UNEQUAL LEGS, SHARP CORNERS

Stock Lengths 16 Ft.

For Structural Angles, see page 181

Section number	A Inches	B Inches	C Inches	Lbs. per Ft.	Est. Lbs. 16 Ft.
94887	3/8	3/4	3/32	.1126	1.802
41770	1/2	1/2	1/16	.0682	1.091
31629	1/2	1/2	1/8	.1273	2.037
39709	1/2	1	1/8	.2001	3.202
24858	1/2	1 1/4	1/8	.2364	3.782
57571	3/4	3/4	1/16	.1049	1.678
78340	3/4	3/4	1/8	.2001	3.202
47195	3/4	1	1/8	.2364	3.782
70974	3/4	1 1/2	1/8	.3092	4.947
57143	1	1	1/16	.1410	2.256
30372	1	1	1/8	.2728	4.365
86748	1	1	3/16	.3955	6.328
57457	1	1 1/2	1/8	.3456	5.530
00664	1	2	1/8	.4183	6.693
09412	1 1/4	1 1/4	1/8	.3456	5.530
59370	1 1/4	1 1/4	3/16	.5047	8.075
11316	1 1/4	3 1/2	1/8	.6729	10.77
49985	1 1/2	1 1/2	1/8	.4183	6.693
23173	1 1/2	1 1/2	3/16	.6138	9.821
26292	1 3/4	1 3/4	1/8	.4911	7.858
99198	2	2	1/8	.5638	9.021
88854	2	2	3/16	.8320	13.31
89114	2	2	1/4	1.091	17.46
66805††	2 1/4	5 1/4	1/8	1.073	18.24††



CHANNELS

6063-T52

ASTM B 221

SHARP CORNERS

Stock Lengths 16 Ft.

For Structural Channels, see page 182

Section number	A Inches	B Inches	C Inches	Lbs. per Ft.	Est. Lbs. 16 Ft.
58298	1/2	3/8	1/8	.1455	2.328
35040	1/2	1/2	3/32	.1433	2.293
83502	1/2	3/4	1/8	.2547	4.075
32601	5/8	5/8	1/8	.2364	3.782
78569	3/4	3/8	1/8	.1819	2.910
87926	3/4	3/4	1/8	.2910	4.656
78603	1	1/2	1/8	.2547	5.094*
58367	1	1	1/8	.4002	6.403
09973	1 1/4	1/2	1/8	.2910	5.820*
82336	1 1/4	1 1/4	1/8	.5093	8.149
41193	1 1/2	1/2	1/8	.3274	6.548*
28766	1 3/4	1/2	1/8	.3638	5.821
51938	1 3/4	3/4	1/8	.4365	6.984
05232	1 3/4	1	1/8	.5093	8.149
88982	2	1/2	1/8	.4002	6.403
68296	2	1	1/8	.5457	8.731
70696	2	1	1/8	.5457	10.91*
45220	2 1/4	7/8	1/8	.5457	8.731
29627†	2 1/2	1 1/2	1/8	.7718	16.98**
17323	3	1/2	1/8	.5457	8.731
91718	3	1	1/8	.6912	11.06
91689	5	2	3/16	1.882	30.11

*Stock Length 20 ft. — Est. Lbs. for 20 ft. †6061-T6
 **Stock Length 22 ft. — Est. Lbs. for 22 ft. ††6063-T6 — Est. Lbs. for 17 ft.

ALUMINUM EXTRUSIONS ARCHITECTURAL SHAPES

TEES

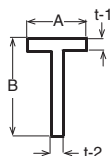
6063-T52

ASTM B 221

SHARP ANGLES, SHARP CORNERS

Stock Lengths 16 Ft.

Section number	A inches	B inches	t-1 inches	t-2 inches	Est. Lbs. per foot	Est. Lbs. 16' Lgth.
66982	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	.2001	3.202
90387	1	1	$\frac{1}{8}$	$\frac{1}{8}$	.2728	4.365
89892	2	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	.3819	6.110



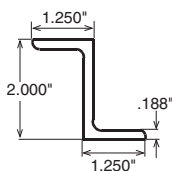
ZEEES

6061-T6

AMS-QQ-A-200/8

Stock Lengths 22 Ft.

23135



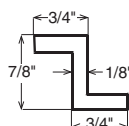
Lbs. per Ft.—.9173

6063-T52

ASTM B 221

Stock Lengths 16 Ft.

94549



Lbs. per Ft.—.319

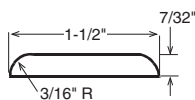
TRIM MOULDING

6063-T52

ASTM B 221

Stock Lengths 16 Ft.

14458

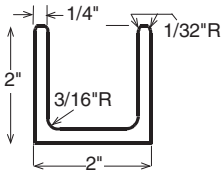


Lbs. per Ft.—.356

**ALUMINUM EXTRUSIONS
TRUCK BODY SHAPES**

Channel 6063-T6
ASTM B 221
Stock Lengths 22 Ft.

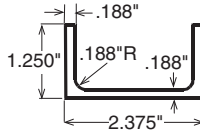
41761



Lbs. per Ft. — 1.667

Channel 6063-T6
ASTM B 221
Stock Lengths 24 Ft.

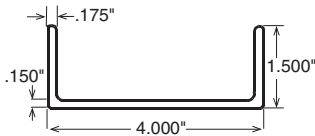
30296



Lbs. per Ft. — 1.031

Floor Bolster 6063-T6
ASTM B 221
Stock Lengths 24 Ft.

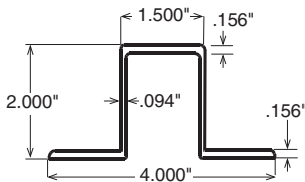
83567



Lbs. per Ft. — 1.286

Side Post 6063-T6
ASTM B 221
Stock Lengths 22 Ft.

94942



Lbs. per Ft. — 1.163