

**B & B** stocks the following items in addition to all the material listed on subsequent pages:

- **Strip, Flat, Round, Square and Tul Bar..... 2-6**
- **Angle, Channel & Beam ..... 7-16**
- **Sheet & Plate..... 17-20**
- **Floor Plate, Expanded & Grating ..... 21-24**
- **Tubing & Pipe ..... 25-32**
- **Stainless ..... 33-44**
- **Aluminum, Copper, Brass ..... 45-57**
- **Fomed Shapes Diagrams..... 58**
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- **Geometric Formulas..... 60**
- **Fraction/decimal Equivalents ..... 61**

- 
- **Used Pipe - 1/2" Thru 48" Diameter**
  - **Used Cable • Cable Clips And Turnbuckles**
  - **Wire Products • Grip-Strut Walkways**
  - **Stainless Steel • Metal Roofing Material**
  - **Corrugated Pipe**

*We also have the following metal preparation services available:*

- **FLAME CUTTING UP TO 3" PLATE**
- **ABRASIVE AND BANDSAW CUTTING**
- **STRAIGHT LINE PLASMA CUTTING UP TO 1"**
- **HORIZONTAL & VERTICAL SAWING**
- **CAPABILITIES UP TO 20" SQUARE**
- **SHEARING**

*Please call us for your metal preparation needs!*

**Bakersfield (661) 589-0381**  
**Toll Free 1-800-794-8909**

**Fax (661) 589-5508**

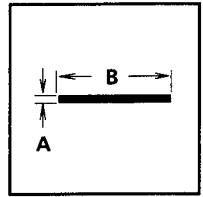
**Santa Maria (805) 349-9991**

**Santa Ana (714) 541-7267**

Monday - Friday 7:00 am to 5:00pm  
Saturday 7:00 am to noon

# STRIP

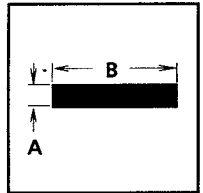
- HOT ROLLED - CARBON STEEL
- STOCK LENGTH: 20 ft



SIZE Inches	WEIGHT - POUNDS		SIZE Inches	WEIGHT - POUNDS	
	Per Foot	20 ft		Per Foot	20 ft
1/8 x 1/2	.213	4.26	3/16 x 1/2	.319	6.38
3/4	.319	6.38	3/4	.478	9.56
1	.425	8.50	1	.638	12.76
1 1/4	.531	10.62	1 1/4	.797	15.94
1 1/2	.638	12.76	1 1/2	.956	19.12
1 3/4	.744	14.88	1 3/4	1.116	22.32
2	.850	17.00	2	1.275	25.50
2 1/2	1.063	21.26	2 1/2	1.594	31.88
3	1.275	25.50	3	1.913	38.26
3 1/2	1.488	29.76	3 1/2	2.231	44.62
4	1.700	34.00	4	2.550	51.00
4 1/2	1.913	38.26	4 1/2	2.869	57.38
5	2.125	42.50	5	3.188	63.76
6	2.550	51.00	6	3.825	76.50
7	2.975	59.50	7	4.463	89.26
8	3.400	68.00	8	5.100	102.00
10	4.250	85.00	10	6.375	127.50
12	5.100	102.00	12	7.650	153.00

# FLAT BAR

- A 36 HOT ROLLED
- 1055 HOT ROLLED PLOW - *selected sizes*
- STOCK LENGTH: 20 ft



SIZE Inches	WEIGHT - POUNDS		SIZE Inches	WEIGHT - POUNDS	
	Per Foot	20 ft		Per Foot	20 ft
1/4 x 1/2	.425	8.50	5/16 x 1/2	.531	10.62
3/4	.638	12.76	3/4	.797	15.94
1	.850	17.00	1	1.063	21.26
1 1/4	1.063	21.26	1 1/4	1.328	26.56
1 1/2	1.275	25.50	1 1/2	1.594	31.88
1 3/4	1.488	29.76	1 3/4	1.859	37.18
2	1.700	34.00	2	2.125	42.50
2 1/4	1.913	38.26	2 1/2	2.656	53.12
2 1/2	2.125	42.50	3	3.188	63.76
3	2.550	51.00	3 1/2	3.719	74.38
3 1/2	2.975	59.50	4	4.250	85.00
4	3.400	68.00	4 1/2	4.781	95.62
4 1/2	3.825	76.50	5	5.313	106.26
5	4.250	85.00	6	6.375	127.50
6	5.100	102.00	7	7.438	148.76
7	5.950	119.00	8	8.500	170.00
8	6.800	136.00			

**B & B Surplus, Inc**  
Bakersfield  
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**B & B Steel Supply**  
Santa Maria  
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**B & B Metals, Inc**  
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# FLAT BAR

SIZE		WEIGHT - POUNDS		SIZE		WEIGHT - POUNDS	
Inches	Per Foot	20 ft		Inches	Per Foot	20 ft	
$\frac{3}{8} \times \frac{1}{2}$	.638	12.75		$\frac{3}{4} \times 1$	2.550	51.00	
$\frac{3}{4}$	.956	19.12		$1\frac{1}{4}$	3.188	63.76	
1	1.275	25.50		$1\frac{1}{2}$	3.825	76.50	
$1\frac{1}{4}$	1.594	31.88		2	5.100	102.00	
$1\frac{1}{2}$	1.913	38.26		$2\frac{1}{2}$	6.375	127.50	
$1\frac{3}{4}$	2.231	44.62		3	7.650	153.00	
2	2.550	51.00		$3\frac{1}{2}$	8.925	178.50	
$2\frac{1}{2}$	3.188	63.76		4	10.200	204.00	
3	3.825	76.50		$4\frac{1}{2}$	11.480	229.60	
$3\frac{1}{2}$	4.463	89.26		5	12.750	255.00	
4	5.100	102.00		6	15.300	306.00	
$4\frac{1}{2}$	5.738	114.76		7	17.850	357.00	
5	6.375	127.50		8	20.400	408.00	
6	7.650	153.00					
7	8.925	178.50		1 x $1\frac{1}{4}$	4.20	85.00	
8	10.200	204.00		$1\frac{1}{2}$	5.10	102.00	
				2	6.80	136.00	
$\frac{1}{2} \times \frac{3}{4}$	1.275	25.50		$2\frac{1}{2}$	8.50	170.00	
1	1.700	34.00		3	10.20	204.00	
$1\frac{1}{4}$	2.125	42.50		$3\frac{1}{2}$	11.90	238.00	
$1\frac{1}{2}$	2.550	51.00		4	13.60	272.00	
$1\frac{3}{4}$	2.975	59.50		$4\frac{1}{2}$	15.30	306.00	
2	3.400	68.00		5	17.00	340.00	
$2\frac{1}{2}$	4.250	85.00		6	20.40	408.00	
3	5.100	102.00		7	23.80	476.00	
$3\frac{1}{2}$	5.950	119.00		8	27.20	544.00	
4	6.800	136.00					
$4\frac{1}{2}$	7.650	153.00		$1\frac{1}{4} \times 2$	8.50	170.00	
5	8.500	170.00		$2\frac{1}{2}$	10.63	212.60	
6	10.200	204.00		3	12.75	255.00	
7	11.900	238.00		$3\frac{1}{2}$	14.88	297.60	
8	13.600	272.00		4	17.00	340.00	
				$4\frac{1}{2}$	19.13	382.60	
$\frac{5}{8} \times \frac{3}{4}$	1.594	31.88		5	21.25	425.00	
1	2.125	42.50		6	25.50	510.00	
$1\frac{1}{4}$	2.656	53.12		7	29.75	595.00	
$1\frac{1}{2}$	3.188	63.76		8	34.00	680.00	
$1\frac{3}{4}$	3.719	74.38					
2	4.250	85.00		$1\frac{1}{2} \times 2$	10.20	204.00	
$2\frac{1}{2}$	5.313	106.26		$2\frac{1}{2}$	12.75	255.00	
3	6.375	127.50		3	15.30	306.00	
$3\frac{1}{2}$	7.438	148.76		$3\frac{1}{2}$	17.85	357.00	
4	8.500	170.00		4	20.40	408.00	
$4\frac{1}{2}$	9.563	191.26		$4\frac{1}{2}$	22.95	459.00	
5	10.630	212.60		5	25.50	510.00	
6	12.750	255.00		6	30.60	612.00	
7	14.880	297.60		7	35.70	714.00	
8	17.000	340.00		8	40.80	816.00	

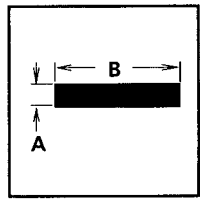
B & B Surplus, Inc  
Bakersfield  
(661) 589-0381

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

# UNIVERSAL MILL PLATE

- A 36 HOT ROLLED  
STOCK LENGTH: 20 ft



SIZE Inches	WEIGHT - POUNDS		SIZE Inches	WEIGHT - POUNDS	
	Per Foot	20 ft		Per Foot	20 ft
$1/4 \times 9$	7.65	153.0	$5/8 \times 9$	19.13	382.6
10	8.50	170.0	10	21.25	425.0
12	10.20	204.0	12	25.50	510.0
14	11.90	238.0	14	29.75	595.0
16	13.60	272.0	16	34.00	680.0
18	15.30	306.0	18	38.25	765.0
20	17.00	340.0	20	42.50	850.0
$5/16 \times 9$	9.56	191.2	$3/4 \times 9$	22.95	459.0
10	10.63	212.6	10	25.50	510.0
12	12.75	255.0	12	30.60	612.0
14	14.88	297.6	14	35.70	714.0
16	17.00	340.0	16	40.80	816.0
18	19.13	382.6	18	45.90	918.0
20	21.25	425.0	20	51.00	1020.0
$3/8 \times 9$	11.48	229.6	1 x 9	30.60	612.0
10	12.75	255.0	10	34.00	680.0
12	15.30	306.0	12	40.80	816.0
14	17.85	357.0	14	47.60	952.0
16	20.40	408.0	16	54.40	1088.0
18	22.95	459.0	18	61.20	1224.0
20	25.50	510.0	20	68.00	1360.0
$1/2 \times 9$	15.30	306.0	$1 1/4 \times 9$	38.25	765.0
10	17.00	340.0	10	42.50	850.0
12	20.40	408.0	12	51.00	1020.0
14	23.80	476.0	14	59.50	1190.0
16	27.20	544.0	16	68.00	1360.0
18	30.60	612.0	$1 1/2 \times 9$	45.90	918.0
20	34.00	680.0	10	51.00	1020.0
			12	61.20	1224.0
			14	71.40	1428.0
			16	81.60	1632.0

# REINFORCING BARS

- GRADE 40 - SIZES 3 to 5
  - GRADE 60 - SIZES 4 to 8
- STOCK LENGTH: 20 ft



BAR NUMBER DESIGNATION	Inches	Per Foot	WEIGHT - POUNDS	
			20 ft	30 ft
3	$3/8$	.376	7.52	11.28
4	$1/2$	.668	13.36	20.04
5	$5/8$	1.043	20.86	31.29
6	$3/4$	1.502	30.04	45.06
7	$7/8$	2.044	40.88	61.32
8	1	2.670	53.80	80.10

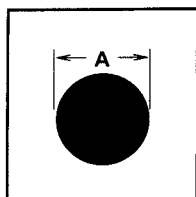
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# ROUND BAR

- 1020 HOT ROLLED
  - 1018 COLD FINISHED
  - 1144 STRESS RELIEVED - *selected sizes*
- STOCK LENGTHS: 12 ft & 20 ft



SIZE			WEIGHT - POUNDS			SIZE			WEIGHT - POUNDS		
Inches	Per Foot	20 ft	Inches	Per Foot	20 ft	Inches	Per Foot	20 ft	Inches	Per Foot	20 ft
1/8	.042	0.84	2	10.681	213.62	2 1/16	11.360	227.20	2 1/8	12.058	241.06
3/16	.094	1.88	2 3/16	12.778	255.56	2 1/4	13.519	270.38	2 5/16	14.280	285.60
1/4	.167	3.34	2 3/8	15.063	301.26	2 7/16	15.866	317.32	2 1/2	16.690	333.80
5/16	.261	5.22	2 3/4	17.535	350.70	2 5/8	18.400	368.00	2 9/16	17.535	350.70
3/8	.376	7.52	2 5/8	18.400	368.00	2 11/16	19.287	385.74	2 3/4	20.195	403.90
7/16	.511	10.22	2 3/4	20.195	403.90	2 13/16	21.123	422.46	2 7/8	22.072	441.42
1/2	.668	13.36	2 7/8	22.072	441.42	2 15/16	23.042	460.84	2 7/8	22.072	441.42
9/16	.845	16.90	3	24.033	480.66	3 1/4	28.206	564.12	3 1/8	30.417	608.34
5/8	1.043	20.86	3 1/4	28.206	564.12	3 3/8	30.417	608.34	3 1/2	32.712	654.24
11/16	1.262	25.24	3 1/2	32.712	654.24	3 3/4	37.552	751.04	3 3/4	37.552	751.04
3/4	1.502	30.04	3 3/4	37.552	751.04	3 15/16	41.401	828.02	3 15/16	41.401	828.02
13/16	1.763	35.26	4	42.726	854.52	4 1/4	48.233	964.66	4	42.726	854.52
7/8	2.044	40.88	4 1/4	48.233	964.66	4 1/2	54.075	1081.50	4 1/4	48.233	964.66
15/16	2.347	46.94	4 1/2	54.075	1081.50	4 3/4	60.250	1205.00	4 1/2	54.075	1081.50
1	2.670	53.40	4 3/4	60.250	1205.00	5	66.759	1335.18	5	66.759	1335.18
1 1/16	3.015	60.30	5	66.759	1335.18	5 1/2	80.778	1615.56	5 1/2	80.778	1615.56
1 1/8	3.379	67.58	5 1/2	80.778	1615.56	6	96.130	1922.60	6	96.130	1922.60
1 3/16	3.766	75.32	6	96.130	1922.60						
1 1/4	4.173	83.46									
1 5/16	4.600	92.00									
1 3/8	5.049	100.98									
1 7/16	5.518	110.36									
1 1/2	6.008	120.16									
1 9/16	6.520	130.40									
1 5/8	7.051	141.02									
1 11/16	7.604	152.08									
1 3/4	8.178	163.56									
1 13/16	8.773	175.46									
1 7/8	9.388	187.76									
1 15/16	10.024	200.48									

## TYPICAL MECHANICAL PROPERTIES

GRADE	TENSILE STRENGTH (psi)	YIELD POINT (psi)	MACHINABILITY RATING (CD 1112 = 100%)	HARDNESS
1020	58,000	38,000	52%	116 BHN
1018	64,000	54,000	66%	126 BHN
1144	132,300	100,000	83%	250 BHN

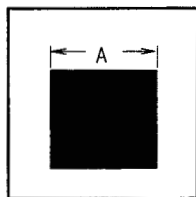
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# SQUARE BAR

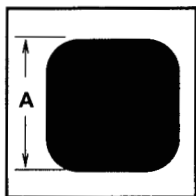
- A36 HOT ROLLED  
STOCK LENGTH: 20 ft
- 1018 COLD FINISHED  
STOCK LENGTH: 12 ft



SIZE Inches	WEIGHT - POUNDS			SIZE Inches	WEIGHT - POUNDS		
	Per Foot	12 ft	20 ft		Per Foot	12 ft	20 ft
3/16	.120	1.44	2.40	1 1/8	4.303	51.48	86.06
1/4	.213	2.56	4.26	1 1/4	5.313	63.76	106.26
5/16	.332	3.98	6.64	1 3/8	6.428	77.14	128.56
3/8	.478	5.74	9.56	1 1/2	7.650	91.80	153.00
7/16	.651	7.81	13.02	1 5/8	8.978	107.74	179.56
1/2	.850	10.20	17.00	1 3/4	10.413	124.92	208.26
9/16	1.076	12.91	21.52	1 7/8	11.953	143.40	239.06
5/8	1.328	15.94	26.56	2	13.600	163.20	272.00
3/4	1.913	22.96	38.26	2 1/4	17.213	206.52	344.26
7/8	2.603	31.24	52.06	2 1/2	21.250	255.00	425.00
1	3.400	40.80	68.00	2 3/4	25.713	308.52	514.26

# TUL BAR - Solid

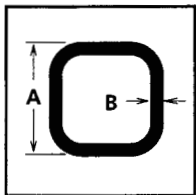
- 2 1/4 INCH SQUARE
- SPECIAL QUALITY
- 1070 HOT ROLLED  
STOCK LENGTHS: 21, 28, 32, & 42 ft



SIZE Inches	WEIGHT - POUNDS				
	Per Foot	21 ft	28 ft	32 ft	42 ft
2 1/4	17.21	361.41	481.88	550.72	722.82

# TUL BAR - Hollow

- 2 1/4 x 2 1/4 x .250 In
- SPECIAL QUALITY
- ASTM A 500 - 70,000 PSI MIN. YIELD  
STOCK LENGTHS: 21, 28, 32, & 42 ft



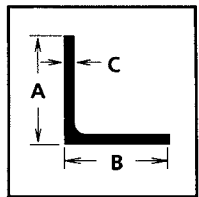
SIZE Inches	WEIGHT - POUNDS				
	Per Foot	21 ft	28 ft	32 ft	42 ft
2 1/4	7.01	147.21	196.28	224.32	294.42

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# ANGLE - Bar Sizes

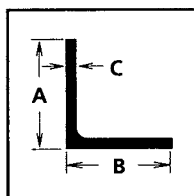


- A 36 HOT ROLLED
- STOCK LENGTHS: 20 & 40 ft

SIZE - INCHES			WEIGHT - POUNDS			
A	B	C	Per Foot	20 ft	30 ft	40 ft
1/2	x 1/2	x 1/8	.38	7.60	11.40	
3/4	x 3/4	x 1/8	.59	11.80	17.70	
1	x 1	x 1/8	.80	16.00	24.00	
		3/16	1.16	23.20	34.80	
		1/4	1.49	29.80	44.70	
1 1/4	x 1 1/4	x 1/8	1.01	20.20	30.30	
		3/16	1.48	29.60	44.40	
		1/4	1.92	38.40	57.60	
1 1/2	x 1 1/2	x 1/8	1.23	24.60	36.90	49.20
		3/16	1.80	36.00	54.00	72.00
		1/4	2.34	46.80	70.20	93.60
		3/8	3.35	67.00	100.50	134.00
1 3/4	x 1 3/4	x 1/8	1.44	28.80	43.20	57.60
		3/16	2.12	42.40	63.60	84.80
		1/4	2.77	55.40	83.10	110.80
2	x 1 1/2	x 1/8	1.44	28.80	43.20	57.60
		3/16	2.12	42.40	63.60	84.80
		1/4	2.77	55.40	83.10	110.80
2	x 2	x 1/8	1.65	33.00	49.50	66.00
		3/16	2.44	48.80	73.20	97.60
		1/4	3.19	63.80	95.70	127.60
		5/16	3.92	78.40	117.60	156.80
		3/8	4.70	94.00	141.00	188.00
2 1/2	x 1 1/2	x 3/16	2.44	48.80	73.20	97.60
		1/4	3.19	63.80	95.70	127.60
2 1/2	x 2	x 3/16	2.75	55.00	82.50	110.00
		1/4	3.62	72.40	108.60	144.80
		5/16	4.50	90.00	135.00	180.00
		3/8	5.30	106.00	159.00	212.00
2 1/2	x 2 1/2	x 3/16	3.07	61.40	92.10	122.80
		1/4	4.10	82.00	123.00	164.00
		5/16	5.00	100.00	150.00	200.00
		3/8	5.90	118.00	177.00	236.00
		1/2	7.70	154.00	231.00	308.00

# ANGLE - Structural

- A 36 HOT ROLLED
- STOCK LENGTHS: 20, 30, & 40 ft



SIZE - INCHES			WEIGHT - POUNDS			
A	B	C	Per Foot	20 ft	30 ft	40 ft
3	x 2	x 3/16	3.07	61	92	123
		1/4	4.10	82	123	164
		5/16	5.00	100	150	200
		3/8	5.90	118	177	236
		1/2	7.70	154	231	308
3	x 2 1/2	x 3/16	3.39	68	102	136
		1/4	4.50	90	135	180
		5/16	5.60	112	168	224
		3/8	6.60	132	198	264
		1/2	8.50	170	255	340
3	x 3	x 3/16	3.71	74	111	148
		1/4	4.90	98	147	196
		5/16	6.10	122	183	244
		3/8	7.20	144	216	288
		1/2	9.40	188	282	376
3 1/2	x 2 1/2	x 1/4	4.90	98	147	196
		5/16	6.10	122	183	244
		3/8	7.20	144	216	288
		1/2	9.40	188	282	376
3 1/2	x 3	x 1/4	5.40	108	162	216
		5/16	6.60	132	198	264
		3/8	7.90	158	237	316
		1/2	10.20	204	306	408
3 1/2	x 3 1/2	x 1/4	5.80	116	174	232
		5/16	7.20	144	216	288
		3/8	8.50	170	255	340
		1/2	11.10	222	333	444
4	x 3	x 1/4	5.80	116	174	232
		5/16	7.20	144	216	288
		3/8	8.50	170	255	340
		1/2	11.10	222	333	444
		5/8	13.60	272	408	544
4	x 3 1/2	x 1/4	6.20	124	186	248
		5/16	7.70	154	231	308
		3/8	9.10	182	273	364
		1/2	11.90	238	357	476
4	x 4	x 1/4	6.60	132	198	264
		5/16	8.20	164	246	328
		3/8	9.80	196	294	392
		7/16	11.30	226	339	452
		1/2	12.80	256	384	512
		5/8	15.70	314	471	628
3/4	18.50	370	555	740		

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# ANGLE - Structural

SIZE - INCHES			WEIGHT - POUNDS			
A	B	C	Per Foot	20 ft	30 ft	40 ft
5	x 3	x 1/4	6.60	132	198	264
		5/16	8.20	164	246	328
		3/8	9.80	196	294	392
		7/16	11.30	226	339	452
		1/2	12.80	256	384	512
5	x 3 1/2	x 1/4	7.00	140	210	280
		5/16	8.70	174	261	348
		3/8	10.40	208	312	416
		7/16	12.00	240	360	480
		1/2	13.60	272	408	544
		5/8	16.80	336	504	672
3/4	19.80	396	594	792		
5	x 5	x 1/4	8.25	165	248	330
		5/16	10.30	206	309	412
		3/8	12.30	246	369	492
		1/2	16.20	324	486	648
		5/8	20.00	400	600	800
3/4	23.60	472	708	944		
6	x 3 1/2	x 5/16	9.80	196	294	392
		3/8	11.70	234	351	468
		1/2	15.30	306	459	612
6	x 4	x 5/16	10.30	206	309	412
		3/8	12.30	246	369	492
		1/2	16.20	324	486	648
		5/8	20.00	400	600	800
		3/4	23.60	472	708	944
7/8	27.20	544	816	1088		
6	x 6	x 1/4	10.10	202	303	404
		5/16	12.50	250	375	500
		3/8	14.90	298	447	596
		1/2	19.60	392	588	784
		5/8	24.20	484	726	968
		3/4	28.70	574	861	1148
1	37.40	748	1122	1496		
7	x 4	x 3/8	13.60	272	408	544
		1/2	17.90	358	537	716
		5/8	22.10	442	663	884
		3/4	26.20	524	786	1048
8	x 4	x 7/16	17.20	344	516	688
		1/2	19.60	392	588	784
		5/8	24.20	484	726	968
		3/4	28.70	574	861	1148
8	x 6	x 1/2	23.00	460	690	920
		5/8	28.50	570	855	1140
		3/4	33.80	676	1014	1352
		1	44.20	884	1326	1768
8	x 8	x 1/2	26.40	528	792	1056
		5/8	32.70	654	981	1308
		3/4	38.90	778	1167	1556
		1	51.00	1020	1530	2040

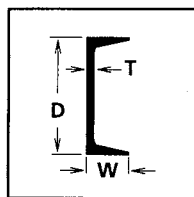
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## CHANNEL - Bar Size

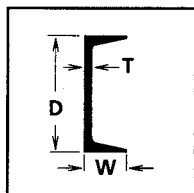
- A 36 HOT ROLLED  
STOCK LENGTH: 20 ft



SIZE - INCHES			Per Foot	WEIGHT - POUNDS	
D	W	T		20 ft	30 ft
3/4	x 3/8	x 1/8	.56	11.20	16.80
1	x 3/8	x 1/8	.68	13.60	20.40
1	x 1/2	x 1/8	.84	16.80	25.20
1 1/4	x 1/2	x 1/8	1.00	20.00	30.00
1 1/2	x 1/2	x 1/8	1.12	22.40	33.60
1 1/2	x 9/16	x 3/16	1.44	28.80	43.20
1 1/2	x 3/4	x 1/8	1.17	23.40	35.10
1 3/4	x 1/2	x 3/16	1.55	31.00	46.50
2	x 1/2	x 1/8	1.43	28.60	42.90
2	x 9/16	x 3/16	1.86	37.20	55.80
2	x 5/8	x 1/4	2.18	43.60	65.40
2	x 1	x 1/8	1.59	31.80	47.70
2	x 1	x 3/16	2.32	46.40	69.60
2 1/2	x 5/8	x 3/16	2.27	45.40	68.10

## CHANNEL - Structural

- A 36 HOT ROLLED  
STOCK LENGTHS: 20, 30, & 40 ft



DEPTH INCHES D	POUNDS PER FOOT	SIZE-INCHES		WEIGHT - POUNDS		
		W	T	20 ft	30 ft	40 ft
3	3.50	1.375	.135	70	105	140
	4.10	1.410	.170	82	123	164
	5.00	1.498	.258	100	150	200
	6.00	1.596	.356	120	180	240
4	4.50	1.560	.140	90	135	180
	5.40	1.580	.180	108	162	216
	6.25	1.647	.247	125	188	250
	7.25	1.720	.320	145	218	290
5	6.70	1.750	.190	134	201	268
	9.00	1.885	.325	180	270	360
6	8.20	1.920	.200	164	246	328
	10.50	2.034	.314	210	315	420
	13.00	2.157	.437	260	390	520

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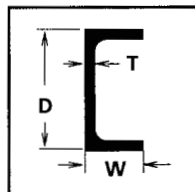
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# CHANNEL - Structural

DEPTH INCHES D	POUNDS PER FOOT	SIZE - INCHES		WEIGHT - POUNDS		
		W	T	20 ft	30 ft	40 ft
7	9.80	2.090	.210	196	294	392
	12.25	2.194	.314	245	368	490
	14.75	2.299	.419	295	443	590
8	11.50	2.260	.220	230	345	460
	13.75	2.343	.303	275	413	550
	18.75	2.527	.487	375	563	750
9	13.40	2.430	.230	268	402	536
	15.00	2.485	.285	300	450	600
	20.00	2.648	.448	400	600	800
10	15.30	2.600	.240	306	459	612
	20.00	2.739	.379	400	600	800
	25.00	2.886	.526	500	750	1000
	30.00	3.033	.673	600	900	1200
12	20.70	2.940	.280	414	621	828
	25.00	3.047	.387	500	750	1000
	30.00	3.170	.510	600	900	1200
15	33.90	3.400	.400	678	1017	1356
	40.00	3.520	.520	800	1200	1600
	50.00	3.716	.716	1000	1500	2000

## SHIP /MC / CHANNEL

- A 36 HOT ROLLED  
*call for availability*



DEPTH INCHES D	POUNDS PER FOOT	SIZE-INCHES		WEIGHT - POUNDS		
		W	T	20 ft	30 ft	40 ft
4	13.8	2.500	.500	276	414	552
6	12.0	2.500	.313	240	360	480
	15.3	3.500	.340	306	459	612
	18.7	2.975	.350	374	561	748
8	21.4	3.450	.375	428	642	856
	22.8	3.500	.425	456	684	912
	22.0	3.450	.325	440	660	880
10	28.5	3.950	.425	570	855	1140
	31.0	3.450	.450	620	930	1240
12	35.0	3.767	.467	700	1050	1400
	42.7	3.950	.450	854	1281	1708
18	45.8	4.0	.500	916	1374	1832

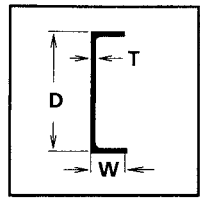
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## JR CHANNEL

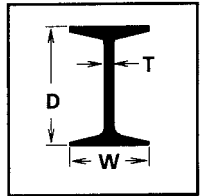
- A 36 HOT ROLLED  
*call for availability*



DEPTH INCHES D	POUNDS PER FOOT	SIZE - INCHES		WEIGHT - POUNDS		
		W	T	20 ft	30 ft	40 ft
8	8.5	1.875	.180	170	255	340
10	6.5	1.125	.150	130	195	260
	8.4	1.500	.170	168	252	336
12	10.6	1.500	.190	212	318	424

## JR I BEAM

- A 36 HOT ROLLED  
*call for availability*



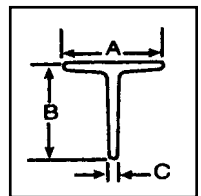
DEPTH INCHES D	POUNDS PER FOOT	SIZE - INCHES		WEIGHT - POUNDS		
		W	T	20 ft	30 ft	40 ft
6	4.4	1.875	.125	88	132	176
7	5.5	2.125	.125	110	165	220
8	6.5	2.250	.125	130	195	260
10	9.0	2.750	.188	180	270	360
12	11.8	3.000	.188	236	354	472

## TEES - BAR SIZE

Conforms to ASTM A36

Stock Lengths: 20 Ft.

Any size of beam can be split to make two TEE SECTIONS. Most beam sizes, in any length, are flame cut. All stock sizes or special Tees can be galvanized.



FLANGE IN INCHES (A)	STEM IN INCHES (B)	STEM THICKNESS IN INCHES (C)	WEIGHT PER FT. IN LBS.
1 1/2	1 1/2	3/16	1.90
1 1/2	1 1/2	1/4	2.43
1 3/4	1 3/4	3/16	2.16
2	2	1/4	3.62
2 1/2	2 1/2	1/4	4.60

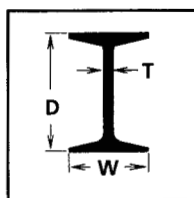
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# STD I BEAM

- A 36 HOT ROLLED
- STOCK LENGTHS: 20 & 40 ft



DEPTH INCHES D	POUNDS PER FOOT	SIZE - INCHES		WEIGHT - POUNDS		
		W	T	20 ft	30 ft	40 ft
3	5.70	2.330	.170	114	171	228
	7.50	2.509	.349	150	225	300
4	7.70	2.660	.190	154	231	308
	9.50	2.796	.326	190	285	380
5	10.00	3.000	.210	200	300	400
	14.75	3.284	.494	295	443	590
6	12.50	3.330	.230	250	375	500
	17.25	3.565	.465	345	518	690
7	15.30	3.660	.250	306	459	612
	20.00	3.860	.450	400	600	800
8	18.40	4.000	.270	368	552	736
	23.00	4.171	.441	460	690	920
10	25.40	4.660	.310	508	762	1016
	35.00	4.944	.594	700	1050	1400
12	31.80	5.000	.350	636	954	1272
	35.00	5.078	.428	700	1050	1400
	40.80	5.250	.460	816	1224	1632
	50.00	5.477	.687	1000	1500	2000
15	42.90	5.500	.410	858	1287	1716
	50.00	5.640	.550	1000	1500	2000
18	54.70	6.000	.460	1094	1641	2188
	70.00	6.251	.711	1400	2100	2800
20	66.00	6.250	.500	1320	1980	2640
	75.00	6.391	.641	1500	2250	3000
24	80.00	7.000	.747	1598	2397	3196

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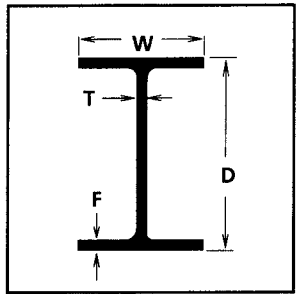
# WIDE FLANGE & H BEAMS

Decimal dimensions are in accordance with those listed in ASTM A6 -77b. The AISC criteria that governs the method for determining the approximate dimensions are as follows:

- **D, W** - Depth of section and Width of flange rounded to the nearest  $\frac{1}{8}$ "
- **F, T** - Flange and Web Thicknesses rounded to the nearest  $\frac{1}{16}$ "

• A36 / A572 GR 50 / A 992

STOCK LENGTHS: 20 ft & 40 ft



SECTION NUMBER		POUNDS PER FOOT	DEPTH OF SECTION	FLANGE		WEB THICKNESS
				WIDTH	THICKNESS	
W4	x	13	4 $\frac{1}{8}$	4	$\frac{3}{8}$	$\frac{1}{4}$
W5	x	16	5	5	$\frac{3}{8}$	$\frac{1}{4}$
		19	5 $\frac{1}{8}$	5	$\frac{7}{16}$	$\frac{1}{4}$
W6	x	9	5 $\frac{7}{8}$	4	$\frac{3}{16}$	$\frac{3}{16}$
		12	6	4	$\frac{1}{4}$	$\frac{1}{4}$
		16	6 $\frac{1}{4}$	4	$\frac{3}{8}$	$\frac{1}{4}$
W6	x	15	6	6	$\frac{1}{4}$	$\frac{1}{4}$
		20	6 $\frac{1}{4}$	6	$\frac{3}{8}$	$\frac{1}{4}$
		25	6 $\frac{3}{8}$	6 $\frac{1}{8}$	$\frac{7}{16}$	$\frac{5}{16}$
W8	x	10	7 $\frac{7}{8}$	4	$\frac{3}{16}$	$\frac{3}{16}$
		13	8	4	$\frac{1}{4}$	$\frac{1}{4}$
		15	8 $\frac{1}{8}$	4	$\frac{5}{16}$	$\frac{1}{4}$
W8	x	18	8 $\frac{1}{8}$	5 $\frac{1}{4}$	$\frac{5}{16}$	$\frac{1}{4}$
		21	8 $\frac{1}{4}$	5 $\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{4}$
W8	x	24	7 $\frac{7}{8}$	6 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$
		28	8	6 $\frac{1}{2}$	$\frac{7}{16}$	$\frac{5}{16}$
W8	x	31	8	8	$\frac{7}{16}$	$\frac{5}{16}$
		35	8 $\frac{1}{8}$	8	$\frac{1}{2}$	$\frac{5}{16}$
		40	8 $\frac{1}{4}$	8 $\frac{1}{8}$	$\frac{9}{16}$	$\frac{3}{8}$
		48	8 $\frac{1}{2}$	8 $\frac{1}{8}$	$\frac{11}{16}$	$\frac{3}{8}$
		58	8 $\frac{3}{4}$	8 $\frac{1}{4}$	$\frac{13}{16}$	$\frac{1}{2}$
		67	9	8 $\frac{1}{4}$	$\frac{15}{16}$	$\frac{9}{16}$
W10	x	12	9 $\frac{7}{8}$	4	$\frac{3}{16}$	$\frac{3}{16}$
		15	10	4	$\frac{1}{4}$	$\frac{1}{4}$
		17	10 $\frac{1}{8}$	4	$\frac{5}{16}$	$\frac{1}{4}$
		19	10 $\frac{1}{4}$	4	$\frac{3}{8}$	$\frac{1}{4}$
W10	x	22	10 $\frac{1}{8}$	5 $\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{4}$
		26	10 $\frac{3}{8}$	5 $\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{4}$
		30	10 $\frac{1}{2}$	5 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{5}{16}$
W10	x	33	9 $\frac{3}{4}$	8	$\frac{7}{16}$	$\frac{5}{16}$
		39	9 $\frac{7}{8}$	8	$\frac{1}{2}$	$\frac{5}{16}$
		45	10 $\frac{1}{8}$	8	$\frac{5}{8}$	$\frac{3}{8}$

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# WIDE FLANGE & H BEAM

SECTION NUMBER	POUNDS PER FOOT	DEPTH OF SECTION	FLANGE		WEB THICKNESS	
			WIDTH	THICKNESS		
W10	x	49	10	10	9/16	5/16
		54	10 <sup>1</sup> / <sub>8</sub>	10	5/8	3/8
		60	10 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	7/16
		68	10 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>8</sub>	3/4	1/2
		77	10 <sup>5</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>	7/8	1/2
		88	10 <sup>7</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>	1	5/8
		100	11 <sup>1</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>
	112	11 <sup>3</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	3/4	
W12	x	14	11 <sup>7</sup> / <sub>8</sub>	4	1/4	3/16
		16	12	4	1/4	1/4
		19	12 <sup>1</sup> / <sub>8</sub>	4	3/8	1/4
		22	12 <sup>1</sup> / <sub>4</sub>	4	7/16	1/4
W12	x	26	12 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	3/8	1/4
		30	12 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	7/16	1/4
		35	12 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	1/2	5/16
W12	x	40	12	8	1/2	5/16
		45	12	8	9/16	5/16
		50	12 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>8</sub>	5/8	3/8
W12	x	53	12	10	9/16	3/8
		58	12 <sup>1</sup> / <sub>4</sub>	10	5/8	3/8
W12	x	65	12 <sup>1</sup> / <sub>8</sub>	12	5/8	3/8
		72	12 <sup>1</sup> / <sub>4</sub>	12	1 <sup>1</sup> / <sub>16</sub>	7/16
W12	x	79	12 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>8</sub>	3/4	1/2
		87	12 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>8</sub>	13/16	1/2
		96	12 <sup>3</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>8</sub>	7/8	9/16
W12	x	106	12 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>4</sub>	1	5/8
		120	13 <sup>1</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>
		136	13 <sup>3</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	13/16
W14	x	22	13 <sup>3</sup> / <sub>4</sub>	5	5/16	1/4
		26	13 <sup>7</sup> / <sub>8</sub>	5	7/16	1/4
W14	x	30	13 <sup>7</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	3/8	1/4
		34	14	6 <sup>3</sup> / <sub>4</sub>	7/16	5/16
		38	14 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	1/2	5/16
W14	x	43	13 <sup>5</sup> / <sub>8</sub>	8	1/2	5/16
		48	13 <sup>3</sup> / <sub>4</sub>	8	5/8	5/16
		53	13 <sup>7</sup> / <sub>8</sub>	8	1 <sup>1</sup> / <sub>16</sub>	3/8
W14	x	61	13 <sup>7</sup> / <sub>8</sub>	10	5/8	3/8
		68	14	10	3/4	7/16
		74	14 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>8</sub>	13/16	7/16
		82	14 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>8</sub>	7/8	1/2
W14	x	90	14	14 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	7/16
		99	14 <sup>1</sup> / <sub>4</sub>	14 <sup>5</sup> / <sub>8</sub>	3/4	1/2
W14	x	109	14 <sup>3</sup> / <sub>8</sub>	14 <sup>5</sup> / <sub>8</sub>	7/8	1/2
		120	14 <sup>1</sup> / <sub>2</sub>	14 <sup>5</sup> / <sub>8</sub>	15/16	9/16
		132	14 <sup>5</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>4</sub>	1	5/8

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# WIDE FLANGE & H BEAM

SECTION NUMBER		POUNDS PER FOOT	DEPTH OF SECTION	FLANGE		WEB THICKNESS
				WIDTH	THICKNESS	
W14	x	145	14 <sup>3</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>
		159	15	15 <sup>5</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	3/4
		176	15 <sup>1</sup> / <sub>4</sub>	15 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>
		193	15 <sup>1</sup> / <sub>2</sub>	15 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>16</sub>	7/8
W16	x	26	15 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	3/8	1/4
		31	15 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	7/16	1/4
W16	x	36	15 <sup>7</sup> / <sub>8</sub>	7	7/16	5/16
		40	16	7	1/2	5/16
		45	16 <sup>1</sup> / <sub>8</sub>	7	9/16	3/8
		50	16 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	5/8	3/8
		57	16 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	7/16
W16	x	67	16 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	3/8
		77	16 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	3/4	7/16
		89	16 <sup>1</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>8</sub>	7/8	1/2
		100	17	10 <sup>3</sup> / <sub>8</sub>	1	9/16
W18	x	35	17 <sup>3</sup> / <sub>4</sub>	6	7/16	5/16
		40	17 <sup>7</sup> / <sub>8</sub>	6	1/2	5/16
		46	18	6	5/8	3/8
W18	x	50	18	7 <sup>1</sup> / <sub>2</sub>	9/16	3/8
		55	18 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	5/8	3/8
		60	18 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	7/16
		65	18 <sup>3</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	3/4	7/16
		71	18 <sup>1</sup> / <sub>2</sub>	7 <sup>5</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	1/2
W18	x	76	18 <sup>1</sup> / <sub>4</sub>	11	1 <sup>1</sup> / <sub>16</sub>	7/16
		86	18 <sup>3</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>8</sub>	3/4	1/2
		97	18 <sup>5</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>8</sub>	7/8	9/16
		106	18 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>16</sub>	9/16
		119	19	11 <sup>1</sup> / <sub>4</sub>	1 <sup>15</sup> / <sub>16</sub>	5/8
W21	x	44	20 <sup>5</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	7/16	3/8
		50	20 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	9/16	3/8
		57	21	6 <sup>1</sup> / <sub>2</sub>	5/8	3/8
W21	x	62	21	8 <sup>1</sup> / <sub>4</sub>	5/8	3/8
		68	21 <sup>1</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	7/16
		73	21 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	3/4	7/16
		83	21 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	1/2
		93	21 <sup>5</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	9/16
W21	x	101	21 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>16</sub>	1/2
		111	21 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>8</sub>	7/8	9/16
		122	21 <sup>5</sup> / <sub>8</sub>	12 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	5/8
		132	21 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	5/8
		147	22	12 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	3/4
W24	x	55	23 <sup>5</sup> / <sub>8</sub>	7	1/2	3/8
		62	23 <sup>3</sup> / <sub>4</sub>	7	9/16	7/16
W24	x	68	23 <sup>3</sup> / <sub>4</sub>	9	9/16	7/16
		76	23 <sup>7</sup> / <sub>8</sub>	9	1 <sup>1</sup> / <sub>16</sub>	7/16
		84	24 <sup>1</sup> / <sub>8</sub>	9	3/4	1/2
		94	24 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>8</sub>	7/8	1/2

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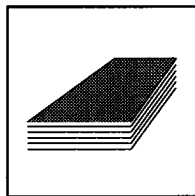
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# SHEET - Hot Rolled

- STOCK SIZES (inches):  
 WIDTHS - 48, 60, & 72  
 LENGTHS - 96, 120, & 144



SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>16 Ga. (.0598)</b> 2.5 LBS per sq. ft.		<b>12 Ga. (.1046)</b> 4.375 LBS per sq. ft.		72 x 96	270.0
36 x 96	60.0	36 x 96	105.0	120	337.5
120	75.0	120	131.3	144	405.0
144	90.0	144	157.5	<hr/>	
48 x 96	80.0	48 x 96	140.0	<b>9 Ga. (.1495)</b> 6.25 LBS per sq. ft.	
120	100.0	120	175.0	48 x 96	200.0
144	120.0	144	210.0	120	250.0
60 x 96	100.0	60 x 96	175.0	144	300.0
120	125.0	120	218.8	60 x 96	250.0
144	150.0	144	262.5	120	312.5
<hr/>		72 x 96	210.0	144	375.0
<b>14 Ga. (.0747)</b> 3.125 LBS per sq. ft.		120	262.5	<hr/>	
36 x 96	75.0	144	315.0	<b>8 Ga. (.1644)</b> 6.875 LBS per sq. ft.	
120	93.8	<hr/>		48 x 96	220.0
144	112.5	<b>11 Ga. (.1196)</b> 5.0 LBS per sq. ft.		120	275.0
48 x 96	100.0	48 x 96	160.0	144	330.0
120	125.0	120	200.0	60 x 96	275.0
144	150.0	144	240.0	120	343.8
60 x 96	125.0	60 x 96	200.0	144	412.5
120	156.3	120	250.0	<hr/>	
144	187.5	144	300.0	<b>7 Ga. (.1793)</b> 7.5 LBS per sq. ft.	
72 x 96	150.0	<hr/>		36 x 96	180.0
120	187.5	<b>10 Ga. (.1345)</b> 5.225 LBS per sq. ft.		120	225.0
144	225.0	36 x 96	135.0	144	270.0
<hr/>		120	168.8	48 x 96	240.0
<b>13 Ga. (.0897)</b> 3.75 LBS per sq. ft.		144	202.5	120	300.0
48 x 96	120.0	48 x 96	180.0	144	360.0
120	150.0	120	225.0	60 x 96	300.0
144	180.0	144	270.0	120	375.0
60 x 96	150.0	60 x 96	225.0	144	450.0
120	187.5	120	281.3	72 x 96	360.0
144	225.0	144	337.5	120	450.0
<hr/>		<hr/>		144	540.0

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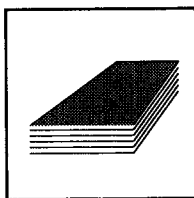
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# PLATE

- A 36 HOT ROLLED
- 1045 PLOW
- ABRASION RESISTANT
- T-1

*call for  
availability*



SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>3/16 INCH</b> 7.65 LBS per sq. ft.		<b>5/16 INCH</b> 12.75 LBS per sq. ft.		<b>1/2 INCH</b> 20.4 LBS per sq. ft.	
48 x 96	244.8	36 x 96	306.0	36 x 96	489.6
120	306.0	120	382.5	120	612.0
144	367.2	144	459.0	144	734.4
		240	765.0	240	1224.0
60 x 96	306.0	48 x 96	408.0	48 x 96	652.8
120	382.5	120	510.0	120	816.0
144	459.0	144	612.0	144	979.2
240	765.0	240	1020.0	240	1632.0
72 x 96	367.2	60 x 96	510.0	60 x 96	816.0
120	459.0	120	637.5	120	1020.0
144	550.8	144	765.0	144	1224.0
240	918.0	240	1275.0	240	2040.0
96 x 96	489.6	72 x 96	612.0	72 x 96	979.2
120	612.0	120	765.0	120	1224.0
144	734.4	144	918.0	144	1468.8
240	1224.0	240	1530.0	240	2448.0
<b>1/4 INCH</b> 10.2 LBS per sq. ft.		96 x 120	1020.0	96 x 120	1632.0
36 x 96	244.8	144	1224.0	144	1958.4
120	306.0	240	2040.0	240	3264.0
144	367.2	<b>3/8 INCH</b> 15.3 LBS per sq. ft.		<b>5/8 INCH</b> 25.5 LBS per sq. ft.	
48 x 96	326.4	36 x 96	367.2	48 x 96	816.0
120	408.0	120	459.0	120	1020.0
144	489.6	144	550.8	144	1224.0
240	816.0	240	918.0	240	2040.0
60 x 96	408.0	48 x 96	489.6	60 x 96	1020.0
120	510.0	120	612.0	120	1275.0
144	612.0	144	734.4	144	1530.0
240	1020.0	240	1224.0	240	2550.0
72 x 96	489.6	60 x 96	612.0	72 x 96	1224.0
120	612.0	120	765.0	120	1530.0
144	734.4	144	918.0	144	1836.0
240	1224.0	240	1530.0	240	3060.0
96 x 96	652.8	96 x 96	979.2	96 x 120	2040.0
120	816.0	120	1224.0	240	4080.0
144	979.2	144	1468.8		
240	1632.0	240	2448.0		

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# PLATE

SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>3/4 INCH</b> 30.6 LBS per sq. ft.		96 x 96	2611.2	72 x 96	3916.8
		120	3264.0	120	4896.0
		240	6528.0	240	9792.0
<hr/>		<hr/>		<hr/>	
48 x 96	979.2	<b>1 1/4 INCH</b> 51.0 LBS per sq. ft.		<b>2 1/4 INCH</b> 91.8 LBS per sq. ft.	
120	1224.0	60 x 96	2040.0	60 x 96	3672.0
144	1468.8	120	2550.0	120	4590.0
240	2448.0	144	3060.0	144	5508.0
60 x 96	1224.0	72 x 96	2448.0	72 x 96	4406.0
120	1530.0	120	3060.0	120	5508.0
144	1836.0	240	6120.0	240	11016.0
240	3860.0	96 x 96	3264.0	<hr/>	
72 x 96	1468.8	120	4080.0	<b>2 1/2 INCH</b> 102.0 LBS per sq. ft.	
120	1836.0	240	8160.0	72 x 96	4896.0
144	2203.2	<hr/>		120	6120.0
240	3672.0	<b>1 1/2 INCH</b> 61.2 LBS per sq. ft.		240	12240.0
96 x 96	1958.4	60 x 96	2448.0	<hr/>	
120	2448.0	120	3060.0	<b>2 3/4 INCH</b> 112.2 LBS per sq. ft.	
144	2937.6	240	6120.0	<hr/>	
240	4896.0	72 x 96	2937.6	<b>3 INCH</b> 122.4 LBS per sq. ft.	
<hr/>		120	3672.0	<hr/>	
<b>7/8 INCH</b> 35.7 LBS per sq. ft.		240	7344.0	<b>3 1/2 INCH</b> 142.8 LBS per sq. ft.	
60 x 96	1428.0	<hr/>		<hr/>	
120	1785.0	<b>1 3/4 INCH</b> 71.4 LBS per sq. ft.		<b>4 INCH</b> 163.2 LBS per sq. ft.	
144	2142.0	60 x 96	2856.0	<hr/>	
240	3570.0	120	3570.0	<b>4 1/2 INCH</b> 183.6 LBS per sq. ft.	
72 x 96	1713.6	240	7160.0	<hr/>	
120	2142.0	72 x 96	3427.2	<b>5 INCH</b> 204.0 LBS per sq. ft.	
144	2570.4	120	4284.0	<hr/>	
240	4284.0	240	8568.0	<hr/>	
<hr/>		<hr/>		<hr/>	
<b>1 INCH</b> 40.8 LBS per sq. ft.		60 x 96	3264.0	All plate weights are theoretical values, and should be used for estimating only.	
48 x 96	1305.6	120	4080.0		
120	1632.0	240	8160.0		
144	1958.4	<hr/>			
240	3264.0	<b>2 INCH</b> 81.6 LBS per sq. ft.			
60 x 96	1632.0	60 x 96	3264.0		
120	2040.0	120	4080.0		
144	2448.0	240	8160.0		
240	4080.0	<hr/>			
72 x 96	1958.4	<hr/>			
120	2448.0	<hr/>			
144	2937.6	<hr/>			
240	4896.0	<hr/>			

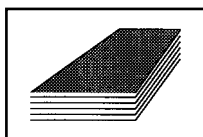
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# SHEET - Galvanized

• STOCK SIZE: 48 in x 120 in  
call for availability



SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>26 GA. (.022)</b> . <u>906 LBS per sq. ft.</u>		<b>20 GA. (.040)</b> <u>1.656 LBS per sq. ft.</u>		<b>14 GA. (.079)</b> <u>3.281 LBS per sq. ft.</u>	
36 x 96	21.8	36 x 96	39.8	36 x 96	78.8
120	27.2	120	49.7	120	98.4
		144	59.6	144	118.2
48 x 96	29.0	48 x 96	53.0	48 x 96	105.0
120	36.2	120	66.2	120	131.2
		144	79.5	144	157.5
<b>24 GA. (.028)</b> <u>1.156 LBS per sq. ft.</u>		<b>18 GA. (.052)</b> <u>2.126 LBS per sq. ft.</u>		<b>12 GA. (.109)</b> <u>4.531 LBS per sq. ft.</u>	
36 x 96	27.8	36 x 96	51.8	36 x 96	108.8
120	34.7	120	64.7	120	135.9
		144	77.6	144	163.1
48 x 96	37.0	48 x 96	69.0	48 x 96	145.0
120	46.2	120	86.2	120	181.2
		144	103.4	144	217.5
<b>22 GA. (.040)</b> <u>1.406 LBS per sq. ft.</u>		<b>16 GA. (.060)</b> <u>2.656 LBS per sq. ft.</u>		<b>10 GA. (.138)</b> <u>5.781 LBS per sq. ft.</u>	
36 x 96	33.8	36 x 96	63.8	36 x 96	138.8
120	42.2	120	79.7	120	173.4
		144	157.5	144	208.0
48 x 96	45.0	48 x 96	85.2	48 x 96	185.0
120	56.2	120	106.0	120	231.2
144	67.4	144	127.4	144	277.4

# SHEET - Cold Rolled

SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>26 Ga. (.0179)</b> . <u>75 LBS per sq. ft.</u>		<b>22 Ga. (.0299)</b> <u>1.25 LBS per sq. ft.</u>		<b>18 Ga. (.0478)</b> <u>2.01 LBS per sq. ft.</u>	
36 x 96	18.0	36 x 96	30.0	36 x 96	48.0
120	22.5	120	37.5	120	60.0
48 x 96	24.0	48 x 96	40.0	48 x 96	64.0
120	30.0	120	50.0	120	80.0
<b>24 Ga. (.0239)</b> <u>1.0 LBS per sq. ft.</u>		<b>20 Ga. (.0359)</b> <u>1.5 LBS per sq. ft.</u>		<b>16 Ga. (.0598)</b> <u>2.5 LBS per sq. ft.</u>	
36 x 96	24.0	36 x 96	36.0	36 x 96	60.0
120	30.0	120	45.0	120	75.0
48 x 96	32.0	48 x 96	48.0	48 x 96	80.0
120	40.0	120	60.0	120	100.0

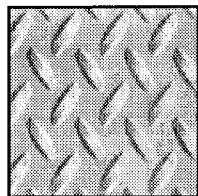
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# FLOOR PLATE

• RAISED DIAMOND PATTERN



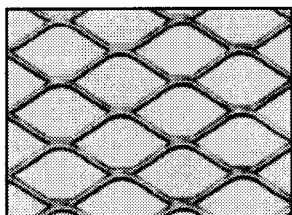
SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>14 Ga.</b> 3.75 LBS per sq. ft.		48 x 96	278.4	<b>3/8 INCH</b> 16.35 LBS per sq. ft.	
36 x 96	90.0	120	348.0	36 x 96	392.4
120	112.5	144	417.6	120	490.5
144	135.0	60 x 96	348.0	144	588.6
48 x 96	120.0	120	435.0	48 x 96	523.2
120	150.0	144	522.0	120	654.0
144	180.0	72 x 96	417.6	144	784.8
<hr/>		120	252.0	60 x 96	654.0
<b>12 Ga.</b> 5.25 LBS per sq. ft.		144	626.4	120	817.5
36 x 96	126.0	<b>1/4 INCH</b> 11.25 LBS per sq. ft.		144	981.0
120	157.5	36 x 96	270.0	72 x 96	784.8
144	189.0	120	337.5	120	981.0
48 x 96	168.0	144	405.0	144	1177.2
120	210.0	48 x 96	360.0	<hr/>	
144	252.0	120	450.0	<b>1/2 INCH</b> 21.45 LBS per sq. ft.	
60 x 96	210.0	144	540.0	48 x 96	686.4
120	262.5	60 x 96	450.0	120	858.0
144	315.0	120	562.5	144	1029.6
<hr/>		144	675.0	60 x 96	858.0
<b>1/8 INCH</b> 6.15 LBS per sq. ft.		72 x 96	540.0	120	1072.5
36 x 96	147.6	120	675.0	144	1287.0
120	184.5	144	810.0	72 x 96	1029.6
144	221.4	<hr/>		120	1287.0
48 x 96	196.8	<b>5/16 INCH</b> 13.8 LBS per sq. ft.		144	1544.4
120	246.0	36 x 96	331.2	<hr/>	
144	295.2	120	414.0	<b>5/8 INCH</b> 26.55 LBS per sq. ft.	
60 x 96	246.0	144	496.8	48 x 96	849.6
120	307.5	48 x 96	441.6	120	1062.0
144	369.0	120	552.0	72 x 96	1274.4
<hr/>		144	662.4	120	1593.0
<b>3/16 INCH</b> 8.70 LBS per sq. ft.		60 x 96	552.0	<hr/>	
36 x 96	208.8	120	690.0	<b>3/4 INCH</b> 31.65 LBS per sq. ft.	
120	261.0	144	828.0	60 x 96	1266.0
144	313.2	72 x 96	662.4	144	1899.0
<hr/>		120	828.0	<hr/>	

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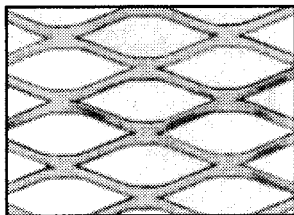
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Santa Maria  
(805) 349-9991

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

# EXPANDED METAL /GRATING



Standard



Flattened

## STYLE DESIGNATION:

- The first number represents the nominal width of the opening in inches
- The second number represents the approximate material gauge before expanding

## • EXPANDED • GRATING • CATWALK

### STOCK SIZES: (Inches)

48 x 96, 48 x 120

60 x 96, 60 x 120

72 x 96, 72 x 120

STYLE	POUNDS PER 100 SQ. FT.	OPENING SIZE (INCHES)		STRAND SIZE (INCHES)		OVERALL THICKNESS
		SHORT	LONG	WIDE	THICK	

## EXPANDED - STANDARD

1/2 - #16	86	.375	.938	.077	.060	.175
1/2 - #13	147	.312	.938	.096	.092	.204
3/4 - #13	80	.750	1.688	.096	.092	.205
3/4 - #9	180	.688	1.562	.150	.134	.312
1 1/2 - #9	120	1.125	2.375	.144	.134	.312
1 1/2 - #6	250	1.110	2.313	.203	.198	.433

## EXPANDED - FLATTENED

1/4 - #18	108	.075	.715	.080	.040	.040
1/2 - #16	82	.312	1.000	.096	.050	.050
1/2 - #13	140	.265	1.000	.107	.070	.070
3/4 - #13	75	.688	1.781	.106	.070	.070
3/4 - #9	171	.563	1.688	.165	.120	.120
1 1/2 - #9	114	1.000	2.563	.158	.110	.110

## GRATING / CATWALK

3.0 LB	300	.940	3.44	.264	.183	.540
3.14 LB	314	1.625	4.88	.312	.250	.656
4.0 LB	400	.940	3.44	.300	.215	.618
4.27 LB	427	1.000	2.88	.300	.250	.625
5.0 LB	500	.813	3.38	.331	.250	.655

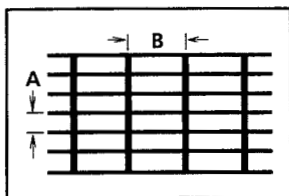
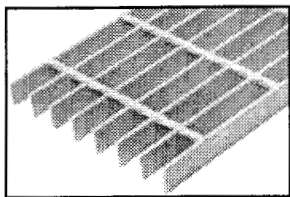
NOTE: All expanded metal dimensions and weights are approximate and subject to mill tolerance.

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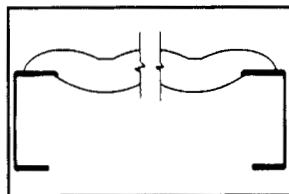
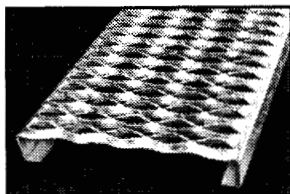
## BAR GRATING



- WELDED CONSTRUCTION
- SMOOTH OR SERRATED
- FACTORY PRIMERED ( BLACK) OR GALVANIZED
- \* STOCK SIZE: 3 ft x 24 ft

BEARING BAR SIZE (INCHES)		TYPICAL DIMENSIONS A (INCHES) B	
$\frac{1}{8}$ X $\frac{3}{4}$	* $\frac{3}{16}$ X 1	$1\frac{3}{16}$	4
$\frac{1}{8}$ X 1	$\frac{3}{16}$ X $1\frac{1}{4}$		
$\frac{1}{8}$ X $1\frac{1}{4}$	$\frac{3}{16}$ X $1\frac{1}{2}$		
$\frac{1}{8}$ X $1\frac{1}{2}$	$\frac{3}{16}$ X $1\frac{3}{4}$		

## GRIP STRUT

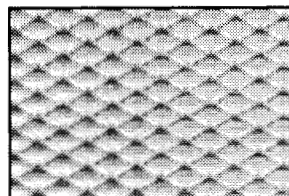


- 12 GAUGE GALVANIZED STEEL
- SERRATED NON-SLIP SURFACE
- LENGTH: 12 ft                      • HEIGHT: 2 in
- WIDTHS (inches):  $4\frac{3}{4}$ , 7,  $9\frac{1}{2}$ ,  $11\frac{3}{4}$ ,  $18\frac{3}{4}$ , 24

## DOOR SCREEN

- $\frac{1}{8}$  - #24 FLAT EXPANDED
- STOCK SIZE: 3 ft x 7 ft

**IDEAL FOR  
SECURITY  
DOORS**



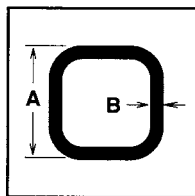
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# SQUARE TUBING

- A 513 (ORNAMENTAL SIZES)
  - A 500 (STRUCTURAL SIZES)
- STOCK LENGTHS: 20, 24, & 40 ft



OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT
1/2 x 1/2	.049	.301	3 1/2 x 3 1/2	.120	5.610
	.065	.385		.188	8.150
5/8 x 5/8	.049	.384		.250	10.510
	.065	.495		.312	12.700
3/4 x 3/4	.049	.467	4 x 4	.120	6.460
	.065	.605		.188	9.420
	.083	.753		.250	12.210
	.120	1.028		.312	14.830
7/8 x 7/8	.065	.716		.375	17.270
				.500	21.630
1 x 1	.049	.634	4 1/2 x 4 1/2	.188	10.700
	.065	.827		.250	13.910
	.083	1.035	5 x 5	.120	7.800
	.095	1.169		.188	11.970
1 1/4 x 1 1/4	.120	1.436		.250	15.620
	.065	1.047		.312	19.080
	.083	1.317		.375	22.370
	.095	1.492		.500	28.430
1 1/2 x 1 1/2	.120	1.884	6 x 6	.120	9.860
	.188	2.400		.188	14.530
	.065	1.268		.250	19.020
	.095	1.815		.312	23.340
1 3/4 x 1 3/4	.120	2.252		.375	27.480
	.188	3.350		.500	35.240
	.250	4.000	7 x 7	.188	17.080
	.065	1.489		.250	22.420
.095	2.138	.312		27.590	
.120	2.660	.375		32.580	
2 x 2				.500	42.050
	.065	1.170	8 x 8	.188	19.630
	.095	2.461		.250	25.820
	.120	3.050		.312	31.840
.188	4.320	.375		37.690	
2 1/2 x 2 1/2	.250	5.410		.500	48.850
	.120	3.900		.625	59.320
	.188	5.590	10 x 10	.250	32.630
	.250	7.110		.312	40.350
.065	2.595	.375		47.900	
.095	3.518	.500		62.460	
3 x 3	.120	4.750	12 x 12	.250	39.430
	.188	6.870		.375	58.100
	.250	8.810		.500	76.070
	.375	12.170			

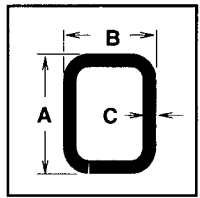
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# RECTANGULAR TUBING



- A 513 (ORNAMENTAL SIZES)
  - A 500 (STRUCTURAL SIZES)
- STOCK LENGTHS: 20, 24, 40, & 48 ft

OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT
1/2 x 1	.065	.605	3 x 5	.120	6.460
1/2 x 1 1/2	.065	.827		.188	9.420
3/4 x 1 1/2	.065	.937		.250	12.210
1 x 1 1/2	.065	1.047	3 x 6	.375	17.270
	.095	1.443		.120	7.310
	.120	1.844		.188	10.700
1 x 2	.065	1.268		.250	13.910
	.095	1.815	3 x 8	.375	19.820
	.120	2.252		.120	7.310
	.188	3.350		.188	10.700
1 x 3	.065	1.710		.250	13.910
	.120	3.050	4 x 6	.375	19.820
1 1/2 x 2	.065	1.489		.500	28.430
	.120	2.660	4 x 7	.188	13.250
1 1/2 x 3	.065	1.890		.250	17.320
	.120	3.480		.375	24.930
	.188	4.960	4 x 8	.188	14.530
2 x 3	.120	3.900		.250	19.020
	.188	5.590		.375	27.480
	.250	7.110		.500	35.240
2 x 4	.120	4.750	4 x 10	.188	17.080
	.188	6.870		.250	22.420
	.250	8.810		.375	32.580
	.375	12.170		.500	42.050
2 x 5	.120	5.610	4 x 12	.188	19.630
	.188	8.150		.250	25.820
	.250	10.510		.375	37.690
2 x 6	.120	6.460		.500	48.850
	.188	9.240	5 x 7	.188	14.530
	.250	12.210		.250	19.020
	.375	17.270		.312	23.340
2 x 8	.188	11.970		.375	27.480
	.250	15.620		.500	35.240
	.375	22.370	6 x 8	.188	17.080
3 x 4	.120	5.610		.250	22.420
	.188	8.150		.375	32.580
	.250	10.510	6 x 10	.188	19.630
	.375	14.720		.250	25.840
				.375	37.690

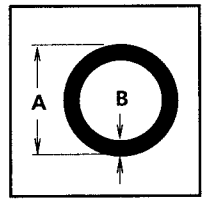
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Santa Ana  
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# PIPE

- BLACK
- GALVANIZED
- STOCK LENGTHS: 21, 24 & 40 ft
- GRADES: A53A, A53B, A500 & A106



NOMINAL SIZE	SCHEDULE	O.D. INCHES	I.D. INCHES	THICKNESS INCHES	POUNDS PER FOOT
1/8	40	.405	.269	.068	.24
	80	.405	.215	.095	.31
1/4	40	.540	.364	.088	.42
	80	.540	.302	.119	.54
3/8	40	.675	.493	.091	.57
	80	.675	.423	.126	.74
1/2	40	.840	.622	.109	.85
	80	.840	.546	.147	1.09
	160	.840	.464	.188	1.31
	XXS	.840	.252	.294	1.71
3/4	40	1.050	.824	.113	1.13
	80	1.050	.742	.154	1.47
	160	1.050	.612	.219	1.94
	XXS	1.050	.434	.308	2.44
1	40	1.315	1.049	.133	1.68
	80	1.315	.957	.179	2.17
	160	1.315	.815	.250	2.84
	XXS	1.315	.599	.358	3.66
1 1/4	40	1.660	1.380	.140	2.27
	80	1.660	1.278	.191	3.00
	160	1.660	1.160	.250	3.76
	XXS	1.660	.896	.382	5.21
1 1/2	40	1.900	1.610	.145	2.72
	80	1.900	1.500	.200	3.63
	160	1.900	1.338	.281	4.86
	XXS	1.900	1.100	.400	6.41
2	40	2.375	2.067	.154	3.65
	80	2.375	1.939	.218	5.02
	160	2.375	1.687	.344	7.46
	XXS	2.375	1.503	.436	9.03
2 1/2	40	2.875	2.469	.203	5.79
	80	2.875	2.323	.276	7.66
	160	2.875	2.125	.375	10.01
	XXS	2.875	1.771	.552	13.69
3	40	3.500	3.068	.216	7.58
	80	3.500	2.900	.300	10.25
	160	3.500	2.624	.438	14.32
	XXS	3.500	2.300	.600	18.58

# PIPE

NOMINAL SIZE	SCHEDULE	O.D. INCHES	I.D. INCHES	THICKNESS INCHES	POUNDS PER FOOT
3 1/2	40	4.000	3.548	.226	9.11
	80	4.000	3.364	.318	12.50
	XXS	4.000	2.728	.636	22.85
4	40	4.500	4.026	.237	10.79
	80	4.500	3.826	.337	14.98
	120	4.500	3.624	.438	19.00
	160	4.500	3.438	.531	22.51
	XXS	4.500	3.152	.674	27.54
5	40	5.563	5.047	.258	14.62
	80	5.563	4.813	.375	20.78
	120	5.563	4.563	.500	27.04
	160	5.563	4.313	.625	32.96
	XXS	5.563	4.063	.750	38.55
6	-	6.625	6.249	.188	12.92
	-	6.625	6.125	.250	17.02
	40	6.625	6.065	.280	18.97
	80	6.625	5.761	.432	28.57
	120	6.625	5.501	.562	36.39
	160	6.625	5.187	.719	45.30
	XXS	6.625	4.897	.864	53.16
8	-	8.625	8.250	.188	16.94
	20	8.625	8.125	.250	22.36
	30	8.625	8.071	.277	24.70
	40	8.625	7.981	.322	28.55
	60	8.625	7.813	.406	35.64
	80	8.625	7.625	.500	43.39
	100	8.625	7.439	.593	50.95
	120	8.625	7.189	.719	60.71
	XXS	8.625	6.875	.875	72.42
	160	8.625	6.813	.906	74.69
10	-	10.750	10.374	.188	21.21
	20	10.750	10.250	.250	28.04
	-	10.750	10.136	.307	34.24
	40	10.750	10.020	.365	40.48
	XS	10.750	9.750	.500	54.74
	80	10.750	9.562	.594	64.43
	100	10.750	9.312	.719	77.03
	120	10.750	9.062	.844	89.29
	140	10.750	8.750	1.000	104.13
	160	10.750	8.500	1.125	115.64
12	10	12.750	12.374	.188	25.22
	20	12.750	12.250	.250	33.38
	STD	12.750	12.000	.375	49.56
	40	12.750	11.938	.406	53.52
	XS	12.750	11.750	.500	65.42
	60	12.750	11.626	.562	73.15
	80	12.750	11.374	.688	88.63
	100	12.750	11.062	.844	107.32
	120	12.750	10.750	1.000	125.49
	140	12.750	10.500	1.125	139.67
	160	12.750	10.126	1.312	160.27

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# PIPE

NOMINAL SIZE	SCHEDULE	O.D. INCHES	I.D. INCHES	THICKNESS INCHES	POUNDS PER FOOT
<b>14</b>	-	14.00	13.624	.188	27.73
	10	14.00	13.500	.250	36.71
	20	14.00	13.376	.312	45.61
	STD	14.00	13.250	.375	54.57
	40	14.00	13.124	.438	63.44
	XS	14.00	13.000	.500	72.09
	60	14.00	12.812	.594	85.05
	80	14.00	12.500	.750	106.13
	100	14.00	12.124	.938	130.85
	120	14.00	11.812	1.094	150.79
	140	14.00	11.500	1.250	170.21
<b>16</b>	-	16.00	15.624	.188	31.75
	10	16.00	15.500	.250	42.05
	20	16.00	15.376	.312	52.27
	STD	16.00	15.250	.375	62.58
	XS	16.00	15.000	.500	82.77
	60	16.00	14.688	.656	107.50
	80	16.00	14.312	.844	136.61
	100	16.00	13.938	1.031	164.82
	120	16.00	13.562	1.129	192.43
	<b>18</b>	-	18.00	17.750	.188
10		18.00	17.500	.250	47.39
STD		18.00	17.250	.375	70.59
XS		18.00	17.000	.500	93.45
40		18.00	16.876	.562	104.67
60		18.00	16.500	.750	138.17
80		18.00	16.124	.938	170.92
100		18.00	15.688	1.156	207.96
120		18.00	15.250	1.375	244.14
<b>20</b>		-	20.00	19.750	.188
	10	20.00	19.500	.250	52.73
	STD	20.00	19.250	.375	78.60
	XS	20.00	19.000	.500	104.13
	40	20.00	18.812	.594	123.11
	60	20.00	18.376	.812	166.40
	80	20.00	17.938	1.031	208.87
	100	20.00	17.438	1.281	256.10
	120	20.00	17.000	1.500	296.37
	<b>22</b>	10	22.00	21.500	.250
STD		22.00	21.250	.375	86.61
XS		22.00	21.000	.500	114.81
-		22.00	20.500	.750	170.21
-		22.00	20.000	1.000	224.28
80		22.00	19.750	1.125	250.81
100		22.00	19.250	1.375	302.88
<b>24</b>	10	24.00	23.500	.250	63.41
	STD	24.00	23.250	.375	94.62
	XS	24.00	23.000	.500	125.49
	40	24.00	22.624	.688	171.29
	60	24.00	22.064	.968	238.38
	80	24.00	21.562	1.219	296.58
	100	24.00	20.938	1.531	367.39

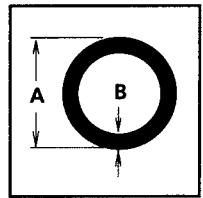
B & B Surplus, Inc  
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# ROUND TUBING

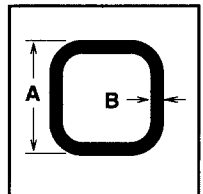
- A 513 HOT ROLLED ELECTRIC WELD
- STOCK LENGTH: 20 ft



O.D. INCHES	THICKNESS INCHES	I.D. INCHES	POUNDS PER FOOT	O.D. INCHES	THICKNESS INCHES	I.D. INCHES	POUNDS PER FOOT
1/2	.049	.402	.236	1 3/4	.065	1.620	1.170
	.065	.370	.302		.095	1.560	1.679
	.095	.310	.411		.120	1.510	2.089
5/8	.049	.527	.301	2	.065	1.870	1.343
	.065	.495	.389		.095	1.810	1.933
	.095	.435	.538		.120	1.760	2.409
3/4	.049	.652	.367	2 1/8	.065	1.995	1.430
	.065	.620	.476		.095	1.935	2.060
	.095	.560	.665		.120	1.885	2.570
	.120	.510	.807	2 1/4	.065	2.120	1.517
7/8	.065	.745	.562		.095	2.060	2.186
	.095	.685	.791		.120	2.010	2.730
	1	.065	.870	.649	2 1/2	.065	2.370
.095		.810	.918	.095		2.310	2.440
.120		.760	1.128	.120		2.226	3.050
1 1/8		.065	.995	.736	.188	2.125	4.642
	.095	.935	1.045	2 3/4	.065	2.620	1.864
	.120	.885	1.288		.095	2.560	2.694
	1 1/4	.065	1.120		.823	.120	2.510
.095		1.065	1.172	.188	2.375	5.144	
.120		1.010	1.448	3	.065	2.870	2.037
1 1/2	.065	1.370	.996		.095	2.810	2.947
	.095	1.310	1.426		.120	2.760	3.691
	.120	1.260	1.769		.188	2.625	5.646
				.250	2.500	7.434	

# RECEIVER TUBE

- 2.53 x 2.53 x .238 in
- ASTM A 500 - GRADE B
- FLASH REMOVED
- STOCK LENGTH: 20 ft



7.21 LBS per ft

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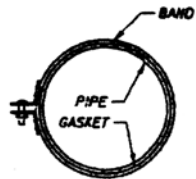
B & B Metals, Inc  
Santa Ana  
(714) 541-7267

# CORRUGATE CULVERT PIPE

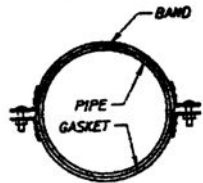
Gauge		16ga	14ga	12ga	10ga	
Size	Length	Pounds per foot				
6"	20ft	4.5	Na	Na	Na	
8"	"	7	"	"	"	
10"	"	8	"	"	"	
12"	"	10	12	"	"	
15"	"	12	15	"	"	
18"	"	15	18	"	"	
24"	"	19	24	33	"	
30"	"	24	30	41	"	
36"	"	29	36	49	62	
48"	"	38	48	65	82	
60"	"	55	67	92	118	
72"	"	66	81	110	140	
96"	"	87	107	147	188	

## 16 Gauge Cellars Rings

Size	Length	Pounds per Ft
60"	48"	55
60"	60"	55
60"	72"	55
72"	48"	66
72"	60"	66
72"	72"	66
96"	48"	87
96"	60"	87
96"	72"	87
96"	84"	87

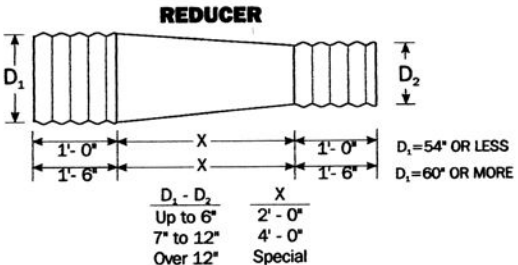
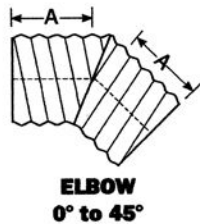
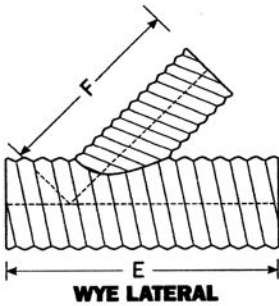
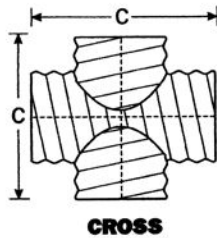
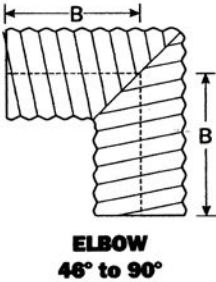
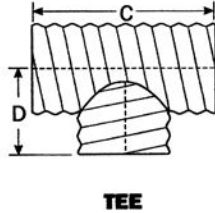
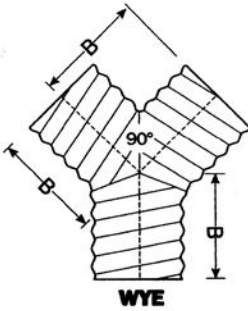
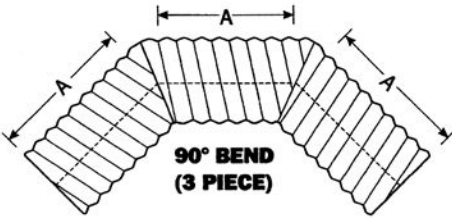


ONE PIECE BAND  
12" through 42"



TWO PIECE BAND  
All due formed integral bands, other band couplers 48 inches and larger

# CORRUGATE PIPE FITTINGS

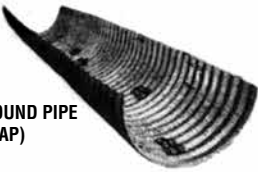


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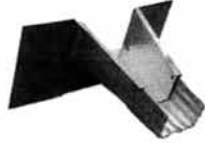
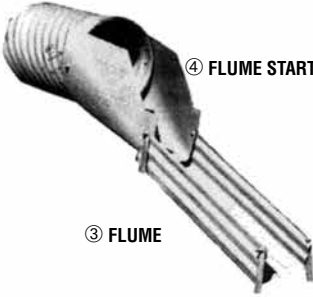
① HALF ROUND PIPE  
(CSP,CSP,CAP)



② PART CIRCLE  
CORRUGATED SHEET



④ FLUME STARTER SECTION



③ FLUME

⑤ TAPERED FLUME INLET

⑥ ENTRANCE TAPER



⑦ McCARTHY  
TYPE INLET WITH  
STARTER SECTION  
FOR FLUME



⑧ DROP INLETS,  
MANHOLE & RISERS



⑨ NESTABLE PIPE (Flange Type)



⑩ ANTI-SEEP COLLAR



⑪ ANCHOR ASSEMBLIES



⑫ DEBRIS RACKS



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# STAINLESS STEEL

Non-Hardening, Chrome Nickel Steels

## *Common Grades*

- 303** A free machining version of 304 with only slightly less corrosion resistance and physical properties.
- 304** The most popular type of stainless, exhibiting good corrosion resistance, formability, and ease of welding by all common methods.
- 304L** Lower carbon version of 304. Used to minimize carbide precipitation during welding. Physical properties somewhat less than 304.
- 310** Heat resistant. Good resistance to thermal fatigue due to cyclic heating; resists scaling up to 2050° F.
- 316** Superior corrosion resistance and higher strength at elevated temperatures than 304. Frequently used in marine applications. Resistant to creep at high temperatures.
- 316L** Lower carbon version of 316. Used to minimize carbide precipitation during welding.
- 321** Stabilized for use as a substitute to post-weld annealing process. Corrosion resistance similar to 304.

## *Sheet & Plate Finishes*

- No. 1 (HRAP)** Hot-rolled, annealed, and descaled. Generally used in applications in which resistance to corrosion and heat is more important than smoothness or finish appearance.
- No. 2B** Annealed, descaled and cold-rolled with a bright finish. Commonly used for all but difficult deep drawing applications. This finish is more readily polished than No. 1.
- No. 4** General purpose, polished finish one side. Widely used in applications requiring a superior cosmetic finish, such as restaurant and kitchen equipment, dairy equipment, etc.
- No. 8** The most reflective finish commonly available. Surface is essentially free of grit lines from preliminary grinding operations. Commonly used for press plates, as well as small mirrors and reflectors.

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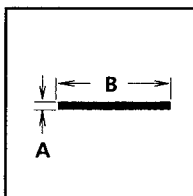
# STRIP

• TYPE 304

HRAP

STOCK LENGTH: Random 12 ft

ASTM A-240



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
$1/8 \times 1/2$	.213	2.56	$3/16 \times 1/2$	.319	3.83	$3/16 \times 1/2$	.319	3.83	$3/16 \times 1/2$	.319	3.83
$3/4$	.319	3.83	$3/4$	.478	5.74	$3/4$	.478	5.74	$3/4$	.478	5.74
1	.425	5.10	1	.638	7.66	1	.638	7.66	1	.638	7.66
$1 1/4$	.531	6.37	$1 1/4$	.797	9.56	$1 1/4$	.797	9.56	$1 1/4$	.797	9.56
$1 1/2$	.638	7.66	$1 1/2$	.956	11.47	$1 1/2$	.956	11.47	$1 1/2$	.956	11.47
2	.850	10.20	2	1.280	15.36	2	1.280	15.36	2	1.280	15.36
$2 1/2$	1.060	12.72	$2 1/2$	1.590	19.08	$2 1/2$	1.590	19.08	$2 1/2$	1.590	19.08
3	1.280	15.36	3	1.910	22.92	3	1.910	22.92	3	1.910	22.92
4	1.700	20.40	4	2.550	30.60	4	2.550	30.60	4	2.550	30.60
5	2.130	25.56	5	3.190	38.28	5	3.190	38.28	5	3.190	38.28
6	2.560	30.72	6	3.825	45.90	6	3.825	45.90	6	3.825	45.90

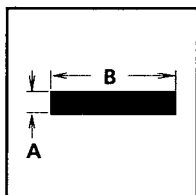
# FLAT BAR

• TYPE 304

HRAP

STOCK LENGTH: Random 12 ft

ASTM A-240



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
$1/4 \times 1/2$	.425	5.10	3	3.825	45.90	3	3.825	45.90	3	3.825	45.90
$3/4$	.638	7.65	4	5.100	61.20	4	5.100	61.20	4	5.100	61.20
1	.850	10.20	5	6.375	76.50	5	6.375	76.50	5	6.375	76.50
$1 1/4$	1.063	12.76	6	7.650	91.80	6	7.650	91.80	6	7.650	91.80
$1 1/2$	1.275	15.30	8	10.200	122.40	8	10.200	122.40	8	10.200	122.40
$1 3/4$	1.488	17.86	10	12.750	153.00	10	12.750	153.00	10	12.750	153.00
2	1.700	20.40	12	15.300	183.60	12	15.300	183.60	12	15.300	183.60
$2 1/2$	2.125	25.50	$1/2 \times 3/4$	1.275	15.30	$1/2 \times 3/4$	1.275	15.30	$1/2 \times 3/4$	1.275	15.30
3	2.550	30.60	1	1.700	20.40	1	1.700	20.40	1	1.700	20.40
4	3.400	40.80	$1 1/4$	2.125	25.50	$1 1/4$	2.125	25.50	$1 1/4$	2.125	25.50
5	4.250	51.00	$1 1/2$	2.550	30.60	$1 1/2$	2.550	30.60	$1 1/2$	2.550	30.60
6	5.100	61.20	$1 3/4$	2.975	35.70	$1 3/4$	2.975	35.70	$1 3/4$	2.975	35.70
8	6.800	81.60	2	3.400	40.80	2	3.400	40.80	2	3.400	40.80
10	8.500	102.00	$2 1/2$	4.250	51.00	$2 1/2$	4.250	51.00	$2 1/2$	4.250	51.00
12	10.200	122.40	3	5.100	61.20	3	5.100	61.20	3	5.100	61.20
$3/8 \times 1/2$	.638	7.66	4	6.800	81.60	4	6.800	81.60	4	6.800	81.60
$3/4$	.956	11.47	5	8.500	102.00	5	8.500	102.00	5	8.500	102.00
1	1.275	15.30	6	10.200	122.40	6	10.200	122.40	6	10.200	122.40
$1 1/4$	1.594	19.13	8	13.600	163.20	8	13.600	163.20	8	13.600	163.20
$1 1/2$	1.913	22.96	10	17.000	204.00	10	17.000	204.00	10	17.000	204.00
2	2.550	30.60	12	20.400	244.80	12	20.400	244.80	12	20.400	244.80
$2 1/2$	3.188	38.26									

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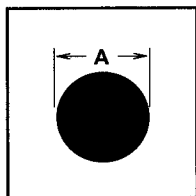
# ROUND BAR

• TYPE 304, 316, & 303

PSQ & BSQ

STOCK LENGTH: Random 12 ft

QQ-S-763 / ASTM-A-276



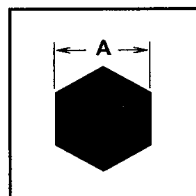
SIZE			WEIGHT - POUNDS			SIZE			WEIGHT - POUNDS		
Inches	Per Foot	12 ft	Inches	Per Foot	12 ft	Inches	Per Foot	12 ft	Inches	Per Foot	12 ft
1/8	.042	.50	1 9/16	6.520	78.24	1 5/8	7.051	84.61	1 3/4	8.178	98.14
3/16	.094	1.13	1 7/8	9.388	112.66	1 15/16	10.020	120.24	2	10.681	128.17
1/4	.167	2.00	2 3/16	12.780	153.40	2 1/4	13.520	162.20	2 3/8	15.060	180.72
5/16	.261	3.13	2 1/2	16.690	200.28	2 3/4	20.200	242.40	2 15/16	23.040	276.48
3/8	.376	4.51	3	24.033	288.40	3 1/4	28.210	338.50	3 1/2	32.712	392.54
7/16	.511	6.13	3 3/4	37.550	450.60	4	42.726	512.71	4 1/4	48.233	578.80
1/2	.668	8.02	4	42.726	512.71	4 1/2	54.075	648.90	5	66.759	801.11
9/16	.845	10.14	4 1/4	48.233	578.80	6	96.133	1153.60			
5/8	1.043	12.52	4 1/2	54.075	648.90						
11/16	1.260	15.12	5	66.759	801.11						
3/4	1.502	18.02	6	96.133	1153.60						
13/16	1.760	21.12									
7/8	2.044	24.53									
15/16	2.350	28.20									
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 5/16	4.600	55.20									
1 3/8	5.049	60.59									
1 7/16	5.518	66.22									
1 1/2	6.008	72.10									

# HEXAGONAL BAR

• TYPE 304, 303

STOCK LENGTH: Random 12 ft

QQ-S-763



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
1/4	.184	2.21	3/4	1.656	19.87	7/8	2.254	27.05	15/16	2.588	31.06
5/16	.288	3.46	1	2.944	35.33	1 1/4	4.601	55.21	1 1/2	6.626	79.51
3/8	.414	4.97	1 1/4	4.601	55.21	2	11.780	141.36			
7/16	.564	6.77	1 1/2	6.626	79.51						
1/2	.736	8.83	2	11.780	141.36						
9/16	.932	11.18									
5/8	1.150	13.80									
11/16	1.392	16.70									

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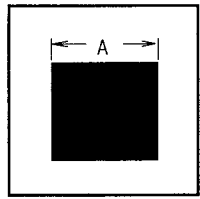
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Santa Ana  
(714) 541-7267

# SQUARE BAR

• TYPE 304

STOCK LENGTH: Random 12 ft

QQ-S-763



SIZE			WEIGHT - POUNDS		
Inches	Per Foot	12 ft	Inches	Per Foot	12 ft
1/8	.053	.64	3/4	1.913	22.96
3/16	.120	1.44	7/8	2.600	31.20
1/4	.213	2.56	1	3.400	40.80
5/16	.332	3.98	1 1/4	5.310	51.68
3/8	.478	5.74	1 1/8	4.307	63.72
7/16	.651	7.81	1 3/8	6.428	77.14
1/2	.850	10.20	1 1/2	7.650	91.80
9/16	1.076	12.91	1 3/4	10.410	124.92
5/8	1.328	15.94	2	13.600	163.20
			2 1/2	21.270	255.24

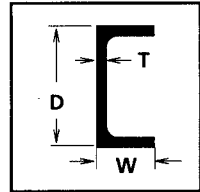
# CHANNEL

• TYPE 304

HRAP

STOCK LENGTH: Random 20 ft

ASTMA-479



SIZE - INCHES			WEIGHT - POUNDS	
D	W	T	Per Foot	25 ft
1 1/2	x 3/4	x 1/8	1.20	24.00
2	x 1	x 1/8	1.53	30.60
2	x 1	x 3/16	2.65	53.00
2	x 1	x 1/4	3.00	60.00
3	x 1 3/8	x 3/16	3.53	70.60
3	x 1 1/2	x 3/16	4.01	80.20
3	x 1 1/2	x 1/4	4.79	95.80
4	x 1 3/4	x 1/4	6.16	123.20
4	x 2	x 1/4	6.58	131.60
5	x 2 1/2	x 1/4	8.00	160.00
6	x 3	x 1/4	10.10	202.00
6	x 3	x 3/8	14.80	296.00
8	x 4	x 3/8	20.00	400.00

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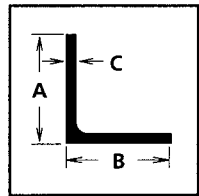
# ANGLE

• TYPE 304

HRAP

STOCK LENGTH: Random 20 ft

ASTMA-479



SIZE - INCHES			WEIGHT - POUNDS		SIZE - INCHES			WEIGHT - POUNDS		
A	B	C	Per Foot	20 ft	A	B	C	Per Foot	20 ft	
1	1	$3/4 \times 3/4 \times 1/8$	.59	11.8	3	2	$3/16$	3.14	62.8	
		$3/16$	1.16	23.2			$1/4$	4.10	82.0	
		$1/4$	1.50	30.0			3	3	$3/16$	3.79
$1 1/4 \times 1 1/4 \times$	$1/8$	1.03	20.6	$1/4$	4.99	99.8				
	$3/16$	1.48	29.6	$5/16$	6.10	122.0				
	$1/4$	1.92	38.4	$3/8$	7.26	145.2				
$1 1/2 \times 1 1/2 \times$	$1/8$	$1/8$	1.25	25.0	4	3	$1/4$	5.80	116.0	
		$3/16$	1.80	36.0			$3/8$	8.50	170.0	
		$1/4$	2.35	47.0			4	4	$1/4$	6.75
2	2	$3/8$	4.70	94.0	$3/8$	9.88			197.6	
		$1/2$	7.15	143.0	$1/2$	12.90			258.0	
		$3/8$	4.70	94.0	5	3	$3/8$	10.01	200.20	
$2 1/2 \times 2 1/2 \times$	$3/16$	3.16	63.2	5			5	$3/8$	12.30	246.0
	$1/4$	4.13	82.6							
	$3/8$	5.97	119.4							

## TYPICAL MECHANICAL PROPERTIES

GRADE	TENSILE STRENGTH (P.S.I.)	MACHINABILITY RATING (CD 1112=100%)	HARDNESS
303 Annealed Bar	85,000	75%	165 BHN
303 C.D. Bar	100,000	....	205 BHN
304 C.R. sheet	85,000	45%	165 BHN
316 Annealed Bar	82,000	45%	165 BHN
316 C.D. Bar	85,000	....	....
321 Annealed Bar	85,000	45%	150 BHN
321 C.D. Bar	97,000	45%	255 BHN
321 C.R. Sheet	90,000	....	....

## THEORETICAL WEIGHTS

**For Nickel Stainless Sheets - 300 series - 42.0 lbs per sq. ft. per inch of thickness**

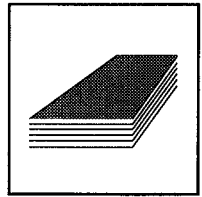
**For Chromium Stainless Sheets - 400 series - 41.2 lbs per sq. ft. per inch of thickness**

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# SHEET & PLATE



• TYPE 304

SHEET - No. 2B finish & No. 4 polished

PLATE - No. 1 finish

QQ-S-766 / ASTM-A-240

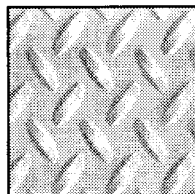
SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>26 Ga. (.018)</b> 7.560 LBS per sq. ft.		<b>14 Ga. (.075)</b> 3.150 LBS per sq. ft.		<b><sup>3</sup>/<sub>16</sub> INCH</b> 8.579 LBS per sq. ft.	
48 x 96	24.19	48 x 96	100.80	48 x 96	274.53
120	30.24	120	126.00	120	343.16
144	36.29	144	151.20	144	411.79
<b>24 Ga. (.024)</b> 1.008 LBS per sq. ft.		60 x 120 157.50 144 189.00		60 x 120 428.95 144 514.74	
48 x 96	32.26	<b>12 Ga. (.105)</b> 4.410 LBS per sq. ft.		<b><sup>1</sup>/<sub>4</sub> INCH</b> 11.162 LBS per sq. ft.	
120	40.32	48 x 96	141.12	48 x 96	357.18
144	48.38	120	176.40	120	446.48
<b>22 Ga. (.030)</b> 1.260 LBS per sq. ft.		144	211.68	144	535.78
48 x 96	40.32	60 x 120 220.50 144 264.60		60 x 120 558.10 144 669.72	
120	50.40	<b>11 Ga. (.120)</b> 5.040 LBS per sq. ft.		<b><sup>5</sup>/<sub>16</sub> INCH</b> 13.746 LBS per sq. ft.	
144	60.48	48 x 96	161.28	48 x 96	439.87
<b>20 Ga. (.036)</b> 1.512 LBS per sq. ft.		120	201.60	120	549.84
48 x 96	48.38	144	241.92	144	659.81
120	60.48	60 x 120 252.00 144 302.40		60 x 120 687.30 144 824.76	
144	72.58	<b>10 Ga. (.135)</b> 5.670 LBS per sq. ft.		<b><sup>3</sup>/<sub>8</sub> INCH</b> 16.496 LBS per sq. ft.	
<b>18 Ga. (.048)</b> 2.016 LBS per sq. ft.		48 x 96	181.44	48 x 96	527.87
48 x 96	64.51	120	226.80	120	659.84
120	80.64	144	272.16	144	791.81
144	96.77	60 x 120 283.50 144 340.20		<b><sup>1</sup>/<sub>2</sub> INCH</b> 21.663 LBS per sq. ft.	
<b>16 Ga. (.060)</b> 2.520 LBS per sq. ft.		<b>7 Ga. (.187)</b> 7.854 LBS per sq. ft.		48 x 96 693.22 120 866.52 144 1039.82	
48 x 96	80.64	48 x 96	251.33		
120	100.80	120	314.16		
144	120.96	60 x 120 392.70 144 471.24			
60 x 120	126.00				
144	151.20				

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# FLOOR PLATE



- TYPE 304  
HRAP  
Raised Diamonds, Pattern B  
ASTM-A-240, MIL-F-20138

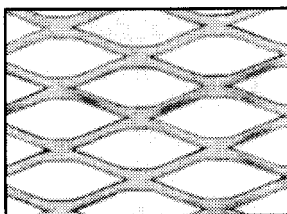
SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET	SIZE INCHES	POUNDS PER SHEET
<b>1/8 INCH</b> 6.15 LbS per sq. ft.		<b>3/16 INCH</b> 8.70 LbS per sq. ft.		<b>1/4 INCH</b> 11.25 LBS per sq. ft.	
48 x 96	196.8	48 x 96	278.4	48 x 96	360.0
120	246.0	120	348.0	120	450.0
144	295.2	144	417.6	144	540.0

# EXPANDED METAL

- TYPE 304

## STYLE DESIGNTION:

- The first number represents the nominal width of the opening in inches.
- The second number represents the approximate material gage before expanding.



Flattened

STYLE	POUNDS PER 100 SQ. FT.	OPENING SIZE (INCHES)		STRAND SIZE (INCHES)		% OPEN AREA
		SHORT	LONG	WIDE	THICK	
1/2 - #18	70	.312	1.000	.099	.040	58
1/2 - #16	88	.312	1.000	.099	.050	54
1/2 - #13	178	.250	1.000	.099	.080	54
3/4 - #18	48	.750	1.812	.128	.040	76
3/4 - #16	59	.750	1.812	.126	.050	73
3/4 - #13	88	.625	1.750	.120	.080	72
3/4 - #9	197	.625	1.625	.170	.130	65
1 1/2 - #16	43	1.065	2.750	.128	.050	81
1 1/2 - #13	68	1.000	2.625	.126	.080	75
1 1/2 - #9	135	1.000	2.500	.170	.130	72

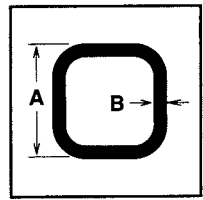
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# SQUARE TUBING

- TYPE 304
- MILL FINISH
- STOCK LENGTH: Random 20 ft
- ASTM-A-A544



OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT	
1/2 x 1/2	.065	.339	3 x 3	.065	2.594	
				.083	3.292	
5/8 x 5/8	.065	.495	3 1/2 x 3 1/2	.109	4.286	
				.120	4.700	
3/4 x 3/4	.065	.606	4 x 4	.188	6.903	
				.250	8.953	
1 x 1	.065	.826	5 x 5	.120	5.610	
	.083	1.035		.188	8.150	
	.120	1.436		.250	11.347	
1 1/4 x 1 1/4	.065	1.047	6 x 6	.120	6.260	
	.083	1.317		.188	9.320	
	.120	1.844		.250	12.683	
1 1/2 x 1 1/2	.065	1.299	7 x 7	.312	15.540	
	.083	1.600		.375	18.680	
	.109	2.062		8 x 8	.188	12.400
	.120	2.522			.250	16.370
1 3/4 x 1 3/4	.188	3.350	.312	20.234		
	2 x 2	.065	1.600	.375	23.995	
		.083	2.022	6 x 6	.188	14.350
.120		2.864	.250		19.600	
2 1/2 x 2 1/2	.065	1.710	.312		24.491	
	.083	2.163	.375	29.094		
	.109	2.803	7 x 7	.188	17.080	
	.120	3.067		.250	23.129	
2 1/2 x 2 1/2	.188	4.455	.375	34.193		
	.250	6.007	8 x 8	.188	19.235	
	2 1/2 x 2 1/2	.065		2.152	.250	26.529
		.083		2.728	.375	39.293
		.109	3.544	10 x 10	.188	24.130
.120		3.884	.250		33.327	
.188		5.679	.375		49.490	
.250	7.343					

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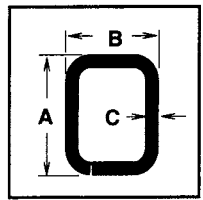
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# RECTANGULAR TUBING

• TYPE 304  
 MILL FINISH  
 STOCK LENGTH: Random 20 ft  
 ASTM-A-A544



OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	POUNDS PER FOOT
1/2 x 1	.065	.605	2 x 5	.120	5.928
				.188	8.739
1/2 x 1 1/2	.065	.826		.250	11.347
3/4 x 1 1/2	.065	.937	2 x 6	.120	6.313
				.188	9.270
1 x 1 1/2	.065	1.047		.250	12.683
	.120	1.884		.375	18.680
1 x 2	.065	1.268	3 x 4	.120	5.610
	.083	1.599		.188	8.150
	.120	2.252		.250	11.347
1 x 3	.065	1.710	3 x 5	.188	9.270
	.109	2.803		.250	12.683
	.120	3.068		.375	18.680
1 1/2 x 2	.065	1.490	3 x 6	.120	7.310
	.120	2.660		.188	10.580
				.250	13.730
1 1/2 x 3	.065	1.931		.375	21.660
	.120	3.476	4 x 6	.188	12.400
2 x 3	.065	2.152		.250	15.070
	.120	3.884		.375	23.995
	.188	5.679	4 x 8	.188	14.330
.250	7.342	.250		19.600	
2 x 4	.065	2.594			.375
	.120	4.700	5 x 7	.188	14.330
	.188	6.903		.250	19.600
.250	8.935	.375		29.094	
			6 x 8	.188	16.253
				.250	23.129
				.375	31.193

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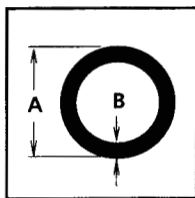
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# PIPE

• TYPE 304

STOCK LENGTH: Random 20 ft

ASTM-A312



NOMINAL SIZE	SCHEDULE	O.D. INCHES	I.D. INCHES	THICKNESS INCHES	POUNDS PER FOOT
1/8	5	-	-	-	-
	10	.405	.307	.049	.186
	40	.405	.269	.068	.245
	80	.405	.215	.095	.314
1/4	5	-	-	-	-
	10	.540	.407	.065	.324
	40	.540	.364	.088	.425
	80	.540	.302	.119	.537
3/8	5	-	-	-	-
	10	.675	.545	.065	.423
	40	.675	.493	.091	.568
	80	.675	.423	.126	.738
1/2	5	.840	.710	.065	.538
	10	.840	.674	.083	.671
	40	.840	.622	.109	.851
	80	.840	.546	.147	1.088
3/4	5	1.050	.920	.065	.684
	10	1.050	.884	.083	.857
	40	1.050	.824	.113	1.131
	80	1.050	.742	.154	1.474
1	5	1.315	1.185	.065	.867
	10	1.315	1.097	.109	1.404
	40	1.315	1.049	.133	1.680
	80	1.315	.957	.179	2.172
1 1/4	5	1.660	1.530	.065	1.107
	10	1.660	1.442	.109	1.806
	40	1.660	1.380	.140	2.273
	80	1.660	1.278	.191	2.997
1 1/2	5	1.900	1.770	.065	1.274
	10	1.900	1.682	.109	2.085
	40	1.900	1.610	.145	2.718
	80	1.900	1.500	.200	3.631
2	5	2.375	2.245	.065	1.604
	10	2.375	2.157	.109	2.638
	40	2.375	2.067	.154	3.653
	80	2.375	1.939	.218	5.022

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# PIPE

NOMINAL SIZE	SCHEDULE	O.D. INCHES	I.D. INCHES	THICKNESS INCHES	POUNDS PER FOOT
2 1/2	5	2.875	2.709	.083	2.475
	10	2.875	2.635	.120	3.531
	40	2.875	2.469	.203	5.793
	80	2.875	2.323	.276	7.661
3	5	3.500	3.334	.083	3.029
	10	3.500	3.260	.120	4.332
	40	3.500	3.068	.216	7.576
	80	3.500	2.900	.300	10.250
3 1/2	5	4.000	3.834	.083	3.472
	10	4.000	3.760	.120	4.973
	40	4.000	3.548	.226	9.109
	80	4.000	3.364	.318	12.500
4	5	4.500	4.334	.083	3.915
	10	4.500	4.260	.120	5.613
	40	4.500	4.026	.237	10.790
	80	4.500	3.826	.337	14.980
5	5	5.563	5.345	.109	6.349
	10	5.563	5.295	.134	7.770
	40	5.563	5.047	.258	14.620
	80	5.563	4.813	.375	20.780
6	5	6.625	6.407	.109	7.585
	10	6.625	6.357	.134	9.289
	40	6.625	6.065	.280	18.970
	80	6.625	5.761	.432	28.570
8	5	8.625	8.407	.109	9.914
	10	8.625	8.329	.148	13.400
	40	8.625	7.981	.322	28.550
	80	8.625	7.625	.500	43.390
10	5	10.750	10.482	.134	15.190
	10	10.750	10.420	.165	18.650
	40	10.750	10.020	.365	40.480
	80	10.750	9.750	.500	54.740
12	5	12.75	12.438	.156	20.980
	10	12.75	12.390	.180	24.160
	40	12.75	12.000	.375	49.560
	80	12.75	11.750	.500	65.420

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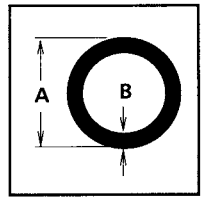
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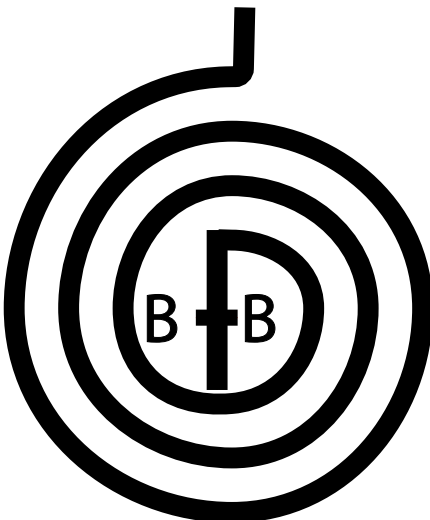
# ROUND TUBING

• TYPE 304

STOCK LENGTH: Random 20 ft



O.D. INCHES	THICKNESS INCHES	I.D. INCHES	POUNDS PER FOOT	O.D. INCHES	THICKNESS INCHES	I.D. INCHES	POUNDS PER FOOT	
1/4	.035	.180	.080	1 1/4	.065	1.120	.823	
	.049	.152	.105		.120	1.010	1.448	
	.065	.120	.128		1 1/2	.049	1.402	.759
3/8	.035	.305	.127	.065		1.370	.996	
	.049	.277	.171	.120		1.260	1.769	
	.065	.245	.215	1 3/4	.065	1.620	1.170	
1/2	.035	.430	.174		2	.065	1.870	1.343
	.049	.402	.236			.120	1.760	2.409
	.065	.370	.302	2 1/2		.065	2.370	1.690
3/4	.035	.680	.267		.120	2.226	3.050	
	.049	.652	.367		3	.065	2.870	2.037
	.065	.620	.476	.120		2.760	3.691	
.120	.510	.807	4	.065		3.870	2.732	
1	.049	.902		.498	.120	3.760	5.019	
	.065	.870		.649				
	.095	.810	.918					
	.120	.760	1.128					



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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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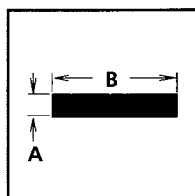
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# RECTANGULAR BAR

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

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# RECTANGULAR BAR

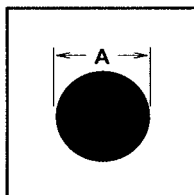
SIZE Inches	WEIGHT - POUNDS		SIZE Inches	WEIGHT - POUNDS		
	Per Foot	20 ft		Per Foot	20 ft	
1 x 1 1/4	1.470	17.64	1 1/2 x 2	3.528	42.34	
	1.764	21.17		2 1/2	4.410	52.92
	2.352	28.22		3	5.292	63.50
	2.940	35.28		4	7.056	84.67
	3.528	42.34		6	10.584	127.01
	4.704	56.45		2 x 2 1/2	5.880	70.56
	7.056	84.67			3	7.056
1 1/4 x 1 1/2	2.205	26.46	4	9.408	112.90	
	2.940	35.28	3 x 4	14.112	169.34	
	3.675	44.10		5	17.640	211.68
	4.410	52.92				
	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 Inches	WEIGHT - POUNDS		SIZE Inches	WEIGHT - POUNDS	
	Per Foot	12 ft		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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Bakersfield  
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**B & B Steel Supply**  
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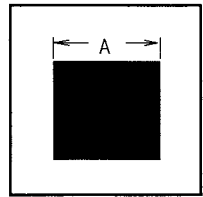
**B & B Metals, Inc**  
Santa Ana  
(714) 541-7267

# SQUARE BAR

• 6061-T6

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
3/8	.165	1.98	2	4.704	56.45	2 1/4	5.954	71.45	2 1/2	7.350	88.20
1/2	.294	3.53	3	10.584	127.01	3 1/4	12.422	149.06	3 1/2	14.406	172.87
3/4	.662	7.94	4	18.816	225.79						
1	1.176	14.11									
1 1/4	1.838	22.06									
1 1/2	2.646	31.75									
1 3/4	3.602	43.22									

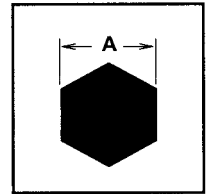
# HEXAGONAL BAR

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

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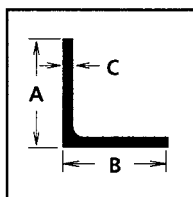
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Santa Ana  
(714) 541-7267



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

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**B & B Steel Supply**  
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Santa Ana  
(714) 541-7267

# ANGLE

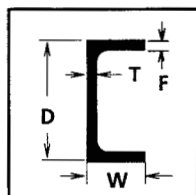
SIZE - INCHES			WEIGHT - POUNDS		SIZE - INCHES			WEIGHT - POUNDS	
A	B	C	Per Foot	25 ft	A	B	C	Per Foot	25 ft
4	x 4	x 1/4	2.283	57.08	6	x 3 1/2	x 5/16	3.385	84.63
		x 5/16	2.829	70.73			x 3/8	4.037	100.93
		x 3/8	3.366	84.15			x 1/2	5.306	132.65
		x 1/2	4.414	110.35					
		x 5/8	5.425	135.63					
5	x 3	x 3/8	3.349	83.73	6	x 4	x 3/8	4.237	105.93
		x 1/2	4.396	109.90			x 1/2	5.578	139.45
5	x 3 1/2	x 3/8	3.582	89.55	6	x 6	x 3/8	5.119	127.98
		x 1/2	4.704	117.60			x 1/2	6.754	168.85
								x 5/8	8.352
5	x 5	x 3/8	4.237	105.93	8	x 6	x 1/2	7.952	198.80
		x 1/2	5.578	139.45			x 3/4	11.679	291.98
				8	x 8	x 1/2	9.141	228.53	
						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
2	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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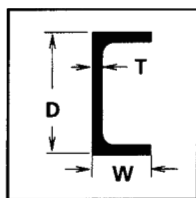
B & B Metals, Inc  
Santa Ana  
(714) 541-7267

# CHANNEL - American Standard

• 6061-T6

STOCK LENGTH: 25 ft

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



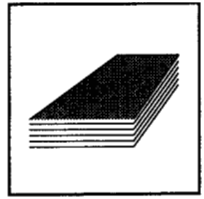
SIZE - INCHES			WEIGHT - POUNDS	
D	W	T	Per Foot	25 ft
3	x 1.410	x .170	1.417	35.43
3	x 1.498	x .258	1.729	43.23
3	x 1.596	x .356	2.074	51.85
4	x 1.580	x .180	1.846	46.15
4	x 1.647	x .247	2.161	54.03
4	x 1.720	x .320	2.504	62.60
5	x 1.750	x .190	2.316	57.90
5	x 1.885	x .325	3.108	77.70
5	x 2.032	x .472	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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# 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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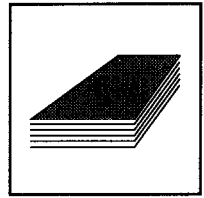
# BARE PLATE

• 5052-H32 MILL FINISH

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

• 6061-T651 MILL FINISH

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



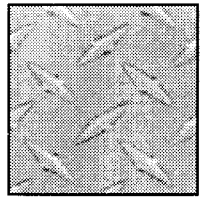
SIZE INCHES	PLATE SIZE INCHES	5052-H32		6061-T651	
		POUNDS PER SQ. FT.	POUNDS PER PLATE	POUNDS PER SQ. FT.	POUNDS PER PLATE
.250	48 x 96	3.492	111.74	3.528	112.90
	48 x 120	3.492	139.68	3.528	141.12
	48 x 144	3.492	167.62	3.528	169.34
.313	48 x 96	-	-	4.417	141.34
	48 x 120	-	-	4.417	176.68
	48 x 144	-	-	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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# 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.

*\*up to 12' long; 1/4" thick mild, 3/16" thick stainless*

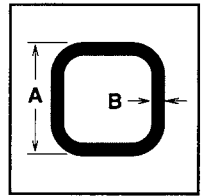
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Bakersfield  
(661) 589-0381

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(805) 349-9991

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# SQUARE TUBING

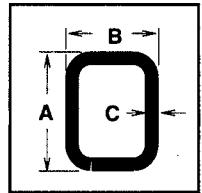
- 6063-T52  
MILL FINISH  
STOCK LENGTHS: 21ft - 1ft  
ASTM-B221



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

# 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	$1\frac{3}{4}$ x $2\frac{1}{4}$	.120	1.091
$\frac{3}{4}$ x $1\frac{1}{2}$	.120	.582		$1\frac{3}{4}$ x 3	.120
1 x 2	.120	.800	$1\frac{3}{4}$ x 4	.120	1.601
			$1\frac{3}{4}$ x $4\frac{1}{2}$	.120	1.746
1 x 3	.120	1.091	$1\frac{3}{4}$ x 5	.120	1.892
1 x 4	.120	1.382	2 x 3	.120	1.382
$1\frac{1}{2}$ x 2	.120	.946	2 x 4	.120	1.673
			2 x 5	.120	1.964

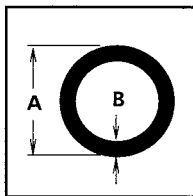
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# ROUND TUBING

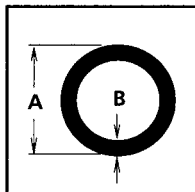
- 6061-T6
- MILL FINISH
- STOCK LENGTHS: Random 20 ft
- ASTM-B210



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	2.750	1.328
1 1/4	.065	1.120	.285	3	.125	2.750	1.328
	.125	1.000	.520		4	.065	3.870

# 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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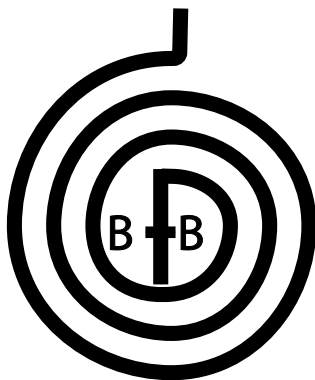
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# PIPE

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 <sup>1/4</sup>	40	1.660	1.380	.140	.786
	80	1.660	1.278	.191	1.037
1 <sup>1/2</sup>	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 <sup>1/2</sup>	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 <sup>1/2</sup>	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

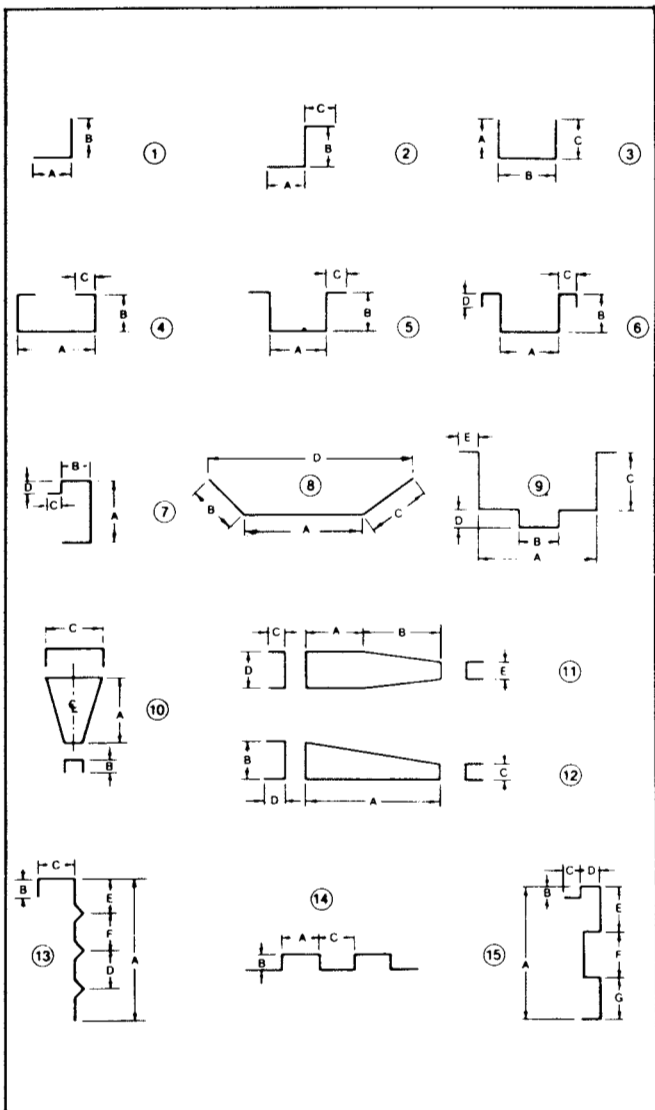


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# FORMED SHAPES



REFER TO THE ABOVE SKETCHES THAT CLOSELY RESEMBLE THE PART YOU NEED, FOR EASE OF ORDERING.

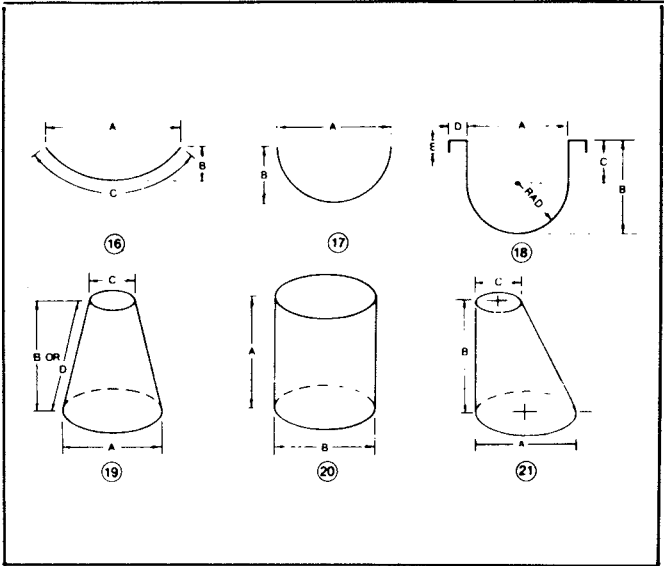
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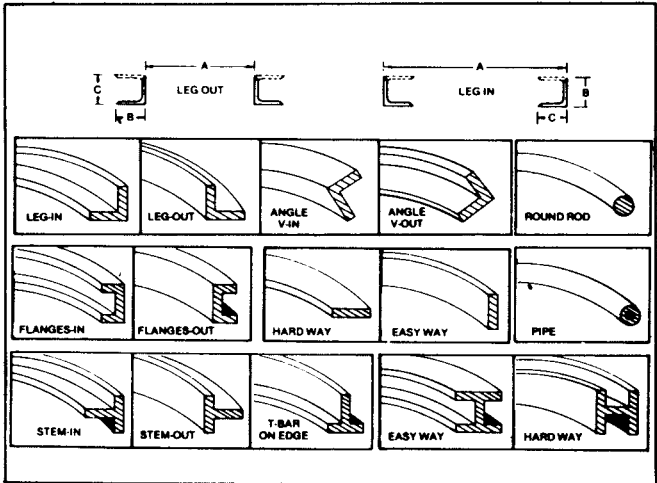
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# ROLLED SHAPES

## FORMED ROLLED SHAPES



## ROLLED SHAPES



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# GEOMETRIC FORMULAS

## CIRCLE

- Circumference:** Multiply diameter x 3.1416  
(or) Divide diameter by 0.3183
- Diameter:** Multiply circumference by 0.3183  
(or) Divide circumference by 3.1416
- Doubling diameter increases area 4 times; tripling diameter increases area 9 times
- Radius:** Multiply circumference by 0.15915  
(or) Divide circumference by 6.28318
- Area:** Multiply circumference by 1/4 of the diameter  
(or) Multiply the square of the diameter by 0.7854  
(or) Multiply the square of the radius by 3.1416

## SQUARE

- Area:** Square of side
- Diagonal:** Multiply side by 1.4142
- Side:** Multiply diagonal by .7071

## SPHERE

- Surface Area:** Multiply circumference by the diameter  
(or) Multiply the square of the diameter by 3.1416  
(or) Ascertain the number of cubic inches in piece and multiply same by weight per cubic inch
- Volume:** Multiply cube of diameter by .5236

## CUBE

- Surface Area:** Multiply square of side by 6
- Volume:** Cube of side

## CYLINDER

- Area (curved surface):** Multiply diameter by length by 3.1416
- Volume:** Multiply square of diameter by length by .7854

## CONE

- Area (curved surface):** Multiply diameter of base by slant height by 1.5708
- Volume:** Multiply area of base by 1/3 perpendicular height

## U. S. - METRIC EQUIVALENTS

	mm	cm	meter	inches	feet	yard
1 Inch =	25.4	2.54	0.254	1	.083333	.27778
1 foot =	304.8	30.48	.3048	12	1	.333333
1 yard =	914.4	91.44	.9144	36	3	1
1 mm =	1	.1	.001	.03937	.003281	.001094
1cm =	10	1	.01	.3937	.032808	.010936
1 meter =	1000	100	1	39.37	3.28083	1.09361

# FRACTION/DECIMAL EQUIVALENTS

FRACTION INCH	DECIMAL INCH	FRACTION INCH	DECIMAL INCH
	$1/64$	.015625	
	$1/32$	.03125	
	$3/64$	.046875	
$1/16$		.0625	$9/16$
	$5/64$	.078125	
	$3/32$	.09375	
	$7/64$	.109375	
$1/8$		.1250	$5/8$
	$9/64$	.140625	
	$5/32$	.15625	
	$11/64$	.171875	
$3/16$		.1875	$11/16$
	$13/64$	.203125	
	$7/32$	.21875	
	$15/64$	.234375	
$1/4$		.2500	$3/4$
	$17/64$	.265625	
	$9/32$	.28125	
	$19/64$	.296875	
$5/16$		.3125	$13/16$
	$21/64$	.328125	
	$11/32$	.34375	
	$23/64$	.359375	
$3/8$		.3750	$7/8$
	$25/64$	.390625	
	$13/32$	.40625	
	$27/64$	.421875	
$7/16$		.4375	$15/16$
	$29/64$	.453125	
	$15/32$	.46875	
	$31/64$	.484375	
$1/2$		.5000	<b>1</b>
			1.0000

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