

PIPE

NOMINAL SIZE	SCHEDULE	O.D. INCHES	I.D. INCHES	THICKNESS INCHES	POUNDS PER FOOT
1	40	1.315	1.049	.133	.581
	80	1.315	.957	.179	.751
1 ^{1/4}	40	1.660	1.380	.140	.786
	80	1.660	1.278	.191	1.037
1 ^{1/2}	40	1.900	1.610	.145	.940
	80	1.900	1.500	.200	1.256
2	40	2.375	2.067	.154	1.264
	80	2.375	1.939	.218	1.737
2 ^{1/2}	40	2.875	2.469	.203	2.004
	80	2.875	2.323	.276	2.650
3	40	3.500	3.068	.216	2.621
	80	3.500	2.900	.300	3.547
3 ^{1/2}	40	4.000	3.548	.226	3.151
	80	4.000	3.364	.318	4.326
4	40	4.500	4.026	.237	3.733
	80	4.500	3.826	.337	5.183
5	40	5.563	5.047	.258	5.057
	80	5.563	4.813	.375	7.188
6	40	6.625	6.065	.280	6.564
	80	6.625	5.761	.432	9.884
8	40	8.625	7.981	.322	9.878
	80	8.625	7.625	.500	15.009



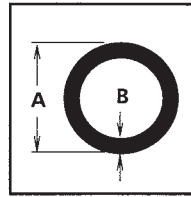
B & B Surplus, Inc
 Bakersfield
 (661) 589-0381

B & B Steel Supply
 Santa Maria
 (805) 349-9991

B & B Metals, Inc
 Santa Ana
 (714) 541-7267

ROUND TUBING

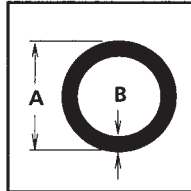
- 6061-T6
MILL FINISH
STOCK LENGTHS: Random 20 ft
ASTM-B210



O.D. INCHES	THICKNESS INCHES	I.D. INCHES	POUNDS PER FOOT	O.D. INCHES	THICKNESS INCHES	I.D. INCHES	POUNDS PER FOOT
1/2	.065	.370	.105	1 1/2	.065	1.370	.345
	.120	.260	.168		.125	1.250	.635
5/8	.065	.495	.135	1 3/4	.065	1.620	.405
	.125	.375	.231		.125	1.500	.750
3/4	.065	.620	.164	2	.065	1.870	.465
	.125	.500	.289		.125	1.750	.866
1	.065	.870	.225	2 1/2	.125	2.250	1.097
	.125	.750	.404		.125	2.250	1.097
1 1/4	.065	1.120	.285	3	.125	2.750	1.328
	.125	1.000	.520		.065	3.870	.945

PIPE

- 6061-T6
STOCK LENGTH: 20 ft
ASTM-B221



NOMINAL SIZE	SCHEDULE	O.D. INCHES	I.D. INCHES	THICKNESS INCHES	POUNDS PER FOOT
1/8	40	.405	.269	.068	.085
1/4	40	.540	.364	.088	.147
3/8	40	.675	.493	.091	.196
1/2	40	.840	.622	.109	.294
3/4	40	1.050	.824	.113	.391

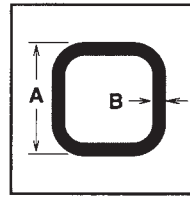
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SQUARE TUBING

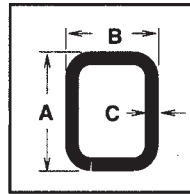
- 6063-T52
MILL FINISH
STOCK LENGTHS: 21ft - 1ft
ASTM-B221



OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT
$\frac{3}{4}$ x $\frac{3}{4}$	.065 .120	.199 .364	$\frac{1}{4}$ x $\frac{1}{4}$	.120	.946
1 x 1	.065 .120	.271 .509	2 x 2	.120	1.091
$1\frac{1}{4}$ x $1\frac{1}{4}$	.120	.655	3 x 3	.120	1.673
$1\frac{1}{2}$ x $1\frac{1}{2}$	.120	.800	4 x 4	.120	2.255

RECTANGULAR TUBING

- 6063-T52
MILL FINISH
STOCK LENGTHS: 21ft - 1ft
ASTM-B221



OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT
$\frac{1}{2}$ x 1	.120	.364	$\frac{1}{4}$ x $2\frac{1}{4}$	.120	1.091
$\frac{3}{4}$ x $1\frac{1}{2}$	.120	.582	$\frac{1}{4}$ x 3	.120	1.310
1 x 2	.120	.800	$\frac{1}{4}$ x 4	.120	1.601
1 x 3	.120	1.091	$\frac{1}{4}$ x $4\frac{1}{2}$	.120	1.746
1 x 4	.120	1.382	$\frac{1}{4}$ x 5	.120	1.892
$1\frac{1}{2}$ x 2	.120	.946	2 x 3	.120	1.382
			2 x 4	.120	1.673
			2 x 5	.120	1.964

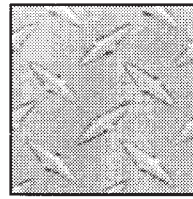
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DIAMOND PLATE

- 3003 BRIGHT FINISH (TREAD BRITE)
- 6061-T6 MILL FINISH (TREAD PLATE)



SIZE INCHES	PLATE SIZE INCHES	3003		6061-T6	
		POUNDS PER SQ. FT.	POUNDS PER PLATE	POUNDS PER SQ. FT.	POUNDS PER PLATE
.063	48 x 96	1.125	36.00	-	-
	48 x 120	1.125	45.00	-	-
	48 x 144	1.125	54.00	-	-
.080	48 x 96	1.283	41.06	-	-
	48 x 120	1.283	51.32	-	-
	48 x 144	1.283	61.58	-	-
.090	48 x 96	1.426	45.63	-	-
	48 x 120	1.426	57.04	-	-
	48 x 144	1.426	68.49	-	-
.100	48 x 96	1.568	50.18	1.552	49.66
	48 x 120	1.568	62.72	1.552	62.08
	48 x 144	1.568	75.26	1.552	74.50
.125	48 x 96	1.925	61.60	1.905	60.96
	48 x 120	1.925	77.00	1.905	76.20
	48 x 144	1.925	92.40	1.905	91.44
.188	48 x 96	2.823	90.34	2.794	89.41
	48 x 120	2.823	112.92	2.794	111.76
	48 x 144	2.823	135.50	2.794	134.11
.250	48 x 96			3.669	117.41
	48 x 120			3.669	146.76
	48 x 144			3.669	176.11
.375	48 x 96			5.443	174.18
	48 x 120			5.443	217.72
	48 x 144			5.443	261.26
.500	48 x 96			7.197	230.30
	48 x 120			7.197	287.88
	48 x 144			7.197	345.46

CUSTOM SHEARING

B & B can shear plate to your specific requirements*. Call with your dimensions today.

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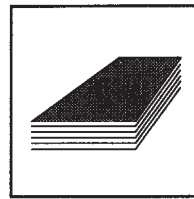
BARE PLATE

- 5052-H32 MILL FINISH

Federal specification QQ A-250/8 / ASTM-B209

- 6061-T651 MILL FINISH

Federal specification QQ A-250/11 / ASTM-B209



SIZE INCHES	PLATE SIZE INCHES	5052-H32		6061-T651	
		POUNDS PER SQ. FT.	POUNDS PER PLATE	POUNDS PER SQ. FT.	POUNDS PER PLATE
.250	48 x 96	3.492	111.74	3.528	112.90
	48 x 120	3.492	139.68	3.528	141.12
	48 x 144	3.492	167.62	3.528	169.34
.313	48 x 96	-	-	4.417	141.34
	48 x 120	-	-	4.417	176.68
	48 x 144	-	-	4.417	212.02
.375	48 x 96	5.238	167.62	5.292	169.34
	48 x 120	5.238	209.52	5.292	211.68
	48 x 144	5.238	251.42	5.292	254.02
.500	48 x 96	6.984	223.49	7.056	225.79
	48 x 120	6.984	279.36	7.056	282.24
	48 x 144	6.984	335.23	7.056	338.69
.625	48 x 96			8.820	282.24
	48 x 120			8.820	352.80
	48 x 144			8.820	423.36
.750	48 x 96			10.584	338.69
	48 x 120			10.584	423.36
	48 x 144			10.584	508.03
.875	48 x 96			12.348	395.14
	48 x 120			12.348	493.92
	48 x 144			12.348	592.70
1.000	48 x 96			14.112	451.58
	48 x 120			14.112	564.48
	48 x 144			14.112	677.38
1.125	48 x 96			17.640	564.48
	48 x 120			17.640	705.60
	48 x 144			17.640	846.72
1.500	48 x 96			21.168	677.37
	48 x 120			21.168	846.72
	48 x 144			21.168	1016.06
2.000	48 x 96			28.224	903.17
	48 x 120			28.224	1128.96
	48 x 144			28.224	1354.75

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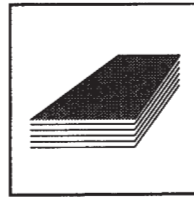
FLAT SHEET

- 5052-H32 MILL FINISH
.125 and heavier

Federal specification QQ A-250/8 / ASTM-B209

- 6061-T6 MILL FINISH

Federal specification QQ A-250/11 / ASTM-B209



SIZE INCHES	SHEET SIZE INCHES	5052-H32		6061-T6	
		POUNDS PER SQ. FT.	POUNDS PER SHEET	POUNDS PER SQ. FT.	POUNDS PER SHEET
.025	48 x 96	.349	11.17	-	-
	48 x 120	.349	13.96	-	-
	48 x 144	.349	16.75	-	-
.032	48 x 96	.447	14.30	.452	14.46
	48 x 120	.447	17.88	.452	18.08
	48 x 144	.447	21.46	.452	21.70
.040	48 x 96	.559	17.89	.565	18.08
	48 x 120	.559	22.36	.565	22.60
	48 x 144	.559	26.83	.565	27.12
.050	48 x 96	.698	22.34	.706	22.59
	48 x 120	.698	27.92	.706	28.24
	48 x 144	.698	33.50	.706	33.89
.063	48 x 96	.880	28.16	.889	28.45
	48 x 120	.880	35.20	.889	35.56
	48 x 144	.880	42.24	.889	42.67
.080	48 x 96	1.117	35.74	1.129	36.13
	48 x 120	1.117	44.68	1.129	45.16
	48 x 144	1.117	53.62	1.129	54.19
.090	48 x 96	1.257	40.22	1.270	40.64
	48 x 120	1.257	50.28	1.270	50.80
	48 x 144	1.257	60.34	1.270	60.96
.100	48 x 96	1.397	44.70	1.411	45.15
	48 x 120	1.397	55.88	1.411	56.44
	48 x 144	1.397	67.06	1.411	67.73
.125	48 x 96	1.746	55.87	1.764	56.45
	48 x 120	1.746	69.84	1.764	70.56
	48 x 144	1.746	83.81	1.764	84.67
.190	48 x 96	2.654	84.93	2.681	85.79
	48 x 120	2.654	106.16	2.681	107.24
	48 x 144	2.654	127.39	2.681	128.69

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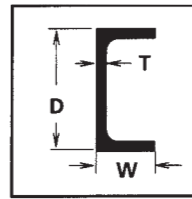
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Santa Ana
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CHANNEL - American Standard

- 6061-T6
STOCK LENGTH: 25 ft

Federal specification QQ A200/16/Cold Finished/ASTM B308



SIZE - INCHES			WEIGHT - POUNDS	
D	W	T	Per Foot	25 ft
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	131.95
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

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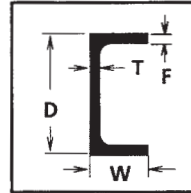
ANGLE

SIZE - INCHES					WEIGHT - POUNDS						
A	B	C	Per Foot	25 ft	A	B	C	Per Foot	25 ft		
4	x 4	x 1/4	2.283	57.08	6	x 3 1/2	x 5/16	3.385	84.63		
		x 3/16	2.829	70.73			x 3/8	4.037	100.93		
		x 3/8	3.366	84.15			x 1/2	5.306	132.65		
		x 1/2	4.414	110.35			6	x 4	x 3/8	4.237	105.93
		x 5/8	5.425	135.63					x 1/2	5.578	139.45
5	x 3	x 3/8	3.349	83.73	6	x 6	x 3/8	5.119	127.98		
		x 1/2	4.396	109.90			x 1/2	6.754	168.85		
5	x 3 1/2	x 3/8	3.582	89.55	8	x 6	x 1/2	7.952	198.80		
		x 1/2	4.704	117.60			x 3/4	11.679	291.98		
5	x 5	x 3/8	4.237	105.93	8	x 8	x 1/2	9.141	228.53		
		x 1/2	5.578	139.45			x 3/4	13.478	336.95		

CHANNEL - Aluminum Association

- 6061-T6
- STOCK LENGTH: 25 ft

Federal specification QQ A200/16/Cold Finished/ASTM B308



SIZE - INCHES			FLANGE	WEIGHT - POUNDS	
D	W	T	F	Per Foot	25 ft
2	x 1.00	x .13	.13	.577	14.43
	x 1.25	x .17	.26	1.071	26.78
3	x 1.50	x .13	.20	1.135	28.38
	x 1.75	x .17	.26	1.597	39.93
4	x 2.00	x .15	.23	1.738	43.45
	x 2.25	x .19	.29	2.331	58.28
5	x 2.25	x .15	.26	2.212	55.30
	x 2.75	x .19	.32	3.089	77.23
6	x 2.50	x .17	.29	2.834	70.85
	x 3.25	x .21	.35	4.030	100.75
7	x 2.75	x .17	.29	3.205	80.13
	x 3.50	x .21	.38	4.715	117.88
8	x 3.00	x .19	.35	4.147	103.68
	x 3.75	x .25	.41	5.789	144.73
9	x 3.25	x .23	.35	4.983	124.58
	x 4.00	x .29	.44	6.970	174.25
10	x 3.50	x .25	.41	6.136	153.40
	x 4.25	x .31	.50	8.360	209.00
12	x 4.00	x .29	.47	8.274	206.85
	x 5.00	x .35	.62	11.822	295.55

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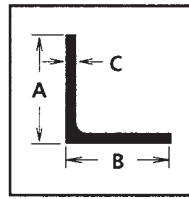
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ANGLE

- 6061-T6
- STOCK LENGTH: 25 ft

Federal specification QQ A200/16/Cold Finished/ASTM B308



SIZE - INCHES			WEIGHT - POUNDS		SIZE - INCHES			WEIGHT - POUNDS	
A	B	C	Per Foot	25 ft	A	B	C	Per Foot	25 ft
1	1	1/8	.201	5.03	2 1/2 x 1 1/4 x 3/16	3/16	1/4	.797	19.93
			.238	5.95				.577	14.43
1	1	1/8	.275	6.88	2 1/2 x 2 x 1/8	3/16	1/4	.652	16.30
			.400	10.00				.961	24.03
			.514	12.85				1.257	31.43
1 1/4	3/4	1/8	.272	6.80	2 1/2 x 2 x 3/8	3/8	1/2	1.828	45.70
			.314	7.85				.724	18.10
			.343	8.58				1.070	26.75
1 1/4	1 1/4	1/8	.510	12.75	2 1/2 x 2 1/2 x 1/8	3/16	1/4	1.404	35.10
			.656	16.40				1.729	43.23
			.314	7.85				2.047	51.18
1 1/2	3/4	1/8	.454	11.35	3 x 2 x 3/16	1/4	3/8	1.071	26.78
			.347	8.68				1.403	35.08
1 1/2	1	1/8	.662	16.55	3 x 2 1/2 x 1/4	3/8	1/2	2.046	51.15
			.387	9.68				1.537	38.43
1 1/2	1 1/4	1/8	.566	14.15	3 x 3 x 3/16	1/4	3/8	2.253	56.33
			.734	18.35				1.275	31.88
			.423	10.58				1.684	42.10
1 1/2	1 1/2	1/8	.619	15.48	3 1/2 x 2 1/2 x 1/4	3/8	1/2	2.082	52.05
			.809	20.23				2.474	61.85
			1.176	29.40				3.227	80.68
1 3/4	1 1/4	1/8	.421	10.53	3 1/2 x 3 x 1/4	3/8	1/2	1.684	42.10
			.621	15.53				2.474	61.85
			.809	20.23				3.227	80.68
1 3/4	1 3/4	1/8	.497	12.43	3 1/2 x 3 1/2 x 1/4	5/16	3/8	1.842	46.05
			.731	18.28				2.705	67.63
			.956	23.90				3.532	88.30
			1.171	29.28				1.989	49.73
2	1	1/8	1.378	34.45	4 x 2 1/2 x 1/4	1/2	3/8	2.461	61.53
			.421	10.53				2.926	73.15
			.496	12.40				3.826	95.65
2	1 1/2	1/8	.731	18.28	4 x 3 x 1/4	3/8	1/2	1.856	46.40
			.956	23.90				1.988	49.70
			1.378	34.45				2.926	73.15
2	2	1/8	.577	14.43	4 x 3 1/2 x 3/8	1/2	3/8	3.128	78.20
			.850	21.25				4.102	102.55
			1.110	27.75					
			1.364	34.10					
			1.606	40.15					

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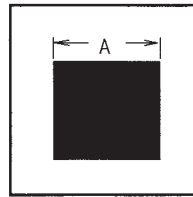
B & B Metals, Inc
Santa Ana
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SQUARE BAR

- 6061-T6

STOCK LENGTH: 12 ft

Federal specification QQ A200/8/Extruded/ ASTM B221



SIZE			WEIGHT - POUNDS		
Inches	Per Foot	12 ft	Inches	Per Foot	12 ft
3/8	.165	1.98	2	4.704	56.45
1/2	.294	3.53	2 1/4	5.954	71.45
3/4	.662	7.94	2 1/2	7.350	88.20
1	1.176	14.11	3	10.584	127.01
1 1/4	1.838	22.06	3 1/4	12.422	149.06
1 1/2	2.646	31.75	3 1/2	14.406	172.87
1 3/4	3.602	43.22	4	18.816	225.79

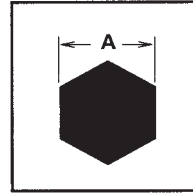
HEXAGONAL BAR

- 6061-T6, 6061-T651, 6061-T6511

STOCK LENGTH: 12 ft

Federal specification QQ A200/8/Cold Finished/ASTM B221

Federal specification QQ A200/8/Extruded/ASTM B221



SIZE			WEIGHT - POUNDS		
Inches	Per Foot	12 ft	Inches	Per Foot	12 ft
1/4	.063	.76	1	1.018	12.22
5/16	.099	1.19	1 1/4	1.591	19.09
3/8	.143	1.72	1 1/2	2.291	27.49
1/2	.254	3.05	1 3/4	3.118	37.42
5/8	.397	4.76	2	4.074	48.89
3/4	.572	6.86			

TYPICAL MECHANICAL PROPERTIES

GRADE	TENSILE STRENGTH (k.s.i.)	YIELD POINT (k.s.i.)	ULTIMATE SHEARING STRENGTH	HARDNESS
6061-T6*	45	40	30	95 BHN
5052-H32	33	28	20	60 BHN
6063-T52	27	21	17	60 BHN
3003-H14	22	21	14	40 BHN

* Also applies to 6061-T651 and 6061-T6511

B & B Surplus, Inc
Bakersfield
(661) 589-0381

B & B Steel Supply
Santa Maria
(805) 349-9991

B & B Metals, Inc
Santa Ana
(714) 541-7267

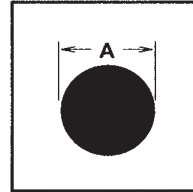
RECTANGULAR BAR

SIZE			WEIGHT - POUNDS			
Inches	Per Foot	20 ft	Inches	Per Foot	20 ft	
1 x 1 / ₄	1.470	17.64	1 / ₂ x 2	3.528	42.34	
	1.764	21.17		2.17	4.410	52.92
	2.352	28.22		3	5.292	63.50
	2.940	35.28		4	7.056	84.67
	3.528	42.34		6	10.584	127.01
	4.704	56.45				
	7.056	84.67	2 x 2 / ₂	5.880	70.56	
1 / ₄ x 1 / ₂	2.205	26.46		3	7.056	84.67
	2.940	35.28		4	9.408	112.90
	3.675	44.10	3 x 4	14.112	169.34	
	4.410	52.92		5	17.640	211.68
4	5.880	70.56				

ROUND BAR

- 6061-T6, 6061-T651, 6061-T6511
- STOCK LENGTH: 12 ft (except sizes listed "R/L" for random length)

Federal specification QQ A200/8/Cold Finished/ASTM B221
Federal specification QQ A200/8/Extruded/ASTM B221



SIZE			WEIGHT - POUNDS		
Inches	Per Foot	12 ft	Inches	Per Foot	12 ft
1/8	.014	.17	1 3/4	2.829	33.95
3/16	.033	.40	1 13/16	3.034	36.41
1/4	.058	.70	1 7/8	3.247	38.96
5/16	.090	1.08	2	3.695	44.34
3/8	.130	1.56	2 1/8	4.171	50.05
7/16	.177	2.12	2 1/4	4.676	56.11
1/2	.231	2.77	2 1/2	5.773	69.28
9/16	.292	3.50	2 5/8	6.364	76.37
5/8	.361	4.33	2 3/4	6.985	83.82
3/4	.520	6.24	3	8.313	99.76
7/8	.707	8.48	3 1/4	9.776	117.31
1	.924	11.09	3 1/2	11.315	135.78
1 1/8	1.169	14.03	3 5/8	12.152	145.82
1 1/4	1.443	17.32	3 3/4	12.989	155.87
1 5/16	1.591	19.09	4	14.778	177.34
1 3/8	1.746	20.95	4 1/4	16.683	200.20
1 7/16	1.909	22.91	4 1/2	18.704	244.45
1 1/2	2.078	24.94	5	23.901	R/L
1 5/8	2.439	29.27	5 1/2	27.940	R/L
			6	33.251	R/L

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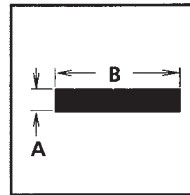
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Santa Maria
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(714) 541-7267

RECTANGULAR BAR

- 6061-T6, 6061-T6511
- STOCK LENGTH: 12 ft

Federal specification QQ A200/8/Extruded/ ASTM B221



SIZE			WEIGHT - POUNDS			SIZE			WEIGHT - POUNDS		
Inches	Per Foot	12 ft	Inches	Per Foot	12 ft	Inches	Per Foot	12 ft	Inches	Per Foot	12 ft
$1/8 \times 1/2$	.074	0.89	$3/8 \times 1/2$	.221	2.65	$3/8 \times 1/2$	.221	2.65	$3/8 \times 1/2$	.221	2.65
$5/8$	.092	1.10	$3/4$	.331	3.97	$3/4$	.331	3.97	1	.441	5.29
$3/4$	.110	1.32	1	.441	5.29	1	.441	5.29	$1 1/4$	.551	6.61
1	.147	1.76	$1 1/4$	.551	6.61	$1 1/4$	.551	6.61	$1 1/2$	.661	7.93
$1 1/4$	.184	2.21	$1 1/2$	.661	7.93	$1 1/2$	.661	7.93	2	.882	10.58
$1 1/2$	.221	2.65	2	.882	10.58	2	.882	10.58	$2 1/2$	1.103	13.24
$1 3/4$	.257	3.08	$2 1/2$	1.103	13.24	$2 1/2$	1.103	13.24	3	1.323	15.88
2	.294	3.53	3	1.323	15.88	3	1.323	15.88	4	1.764	21.17
$2 1/2$	.368	4.42	4	1.764	21.17	4	1.764	21.17	6	2.646	31.75
3	.441	5.29	6	2.646	31.75	$1/2 \times 3/4$	.441	5.29	$1/2 \times 3/4$	.441	5.29
4	.588	7.06	$1/2 \times 3/4$	.441	5.29	1	.588	7.06	$1/2 \times 3/4$	.441	5.29
6	.882	10.58	1	.588	7.06	$1 1/4$	.735	8.82	$1 1/4$	.735	8.82
$3/16 \times 3/4$	.165	1.98	$1 1/4$	.735	8.82	$1 1/2$	.882	10.58	$1 1/2$	.882	10.58
1	.221	2.65	$1 1/2$	.882	10.58	$1 3/4$	1.029	12.35	$1 3/4$	1.029	12.35
$1 1/4$	.276	3.31	$1 3/4$	1.029	12.35	2	1.176	14.11	2	1.176	14.11
$1 1/2$	.331	3.97	2	1.176	14.11	$2 1/2$	1.470	17.64	$2 1/2$	1.470	17.64
2	.441	5.29	$2 1/2$	1.470	17.64	3	1.764	21.17	3	1.764	21.17
3	.662	7.94	3	1.764	21.17	4	2.352	28.22	4	2.352	28.22
$1/4 \times 1/2$	.147	1.76	4	2.352	28.22	5	2.940	35.28	5	2.940	35.28
$3/4$	.221	2.65	5	2.940	35.28	6	3.528	42.34	6	3.528	42.34
1	.294	3.53	6	3.528	42.34	$5/8 \times 3/4$	.551	6.61	$5/8 \times 3/4$	.551	6.61
$1 1/4$	.368	4.42	$5/8 \times 3/4$	.551	6.61	1	.735	8.82	1	.735	8.82
$1 1/2$	.441	5.29	1	.735	8.82	$1 1/4$	.919	11.03	$1 1/4$	.919	11.03
$1 3/4$	.515	6.18	$1 1/4$	.919	11.03	$1 1/2$	1.103	13.24	$1 1/2$	1.103	13.24
2	.588	7.06	$1 1/2$	1.103	13.24	2	1.470	17.64	2	1.470	17.64
$2 1/2$	.735	8.82	2	1.470	17.64	3	2.205	26.46	3	2.205	26.46
3	.882	10.58	3	2.205	26.46	$3/4 \times 1$	.882	10.58	$3/4 \times 1$	.882	10.58
$3 1/2$	1.029	12.35	$3 1/2$	1.029	12.35	$1 1/4$	1.103	13.24	$1 1/4$	1.103	13.24
4	1.176	14.11	4	1.176	14.11	$1 1/2$	1.323	15.88	$1 1/2$	1.323	15.88
5	1.470	17.64	5	1.470	17.64	$1 3/4$	1.764	21.17	$1 3/4$	1.764	21.17
6	1.764	21.17	6	1.764	21.17	2	2.205	26.46	2	2.205	26.46
$5/16 \times 3/4$	.276	3.31	$5/16 \times 3/4$	.276	3.31	$2 1/2$	2.646	31.75	$2 1/2$	2.646	31.75
1	.368	4.42	1	.368	4.42	3	3.087	37.04	3	3.087	37.04
$1 1/4$	.459	5.51	$1 1/4$	.459	5.51	4	3.528	42.34	4	3.528	42.34
$1 1/2$.551	6.61	$1 1/2$.551	6.61	5	4.410	52.92	5	4.410	52.92
2	.735	8.82	2	.735	8.82	6	5.292	63.50	6	5.292	63.50

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ALUMINUM

Common Grades

- 3003** This grade is alloyed with 1.2% manganese to provide a tensile strength range of 17,000 to 30,000 p.s.i. Excellent workability and corrosion resistance. Used for drawing, spinning, fuel tanks, sheet metal work and other applications where slightly higher strength than 1100 is required. Non-heat treatable.
- 5052** This grade is alloyed with 0.8% magnesium. Tensile strength range is 31,000 to 44,000 p.s.i. Very good corrosion resistance, good workability, weldability and strength. Used for aircraft fuel tanks, storm shutters, utensils, electronic mounting plates, etc. Non-heat treatable.
- 6061** This grade is alloyed with 0.8% magnesium and 0.6% silicon. Tensile strength range is 20,000 to 42,000 p.s.i. Good formability, weldability and corrosion resistance. Used for engineering and structural applications, furniture, boats, transportation equipment, etc. Heat treatable.

Common Temper Designations

The first digit following the **H** indicates the specific combination of basic operations, as follows:

- H1** Strain-hardened only.
- H2** Strain-hardened and partially annealed.
- H3** Strain-hardened and stabilized.

The first digit following the **T** indicates specific sequences of basic treatments, as follows:

- T4** Solution heat-treated and naturally aged to substantially stable condition.
- T6** Solution heat-treated and artificially aged.

The following additional digits have been assigned for stress-relieved tempers of wrought products:

- T_51** Stress relieved by stretching. Applies to plate and rolled or cold finished rod and bar when stretched after solution heat treatment, or after cooling from an elevated temperature shaping process. No further straightening after stretching.
- T_510** Stress relieved by stretching. Applies to extruded bar, rod, shapes and tube when stretched after solution heat treatment, or after cooling from an elevated temperature shaping process. No further straightening after stretching.
- T_511** Stress relieved by stretching. Applies to extruded bar, rod, shapes and tube when stretched after solution heat treatment, or after cooling from an elevated temperature shaping process. May receive minor straightening after stretching to comply with standard tolerances.

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