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Designed: Karl Corrales

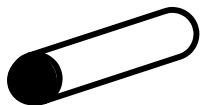
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HOT ROLLED



M-1020 HOT ROLLED ROUNDS

Size In Inches	Estimated Weight, Lbs.		Size In Inches	Estimated Weight, Lbs.	
	Per Foot	20-Ft. Bar		Per Foot	20-Ft. Bar
3/16	.094	1.88	* 3/8	5.053	101.1
1/4	.167	3.34	1/2	6.014	120.3
5/16	.261	5.22	* 5/8	7.058	141.2
3/8	.376	7.52	* 3/4	8.186	163.7
7/16	.511	10.22	* 7/8	9.397	187.9
1/2	.668	13.36			
* 9/16	.845	16.90	2	10.69	213.8
5/8	1.044	20.88	* 1/8	12.07	241.4
3/4	1.504	30.07	* 1/4	13.53	270.6
7/8	2.046	40.93	* 3/8	15.08	301.5
			1/2	16.71	334.1
1	2.673	53.46	* 5/8	18.42	368.4
* 1/16	3.017	60.35	* 3/4	20.21	404.3
* 1/8	3.379	67.58			
1/4	4.176	83.53			



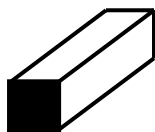
ROUND REINFORCING BARS (RE-BARS)

(Grade 40 & 60 Available)

Bar Designation Number	Size In Inches	Per Foot	Estimated Weight, Lbs.		
			20-Ft. Bar	30-Ft. Bar	40-Ft. Bar
3	.375	.376	7.52	11.28	15.04
4	.500	.668	13.36	20.04	26.72
5	.625	1.044	20.88	31.32	41.76
6	.750	1.504	30.07	45.12	60.16
7	.875	2.046	40.93	61.38	81.84
8	1.000	2.673	53.46	80.19	106.90
9	1.128	3.400	68.00	102.00	136.00
10	1.270	4.303	86.06	129.09	172.12
11	1.410	5.313	106.26	159.39	212.52

STEEL

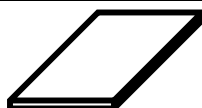
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HOT ROLLED

M-1020 HOT SQUARES

Size In Inches	Estimated Weight, Lbs.		Size In Inches	Estimated Weight, Lbs.	
	Per Foot	20-Ft. Bar		Per Foot	20-Ft. Bar
1/4	.2127	4.254	1 (cont.)		
5/16	.3323	6.647	* 3/8	6.434	128.7
3/8	.4786	9.572	* 1/2	7.657	153.1
7/16	.6514	13.03	* 5/8	8.987	179.7
1/2	.8508	17.02	* 3/4	10.42	208.4
5/8	1.329	26.59	* 7/8	11.96	239.3
3/4	1.914	38.29			
7/8	2.606	52.11	* 2	13.61	272.3
1	3.403	68.06	* 1/4	17.23	344.6
* 1/8	4.307	86.14	* 1/2	21.27	425.4
* 1/4	5.318	106.4	* 3/4	25.74	514.7
			* 3	30.63	612.6



M-1020 HOT ROLLED STRIP

Size In Inches	Estimated Weight, Lbs.		Size In Inches	Estimated Weight, Lbs.	
	Per Foot	20-Ft. Bar		Per Foot	20-Ft. Bar
1 / 8			3 / 16		
X			X		
* 3 / 8	.1595	3.191	* 3 / 8	.2393	4.786
1 / 2	.2127	4.254	1 / 2	.3191	6.381
5 / 8	.2659	5.318	* 5 / 8	.3988	7.976
3 / 4	.3191	6.381	3 / 4	.4786	9.572
* 7 / 8	.3722	7.445	* 7 / 8	.5583	11.17
1	.4254	8.508	1	.6381	12.76
* 1 - 1 / 8	.4786	9.572	* 1 - 1 / 8	.7179	14.36
1 - 1 / 4	.5318	10.64	1 - 1 / 4	.7976	15.95
1 - 1 / 2	.6381	12.76	1 - 1 / 2	.9572	19.14
* 1 - 3 / 4	.7444	14.89	* 1 - 3 / 4	1.117	22.33
2	.8508	17.02	2	1.276	25.52
* 2 - 1 / 4	.9572	19.14	* 2 - 1 / 4	1.436	28.71
2 - 1 / 2	1.064	21.27	2 - 1 / 2	1.595	31.91
* 2 - 3 / 4	1.170	23.40	* 2 - 3 / 4	1.755	35.10
3	1.276	25.52	3	1.914	38.29
3 - 1 / 2	1.489	29.78	3 - 1 / 2	2.233	44.67
4	1.702	34.03	4	2.552	51.05
4 - 1 / 2	1.914	38.29	4 - 1 / 2	2.871	57.43
5	2.127	42.54	5	3.191	63.81
6	2.552	51.05	6	3.829	76.57
8	3.403	68.06	8	5.105	102.1
10	4.254	85.08	10	6.381	127.6
12	5.105	102.10	12	7.657	153.1

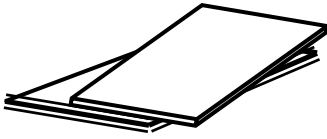
* Special Order.

HOT ROLLED



M-1020 HOT ROLLED FLATS

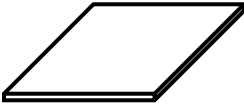
Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	20 – Ft. Bar	Size in Inches	Per Foot	20 – Ft. Bar	Size in Inches	Per Foot	20 – Ft. Bar
1/4 X 1/2	.4254	8.508	3/8 (cont.)			3/4 (cont.)		
5/8	.5318	10.64	4	5.105	102.1	2 1/4	6.700	134.0
3/4	.6381	12.76	4 1/2	5.743	111.49	2 1/2	7.445	148.9
1	.8508	17.02	5	6.381	127.6	2 3/4	8.189	163.8
1 1/4	1.064	21.27	5 1/2	7.019	140.4	3	8.933	178.7
1 1/2	1.276	25.52	6	7.657	153.1	3 1/2	10.42	208.4
1 3/4	1.489	29.78	7	8.933	178.7	4	11.91	238.2
2	1.702	34.03	8	10.21	204.2	4 1/2	13.40	268.0
2 1/4	1.914	38.29	12	15.31	306.30	5	14.89	297.8
2 1/2	2.127	42.54				5 1/2	16.38	327.6
2 3/4	2.340	46.79	1/2 X 3/4	1.276	25.52	6	17.87	357.3
3	2.552	51.05	1	1.702	34.03	7	20.84	416.9
3 1/2	2.978	59.56	1 1/4	2.127	42.54	8	23.82	476.4
4	3.403	68.06	1 1/2	2.552	51.05			
4 1/2	3.829	76.57	1 3/4	2.978	59.56	1 X		
5	4.254	85.08	2	3.403	68.06	1 1/4	4.254	85.08
5 1/2	4.679	93.59	2 1/4	3.829	76.57	1 1/2	5.105	102.1
6	5.105	102.1	2 1/2	4.254	85.08	1 3/4	5.956	119.1
7	5.956	119.1	2 3/4	4.679	93.59	2	6.806	136.1
8	6.806	136.1	3	5.105	102.1	2 1/4	7.657	153.1
			3 1/4	5.530	110.6	2 1/2	8.508	170.2
5/16 X 1/2	.5318	10.64	3 1/2	5.956	119.1	3	10.21	204.2
5/8	.6647	13.29	4	6.806	136.1	3 1/2	11.91	238.2
3/4	.7976	15.95	4 1/2	7.657	153.1	4	13.61	272.3
1	1.064	21.27	5	8.508	170.2	4 1/2	15.31	306.3
1 1/4	1.329	26.59	5 1/2	9.359	187.2	5	17.02	340.3
1 1/2	1.595	31.91	6	10.21	204.2	5 1/2	18.72	374.4
1 3/4	1.861	37.22	7	11.91	238.2	6	20.42	408.4
2	2.127	42.54	8	13.61	272.3	7	23.82	476.4
2 1/4	2.393	47.86				8	27.23	544.5
2 1/2	2.659	53.18	5/8 X 3/4	1.595	31.91			
3	3.191	63.81	1	2.127	42.54	1 1/4 X		
3 1/2	3.722	74.45	1 1/4	2.659	53.18	2	8.508	170.2
4	4.254	85.08	1 1/2	3.191	63.81	2 1/2	10.64	212.7
4 1/2	4.786	95.72	1 3/4	3.722	74.45	3	12.76	255.2
5	5.318	106.4	2	4.254	85.08	4	17.02	340.3
5 1/2	5.849	117.0	2 1/4	4.786	95.72	5	21.27	425.4
6	6.381	127.6	2 1/2	5.318	106.4	6	25.52	510.5
7	7.445	148.9	2 3/4	5.849	117.0	7	29.78	595.6
8	8.508	170.2	3	6.381	127.6	8	34.03	680.6
			3 1/2	7.445	148.9			
3/8 X 1/2	.6381	12.76	4	8.508	170.2	1 1/2 X		
5/8	.7976	15.95	4 1/2	9.572	191.4	2	10.21	204.2
3/4	.9572	19.14	5	10.64	212.7	2 1/2	12.76	255.2
1	1.276	25.52	5 1/2	11.70	234.0	3	15.31	306.3
1 1/4	1.595	31.91	6	12.76	255.2	3 1/2	17.87	357.3
1 1/2	1.914	38.29	7	14.89	297.8	4	20.42	408.4
1 3/4	2.233	44.67	8	17.02	340.3	5	25.52	510.5
2	2.552	51.05				6	30.63	612.6
2 1/4	2.871	57.43	3/4 X 1	2.552	51.05	7	35.73	714.7
2 1/2	3.191	63.81	1 1/4	3.191	63.81	8	40.84	816.8
2 3/4	3.510	70.19	1 1/2	3.829	76.57			
3	3.829	76.57	1 3/4	4.467	89.33			
3 1/2	4.467	89.33	2	5.105	102.1			

STEEL**5****HOT ROLLED****HOT ROLLED SHEETS**

GAUGE	WIDTH AND LENGTH	ESTIMATED WT. LBS. PER SHEET	GAUGE	WIDTH AND LENGTH	ESTIMATED WT. LBS. PER SHEET
16 GA. - (.0598") 2.5 LB. SQ. FT.	48 X 96 120	80.00 100.00	11 GA. - (.1196") 5.0 LB. SQ. FT.	48 X 96 120	160.00 200.00
14 GA. - (.0747") 3.125 LB. SQ. FT.	48 X 96 120	100.00 125.00	10 GA. - (.1345") 5.625 LB. SQ. FT.	48 X 96 120	180.00 225.00
13 GA. - (.0897") 3.75 LB. SQ. FT.	48 X 96 120	120.00 150.00	7 GA. - (.1793") 7.5 LB. SQ. FT.	48 X 96 120	240.00 300.00
12 GA. - (.1046") 4.375 LB. SQ. FT.	48 X 96 120	140.00 175.00			

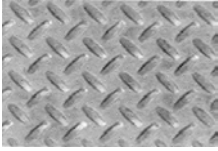
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HOT ROLLED



HOT ROLLED PLATE CARBON STEEL

Size	Wt. Per Square Inch	Wt. Per Square Foot	Wt. Per Plate
1/8			
48 X 96	.0354	5.10	163.20
48 X 120	.0354	5.10	204.00
3/16			
48 X 96	.0532	7.66	245.12
48 X 120	.0532	7.66	306.40
1/4			
48 X 96	.0709	10.21	326.72
48 X 120	.0709	10.21	408.40
5/16			
48 X 96	.0886	12.76	408.32
48 X 120	.0886	12.76	510.40
3/8			
48 X 96	.1064	15.31	489.92
48 X 120	.1064	15.31	612.40
1/2			
48X 96	.1418	20.42	653.44
48 X 120	.1418	20.42	816.80
5/8			
48 X 96	.1773	25.52	816.64
48 X 120	.1773	25.52	1020.80
3/4			
48 X 96	.2127	30.63	980.16
48 X 120	.2127	30.63	1225.20
1			
48 X 96	.2836	40.84	1306.88
48 X 120	.2836	40.84	1633.60
1-1/4			
48 X 96	.3545	51.05	1633.60
48 X 120	.3545	51.05	2042.00
1-1/2			
48 X 96	.4254	61.26	1960.32
48 X 120	.4254	61.26	2450.40
2			
48X 96	.5672	81.68	2613.76
48X 120	.5672	81.68	3267.20
2-1/2			
48 X 96	.7090	102.10	3267.20
48 X 120	.7090	102.10	4084.00
3			
48 X96	.8508	122.52	3920.64
48 X 120	.8508	122.52	4900.80

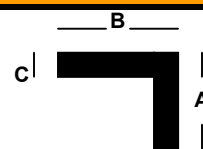
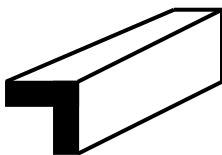
STEEL**7****HOT ROLLED****FLOOR PLATE, DIAMOND PLATE**

Size		Wt. Per Square Inch	Wt. Per Square Ft.	Wt. Per Plate
16 GA.	48 X 120	.0208	3.00	120.0
14 GA.	48 X 96	.0260	3.75	120.0
	48 X 120	.0260	3.75	150.0
12 GA.	48 X 96	.0365	5.25	168.0
	48 X 120	.0365	5.25	210.0
1 / 8	48 X 96	.0427	6.15	196.8
	48 X 120	.0427	6.15	246.0
3/16	48 X 96	.0605	8.71	278.72
	48 X 120	.0605	8.71	348.40
1/4	48 X 96	.0782	11.26	360.32
	48 X 120	.0782	11.26	450.40
3/8	48 X 96	.1137	16.37	523.84
	48 X 120	.1137	16.37	654.80
1/2	48 X 96	.1491	21.47	687.04
	48 X 120	.1491	21.47	858.80
* 5/8	48 X 96	.1845	26.58	850.56
	48 X 120	.1845	26.58	1063.20
* 3/4	48 X 96	.2200	31.68	1013.76
	48 X 120	.2200	31.68	1267.20

* Special Order.

HOT ROLLED

ANGLES – BAR SIZES



Size in Inches A B C	Estimated Wt Per Foot	Lbs 20' Length	Size in Inches A B C	Estimated Wt Per Foot	Lbs 20' Length	Size in Inches A B C	Estimated Wt Per Foot	Lbs 20' Length
1/2 X 1/2 X 1/8	.38	7.6	3/8	5.9	118	5/16	8.2	164
5/8 X 5/8 X 1/8	.48	9.6	1/2	7.7	154	3/8	9.8	196
3/4 X 3/4 X 1/8	.59	11.8	3 X 2-1/2 X 3/16	3.4	68	1/2	12.8	256
7/8 X 7/8 X 1/8	.70	14.0	1/4	4.5	90	5 X 3-1/2 X 1/4	7.0	140
1 X 1 X 1/8	.80	16.0	5/16	5.6	112	5/16	8.7	174
3/16	1.16	23.2	3/8	6.6	132	3/8	10.4	208
1/4	1.49	29.8	1/2	8.5	170	1/2	13.6	272
1-1/4 X 1-1/4 X 1/8	1.01	20.2	3 X 3 X 3/16	3.71	74	5 X 5 X 5/16	10.3	206
3/16	1.48	29.6	1/4	4.9	98	3/8	12.3	246
1/4	1.92	38.4	5/16	6.1	122	1/2	16.2	324
1-1/2 X 1-1/2 X 1/8	1.23	24.6	3/8	7.2	144	5/8	20.0	400
3/16	1.80	36.0	1/2	9.4	188	3/4	23.6	472
1/4	2.34	46.8	3-1/2 X 2-1/2 X 1/4	4.9	98	6 X 3-1/2 X 5/16	9.8	196
5/16	2.86	57.2	5/16	6.1	122	3/8	11.7	234
3/8	3.35	67.0	3/8	7.2	144	1/2	15.3	306
1-3/4 X 1-3/4 X 1/8	1.44	28.8	1/2	9.4	188	6 X 4 X 5/16	10.3	206
3/16	2.12	42.4	3-1/2 X 3 X 1/4	5.4	108	3/8	12.3	246
1/4	2.77	55.4	5/16	6.6	132	1/2	16.2	324
2 X 1-1/2 X 1/8	1.44	28.8	3/8	7.9	158	5/8	20.0	400
3/16	2.12	42.4	1/2	10.2	204	3/4	23.6	472
1/4	2.77	55.4	3-1/2 X 3-1/2 X 1/4	5.8	116	6 X 6 X 5/16	12.6	252
2 X 2 X 1/8	1.65	33.0	5/16	7.2	144	3/8	14.9	298
3/16	2.44	48.8	3/8	8.5	170	1/2	19.6	392
1/4	3.19	63.8	1/2	11.1	222	5/8	24.2	484
5/16	3.92	78.4	4 X 3 1/4	5.8	116	3/4	28.7	574
3/8	4.70	94.0	5/16	7.2	144	1	37.4	748
2-1/2 X 1-1/2 X 3/16	2.44	48.8	3/8	8.5	170	7 X 4 X 3/8	13.6	272
1/4	3.19	63.8	1/2	11.1	222	1/2	17.9	358
2-1/2 X 2 X 3/16	2.75	55.0	5/8	13.6	272	5/8	22.1	442
1/4	3.62	72.4	4 X 3-1/2 X 1/4	6.2	124	8 X 4 X 1/2	19.6	392
5/16	4.50	90.0	5/16	7.7	154	5/8	24.2	484
3/8	5.30	106.0	3/8	9.1	182	3/4	28.7	574
2-1/2 X 2-1/2 X 3/16	3.07	61.4	1/2	11.9	238	8 X 6 X 1/2	23.0	460
1/4	4.10	82.0	4 X 4 X 1/4	6.6	132	5/8	28.5	570
5/16	5.00	100.0	5/16	8.2	164	3/4	33.8	676
3/8	5.90	118.0	3/8	9.8	196	1	44.2	884
1/2	7.70	154.0	1/2	12.8	256	8 X 8 X 1/2	26.4	528
3 X 2 X 3/16	3.07	61	5/8	15.7	314	5/8	32.7	654
1/4	4.1	82	3/4	18.5	370	3/4	38.9	778
5/16	5.0	100	5 X 3 X 1/4	6.6	132	1	51.0	1020



CHANNELS – BAR SIZES



Size in Inches A B C	Estimated Wt Per Foot	Lbs 20' Length	Size in Inches A B C	Estimated Wt Per Foot	Lbs 20' Length	Size in Inches A B C	Estimated Wt Per Foot	Lbs 20' Length
1 X 1 1/2 X 1/8	.80	16.0	1-1/2 X 1 1/2 X 1/8	1.12	22.4	2 X 1 X 1/8	1.78	35.6
1-1/4 X 1 1/2 X 1/8	1.00	20.0	2 X 1 1/2 X 1/8	1.34	26.8	2 X 1 X 3/16	2.32	46.4

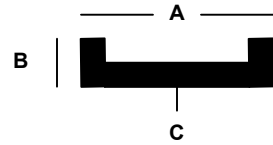
STEEL

9

HOT ROLLED



CHANNELS - STANDARD STRUCTURAL SIZES



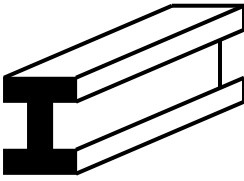
AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Wt Per Foot	20' Length	AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Wt Per Foot	20' Length
C3 X 4.1	3	1.410	.170	4.1	82	C8 X 13.75	8	2.343	.303	13.75	275
C3 X 5.0	3	1.498	.258	5.0	100	C8 X 18.75	8	2.527	.487	18.75	375
C3 X 6.0	3	1.596	.356	6.0	120	C9 X 13.4	9	2.430	.230	13.4	268
C4 X 5.4	4	1.580	.180	5.4	108	C9 X 15.0	9	2.485	.285	15.0	300
C4 X 6.25	4	1.647	.247	6.25	125	C9 X 20.0	9	2.648	.448	20.0	400
C4 X 7.25	4	1.720	.320	7.25	145	C10 X 15.3	10	2.600	.240	15.3	306
C5 X 6.7	5	1.750	.190	6.7	134	C10 X 20.0	10	2.739	.379	20.0	400
C5 X 9.0	5	1.885	.325	9.0	180	C10 X 25.0	10	2.886	.526	25.0	500
C6 X 8.2	6	1.920	.200	8.2	164	C10 X 30.0	10	3.033	.673	30.0	600
C6 X 10.5	6	2.034	.314	10.5	210	C12 X 20.7	12	2.940	.280	20.7	414
C6 X 13.0	6	2.157	.437	13.0	260	C12 X 25.0	12	3.047	.387	25.0	500
C7 X 9.8	7	2.090	.210	9.8	196	C12 X 30.0	12	3.170	.510	30.0	600
C7 X 12.25	7	2.194	.314	12.25	245	C15 X 33.9	15	3.400	.400	33.9	678
C7 X 14.75	7	2.299	.419	14.75	295	C15 X 40.0	15	3.520	.520	40.0	800
C8 X 11.5	8	2.260	.220	11.5	230	C15 X 50.0	15	3.716	.716	50.0	1000



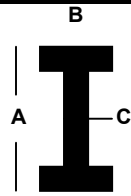
MISCELLANEOUS CHANNELS - STRUCTURAL SIZES



AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Wt Per Foot	20' Length	AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Wt Per Foot	20' Length
MC3 X 7.1	3	1.938	.312	7.1	142	MC10 X 6.5	10	1.125	.150	6.5	130
MC4 X 13.8	4	2.500	.500	13.8	276	MC10 X 8.4	10	1.500	.170	8.4	168
MC6 X 12.0	6	2.500	.313	12.0	240	MC10 X 9.36	10	1.500	.200	9.36	187
MC6 X 15.3	6	3.500	.340	15.3	306	MC10 X 11.1	10	1.550	.250	11.06	221
MC6 X 16.3	6	3.000	.375	16.3	326	MC10 X 21.9	10	3.450	.325	21.9	438
MC6 X 18.0	6	3.500	.375	18.0	360	MC10 X 24.9	10	3.400	.375	24.9	498
MC7 X 17.6	7	3.000	.375	17.6	352	MC10 X 25.3	10	3.550	.425	25.3	506
MC7 X 19.1	7	3.450	.350	19.1	382	MC10 X 28.5	10	3.950	.425	28.5	570
MC7 X 22.7	7	3.600	.500	22.7	454	MC10 X 33.6	10	4.100	.575	33.6	672
MC8 X 7.58	8	1.312	.200	7.58	152	MC12 X 10.6	12	1.500	.190	10.6	212
MC8 X 8.5	8	1.875	.188	8.5	170	MC12 X 30.9	12	3.450	.450	30.9	618
MC8 X 8.94	8	1.362	.250	8.94	179	MC12 X 32.9	12	3.500	.500	32.9	658
MC8 X 18.7	8	2.975	.350	18.7	374	MC12 X 35.0	12	3.767	.467	35.0	700
MC8 X 21.4	8	3.450	.375	21.4	428	MC12 X 37.0	23	3.600	.600	37.0	740
MC8 X 22.8	8	3.500	.425	22.8	456	MC12 X 40.0	12	3.890	.590	40.0	800
MC9 X 23.9	9	3.450	.400	23.9	478	MC12 X 45.0	12	4.012	.712	45.0	900
MC9 X 25.4	9	3.500	.450	25.4	508	MC18 X 42.7	18	3.950	.450	42.7	854
						MC18 X 51.9	18	4.100	.600	51.9	1038
						MC18 X 58.0	18	4.200	.700	58.0	1160



HOT ROLLED

STANDARD I BEAMS
- STRUCTURAL SIZES

AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Wt Per Foot	20' Length	AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Wt Per Foot	20' Length
S3 X 5.7	3	2.330	.170	5.7	114	S12 X 40.8	12	5.250	.460	40.8	816
S3 X 7.5	3	2.509	.349	7.5	150	S12 X 50.0	12	5.477	.687	50.0	1000
S4 X 7.7	4	2.660	.190	7.7	154	S15 X 42.9	15	5.500	.410	42.9	858
S4 X 9.5	4	2.796	.326	9.5	190	S15 X 50.0	15	5.640	.550	50.0	1000
S5 X 10.0	5	3.000	.210	10.0	200	S18 X 54.7	18	6.000	.460	54.7	1094
S5 X 14.75	5	3.284	.494	14.75	295	S18 X 70.0	18	6.251	.711	70.0	1400
S6 X 12.5	6	3.330	.230	12.5	250	S20 X 65.4	20	6.250	.500	65.4	1308
S6 X 17.25	6	3.565	.465	17.25	345	S20 X 75.0	20	6.391	.641	75.0	1500
S7 X 15.3	7	3.660	.250	15.3	306	S20 X 85.0	20	7.053	.653	85.0	1700
S7 X 20.0	7	3.860	.450	20.0	400	S20 X 95.0	20	7.200	.800	95.0	1900
S8 X 18.4	8	4.000	.270	18.4	368	S24 X 79.9	24	7.000	.500	79.9	1598
S8 X 23.0	8	4.171	.441	23.0	460	S24 X 90.0	24	7.124	.624	90.0	1800
S10 X 25.4	10	4.660	.310	25.4	508	S24 X 100.0	24	7.247	.747	100.0	2000
S10 X 35.0	10	4.994	.594	35.0	700	S24 X 105.9	24	7.875	.625	105.9	2118
S12 X 31.8	12	5.000	.350	31.8	636	S24 X 120.0	24	8.048	.798	120.0	2400
S12 X 35.0	12	5.078	.428	35.0	700						

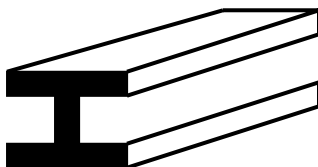
WIDE FLANGE AND
MISCELLANEOUS SIZES

AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight Per Foot	AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight Per Foot
W4 X 13	4.16	4.060	.280	13.0	W8 X 48	8.50	8.110	.400	48.0
M4 X 13	4.00	3.940	.254	13.0	W8 X 58	8.75	8.220	.510	58.0
W5 X 16	5.01	5.000	.240	16.0	W8 X 67	9.00	8.280	.570	67.0
M5 X 18.9	5.00	5.003	.316	18.9	M10 X 9	10.00	2.690	.157	9.0
W5 X 19	5.15	5.030	.270	19.0	W10 X 12	9.87	3.960	.190	12.0
M6 X 4.4	6.00	1.844	.114	4.4	W10 X 15	9.99	4.000	.230	15.0
W6 X 9	5.90	3.940	.170	9.0	W10 X 17	10.11	4.010	.240	17.0
W6 X 12	6.03	4.000	.230	12.0	W10 X 19	10.24	4.020	.250	19.0
W6 X 15	5.99	5.990	.230	15.0	W10 X 22	10.17	5.750	.240	22.0
W6 X 16	6.28	4.030	.260	16.0	W10 X 26	10.3	5.770	.260	26.0
W6 X 20	6.20	6.020	.260	20.0	W10 X 30	10.47	5.810	.300	30.0
W6 X 25	6.38	6.080	.320	25.0	W10 X 33	9.73	7.960	.290	33.0
M8 X 6.5	8.00	2.281	.135	6.5	W10 X 39	9.92	7.985	.315	39.0
W8 X 10	7.89	3.940	.170	10.0	W10 X 45	10.10	8.020	.350	45.0
W8 X 13	7.99	4.000	.230	13.0	W10 X 49	9.98	10.00	.340	49.0
W8 X 15	8.11	4.015	.245	15.0	W10 X 54	10.09	10.030	.370	54.0
W8 X 18	8.14	5.250	.230	18.0	W10 X 60	10.22	10.080	.420	60.0
W8 X 21	8.28	5.270	.250	21.0	W10 X 68	10.40	10.130	.470	68.0
W8 X 24	7.93	6.495	.245	24.0	W10 X 77	10.60	10.910	.530	77.0
W8 X 28	8.06	6.535	.285	28.0	W10 X 88	10.84	10.265	.605	88.0
W8 X 31	8.00	7.995	.285	31.0	W10 X 100	11.10	10.340	.680	100.0
W8 X 35	8.12	8.020	.310	35.0					
W8 X 40	8.25	8.070	.360	40.0					

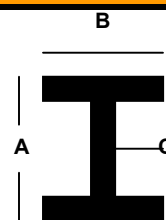
STEEL

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HOT ROLLED



WIDE FLANGE AND MISCELLANEOUS SIZES

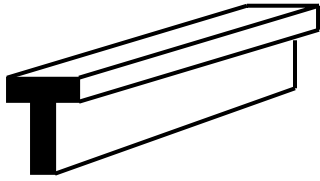
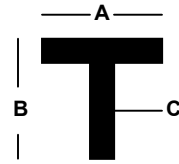


AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight Per Foot
M12 X 11.8	12.00	3.065	.177	11.8
W12 X 14	11.91	3.970	.200	14.0
W12 X 16	11.99	3.990	.220	16.0
W12 X 19	12.16	4.005	.235	19.0
W12 X 22	12.31	4.030	.260	22.0
W12 X 26	12.22	6.490	.230	26.0
W12 X 30	12.34	6.520	.260	30.0
W12 X 35	12.50	6.560	.300	35.0
W12 X 40	11.94	8.005	.295	40.0
W12 X 45	12.06	8.045	.335	45.0
W12 X 50	12.19	8.080	.370	50.0
W12 X 53	12.06	9.995	.345	53.0
W12 X 58	12.19	12.010	.360	58.0
W12 X 65	12.12	12.000	.390	65.0
W12 X 72	12.25	12.040	.430	72.0
W12 X 79	12.38	12.080	.470	79.0
W12 X 87	12.53	12.125	.515	87.0
W12 X 96	12.71	12.160	.550	96.0
W12 X 106	12.89	12.220	.610	106.0
W12 X 120	13.12	12.320	.710	120.0
W12 X 136	13.41	12.400	.790	136.0
W14 X 22	13.72	5.000	.230	22.0
W14 X 26	13.91	5.025	.255	26.0
W14 X 30	13.84	6.730	.270	30.0
W14 X 34	13.98	6.745	.285	34.0
W14 X 38	14.10	6.770	.310	38.0
W14 X 43	13.66	7.995	.305	43.0
W14 X 48	13.79	8.030	.340	48.0
W14 X 53	13.92	8.060	.370	53.0
W14 X 61	13.89	9.995	.375	61.0
W14 X 68	14.04	10.035	.415	68.0
W14 X 74	14.17	10.070	.450	74.0
W14 X 82	14.31	10.130	.510	82.0
W14 X 90	14.02	14.520	.440	90.0
W14 X 99	14.16	14.565	.485	99.0
W14 X 109	14.32	14.605	.525	109.0
W14 X120	14.48	14.670	.590	120.0
W14 X 132	14.66	14.725	.645	132.0
W14 X 159	14.98	15.565	.745	159.0
W16 X 26	15.69	5.500	.250	26.0
W16 X 31	15.88	5.525	.275	31.0
W16 X 36	15.86	6.985	.295	36.0
W16 X 40	16.01	6.995	.305	40.0
W16 X 45	16.13	7.035	.345	45.0
W16 X 50	16.26	7.070	.380	50.0
W16 X 57	16.33	7.120	.430	57.0
W16 X 67	16.33	10.235	.395	67.0
W16 X 77	16.52	10.295	.455	77.0
W16 X 89	16.75	10.365	.525	89.0
W16 X 100	16.97	10.425	.485	100.0

AISI Designation	A Depth in Inches	B Flange Width Inches	C Web Thickness Inches	Weight Per Foot
W18 X 35	17.70	6.000	.300	35.0
W18 X 40	17.90	6.015	.315	40.0
W18 X 46	18.06	6.060	.360	46.0
W18 X 50	17.99	6.495	.355	50.0
W18 X 55	18.11	7.530	.390	55.0
W18 X 60	18.24	7.555	.415	60.0
W18 X 65	18.35	7.590	.450	65.0
W18 X 71	18.47	7.635	.495	71.0
W18 X 76	18.21	11.035	.425	76.0
W18 X 86	18.39	11.090	.480	86.0
W18 X 97	18.59	11.145	.535	97.0
W18 X 106	18.73	11.200	.590	106.0
W18 X 119	18.97	11.265	.655	119.0
W21 X 44	20.66	6.500	.350	44.0
W21 X 57	21.06	6.555	.405	57.0
W21 X 62	20.99	8.240	.400	62.0
W21 X 68	21.13	8.270	.430	68.0
W21 X 73	21.24	8.295	.455	73.0
W21 X 83	21.43	8.355	.515	83.0
W21 X 101	21.36	12.290	.500	101.0
W24 X 55	23.57	7.005	.395	55.0
W24 X 68	23.73	8.965	.415	68.0
W24 X 76	23.92	8.990	.440	76.0
W24 X 84	24.10	9.020	.470	84.0
W24 X 94	24.31	9.065	.515	94.0
W24 X 104	24.06	12.750	.500	104.0
W24 X 117	24.26	12.800	.550	117.0
W24 X 131	24.48	12.855	.605	131.0
W24 X 146	24.76	12.900	.650	146.0
W24 X 162	25.00	12.955	.705	162.0
W27 X 94	26.92	9.990	.490	94.0
W27 X 102	27.09	10.015	.515	102.0
W27 X 114	27.29	10.070	.570	114.0
W27 X 146	27.38	13.965	.605	146.0
W27 X 161	27.59	14.020	.660	161.0
W30 X 108	29.83	10.475	.545	108.0
W30 X 116	30.01	10.495	.565	116.0
W30 X 124	30.17	10.515	.585	124.0
W30 X 132	30.31	10.545	.615	132.0

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STEEL

HOT ROLLED
BAR SIZE T'S

					Estimated Weight, Lbs.	
Size in Inches Flange A		Stem B		Thickness C	Per Foot	20' Length
* 3/4	X	3/4	X	1/8	.61	12.2
* 7/8	X	7/8	X	1/8	.73	14.6
1	X	1	X	1/8	.85	17.0
				3/16	1.20	24.0
1 1/4	X	1 1/4	X	1/8	1.09	21.8
				3/16	1.55	31.0
1 1/2	X	1 1/2	X	3/16	1.90	38.0
				1/4	2.43	48.6
* 1 3/4	X	1 3/4	X	3/16	2.26	45.2
2	X	2	X	1/4	3.56	71.2
				5/16	4.30	86.0
* 2 1/4	X	2 1/4	X	1/4	4.10	82.0
2 1/2	X	2 1/2	X	1/4	4.60	92.0
				5/16	5.50	110.0
				3/8	6.40	128.0

* Special Order

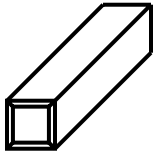
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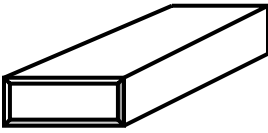


SQUARE ORNAMENTAL AND STRUCTURAL STEEL TUBING

OUTSIDE DIMENSIONS	WALL THICKNESS	WEIGHT PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	WEIGHT PER FOOT
1/2 X 1/2	.049	.3005	4 X 4	.120	6.332
	.065	.3845		.188	9.310
				.250	12.02
5/8 X 5/8	.049	.3838		.313	15.33
	.065	.4950		.375	16.84
				.500	22.98
3/4 X 3/4	.049	.4671	5 X 5	.120	10.81
	.065	.6055		.188	11.86
	.083	.7530		.250	15.42
	.120	1.028		.313	19.58
7/8 X 7/8	.065	.7160		.375	27.04
				.500	36.72
1 X 1	.049	.6337	6 X 6	.120	10.00
	.065	.8265		.188	14.41
	.083	1.035		.250	18.82
	.120	1.436		.375	27.04
				.500	36.72
1-1/4 X 1-1/4	.049	.8003	7 X 7	.188	17.13
	.065	1.048		.250	22.71
	.083	1.317		.375	33.32
	.120	1.844		.500	40.55
1-1/2 X 1-1/2	.065	1.268	8 X 8	.188	19.65
	.083	1.599		.250	25.44
	.120	2.252		.375	36.83
				.500	50.31
2 X 2	.065	1.710	10 X 10	.188	24.73
	.083	2.164		.250	33.15
	.120	3.068		.313	43.90
	.188	4.310		.375	48.61
	.250	5.400		.500	63.91
2-1/2 X 2-1/2	.065	2.152	12 X 12	.250	39.44
	.083	2.728		.375	58.10
	.120	3.844		.500	76.07
	.188	5.590			
	.250	7.100			
3 X 3	.065	2.594			
	.083	3.292			
	.120	4.700			
	.188	6.860			
	.250	8.800			
	.313	11.08			

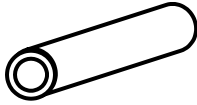
Other Lengths and Sizes available.

HOT ROLLED



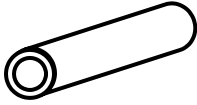
RECTANGULAR ORNAMENTAL & STRUCTURAL STEEL TUBING

OUTSIDE DIMENSIONS	WALL THICKNESS	WEIGHT PER FOOT	OUTSIDE DIMENSIONS	WALL THICKNESS	WEIGHT PER FOOT
1 X 1/2	.065	.6055	4 X 2-1/2	.083	3.575
1-1/2 X 1/2	.065	1.048		.120	5.108
1-1/2 X 1	.049	.800		.180	7.515
	.065	1.048	4 X 3	.083	3.857
	.083	1.317		.120	5.516
	.120	1.844		.188	8.14
2 X 1	.065	1.269		.250	10.50
	.083	1.600	5 X 2	.120	5.516
	.120	2.252		.188	8.150
2 X 1-1/4	.065	1.379		.250	10.51
	.083	1.741	5 X 2-1/2	.120	5.924
	.120	2.456		.180	8.739
2 X 1-1/2	.065	1.490	5 X 3	.120	6.330
	.083	1.882		.188	9.420
	.120	2.660		.250	12.21
2-1/2 X 1	.065	1.490	5 X 4	.188	10.70
	.083	1.882		.250	13.91
	.120	2.660	6 X 2	.120	7.148
2-1/2 X 1-1/2	.065	1.711		.188	10.58
	.083	2.164		.250	13.72
	.120	3.068	6 X 3	.120	7.150
	.188	4.490		.188	10.70
	.250	5.400		.250	13.91
3 X 1	.065	1.711	6 X 4	.188	11.97
	.083	2.164		.250	15.62
	.120	3.068	7 X 4	.188	13.25
3 X 1-1/2	.065	1.932		.250	17.32
	.083	2.446	7 X 5	.188	14.53
	.120	3.476		.250	19.02
	.188	5.070	8 X 2	.188	11.97
3 X 2	.065	2.153		.250	15.62
	.083	2.728	8 X 3	.188	13.25
	.120	3.884		.250	17.32
	.188	5.590	8 X 4	.188	14.53
	.250	7.100		.250	19.02
3 X 2-1/2	.065	2.374	8 X 6	.188	17.08
	.083	3.011		.250	22.42
	.120	4.292	9 X 3	.188	14.53
	.180	6.291		.250	19.02
3-1/2 X 1	.065	1.932	9 X 5	.188	17.08
	.083	2.446		.250	22.42
	.120	3.476	9 X 7	.188	19.63
3-1/2 X 1-1/2	.065	2.153		.250	25.82
	.083	2.728	10 X 2	.188	14.53
	.120	3.884		.250	19.02
3-1/2 X 2-1/2	.065	2.595	10 X 3	.250	20.72
	.083	3.293		.188	17.08
	.120	4.700	10 X 4	.250	22.42
	.180	6.903		.188	18.35
4 X 1-1/2	.065	2.374	10 X 5	.250	22.42
	.083	3.011		.188	19.63
	.120	4.700	10 X 6	.250	25.82
	.180	6.903		.188	17.08
4 X 2	.065	2.595	12 X 2	.188	19.63
	.120	4.70	12 X 4	.250	25.82
	.188	6.86		.188	22.18
	.250	8.800	12 X 6	.250	29.23

STEEL**15****HOT ROLLED****ROUND MECHANICAL STEEL TUBING**

Outside Diameter	Wall Thickness BWG or Fraction	Decimal Inches	Inside Diameter	Weight Per Foot	Outside Diameter	Wall Thickness BWG or Fraction	Decimal Inches	Inside Diameter	Weight Per Foot
1/2	18	.049	.402	.2360	2	18	.049	1.902	1.021
	16	.065	.370	.3020		16	.065	1.870	1.343
						14	.083	1.834	1.699
5/8	18	.049	.527	.3014		11	.120	1.760	2.409
	16	.065	.495	.3888		3/16	.188	1.625	3.638
3/4	18	.049	.666	.3176	2-1/4	18	.049	2.152	1.152
	16	.065	.620	.4755		16	.065	2.120	1.517
	14	.083	.584	.5913		11	.120	2.010	2.730
	11	.120	.510	.8074	2-1/2	18	.049	2.402	1.283
7/8	18	.049	.777	.4323		16	.065	2.370	1.690
	16	.065	.745	.5623		14	.083	2.334	2.143
	14	.083	.709	.7021		11	.120	2.260	3.050
	11	.120	.635	.9676	3	16	.065	2.870	2.037
1	18	.049	.902	.4977		14	.083	2.834	2.586
	16	.065	.870	.6491		11	.120	2.760	3.691
	14	.083	.834	.8129		1/8	.125	2.750	3.838
	11	.120	.760	1.128		3/16	.188	2.624	5.646
1-1/4	18	.049	1.152	.6285		1/4	.250	2.500	7.343
	16	.065	1.120	.8226	3-1/2	18	.049	3.402	1.806
	14	.083	1.084	1.034		16	.065	3.370	2.385
	11	.120	1.010	1.448		14	.083	3.334	3.029
1-1/2	18	.049	1.402	.7593		11	.120	3.260	4.322
	16	.065	1.370	.9962	4	18	.049	3.902	2.068
	14	.083	1.334	1.256		16	.065	3.870	2.732
	11	.120	1.260	1.769		14	.083	3.834	3.472
1-3/4	18	.049	1.652	.8902		11	.120	3.760	4.973
	16	.065	1.620	1.170		1/8	.125	3.750	5.173
	14	.083	1.584	1.478		7	.180	3.640	7.344
	11	.120	1.510	2.089					
1-7/8	18	.049	1.777	.9556					
	16	.065	1.745	1.257					
	14	.083	1.709	1.589					
	11	.120	1.635	2.249					

HOT ROLLED



STANDARD PIPE SIZES AND WEIGHTS

WALL-THICKNESS AND WEIGHTS PER FOOT					WALL-THICKNESS AND WEIGHTS PER FOOT				
Nominal Pipe Size	Outside Diameter Inches	Schedule 10S	Schedule 40 & 40S	Schedule 80	Nominal Pipe Size	Outside Diameter Inches	Schedule 10S	Schedule 40 & 40S	Schedule 80
1/8	.405	.049 S. 1863	.068 S. 2447	.095 S. 3145	2-1/2	2.875	.120 S 4.332	.203 S 5.793	.276 S 7.661
1/4	.540	.065 S. 3297	.088 S. 4248	.119 S. 5351	3	3.500	.120 S 4.332	.216 S 7.576	.300 S 10.25
3/8	.675	.065 S. 4225	.091 S. 5650	.126 S. 7388	3-1/2	4.000	.120 S 4.973	.226 S9.109	.318 S12.51
1/2	.840	.083 S .6710	.109 S. 8510	.147 S 1.088	4	4.500	.120 S 5.613	.237 S 10.79	.337 S 14.98
3/4	1.050	.083 S .8572	.113 S 1.131	.154 S 1.474	5	5.563	.134 S 7.770	.258 S 14.62	.375 S 20.78
1	1.315	.109 S 1.404	.133 S 1.679	.179 S 2.172	6	6.625	.134 S 9.289	.280 S 18.97	.432 S 28.57
1-1/4	1.660	.109 S 1.806	.140 S 2.273	.191 S 2.997	8	8.625	.148 S 13.40	.322 S 28.55	.500 S 43.39
1-1/2	1.900	.109 S 2.085	.145 S 2.718	.200 S 3.631	10	10.750	.165 S 18.65	.365 S 40.48	.593 S 64.33
2	2.375	.109 S 2.638	.154 S 3.653	.218 S 5.022					

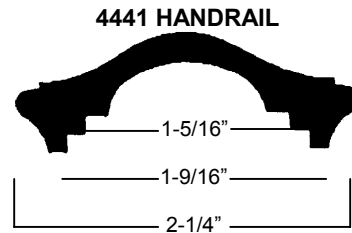
Available in black, galvanized, stainless and aluminum.



1621-L X 20 FT.
1.25 LBS/FT.

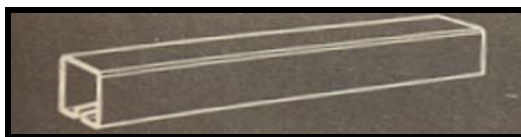


1621-2 X 20 FT.
2.25 LBS/FT.



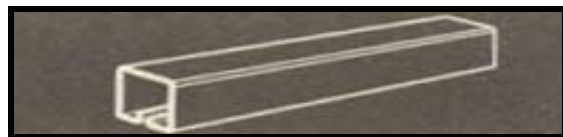
1621-2 1/4 X 20 FT.
2.14 LBS/FT.

ORNAMENTAL TAP TRACK



RETURN LIP C-SECTION
3/8' X 5/8" X 2-3/8" X 1-7/8"

ORNAMENTAL BOTTOM RACK

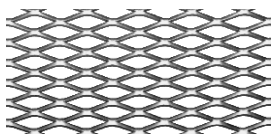


RETURN LIP C-SECTION
1/4' X 1/2" X 1-5/16" X 1-7/8"

STEEL

17

HOT ROLLED



STANDARD EXPANDED METAL (Available in Galvanized, Stainless and Aluminum.)

Style Designation	Width & Length (Inches)	Thickness of Strand (Inches)	Est. Weight, Lbs.		Style Designation	Width & Length (Inches)	Thickness of Strand (Inches)	Est. Weight, Lbs.	
			Per Sq. Ft.	Per Sheet				Per Sq. Ft.	Per Sheet
1 / 4" - #20	48 X 96	.036	.86	27.52	1" - #16	48 X 96	.060	.44	14.08
1 / 4" - #18	48 X 96	.048	1.14	36.48	1-1/2" - #18	48 X 96	.048	.20	6.40
1 / 2" - #40	48 X 96	.048	.40	12.80	1-1/2" - #16	48 X 96	.060	.40	12.80
	72 X 96	.048	.40	19.20		48 X 96	.060	.40	12.80
1 / 2" - #20	36 X 96	.036	.43	10.32	1-1/2" - #13	48 X 96	.092	.60	19.20
	48 X 96	.036	.43	13.76		120	.092	.60	24.00
1 / 2" - #18	48 X 96	.048	.70	22.40		72 X 96	.092	.60	28.80
		.048	.70	28.00		120	.092	.60	36.00
	72 X 96	.048	.70	33.60		96 X 120	.092	.60	48.00
	120	.048	.70	42.00	1-1/2" - #10	48 X 96	.092	.79	25.28
1 / 2" - #16	48 X 96	.060	.84	26.88		120	.092	.79	31.60
		.060	.84	33.60		60 X 120	.092	.79	39.50
	72 X 96	.060	.84	40.32		72 X 96	.092	.79	37.92
	120	.060	.84	50.40		120	.092	.79	47.40
1 / 2" - #13	48 X 96	.092	1.47	47.04	1-1/2" - #9	36 X 96	.134	1.20	38.80
		.092	1.47	58.80		48 X 96	.134	1.20	38.40
	72 X 96	.092	1.47	70.56		120	.134	1.20	48.00
		.092	1.47	70.56		144	.134	1.20	57.60
3 / 4" - #16	48 X 96	.060	.54	17.28	60 X 120	.134	1.20	60.00	
	120	.060	.54	21.60		72 X 96	.134	1.20	57.60
	60 X 120	.060	.54	27.00		120	.134	1.20	72.00
	72 X 96	.060	.54	25.92		144	.134	1.20	86.40
	120	.060	.54	32.40	1-1/2" - #6	36 X 144	.198	2.50	90.00
	144	.060	.54	38.88		48 X 96	.198	2.50	80.00
3 / 4" - #13	48 X 96	.092	.80	25.60		72 X 144	.198	2.50	180.00
		.092	.80	32.00	2" - #10	36 X 96	.092	.68	16.32
	72 X 96	.092	.80	38.40		120	.092	.68	20.40
	120	.092	.80	48.00		72 X 96	.092	.68	32.64
	96 X 120	.092	.80	64.00		120	.092	.68	40.80
3 / 4" - #10	48 X 96	.092	1.20	38.40	2" - #9	144	.092	.68	48.96
	120	.092	1.20	48.00		36 X 96	1.34	.90	21.60
	72 X 96	.092	1.20	57.60		120	1.34	.90	27.00
	120	.092	1.20	72.00		144	1.34	.90	32.40
3 / 4" - #9	48 X 96	.134	1.80	57.60		48 X 96	1.34	.90	28.80
		.134	1.80	72.00		120	1.34	.90	36.00
	144	.134	1.80	86.40		144	1.34	.90	43.20
	60 X 96	.134	1.80	72.00		72 X 96	1.34	.90	43.20
	72 X 96	.134	1.80	86.40		120	1.34	.90	54.00
	120	.134	1.80	108		144	1.34	.90	64.80

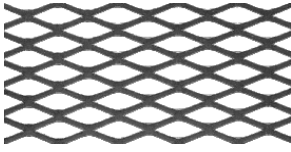
BOBCO METALS

1-800-262-2605

www.bobcometal.com

Fax: 213- 748-5824 or email: sales@bobcometal.com

HOT ROLLED



FLATTENED EXPANDED METAL

(Available in Galvanized, Stainless and Aluminum.)

Style Designation	Width & Length (Inches)	Thickness of Strand (Inches)	Est. Weight, Lbs.		Style Designation	Width & Length (Inches)	Thickness of Strand (Inches)	Est. Weight, Lbs.	
			Per Sq. Ft.	Per Sheet				Per Sq. Ft.	Per Sheet
3/16" - #22	24 X 48	.025	.43	3.44	3 / 4" - #13	36 X 96	.070	.76	18.24
1 / 4" - #20	36 X 96	.030	.83	19.68		120	.070	.76	22.80
	48 X 96	.030	.83	26.24		144	.070	.76	27.36
1 / 4" - #18	48 X 96	.042	1.08	34.56		48 X 96	.070	.76	24.32
1 / 2" - #40	36 X 96	.039	.38	9.12		120	.070	.76	30.40
	48 X 96	.039	.38	12.16		144	.070	.76	36.48
1 / 2" - #20	36 X 96	.029	.43	10.32	3 / 4" - #9	36 X 96	.120	1.71	41.04
1 / 2" - #18	36 X 96	.039	.66	15.84		120	.120	1.71	51.30
	120	.039	.66	19.80		144	.120	1.71	61.56
	48 X 96	.039	.66	21.12		48 X 96	.120	1.71	54.72
	120	.039	.66	26.40		120	.120	1.71	68.40
1 / 2" - #16	36 X 96	.050	.80	19.20		144	.120	1.71	82.08
	120	.050	.80	24.00		60 X 96	.120	1.71	68.40
	144	.050	.80	28.80	1" - #16	36 X 96	.050	.41	9.84
	48 X 96	.050	.80	25.60		48 X 96	.050	.41	13.12
	120	.050	.80	32.00	1" - #14	36 X 96	.060	.41	17.60
	144	.050	.80	38.40	1-1/2" - #18	36 X 96	.038	.19	4.56
	60 X 120	.050	.80	40.00		48 X 96	.038	.19	6.08
1 / 2" - #13	36 X 96	.070	1.40	33.60	1-1/2" - #16	36 X 96	.048	.38	9.12
	120	.070	1.40	42.00		120	.048	.38	11.40
	144	.070	1.40	50.40		144	.048	.38	13.68
	48 X 96	.070	1.40	44.80		48 X 96	.048	.38	12.16
	120	.070	1.40	56.00		120	.048	.38	15.20
	144	.070	1.40	67.20		144	.048	.38	18.24
5 / 8" - #14	48 X 96	.060	.93	29.76	1-1/2" - #14	36 X 96	.061	.46	11.04
5 / 8" - #9	48 X 96	.120	2.26	72.32		48 X 96	.061	.46	14.72
3 / 4" - #34	36 X 96	.048	.32	7.68	1-1/2" - #13	36 X 96	.070	.57	13.68
	48 X 96	.048	.32	10.24		120	.070	.57	17.10
3 / 4" - #16	36 X 96	.048	.51	12.24		144	.070	.57	20.52
	120	.048	.51	15.30		48 X 96	.070	.57	18.24
	144	.048	.51	18.36		120	.070	.57	22.80
	48 X 96	.048	.51	16.32		144	.070	.57	27.36
	120	.048	.51	20.40		60 X 120	.070	.57	28.50
	144	.048	.51	24.48		72 X 120	.070	.57	27.36
3 / 4" - #14	36 X 96	.061	.63	15.12	1-1/2" - #9	36 X 96	.110	1.14	27.36
	48 X 96	.061	.63	20.16		120	.110	1.14	34.20
						144	.110	1.14	41.04
						48 X 96	.110	1.14	36.48
						120	.110	1.14	45.60
						144	.110	1.14	54.72

HOT ROLLED

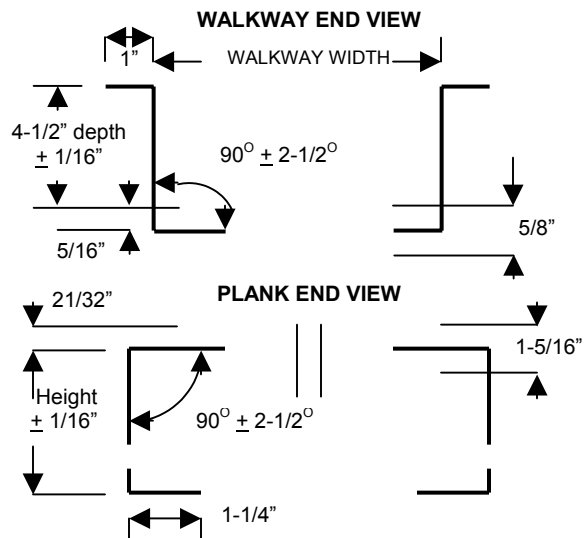
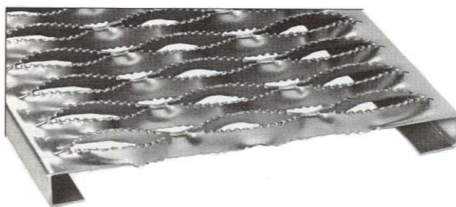
EXPANDED METAL GRATINGS

Style Designation	Width & Length (Inches)	Size of Mesh* In inches		Wt. Per Square Foot
		Width	Length	
TREADWAY (WALKWAY)	48 X 96	1.412	4.00	4.27
	72 X 96	1.412	4.00	4.27
HIWALK (SKYWALK)	48 X 120	2.000	6.00	3.14
	72 X 120	2.000	6.00	3.14
3.0 LB GRATING	48 X 96	1.333	5.33	3.00
	120	1.333	5.33	3.00
	60 X 120	1.333	5.33	3.00
	72 X 96	1.440	5.00	3.00
	120	1.440	5.00	3.00
	144	1.440	5.00	3.00
	150	1.333	5.33	3.00
4.0 LB GRATING	48 X 96	1.333	5.33	4.00
	120	1.333	5.33	4.00
	60 X 120	1.333	5.33	4.00
	72 X 96	1.333	5.33	4.00
	120	1.333	5.33	4.00
5.0 LB GRATING	48 X 96	1.330	5.33	5.00
	72 X 120	1.330	5.33	5.00
6.25 LB GRATING	48 X 48	1.412	5.33	6.25
	96	1.412	5.33	6.25
	144	1.412	5.33	6.25
	192	1.412	5.33	6.25
	72 X 96	1.412	5.33	6.25
	120	1.412	5.33	6.25

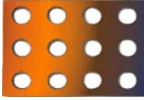
WALKWAY (GRIP STRUT –DIAMOND WALKWAY)



GRATING (HEAVY DUTY GRIP STRUT)



For Order Specification
Call our Customer Services Department.



PERFORATED SHEETS

Hole Size	Centers	Sheet Size	Open Area	Gauge
* .027	3/64	30 X 96	23%	26
* 1/32	1/16	36 X 120	22%	22
* 3/64	3/32	36 X 120	23%	20
	3/32	48 X 120	23%	20
	3/32	48 X 120	23%	18
* 1/16	1/8	36 X 120	23%	26 thru 16
	1/8	48 X 120	23%	20 thru 16
* 5/64	1/8	36 X 120	36%	22 thru 14
	1/8	48 X 120	36%	14
3/32	5/32	36 X 120	33%	24 thru 14
	5/32	48 X 120	33%	20 thru 14
* 7/64	11/64	48 X 120	36%	14
1/8	3/16	36 X 120	40%	24 thru 14
	3/16	48 X 120	40%	22 thru 14
	7/32	36 X 120	31%	12
	7/32	48 X 120	31%	12
* 5/32	3/16	36 X 120	63%	22 thru 20
	1/4	48 X 120	35%	16 thru 10
* 3/16	1/4	36 X 120	53%	24 thru 16
	1/4	48 X 120	53%	20 thru 16
	5/16	36 X 120	34%	20 thru 3/16 pl.
	5/16	48 X 120	34%	20 thru 3/16 pl.
* 1/4	5/16	36 X 120	58%	22
	3/8	36 X 120	40%	22 thru 1/4 pl.
	3/8	48 X 120	40%	20 thru 1/4 pl.
* 5/16	15/32	36 X 120	45%	18
	15/32	48 X 120	45%	10 thru 1/4 pl.
* 3/8	9/16	36 X 120	40%	20 thru 1/4 pl.
	9/16	48 X 120	40%	20 thru 1/4 pl.
* 1/2	11/16	36 X 120	49%	20 thru 1/4 pl.
	11/16	48 X 120	49%	20 thru 1/4 pl.
* 5/8	7/8	36 X 120	46%	18 thru 1/4 pl.
	7/8	48 X 120	46%	3/16 thru 1/4 pl.
* 3/4	1	36 X 120	51%	3/16 thru 1/4 pl.
	1	48 X 120	51%	3/16 thru 1/4 pl.
* 1	1 1/4	36 X 120	56%	3/16 pl.
	1 1/4	48 X 120	56%	10 thru 3/16 pl.
* 1 1/2	2	48 X 120	48%	3/16 pl.

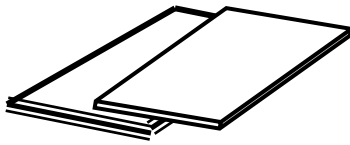


1/8 Dia. 3/16" Stg. Ctrs.
33 Holes PSI 40% O/A



1/8 Dia. 7/32" Stg. Ctrs.
30% O/A

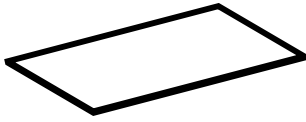
* Special Order.



COLD ROLLED COLD ROLLED SHEETS

GAUGE	WIDTH AND LENGTH	ESTIMATED WT. LBS. PER SHEET	GAUGE	WIDTH AND LENGTH	ESTIMATED WT. LBS. PER SHEET
26 GA. – (.0179") 0.75 LB. SQ. FT.			16 GA. – (.0598") 2.5 LB. SQ. FT.		
	48 X 96 120	24.00 30.00		48 X 96 120	80.00 100.00
24 GA. – (.0239") 1.0 LB. SQ. FT.			14 GA. – (.0747") 3.125 LB. SQ. FT.		
	48 X 96 120	32.00 40.00		48 X 96 120	100.00 125.00
22 GA. – (.0299") 1.25 LB. SQ. FT.			13 GA. – (.0897") 3.75 LB. SQ. FT.		
	48 X 96 120	40.00 50.00		48 X 96 120	120.00 150.00
20 GA. – (.0359") 1.50 LB. SQ. FT.			12 GA. – (.1046") 4.375 LB. SQ. FT.		
	48 X 96 120	48.00 60.00		48 X 96 120	140.00 175.00
18 GA. – (.0478") 2.0 LB. SQ. FT.			11 GA. – (.1196") 5.0 LB. SQ. FT.		
	48 X 96 120	64.00 80.00		48 X 96 120	160.00 200.00
			10 GA. – (.1345") 5.625 LB. SQ. FT.		
				48 X 96 120	180.00 225.00

COLD ROLLED



C1018 COLD FINISHED FLATS

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12 - Ft. Bar	Size in Inches	Per Foot	12 - Ft. Bar	Size in Inches	Per Foot	12 - Ft. Bar
1 / 8 X			1 / 4 X			3 / 8 X		
3/8	.1595	1.914	9/16	.4786	5.743	7/16	.5583	6.700
1/2	.2127	2.552	5/8	.5318	6.381	1/2	.6381	7.657
5/8	.2659	3.191	3/4	.6381	7.657	5/8	.7976	9.572
3/4	.3191	3.829	7/8	.7445	8.933	3/4	.9572	11.49
7/8	.3722	4.467	1	.8508	10.21	7/8	1.117	13.40
1	.4254	5.105	1 1/8	.9572	11.49	1	1.276	15.31
1 1/8	.4786	5.743	1 1/4	1.064	12.76	1 1/8	1.436	17.23
1 1/4	.5318	6.381	1 3/8	1.170	14.04	1 1/4	1.595	19.14
1 1/2	.6381	7.657	1 1/2	1.276	15.31	1 3/8	1.755	21.06
1 3/4	.7445	8.933	1 5/8	1.383	16.59	1 1/2	1.914	22.97
2	.8508	10.21	1 3/4	1.489	17.87	1 5/8	2.074	24.89
2 1/4	.9572	11.49	2	1.702	20.42	1 3/4	2.233	26.80
2 1/2	1.064	12.76	2 1/4	1.914	22.97	2	2.552	30.63
2 3/4	1.170	14.04	2 1/2	2.127	25.52	2 1/4	2.871	34.46
3	1.276	15.31	2 3/4	2.340	28.08	2 1/2	3.191	38.29
3 1/2	1.489	17.87	3	2.552	30.63	2 3/4	3.506	42.07
4	1.702	20.42	3 1/4	2.765	33.18	3	3.829	45.94
4 1/2	1.914	22.97	3 1/2	2.978	35.73	3 1/4	4.148	49.77
5	2.127	25.52	4	3.403	40.84	3 1/2	4.467	53.60
6	2.552	30.63	4 1/2	3.829	45.94	3 3/4	4.786	57.43
			5	4.254	51.05	4	5.105	61.26
3 / 16 X			5 1/2	4.679	56.15	4 1/4	5.424	65.09
1/4	.1595	1.914	6	5.105	61.26	4 1/2	5.743	68.91
5/16	.1994	2.393	7	5.956	71.47	5	6.381	76.57
3/8	.2393	2.871	8	6.806	81.68	5 1/2	7.019	84.23
7/16	.2792	3.350	10	8.508	102.1	6	7.657	91.89
1/2	.3191	3.829	12	10.21	122.5	7	8.933	107.2
5/8	.3988	4.786				8	10.21	122.5
3/4	.4786	5.743	5 / 16 X			10	12.76	153.1
7/8	.5583	6.700	3/8	.3988	4.786	12	15.31	183.8
1	.6381	7.657	7/16	.4653	5.583			
1 1/8	.7179	8.614	1/2	.5318	6.381	1 / 2 X		
1 1/4	.7976	9.572	5/8	.6647	7.976	5/8	1.064	12.76
1 3/8	.8774	10.53	3/4	.7976	9.572	3/4	1.276	15.31
1 1/2	.9572	11.49	7/8	.9306	11.17	7/8	1.489	17.87
1 3/4	1.117	13.40	1	1.064	12.76	1	1.702	20.42
2	1.276	15.31	1 1/8	1.196	14.36	1 1/8	1.914	22.97
2 1/4	1.436	17.23	1 1/4	1.329	15.95	1 1/4	2.127	25.52
2 1/2	1.595	19.14	1 3/8	1.462	17.55	1 3/8	2.340	28.08
2 3/4	1.755	21.06	1 1/2	1.595	19.14	1 1/2	2.552	30.63
3	1.914	22.97	1 5/8	1.729	20.74	1 5/8	2.765	33.18
3 1/2	2.233	26.80	1 3/4	1.861	22.33	1 3/4	2.978	35.73
4	2.552	30.63	2	2.127	25.52	2	3.403	40.84
4 1/2	2.871	34.46	2 1/4	2.393	28.71	2 1/4	3.829	45.94
5	3.191	38.29	2 1/2	2.659	31.91	2 1/2	4.254	51.05
6	3.829	45.94	2 3/4	2.925	35.10	2 3/4	4.679	56.15
8	5.105	61.26	3	3.191	38.29	3	5.105	61.26
10	6.381	76.57	3 1/2	3.722	44.68	3 1/4	5.530	66.36
12	7.657	91.89	4	4.254	51.05	3 1/2	5.956	71.47
1 / 4 X			4 1/2	4.786	57.43	4	6.806	81.68
5/16	.2659	3.191	5	5.318	63.81	4 1/2	7.657	91.89
3/8	.3191	3.829	5 1/2	5.849	70.19	5	8.508	102.1
7/16	.3722	4.467	6	6.381	76.57	5 1/2	9.359	112.3
1/2	.4254	5.105	8	8.508	102.1	6	10.21	122.5
			10	10.64	127.6	7	11.91	142.9
			12	12.76	153.1	8	13.61	163.4

COLD ROLLED

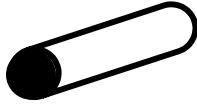


C1018 COLD FINISHED FLATS

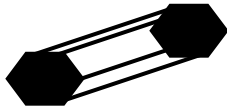
Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12 - Ft. Bar		Per Foot	12 - Ft. Bar		Per Foot	12 - Ft. Bar
1 / 2 X (Cont.)			1 X			1 - 1/2 X		
9	15.31	183.8	1 1/8	3.829	45.94	6	30.63	367.5
10	17.02	204.2	1 1/4	4.254	51.05	8	40.84	490.1
12	20.42	245.0	1 3/8	4.679	56.15	10	51.05	612.6
			1 1/2	5.105	61.26	12	61.26	735.1
			1 5/8	5.530	66.36			
5 / 8 X			1 3/4	5.956	71.47	1 3/4 X		
3/4	1.595	19.14	2	6.806	81.68	2	11.91	142.9
7/8	1.861	22.33	2 1/4	7.657	91.89	2 1/4	13.40	160.8
1	2.127	25.52	2 1/2	8.508	102.1	2 1/2	14.89	178.7
1 1/8	2.393	28.71	2 3/4	9.359	112.3	2 3/4	16.38	196.5
1 1/4	2.659	31.91	3	10.21	122.5	3	17.87	214.4
1 3/8	2.925	35.10	3 1/4	11.06	132.7	3 1/2	20.83	250.1
1 1/2	3.191	38.29	3 1/2	11.91	142.9	4	23.82	285.9
1 5/8	3.456	41.48	4	13.61	163.4	4 1/2	26.80	321.6
1 3/4	3.722	44.67	4 1/2	15.31	183.8	5	29.78	357.3
2	4.254	51.05	5	17.02	204.2	6	35.73	428.8
2 1/4	4.786	57.43	5 1/2	18.72	224.6	8	47.64	571.7
2 1/2	5.318	63.81	6	20.42	245.0			
2 3/4	5.849	70.19	7	23.82	285.9	2 X		
3	6.375	76.50	8	27.23	326.7	2 1/4	15.31	183.8
3 1/2	7.445	89.33	9	30.63	367.5	2 1/2	17.02	204.2
4	8.508	102.1	10	34.03	408.4	2 3/4	18.72	224.6
4 1/2	9.572	114.9	12	40.84	490.1	3	20.42	245.0
5	10.64	127.6				3 1/2	23.82	285.9
5 1/2	11.70	140.4	1 - 1/4 X			4	27.23	326.7
6	12.76	153.1	1 3/8	5.849	70.19	4 1/2	30.63	367.5
7	14.89	178.7	1 1/2	6.381	76.57	5	34.03	408.4
8	17.02	204.2	1 3/4	7.445	89.33	6	40.84	490.1
9	19.14	229.7	2	8.508	102.1	8	54.45	653.4
10	21.27	255.2	2 1/4	9.572	114.9	10	68.06	816.8
12	25.52	306.3	2 1/2	10.64	127.6	12	81.68	980.1
			2 3/4	11.70	140.4			
3 / 4 X			3	12.76	153.1	2 - 1/4 X		
7/8	2.233	26.80	3 1/4	13.83	166.0	2 1/2	19.14	229.7
1	2.552	30.63	3 1/2	14.89	178.7	3	22.97	275.7
1 1/8	2.871	34.46	3 3/4	15.95	191.4	4	30.63	367.5
1 1/4	3.188	38.26	4	17.02	204.2	6	45.94	551.3
1 3/8	3.510	42.11	4 1/2	19.14	229.7			
1 1/2	3.829	45.94	5	21.27	255.2	2 - 1/2 X		
1 5/8	4.148	49.77	6	25.52	306.3	3	25.52	306.3
1 3/4	4.467	53.60	8	34.03	408.4	3 1/2	29.78	357.3
2	5.105	61.26	10	42.54	510.5	4	34.03	408.4
2 1/4	5.743	68.91	12	51.05	612.6	4 1/2	38.29	459.4
2 1/2	6.381	76.57				5	42.54	510.5
2 3/4	7.019	84.23	1 - 1/2 X			5 1/2	46.79	561.5
3	7.657	91.89	1 3/4	8.933	107.2	6	51.05	612.6
3 1/4	8.295	99.54	2	10.21	122.5	8	68.06	816.8
3 1/2	8.933	107.2	2 1/4	11.49	137.9			
4	10.21	122.5	2 1/2	12.76	153.1	3 X		
4 1/2	11.49	137.8	2 3/4	14.04	168.5	3 1/2	35.73	428.8
5	12.76	153.1	3	15.31	183.8	4	40.84	490.1
5 1/2	14.04	168.5	3 1/4	16.59	199.1	5	51.05	612.6
6	15.31	183.8	3 1/2	17.87	214.4	6	61.26	735.1
7	17.87	214.4	4	20.42	245.0			
8	20.42	245.0	4 1/2	22.97	275.7			
9	22.97	275.7	5	25.52	306.3			
10	25.50	306.3	5 1/2	28.08	336.9			
12	30.63	367.5						

COLD ROLLED

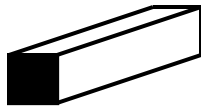
C1018 COLD FINISHED ROUNDS



Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	20 – Ft. Bar		Per Foot	20 – Ft. Bar		Per Foot	20 – Ft. Bar
1/8	.0418	.8353	2 (cont.)			4 (cont.)		
3/16	.0940	1.879	7/16	15.88	317.6	7/8	63.52	1270
1/4	.1671	3.341	1/2	16.71	334.1	15/16	65.16	1303
5/16	.2610	5.220	9/16	17.55	351.0			
3/8	.3759	7.517	5/8	18.42	368.4	5	66.82	1336
7/16	.5116	10.23	11/16	19.31	385.1	1/4	73.67	1473
1/2	.6682	13.36	3/4	20.21	404.3	1/2	80.86	1617
9/16	.8457	16.91	13/16	21.14	422.9	3/4	88.37	1767
5/8	1.044	20.88	7/8	22.09	441.9			
11/16	1.263	25.27	15/16	23.06	461.3	6	96.22	1924
3/4	1.504	30.07				1/4	104.4	2088
13/16	1.765	35.29	3	24.06	481.1	1/2	112.9	2259
7/8	2.046	40.93	1/16	25.07	501.4	3/4	121.8	2436
15/16	2.349	46.98	1/8	26.10	522.0			
			3/16	27.16	543.1	7	131.0	2619
1	2.673	53.46	1/4	28.23	564.6	1/4	140.5	2810
1/16	3.017	60.35	5/16	29.33	586.6	1/2	150.4	3007
1/8	3.383	67.66	3/8	30.45	608.9	3/4	160.5	3211
3/16	3.769	75.38	7/16	31.58	631.7			
1/4	4.176	83.53	1/2	32.74	654.8	8	171.1	3421
5/16	4.604	92.09	9/16	33.92	678.4	1/2	193.1	3862
3/8	5.053	101.1	5/8	35.12	702.5			
7/16	5.512	110.5	11/16	36.35	726.9	9	216.5	4330
1/2	6.014	120.3	3/4	37.59	751.7			
9/16	6.526	130.5	7/8	40.14	802.7	10	267.3	5346
5/8	7.058	141.2	15/16	41.44	828.8			
11/16	7.612	152.2				11	323.4	6468
3/4	8.186	163.7	4	42.77	855.3			
13/16	8.781	175.6	1/8	45.48	909.6	12	384.9	7698
7/8	9.397	187.9	3/16	46.87	937.4			
15/16	10.03	200.7	1/4	48.28	965.6			
			5/16	49.71	994.2			
2	10.69	213.8	3/8	51.16	1023			
1/16	11.37	227.4	7/16	52.63	1053			
1/8	12.07	241.4	1/2	54.13	1083			
3/16	12.79	255.8	9/16	55.64	1113			
1/4	13.53	270.6	5/8	57.18	1143			
5/16	14.29	285.9	11/16	58.73	1175			
3/8	15.08	301.5	3/4	60.31	1206			

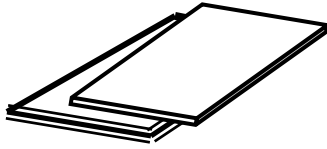
STEEL**25****COLD ROLLED****C1018 COLD FINISHED HEXAGON**

Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12 – Ft. Bar		Per Foot	12 – Ft. Bar		Per Foot	12 – Ft. Bar
1/4	.1842	2.210	1	2.947	35.37	3	26.53	318.3
5/16	.2878	3.454	1/4	4.605	55.26	1/4	31.13	373.6
3/8	.4145	4.973	1/2	6.631	79.56	1/2	36.10	433.2
7/16	.5641	6.769	3/4	9.026	108.3	3/4	41.45	497.3
1/2	.7368	8.842						
5/8	1.151	13.82	2	11.79	141.5	4	47.16	565.9
3/4	1.658	19.89	1/4	14.92	179.0			
7/8	2.257	27.08	1/2	18.42	221.0			
15/16	2.590	31.08	3/4	22.29	267.5			

**C1018 COLD FINISHED SQUARES**

Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12 – Ft. Bar		Per Foot	12 – Ft. Bar		Per Foot	12 – Ft. Bar
1/8	.0531	.6381	1	3.403	40.84	2	13.61	163.4
3/16	.1196	1.436	1/16	3.842	46.10	1/8	15.37	184.4
1/4	.2127	2.552	1/8	4.307	51.69	1/4	17.23	206.7
5/16	.3323	3.988	3/16	4.799	57.59	3/8	19.20	230.4
3/8	.4786	5.743	1/4	5.318	63.81	1/2	21.27	255.2
7/16	.6514	7.817	5/16	5.863	70.35	5/8	23.45	281.4
1/2	.8508	10.21	3/8	6.434	77.21	3/4	25.74	308.8
9/16	1.077	12.92	7/16	7.032	84.39			
5/8	1.329	15.95	1/2	7.657	91.89	3	30.63	367.5
11/16	1.609	19.30	5/8	8.987	107.8	1/4	35.95	431.4
3/4	1.914	22.97	3/4	10.42	125.1	1/2	41.69	500.3
13/16	2.247	26.96	7/8	11.96	143.6	3/4	47.86	574.3
7/8	2.606	31.27						
15/16	2.991	35.89				4	54.45	653.4
						5	85.08	1021
						6	122.5	1470

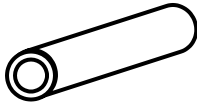
GALVANIZED



GALVANIZED SHEETS

GAUGE	WIDTH AND LENGTH	ESTIMATED WT. LBS. PER SHEET	GAUGE	WIDTH AND LENGTH	ESTIMATED WT. LBS. PER SHEET
28 GA. – (.019") .781 LB. SQ. FT.			16 GA. – (.0624") 2.656 LB. SQ. FT.		
	48 X 96	24.99		48 X 96	84.99
	48 X 120	31.24		120	106.24
26 GA. – (.022") .906 LB. SQ. FT.			14 GA. – (.079") 3.281 LB. SQ. FT.		
	48 X 96	29.00		48 X 96	104.99
	120	36.24		120	131.24
24 GA. – (.028") 1.156 LB. SQ. FT.			12 GA. – (.108") 4.531 LB. SQ. FT.		
	48 X 96	36.99		48 X 96	144.99
	120	46.24		120	181.24
22 GA. – (.0359") 1.406 LB. SQ. FT.			11 GA. – (.123") 5.156 LB. SQ. FT.		
	48 X 96	44.99		48 X 96	164.99
	120	56.24		120	206.24
20 GA. – (.040") 1.656 LB. SQ. FT.			10 GA. – (.138") 5.781 LB. SQ. FT.		
	48 X 96	52.99		48 X 96	185.00
	120	66.24		120	231.24
18 GA. – (.052") 2.156 LB. SQ. FT.					
	48 X 96	68.99			
	120	86.24			

GALVANIZED

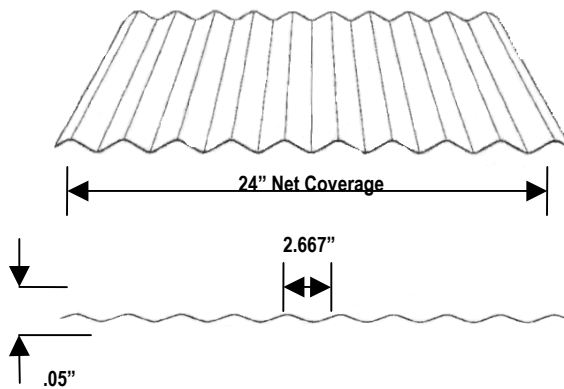


GALVANIZED PIPES

Nominal Pipe Size	Outside Diameter Inches	WALL-THICKNESS AND WEIGHTS PER FOOT		
		Schedule 10S	Schedule 40 & 40S	Schedule 80
1 / 8	.405	.049 S. 1863	.068 S. 2447	.095 S. 3145
1 / 4	.540	.065 S. 3297	.088 S. 4248	.119 S. 5351
3 / 8	.675	.065 S. 4225	.091 S. 5650	.126 S. 7388
1 / 2	.840	.083 S. 6710	.109 S. 8510	.147 S 1.088
3 / 4	1.050	.083 S. 8572	.113 S 1.131	.154 S 1.474
1	1.315	.109 S 1.404	.133 S 1.679	.179 S 2.172
1 - 1 / 4	1.660	.109 S 1.806	.140 S 2.273	.191 S 2.997
1 - 1 / 2	1.900	.109 S 2.085	.145 S 2.718	.200 S 3.631
2	2.375	.109 S 2.638	.154 S 3.653	.218 S 5.022
2 - 1 / 2	2.875	.120 S 4.332	.203 S 5.793	.276 S 7.661
3	3.500	.120 S 4.332	.216 S 7.576	.300 S 10.25
3 - 1 / 2	4.000	.120 S 4.973	.226 S 9.109	.318 S 12.51
4	4.500	.120 S 5.613	.237 S 10.79	.337 S 14.98
5	5.563	.134 S 7.770	.258 S 14.62	.375 S 20.78
6	6.625	.134 S 9.289	.280 S 18.97	.432 S 28.57
8	8.625	.148 S 13.40	.322 S 28.55	.500 S 43.39
10	10.750	.165 S 18.65	.365 S 40.48	.593 S 64.33

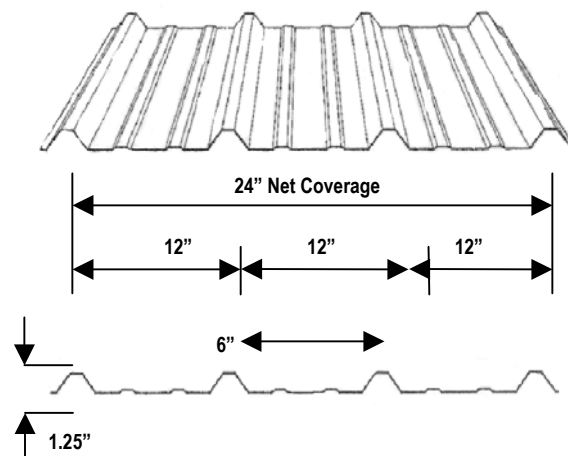
CORRUGATED GALVANIZED SHEETS

STANDARD CORRUGATED



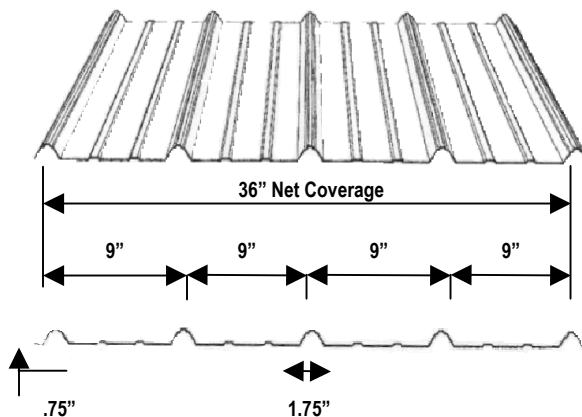
- Manufactured using high tensile steel for greater load capability.
- 1/2" Corrugated combines function and form.
- Available in custom colors.
- Plain G-90 Galvanized/Galvalume for unpainted applications.
- 1/2" Corrugated is used in a variety of applications, both general and decorative.

HI-R36

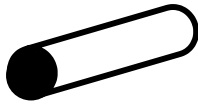


- 36" Coverage.
- Gauge 26 standard.
- Galvanized/Galvalume for unpainted applications.
- Manufactured using high tensile steel for greater load capability.
- Purlin-bearing leg for quick installation of panels.

SUPER-RIB



- 36" Coverage.
- Low profile panel.
- Gauge 26, 29 standard. 24 if requested.
- Galvanized/Galvalume for unpainted applications.
- Manufactured using high tensile steel for greater load capability.
- Purlin-bearing leg for quick installation of panels.



TYPE 303 ROUNDS

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar
1/8	.042	.50	13/16	1.763	21.16	2	10.68	128.2
3/16	.094	1.13	7/8	2.044	24.53	1/4	13.52	162.2
1/4	.167	2.00	15/16	2.347	28.16	1/2	16.69	200.3
5/16	.261	3.13				3/4	20.20	242.4
3/8	.376	4.51	1	2.670	32.04			
7/16	.511	6.13	1/16	3.014	36.17	3	24.03	288.4
1/2	.668	8.02	1/8	3.379	40.55			
9/16	.845	10.14	1/4	4.173	50.08			
5/8	1.043	12.52	3/8	5.049	60.59			
1-1/16	1.262	15.14	1/2	6.008	72.10			
3/4	1.502	18.02	5/8	7.051	84.61			
			3/4	8.178	98.14			
			7/8	9.388	112.7			



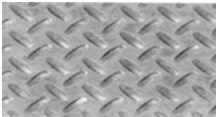
TYPE 304 ROUNDS

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar
1/8	.042	.50	1	2.670	32.04	2	10.68	128.2
3/16	.094	1.13	1/8	3.379	40.55	1/8	12.06	144.7
1/4	.167	2.00	3/16	3.766	45.19	1/4	13.52	162.2
5/16	.261	3.13	1/4	4.173	50.08	3/8	15.06	180.7
3/8	.376	4.51	5/16	4.600	55.20	1/2	16.69	200.3
7/16	.511	6.13	3/8	5.049	60.59	5/8	18.40	220.8
1/2	.668	8.02	7/16	5.518	66.22	3/4	20.20	242.4
			1/2	6.008	72.10			
9/16	.845	10.14	9/16	6.520	78.24	3	24.03	288.4
5/8	1.043	12.52	5/8	7.051	84.61	1/4	28.21	338.5
11/16	1.262	15.14	11/16	7.604	91.25	1/2	32.71	392.5
3/4	1.502	18.02	3/4	8.178	98.14	3/4	37.55	450.6
13/16	1.763	21.16	7/8	9.388	112.7			
7/8	2.044	24.53	15/16	10.02	120.2	4	42.73	512.8
15/16	2.347	28.16						



TYPE 304 HEXAGONS

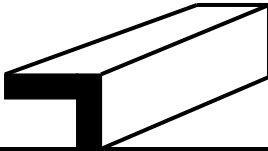
Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12' Bar		Per Foot	12' Bar		Per Foot	12' Bar
1/4	.184	2.21	1	2.945	35.34	1 7/16	6.085	73.02
3/8	.414	4.97	1/8	3.727	44.72	1/2	6.625	79.50
1/2	.736	8.83	1/4	4.601	55.21	5/8	7.775	93.30
5/8	1.150	13.80	3/8	5.567	66.80	3/4	9.018	108.2
3/4	1.656	19.87				2	11.78	141.4



TYPE 304 DIAMOND PLATE

Size in Inches	Estimated Weight		Size in Inches	Estimated Weight	
	Per Ft. in Lbs.	Per Piece in Lbs.		Per Ft. in Lbs.	Per Piece in Lbs.
* 3/16	48 X 96	8.579	* 1/2	48 X 96	21.66
	48 X 120	8.579		48 X 120	21.66
* 1/4	48 X 96	11.16	* 3/4	48 X 96	32.12
	48 X 120	11.16		48 X 120	32.12

Cut to size, Available upon request.



TYPE 304 ANGLES

Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12' Bar		Per Foot	12' Bar		Per Foot	12' Bar
3/4 X 3/4 X 1/8	.59	11.8	1 1/2 X 1 1/2 X 1/8	1.23	24.6	2 1/2 X 2 1/2 X 3/16	3.07	61.4
			3/16	1.80	36.0	1/4	4.10	82.0
1 X 1 X 1/8	.80	16.0	1/4	2.34	46.8	3/8	5.90	118.0
3/16	1.16	23.2						
1/4	1.49	29.8	* 1 3/4 X 1 3/4 X 1/4	2.77	55.4	3 X 3 X 1/4	4.90	98.0
						3/8	7.20	144.0
1 1/4 X 1 1/4 X 1/8	1.01	20.2	2 X 2 X 1/8	1.65	33.0			
3/16	1.48	29.6	3/16	2.44	48.8	4 X 4 X 1/4	6.60	132.0
1/4	1.92	38.4	1/4	3.19	63.8	3/8	9.80	196.0
			3/8	4.70	94.0			

* Special Order

STAINLESS STEEL

31



TYPE 304 FLATS

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar
1/8 X 1/2	.2127	2.552	3/8 X 1/2	.6381	7.657	* 1		
3/4	.3191	3.829	3/4	.9572	11.49	* 1 1/4	4.254	51.05
1	.4254	5.105	1	1.276	15.31	* 1 1/2	5.105	61.26
1 1/4	.5138	6.381	1 1/4	1.595	19.14	* 1 3/4	5.956	71.47
1 1/2	.6381	7.657	1 1/2	1.914	22.97	* 2	6.806	81.68
2	.8508	10.21	1 3/4	2.233	26.80	* 2 1/2	8.508	102.1
2 1/2	1.064	12.76	2	2.552	30.63	* 3	10.21	122.5
3	1.276	15.31	2 1/4	2.871	34.46	* 3 1/2	11.91	142.9
3 1/2	1.488	17.86	2 1/2	3.188	38.26	* 4	13.61	163.4
4	1.702	20.42	2 3/4	3.510	42.11	* 5	17.02	204.2
			3	3.829	45.94	* 6	20.42	245.0
3/16 X 1/2	.3191	3.829	3 1/2	4.467	53.60			
3/4	.4786	5.743	4	5.105	61.26	* 1-1/4		
1	.6381	7.657	4 1/2	5.743	68.91	* 1 1/2	6.381	76.57
1 1/4	.7976	9.572	5	6.381	76.57	* 2	8.508	102.1
1 1/2	.9572	11.49	6	7.657	91.89	* 2 1/2	10.64	127.6
1 3/4	1.116	13.39				* 3	12.76	153.1
2	1.275	15.30	1/2 X 3/4	1.276	15.31	* 4	17.02	204.2
2 1/2	1.594	19.13	1	1.702	20.42	* 5	21.27	255.2
3	1.913	22.96	1 1/4	2.127	25.52	* 6	25.52	306.2
4	2.550	30.60	1 1/2	2.552	30.63			
			1 3/4	2.978	35.73	* 1-1/2		
1/4 X 1/2	.4254	5.105	2	3.403	40.84	* 1 3/4	8.933	107.2
3/4	.6381	7.657	2 1/2	4.254	51.05	2	10.21	122.5
1	.8508	10.21	3	5.105	61.26	2 1/2	12.76	153.1
1 1/4	1.064	12.76	3 1/2	5.956	71.47	3	15.31	183.8
1 1/2	1.276	15.31	4	6.806	81.68	3 1/2	17.87	214.4
1 3/4	1.489	17.87	4 1/2	7.657	91.89	4	20.42	245.0
2	1.702	20.42	5	8.508	102.1	5	25.52	306.2
2 1/2	2.127	25.52	6	10.21	122.5	6	30.63	367.6
3	2.552	30.63						
3 1/2	2.978	35.73	5/8 X 3/4	1.595	19.14	* 2		
4	3.403	40.84	1	2.127	25.52	* 2 1/2	17.02	204.2
4 1/2	3.829	45.94	1 1/4	2.659	31.91	* 3	20.42	245.0
5	4.254	51.05	1 1/2	3.191	38.29	* 4	27.23	326.7
6	5.105	61.26	1 3/4	3.722	44.67	* 5	34.03	408.4
			2	4.254	51.05	* 6	40.84	490.1
* 5/16 X 3/4	.7976	9.571	* 3	6.381	76.57			
* 1	1.064	12.76	* 4	8.508	102.1	* 2-1/2		
* 1 1/2	1.595	19.14				* 3	25.52	306.2
* 2	2.127	25.52	3/4 X 1	2.552	30.63	* 4	34.03	408.4
* 2 1/2	2.659	31.91	1 1/4	3.191	38.29	* 5	42.54	510.5
* 3	3.191	38.29	1 1/2	3.829	45.94	* 6	51.05	612.6
* 4	4.254	51.05	1 3/4	4.467	53.60			
* 5	5.318	63.82	2	5.105	61.26	* 3		
* 6	6.381	76.57	2 1/2	6.381	76.57	* 3 1/2	35.73	428.8
			* 3	7.657	91.89	* 4	40.84	490.1
			* 3 1/2	8.933	107.2	* 5	51.05	612.6
			* 4	10.21	122.5	* 6	61.26	735.1
			* 6	15.31	183.8			

Stainless Steel True Bar Available upon Request.

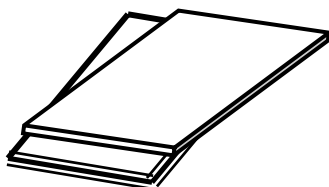
* Special Order

BOBCO METALS

1-800-262-2605

www.bobcometal.com

Fax: 213- 748-5824 or email: sales@bobcometal.com



TYPE 304 STAINLESS SHEETS

No. 2B Finish
No. 4 Finish – W/ PVC
No. 8 - Available upon request

Thickness	Width & Length Inches	Est. Wt. Lbs. per Sheet	Thickness	Width & Length Inches	Est. Wt. Lbs. per Sheet	Thickness	Width & Length Inches	Est. Wt. Lbs. per Sheet
.016" (28 GA.) .672 LB. SQ. FT.	36 X 120	20.2	.0351" (20 GA.) 1.474 LB. SQ. FT.	48 X 120	59.0	.090" (13 GA.) 3.780 LB. SQ. FT.	48 X 120	151.2
.018" (26 GA.) .756 LB. SQ. FT.	48 X 120	30.2	.048" (18 GA.) 2.016 LB. SQ. FT.	48 X 120	80.6	.105" (12 GA.) 4.410 LB. SQ. FT.	48 X 120	176.4
.024" (24 GA.) 1.008 LB. SQ. FT.	48 X 120	40.3	.060" (16 GA.) 2.520 LB. SQ. FT.	48 X 120	100.8	.120" (11 GA.) 5.040 LB. SQ. FT.	48 X 120	201.6
.030" (22 GA.) 1.260 LB. SQ. FT.	48 X 120	50.4	.075" (14 GA.) 3.150 LB. SQ. FT.	48 X 120	126.0	.135" (10 GA.) 5.670 LB. SQ. FT.	48 X 120	226.8

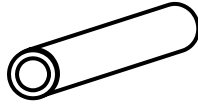
Other Sizes and Thickness Available



TYPE 304 SQUARES

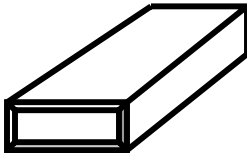
Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12' Bar		Per Foot	12' Bar		Per Foot	12' Bar
3/16	.1196	1.436	* 1	3.403	40.84	* 3	30.63	367.5
1/4	.2127	2.552	* 1/4	5.318	63.81	* 1/2	41.69	500.3
5/16	.3322	3.988	* 3/8	6.434	77.21	* 4	54.45	653.4
3/8	.4786	5.743	* 1/2	7.657	91.89	* 1/2	68.91	827.0
7/16	.6514	7.817	* 1 5/8	8.987	107.8	* 5	85.08	1021
1/2	.8508	10.21	* 3/4	10.42	125.1	* 1/2	102.9	1235
5/8	1.329	15.95	* 2	13.61	163.4	* 6	122.5	1470
3/4	1.914	22.97	* 1/4	17.23	206.7			
7/8	2.606	31.27	* 1/2	21.27	255.2			
			* 3/4	25.74	308.8			

* Special Order



STAINLESS PIPE

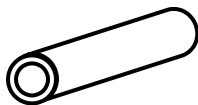
WALL-THICKNESS AND WEIGHTS PER FOOT					WALL-THICKNESS AND WEIGHTS PER FOOT				
Nominal Pipe Size	Outside Diameter Inches	Schedule 10S	Schedule 40 & 40S	Schedule 80	Nominal Pipe Size	Outside Diameter Inches	Schedule 10S	Schedule 40 & 40S	Schedule 80
1 / 8	.405	.049 S. 1863	.068 S. 2447	.095 S. 3145	2 - 1 / 2	2.875	.120 S 4.332	.203 S 5.793	.276 S 7.661
1 / 4	.540	.065 S. 3297	.088 S. 4248	.119 S. 5351	3	3.500	.120 S 4.332	.216 S 7.576	.300 S 10.25
3 / 8	.675	.065 S. 4225	.091 S. 5650	.126 S. 7388	3 - 1 / 2	4.000	.120 S 4.973	.226 S 9.109	.318 S 12.51
1 / 2	.840	.083 S. 6710	.109 S. 8510	.147 S 1.088	4	4.500	.120 S 5.613	.237 S 10.79	.337 S 14.98
3 / 4	1.050	.083 S. 8572	.113 S 1.131	.154 S 1.474	5	5.563	.134 S 7.770	.258 S 14.62	.375 S 20.78
1	1.315	.109 S 1.404	.133 S 1.679	.179 S 2.172	6	6.625	.134 S 9.289	.280 S 18.97	.432 S 28.57
1 - 1 / 4	1.660	.109 S 1.806	.140 S 2.273	.191 S 2.997	8	8.625	.148 S 13.40	.322 S 28.55	.500 S 43.39
1 - 1 / 2	1.900	.109 S 2.085	.145 S 2.718	.200 S 3.631	10	10.750	.165 S 18.65	.365 S 40.48	.593 S 64.33
2	2.375	.109 S 2.638	.154 S 3.653	.218 S 5.022					

STAINLESS RECTANGULAR
TUBES

Stock Length: 20'

SIZE	WT. / FT.	WT. / EA.	SIZE	WT. / FT.	WT. / EA.
1/2 X 1 X 16 GA	.635	12.69	2 X 1 X 14 GA.	1.600	32.00
3/4 X 1 1/2 X 16 GA	.99	19.80	2 X 1 X 11 GA.	2.252	43.04
1-1/2 X 1 1/2 X 16 GA.	.83	16.53	2 X 3 X 11 GA.	3.88	77.60
1-1/2 X 1 X 16 GA	1.048	20.96	3 X 4 X 11 GA.	7.56	151.20
2 X 1 X 16 GA.	1.269	25.38			

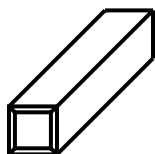
Other Sizes Available
Please Call our Order Desk



STAINLESS ROUND TUBES

Stock Length: 20'
Mill Finish, # 4 Finish, # 8 on request.

SIZE	WT. / FT.	WT. / EA.	SIZE	WT. / FT.	WT. / EA.
1/4 X 16 GA.	0.128	2.56	3 X 16 GA	2.037	40.74
3/8 X 16 GA.	0.215	4.30	5/8 X 11 GA.	.6472	12.94
1/2 X 16 GA.	0.302	6.04	1 X 11 GA	1.128	22.56
3/4 X 16 GA	0.476	9.51	1-1/4 X 11 GA	1.448	28.96
1 X 16 GA	0.649	12.98	1-1/2 X 11GA	1.769	35.38
1-1/4 X 16 GA	0.823	16.45	1-3/4 X 11 GA.	2.089	23.40
1-1/2 X 16 GA	0.996	19.92	2 X 11 GA	2.409	48.18
1-5/8 X 16 GA	1.083	21.66	3 X 11 GA	3.691	73.82
1-3/4 X 16 GA.	1.170	23.40	4 X 11 GA	4.973	99.46
2 X 16 GA	1.343	26.86			



STAINLESS SQUARE TUBES

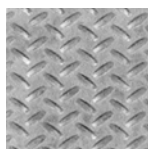
Stock Length: 20'
Mill Finish, # 4 Finish
8 on request

SIZE	WT. / FT.	WT. / EA.	SIZE	WT. / FT.	WT. / EA.
1/2 X 1/2 X 16 GA.	0.384	7.68	1 X 1 X 14 GA.	1.035	20.70
3/4 X 3/4 X 16 GA	0.606	12.11	2 X 2 X 14 GA.	2.163	43.26
5/8 X 5/8 X 16 GA.	0.50	10.00	1 X 1 X 11 GA.	1.436	28.72
1 X 1 X 16 GA	0.827	16.33	1 1/4 X 1 1/4 X 11 GA	1.844	36.88
1 1/4 X 1 1/4 X 16 GA	1.047	20.94	1 1/2 X 1 1/2 X 11 GA	2.262	45.04
1 1/2 X 1 1/2 X 16 GA	1.268	25.36	2 X 2 X 11 GA	3.068	61.36
2 X 2 X 16 GA	1.710	34.20	3 X 3 X 11 GA.	4.700	94.00
			4 X 4 X 11 GA.	6.260	125.20

Other Sizes Available, Please Call our Order Desk

**3003-H14 ALUMINUM FLAT SHEET**

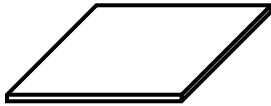
Thickness In Inches	Width/ Length Per Sheet	Estimated Wt. Lbs. Per Sheet	Thickness In Inches	Width/ Length Per Sheet	Estimated Wt. Lbs. Per Sheet
.025 (.356 LB. PER SQ. FT.)	48 X 120	14.2	.080 (1.14 LB. PER SQ. FT.)	48 X 120	46.6
.032 (.456 LB. PER SQ. FT.)	48 X 120	18.2	.090 (1.28 LB. PER SQ. FT.)	48 X 120	51.3
.040 (.570 LB. PER SQ. FT.)	48 X 120	22.8	.100 (1.43 LB. PER SQ. FT.)	48 X 120	57.0
.050 (.713 LB. PER SQ. FT.)	48 X 120	28.5	.125 (1.78 LB. PER SQ. FT.)	48 X 120	71.2
.063 (.898 LB. PER SQ. FT.)	48 X 120	35.9			

**3003 ALUMINUM DIAMOND PLATE**
Bright Finish

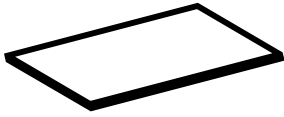
Thickness In Inches	Width and Length	Est. Weight, Lbs.		Thickness In Inches	Width and Length	Est. Weight, Lbs.	
		Per Sq. Ft.	Per Plate			Per Sq. Ft.	Per Plate
.063	48 X 96	1.01	32.32	.188	48 X 96	3.00	96.00
	48 X 120	1.01	40.40		48 X 120	3.00	120.00
	48 X 144	1.01	48.48		48 X 144	3.00	137.28
.080					48 X 192	3.00	192.00
	48 X 96	1.24	39.60	.250	48 X 96	3.90	124.80
	48 X 120	1.24	49.50		48 X 120	3.90	156.00
	48 X 144	1.24	59.40		48 X 144	3.90	187.20
.100					48 X 192	3.90	237.33
	48 X 96	1.60	51.20	.375	48 X 96	5.43	173.86
	48 X 120	1.60	64.00		48 X 120	5.43	217.32
.125	48 X 144	1.60	76.80		48 X 144	5.43	260.78
					48 X 192	5.43	347.71
	48 X 96	2.00	64.00				
	48 X 120	2.00	80.00				
	48 X 144	2.00	96.00				
	48 X 192	2.00	128.00				

**5052-H32 ALUMINUM FLAT SHEET**

Thickness In Inches	Width/ Length Per Sheet	Estimated Wt. Lbs. Per Sheet	Thickness In Inches	Width/ Length Per Sheet	Estimated Wt. Lbs. Per Sheet
.032 (.447 LB. PER SQ. FT.)	48 X 144	21.5	.080 (1.12 LB. PER SQ. FT.)	48 X 144	53.8
.040 (.559 LB. PER SQ. FT.)	48 X 144	26.8	.090 (1.26 LB. PER SQ. FT.)	48 X 144	60.5
.050 (.698 LB. PER SQ. FT.)	48 X 144	33.5	.100 (1.40 LB. PER SQ. FT.)	48 X 144	67.2
.063 (.880 LB. PER SQ. FT.)	48 X 144	42.2	.125 (1.75 LB. PER SQ. FT.)	48 X 144	84.0

**5052 -H32 ALUMINUM PLATES**

Thickness Inch	Size Inch	<u>Est. Weight, Lbs.</u>		Thickness Inch	Size Inch	<u>Est. Weight, Lbs.</u>	
		Sq. Ft.	Pl.			Sq. Ft.	Pl.
1/4	48 X 144	3.48	167	3/8	48 X 144	5.22	251

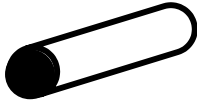
**6061-T6 ALUMINUM FLAT SHEET**

Thickness In Inches	Width/ Length Per Sheet	Estimated Wt. Lbs. Per Sheet	Thickness In Inches	Width/ Length Per Sheet	Estimated Wt. Lbs. Per Sheet
.020 (.282 LB. PER SQ. FT.)	48 X 144	13.5	.080 (1.13 LB. PER SQ. FT.)	48 X 144	54.2
.025 (.353 LB. PER SQ. FT.)	48 X 144	16.9	.090 (1.27 LB. PER SQ. FT.)	48 X 144	61.0
.032 (.452 LB. PER SQ. FT.)	48 X 144	21.7	.100 (1.41 LB. PER SQ. FT.)	48 X 144	67.7
.040 (.564 LB. PER SQ. FT.)	48 X 144	27.1	* .125 (1.76 LB. PER SQ. FT.)	48 X 144	84.5
.050 (.706 LB. PER SQ. FT.)	48 X 144	33.9	* .160 (2.25 LB. PER SQ. FT.)	48 X 144	108
.063 (.889 LB. PER SQ. FT.)	48 X 144	42.7	* .190 (2.69 LB. PER SQ. FT.)	48 X 144	129
.071 (1.00 LB. PER SQ. FT.)	48 X 144	48.0			

**6061-T6 ALUMINUM PLATES**

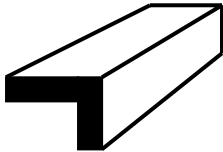
Thickness in Inches	Width and Length	Est. Wt. Lbs. Per Sheet	Thickness in Inches	Width and Length	Est. Wt. Lbs. Per Sheet	Thickness in Inches	Width and Length	Est. Wt. Lbs. Per Sheet
.250 (3.53 LB. PER SQ. FT.)	48 X 144	169	* 1.250 (17.6 LB. PER SQ. FT.)	48 X 144	845	* 3.500 (49.4 LB. PER SQ. FT.)	48 X 144	2371
.313 (4.42 LB. PER SQ. FT.)	48 X 144	212	* 1.500 (21.2 LB. PER SQ. FT.)	48 X 144	1018	* 4.000 (56.4 LB. PER SQ. FT.)	48 X 144	2707
.375 (5.29 LB. PER SQ. FT.)	48 X 144	254	* 1.750 (24.7 LB. PER SQ. FT.)	48 X 144	1186	* 4.500 (63.6 LB. PER SQ. FT.)	48 X 144	3053
.500 (7.06 LB. PER SQ. FT.)	48 X 144	339	* 2.000 (28.2 LB. PER SQ. FT.)	48 X 144	1354	* 5.000 (70.6 LB. PER SQ. FT.)	48 X 144	3389
.625 (8.82 LB. PER SQ. FT.)	48 X 144	423	* 2.250 (31.8 LB. PER SQ. FT.)	48 X 144	1526	* 6.000 (84.7 LB. PER SQ. FT.)	48 X 144	4066
.750 (10.6 LB. PER SQ. FT.)	48 X 144	509	* 2.500 (35.3 LB. PER SQ. FT.)	48 X 144	1694	* 7.000 (98.7 LB. PER SQ. FT.)	48 X 144	4738
.875 (12.3 LB. PER SQ. FT.)	48 X 144	590	* 2.750 (38.8 LB. PER SQ. FT.)	48 X 144	1862	* 8.000 (112.8 LB. PER SQ. FT.)	48 X 144	5414
1.00 (14.1 LB. PER SQ. FT.)	48 X 144	677	* 3.000 (42.3 LB. PER SQ. FT.)	48 X 144	2030	* 9.000 (126.9 LB. PER SQ. FT.)	48 X 144	6091

* Special Order



6061-T6 ALUMINUM ROUNDS

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12-Ft. Length	Size in Inches	Per Foot	12-Ft. Length	Size in Inches	Per Foot	12-Ft. Length
1/8	.014	.174	2	3.70	44.4	* 5	23.1	277
3/16	.033	.391	1/8	4.18	50.1	1/4	25.5	306
1/4	.058	.694	1/4	4.68	56.2	1/2	28.0	336
3/8	.131	1.56	3/8	5.22	62.6	3/4	30.6	367
7/16	.177	2.12	1/2	5.78	69.4			
1/2	.231	2.77	5/8	6.37	76.5	* 6	33.3	399
9/16	.293	3.51	3/4	6.98	83.7	1/4	36.1	434
5/8	.361	4.34	7/8	7.65	91.8	1/2	39.1	469
3/4	.520	6.24				3/4	42.1	506
7/8	.708	8.50	3	8.32	99.8			
			1/8	9.03	108	* 7	45.3	544
1	.925	11.1	1/4	9.79	117	1/4	48.7	584
1/8	1.17	14.0	1/2	11.3	136	1/2	52.0	624
1/4	1.45	17.4	3/4	13.1	156	3/4	55.6	667
5/16	1.59	19.1						
3/8	1.75	21.0	4	14.8	178	* 8	59.2	710
1/2	2.08	25.0	1/4	16.7	201			
5/8	2.44	29.3	1/2	18.7	225	* 9	75.0	900
3/4	2.83	34.0	3/4	20.8	251			
7/8	3.25	39.1				* 10	92.5	1110



6061-T6 ALUMINUM ANGLES EXTRUDED

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12-Ft. Length	Size in Inches	Per Foot	12-Ft. Length	Size in Inches	Per Foot	12-Ft. Length
3/4 X 3/4 X 1/16	.11	1.26	1-1/2 X 1-1/2 X 1/8	.42	5.04	*2-1/2X2-1/2X1/8	.72	8.64
3/4 X 3/4 X 1/8	.20	2.4	3/16	.62	7.44	3/16	1.07	12.84
1 X 1 X 1/16	.14	1.68	1/4	.81	9.72	1/4	1.40	16.80
1 X 1 X 1/8	.28	3.36	2 X 2 X 1/8	.58	6.96	* 3 X 3 X 3/16	1.28	15.36
3/16	.40	4.80	3/16	.85	10.2	1/4	1.68	20.16
1/4	.51	6.12	1/4	1.11	13.32	3/8	2.47	29.64
1-1/4 X 1-1/4 X 1/8	.34	4.08	3/8	1.61	19.32	1/2	3.32	38.76
3/16	.51	6.12				* 4 X 4 X 1/4	2.28	27.36
1/4	.66	7.92						

Other sizes available upon request.

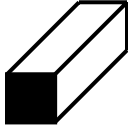
* Special Order



6061-T6 ALUMINUM FLAT BAR

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12-Ft. Length	Size in Inches	Per Foot	12-Ft. Length	Size in Inches	Per Foot	12-Ft. Length
1/8 X 1/2	0.074	0.888	3/8 X 1/2	0.221	2.65	1 X 1-1/4	1.47	17.7
5/8	0.092	1.10	5/8	0.285	3.42	1-1/2	1.77	21.2
3/4	0.110	1.32	3/4	0.331	3.97	1-3/4	2.06	24.7
1	0.147	1.77	1	0.442	5.30	2	2.35	28.2
1-1/4	0.184	2.21	1-1/4	0.552	6.62	2-1/2	2.95	35.3
1-1/2	0.221	2.65	1-1/2	0.662	7.95	3	3.53	42.4
1-3/4	0.258	3.10	2	0.883	10.6	3-1/2	4.12	49.4
2	0.304	3.64	2-1/2	1.10	13.2	4	4.71	56.5
2-1/2	0.368	4.42	3	1.32	15.9	6	7.07	84.8
3	0.441	5.30	4	1.77	21.2			
4	0.587	7.04	6	2.65	31.8	* 1-1/4 X 1-1/2	2.21	26.5
						2	2.95	35.3
3/16 X 1/2	0.110	1.32	1/2 X 5/8	0.379	4.55	2-1/2	3.68	44.2
5/8	0.143	1.71	3/4	0.442	5.30	3	4.42	53.0
3/4	0.166	1.99	1	0.589	7.07	4	5.89	70.7
1	0.221	2.65	1-1/4	0.736	8.83			
1-1/4	0.276	3.31	1-1/2	0.883	10.6	* 1-1/2 X 2	3.53	42.4
1-1/2	0.331	3.97	2	1.18	14.1	2-1/2	4.42	53.0
2	0.442	5.30	2-1/2	1.47	17.7	3	5.30	63.6
2-1/2	0.552	6.62	3	1.77	21.2	4	7.07	84.8
3	0.663	7.95	4	2.35	28.2	6	10.6	128
4	0.883	10.6	6	3.53	42.4			
						* 2 X 2-1/4	5.46	65.6
1/4 X 1/2	0.147	1.77	5/8 X 3/4	0.569	6.83	2-1/2	5.89	70.7
5/8	0.190	2.28	1	0.736	8.83	3	7.07	84.8
3/4	0.221	2.65	1-1/4	0.921	11.0	4	9.43	113
1	0.295	3.53	1-1/2	1.10	13.2	6	14.1	169
1-1/4	0.368	4.42	2	1.47	17.7			
1-1/2	0.442	5.30	3	2.20	26.4	* 2-1/2 X 3	8.83	106
2	0.589	7.07	4	3.00	36.0	4	11.8	141
2-1/2	0.736	8.83	5	3.75	45.0	4-1/2	13.7	164
3	0.883	10.6	6	4.41	52.9	6	18.2	219
3-1/2	1.03	12.3						
4	1.18	14.1	3/4 X 1	0.883	10.6	3 X 4	14.1	169
5	1.47	17.6	1-1/4	1.10	13.2	5	17.6	212
6	1.76	21.1	1-1/2	1.32	15.9	6	21.2	254
			2	1.77	21.2			
5/16 X 1/2	0.184	2.21	2-1/2	2.21	26.5			
3/4	0.276	3.31	3	2.65	31.8			
1	0.147	1.77	3-1/2	3.09	37.2			
1-1/2	0.221	2.65	4	3.53	42.4			
2	0.295	3.53	6	5.30	63.6			

* Special Order



6061-T6 ALUMINUM SQUARES

Size in Inches	<u>Estimated Weight., Lbs</u>	
	Per Foot	12-Ft. Length
1/4	.074	.888
3/8	.166	1.99
1/2	.295	3.53
9/16	.373	4.48
5/8	.459	5.52
3/4	.662	7.95
7/8	.901	10.8
1	1.180	14.1
	1.490	17.9
	1.840	22.1
	2.230	26.8
	2.650	31.8
3/4	3.610	43.3

Size in Inches	<u>Estimated Weight., Lbs</u>	
	Per Foot	12-Ft. Length
2	4.710	56.5
	1/4 5.950	71.4
	1/2 7.360	88.3
3/4	8.900	107
	* 3 10.60	128
	1/4 11.50	138
1/2	14.40	172
	* 4 19.00	228

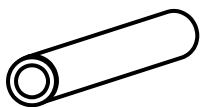


6061-T6 ALUMINUM HEXAGONS

Size in Inches	<u>Estimated Weight., Lbs</u>	
	Per Foot	12-Ft. Length
* 1/2	.255	3.06
* 5/8	.398	4.78
* 3/4	.574	6.88
* 7/8	.781	9.37
* 1	1.020	12.3
	1/8 1.310	15.7
	1/4 1.590	19.1
	3/8 1.930	23.1
	1/2 2.290	27.6
	11/16 2.900	34.8
	3/4 3.120	37.5

Size in Inches	<u>Estimated Weight., Lbs</u>	
	Per Foot	12-Ft. Length
* 2	4.070	48.8
	1/4 5.170	62.0
	7/16 6.060	72.7
	1/2 6.380	76.5

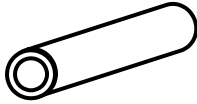
* Special Order



6061-T6 ALUMINUM ROUND DRAWN TUBE

Size Inches		Est. Lbs. Per		Size Inches		Est. Lbs. Per	
O.D.	Wall	Wt. Per Lin. Ft.	Wt. Per Length	O.D.	Wall	Wt. Per Lin. Ft.	Wt. Per Length
* 3/16	.035	.0197	.236	1 1/4	.035	.1571	1.885
	.049	.0251	.301		.049	.2174	2.609
* 1/4	.035	.0278	.334		.058	.2554	3.065
	.049	.0364	.437		.065	.2846	3.415
					.083	.3579	4.295
* 5/16	.035	.0359	.431	* 1 3/8	.049	.2401	2.881
	.049	.0477	.572		.058	.2822	3.386
	.058	.0545	.654		.083	.3962	4.754
* 3/8	.035	.0440	.528	1 1/2	.035	.1894	2.273
	.049	.0590	.708		.049	.2627	3.152
	.058	.0679	.815		.058	.3090	3.708
	.065	.0744	.893		.065	.3446	4.135
* 7/16	.035	.0520	.624		.083	.4345	5.214
	.049	.0703	.844		.125	.6350	7.620
	.065	.0895	1.074		.188	.9113	10.936
* 1/2	.035	.0601	.721	* 1 5/8	.049	.2853	3.424
	.049	.0816	.979		.058	.3358	4.030
	.058	.0947	1.136	1 3/4	.049	.3079	3.695
	.065	.1045	1.254		.058	.3626	4.351
* 5/8	.035	.0763	.916		.065	.4047	4.856
	.049	.1043	1.252	2	.035	.2541	3.049
	.058	.1215	1.458		.049	.3532	4.238
	.065	.1345	1.614		.058	.4161	4.993
3/4	.035	.0925	1.110		.065	.4647	5.576
	.049	.1269	1.523		.083	.5879	7.055
	.058	.1483	1.780		.125	.8659	10.391
	.065	.1645	1.974	* 2 1/4	.049	.3985	4.782
	.083	.2045	2.454		.065	.5247	6.296
7/8	.035	.1086	1.303	* 2 1/2	.035	.3188	3.826
	.049	.1495	1.794		.049	.4437	5.324
	.058	.1751	2.101		.065	.5848	7.018
	.065	.1945	2.334		.083	.7412	8.894
1	.035	.1248	1.498		.125	1.098	13.162
	.049	.1722	2.066	3	.035	.3834	4.601
	.058	.2019	2.423		.049	.5342	6.410
	.065	.2245	2.694		.065	.7048	8.458
	.083	.2812	3.374		.083	.8945	10.734
	.125	.4041	4.849		.125	1.3277	15.932
1 1/8	.035	.1409	1.691	* 3 1/2	.065	.8249	9.899
	.058	.2286	2.743	* 4	.065	.9450	11.340

* Special Order

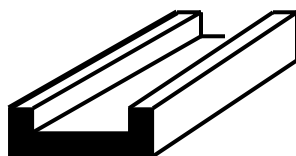
**6061-T6 ALUMINUM PIPE**

Lengths: 12' Approx.

WALL-THICKNESS AND WEIGHTS PER FOOT

Nominal Pipe Size	Outside Diameter Inches	Schedule 10S	Schedule 40 & 40S	* Schedule 80
1 / 8	.405	.049 A .0645	.068 A .0847	.095 A .1008
1 / 4	.540	.065 A .1141	.088 A .1470	.119 A .1851
3 / 8	.675	.065 A .1465	.091 A .1955	.126 A .2556
1 / 2	.840	.083 A .2321	.109 A .2944	.147 A .3764
3 / 4	1.050	.083 A .2966	.113 A .3913	.154 A .5100
1	1.315	.109 A .4857	.133 A .5809	.179 A .7515
1 - 1 / 4	1.660	.109 A .6248	.140 A .7864	.191 A 1.037
1 - 1 / 2	1.900	.109 A .7214	.145 A .9404	.200 A 1.256
2	2.375	.109 A .9127	.154 A 1.264	.218 A 1.737
2 - 1 / 2	2.875	.120 A 1.221	.203 A 2.004	.276 A 2.650
3	3.500	.120 A 1.498	.216 A 2.621	.300 A 3.547
3 - 1 / 2	4.000	.120 A 1.720	.226 A 3.151	.318 A 4.326
4	4.500	.120 A 1.942	.237 A 3.733	.337 A 5.183
5	5.563	.134 A 2.668	.258 A 5.057	.375 A 7.188
6	6.625	.134 A 3.213	.280 A 6.564	.432 A 9.884
8	8.625	.148 A 4.635	.322 A 9.878	.500 A 15.01
10	10.750	.165 A 6.453	.365 A 14.00	.593 A 22.25

* Special Order

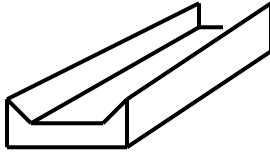


6061-T6 ALUMINUM STRUCTURAL CHANNELS

Aluminum Association
Specific 12 Ft. Length

Depth A	Width B	Size in Inches Web Thickness t	Flange Thickness t ₁	Fillet Radius r	Wt. Per Lin. Ft.	Wt. Per Length
2.00	1.00	.13	.13	.10	.577	14.43
2.00	1.25	.17	.26	.15	1.071	26.78
3.00	1.50	.13	.20	.25	1.135	28.38
3.00	1.75	.17	.26	.25	1.597	39.93
4.00	2.00	.15	.23	.25	1.738	43.45
4.00	2.25	.19	.29	.25	2.331	58.28
5.00	2.25	.15	.26	.30	2.212	55.30
5.00	2.75	.19	.32	.30	3.089	77.23
6.00	2.50	.17	.29	.30	2.834	70.85
6.00	3.25	.21	.35	.30	4.030	100.75
* 7.00	2.75	.17	.29	.30	3.205	80.13
* 7.00	3.50	.21	.38	.30	4.715	117.88
* 8.00	3.00	.19	.35	.30	4.147	103.68
* 8.00	3.75	.25	.41	.35	5.789	144.73
* 9.00	3.25	.23	.35	.35	4.983	124.58
* 9.00	4.00	.29	.44	.35	6.970	174.25
* 10.00	3.50	.25	.41	.35	6.136	153.40
* 10.00	4.25	.31	.50	.40	8.360	209.00
* 12.00	4.00	.29	.47	.40	8.274	206.85
* 12.00	5.00	.35	.62	.45	11.822	295.55

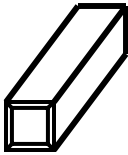
* Special Order



6061-T6 ALUMINUM STRUCTURAL CHANNELS

American Standard
Specific 12 Ft. Length

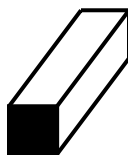
Size in Inches	Wt. Per Lin. Ft.	Wt. Per Length	Size in Inches	Wt. Per Lin. Ft.	Wt. Per Length
3 X 1.410 X .170	1.417	35.43	* 8 X 2.290 X .250	4.252	106.30
3 X 1.498 X .258	1.729	43.23	* 8 X 2.343 X .303	4.751	118.78
3 X 1.596 X .356	2.074	51.85	* 8 X 2.435 X .395	5.617	140.43
			* 8 X 2.527 X .487	6.484	162.10
4 X 1.580 X .180	1.846	46.15			
4 X 1.647 X .247	2.161	54.03	* 9 X 2.430 X .230	4.604	115.10
4 X 1.720 X .320	2.504	62.60	* 9 X 2.648 X .448	6.911	172.78
5 X 1.750 X .190	2.316	57.90	* 10 X 2.600 X .240	5.278	131.95
5 X 1.885 X .325	3.108	77.70	* 10 X 2.739 X .379	6.915	172.88
5 X 2.032 X .472	3.975	99.38	* 10 X 2.886 X .526	8.641	216.03
6 X 1.920 X .200	2.826	70.65	* 12 X 2.960 X .300	7.411	185.28
6 X 1.945 X .225	3.002	75.05	* 12 X 3.047 X .387	8.639	215.98
6 X 2.034 X .314	3.631	90.78	* 12 X 3.170 X .510	10.374	259.35
6 X 2.157 X .437	4.498	112.45			
* 7 X 2.110 X .230	3.541	88.53	* 15 X 3.400 X .400	11.708	292.70
* 7 X 2.194 X .314	4.232	105.80	* 15 X 3.716 X .716	17.282	432.05



ALUMINUM SQUARE TUBE

Size in Inches	Wt. Per Lin. Ft.	Wt. Per Length	Size in Inches	Wt. Per Lin. Ft.	Wt. Per Length
3/4 X .062	.199	4.20	1 1/2 X .125	.800	16.87
3/4 X .125	.364	7.67	1 3/4 X .125	.946	19.94
1 X .062	.271	5.71	2 X .125	1.091	23.00
1 X .125	.509	10.73	3 X .125	1.673	35.27
1 1/4 X .125	.655	13.81	4 X .125	2.255	47.54

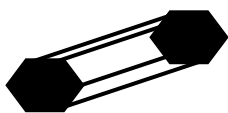
* Special Order



SQUARE FREE-CUTTING BRASS BAR

Alloy 360

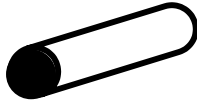
Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12' Bar		Per Foot	12' Bar		Per Foot	12' Bar
1/4	0.230	2.760	1	3.68	44.16	2	14.7	176.4
3/8	0.518	6.216	1 1/4	5.76	69.12			
1/2	0.921	11.052	1 1/2	8.29	99.48			
5/8	1.44	17.280	1 3/4	11.3	135.6			
3/4	2.07	24.84						



HEXAGON FREE-CUTTING BRASS BAR

Alloy 360

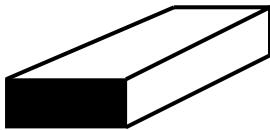
Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs		Size in Inches	Estimated Weight., Lbs	
	Per Foot	12' Bar		Per Foot	12' Bar		Per Foot	12' Bar
1/8	0.0499	0.598	7/16	0.611	7.332	1	3.19	38.280
3/16	0.112	1.344	1/2	0.798	9.576	1 - 1/4	4.99	59.880
1/4	0.199	2.388	5/8	1.25	15.000	1 - 3/8	6.03	72.360
5/16	0.312	3.744	3/4	1.80	21.600	1 - 1/2	7.18	86.160
3/8	0.449	5.388	7/8	2.44	29.280	2	12.8	153.6



ROUND FREE-CUTTING BRASS BAR

Alloy 360 Half Hard
Free Cutting Brass

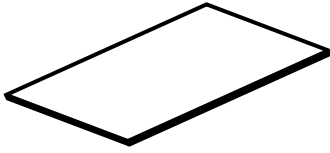
Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar
1/8	0.0452	0.542	13/16	1.91	22.920	2	11.6	139.200
3/16	0.102	1.224	7/8	2.22	26.640	2 - 1/4	14.6	175.200
1/4	0.181	2.172	15/16	2.54	30.480	2 - 1/2	18.1	217.200
5/16	0.283	3.396				3	26.0	312.000
3/8	0.407	4.884	1	2.89	34.680	3 - 1/2	35.4	424.800
7/16	0.554	6.648	1 - 1/8	3.66	43.920	4	46.3	555.600
1/2	0.723	8.676	1 - 1/4	4.52	54.340			
9/16	0.915	10.980	1 - 1/2	6.51	78.120			
5/8	1.13	13.560	1 - 3/4	8.86	106.320			
11/16	1.37	16.440						
3/4	1.63	19.560						



RECTANGULAR FREE-CUTTING BRASS BAR

Alloy 360 Half Hard
Free Cutting Brass

Estimated Weight., Lbs			Estimated Weight., Lbs			Estimated Weight., Lbs		
Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar	Size in Inches	Per Foot	12' Bar
1/8 X 1/2	0.230	2.760	1/4 X 1/2	0.459	5.508	1/2 X 3/4	1.38	16.560
3/4	0.344	4.128	3/4	0.688	8.256	1	1.84	22.080
1	0.459	5.508	1	0.918	11.016	1-1/4	2.30	27.600
1-1/4	0.574	6.888	1-1/4	1.15	13.800	1-1/2	2.76	33.120
1-1/2	0.689	8.268	1-1/2	1.38	16.560	2	3.67	44.040
1-3/4	0.803	9.636	2	1.84	22.080	2-1/2	4.59	55.080
2	0.918	11.016	2-1/2	2.30	27.600	3	5.51	66.120
2-1/2	1.150	13.800	3	2.75	33.000			
3	1.380	16.560	4	3.67	44.040	3/4 X 1	2.76	33.12
3/16 X 1/2	0.344	4.128	3/8 X 1/2	0.688	8.256	1 1/4	3.45	41.38
3/4	0.516	6.192	3/4	1.03	12.360	1 1/2	4.14	49.63
1	0.688	8.256	1	1.38	16.560	2	5.50	66.00
1-1/4	0.860	10.320	1-1/4	1.72	20.640	2 1/2	6.88	82.51
1-1/2	1.030	12.360	1-1/2	2.07	24.840	3	8.26	99.12
2	1.380	16.560	2	2.75	33.000	4	11.07	132.81
2-1/2	1.720	20.640	2-1/2	3.44	41.280			
			3	4.13	49.560			
			4	5.51	66.120			



COLD ROLLED COPPER SHEET

Weight Ounces per Sq. Ft.	Size in Inches	Weight per Sq. Ft. (Lbs.)
16 oz (24 GA)	.0216	36 x 120
		1.250

FRACTIONAL INCHES DECIMAL INCHES MILLIMETERS

FRACTION OF INCH	DECIMAL OF INCH	DECIMAL MILLIMETERS
	1 / 64	.0156
		0.3969
1 / 32	.0313	0.7938
	.0394	1.0000
	3 / 64	.0469
		1.1906
1 / 16	.0625	1.5875
	5 / 64	.0781
		1.9844
	.0787	2.0000
	3 / 32	.0938
		2.3813
	7 / 64	.1094
		2.7781
	.1181	3.0000
1 / 8	.1250	3.1750
	9 / 64	.1406
		3.5719
	5 / 32	.1563
		3.9688
	.1575	4.0000
	11 / 64	.1719
		4.3656
3 / 16	.1875	4.7625
	.1969	5.0000
	13 / 64	.2031
		5.1594
	7 / 32	.2188
		5.5563
	15 / 64	.2344
		5.9531
	.2362	6.0000
1 / 4	.2500	6.3500
	17 / 64	.2656
		6.7469
	.2755	7.0000
	9 / 32	.2813
		7.1438
	19 / 64	.2969
		7.5406
5 / 16	.3125	7.9375
	.3150	8.0000
	21 / 64	.3281
		8.3344
	11 / 32	.3438
		8.7313
	.3543	9.0000
	23 / 64	.3594
		9.1281
3 / 8	.3750	9.5250
	25 / 64	.3906
		9.9219
	.3937	10.0000
	13 / 32	.4063
		10.3188
	27 / 64	.4219
		10.7156
	.4331	11.0000
7 / 16	.4375	11.1125
	29 / 64	.4531
		11.5094
	15 / 32	.4688
		11.9063
	.4724	12.0000
	31 / 64	.4844
		12.3031
1 / 2	.5000	12.7000
	.5118	13.0000

CONVERSION CHART

49

FRACTIONAL INCHES DECIMAL INCHES MILLIMETERS

FRACTION OF INCH	DECIMAL OF INCH	DECIMAL MILLIMETERS
33 / 64	.5156	13.0969
17 / 32	.5313	13.4938
35 / 64	.5469	13.8906
	.5512	14.0000
9 / 16	.5625	14.2875
37 / 64	.5781	14.6844
	.5906	15.0000
19 / 32	.5938	15.0813
39 / 64	.6094	15.4781
5 / 8	.6250	15.8750
	.6299	16.0000
41 / 64	.6406	16.2719
21 / 32	.6563	16.6688
	.6693	17.0000
43 / 64	.6719	17.0656
11 / 16	.6875	17.4625
45 / 64	.7031	17.8594
	.7087	18.0000
23 / 32	.7188	18.2563
47 / 64	.7344	18.6531
	.7480	19.0000
3 / 4	.7500	19.0500
49 / 64	.7656	19.4469
25 / 32	.7813	19.8438
	.7874	20.0000
51 / 64	.7969	20.2406
13 / 16	.8125	20.6375
	.8268	21.0000
53 / 64	.8281	21.0344
27 / 32	.8438	21.4313
55 / 64	.8594	21.8281
	.8661	22.0000
7 / 8	.8750	22.2250
57 / 64	.8906	22.6219
	.9055	23.0000
29 / 32	.9063	23.0188
59 / 64	.9219	23.4156
15 / 16	.9375	23.8125
	.9449	24.0000
61 / 64	.9531	24.2094
31 / 32	.9688	24.6063
	.9843	25.0000
63 / 64	.9844	25.0031
1	1.0000	25.4000

BOBCO METALS

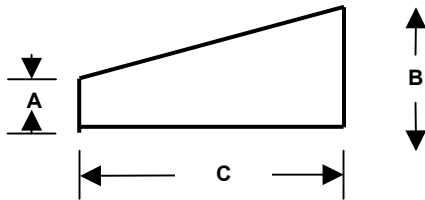
1-800-262-2605

www.bobcometal.com

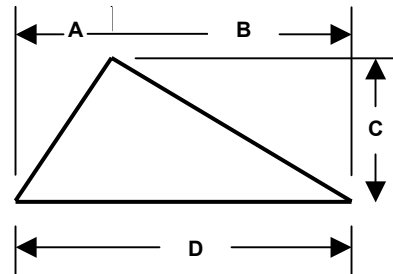
Fax: 213- 748-5824 or email: sales@bobcometal.com

ORDER GUIDE FOR IRREGULAR SHAPES

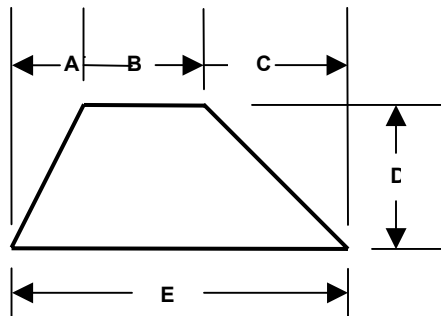
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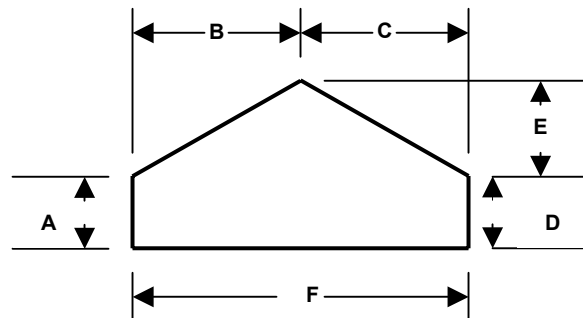
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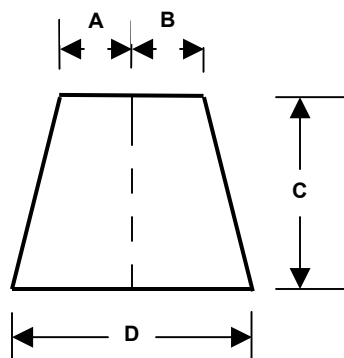
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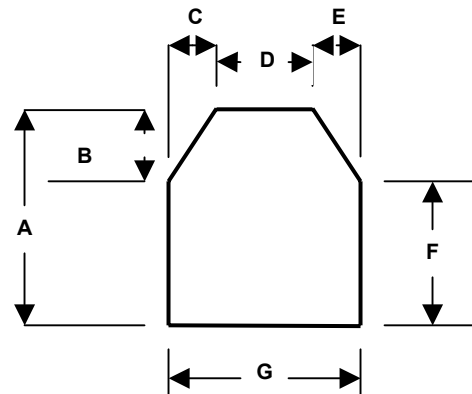
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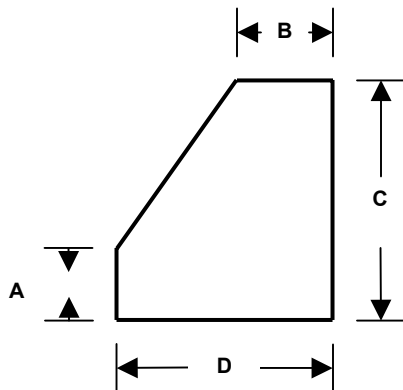


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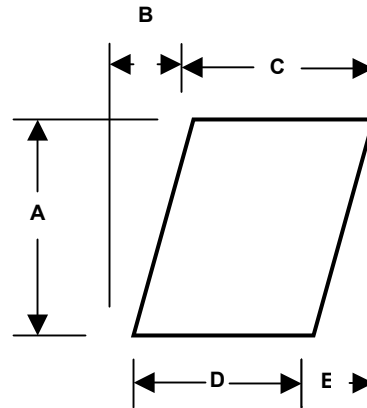


ORDER GUIDE FOR IRREGULAR SHAPES

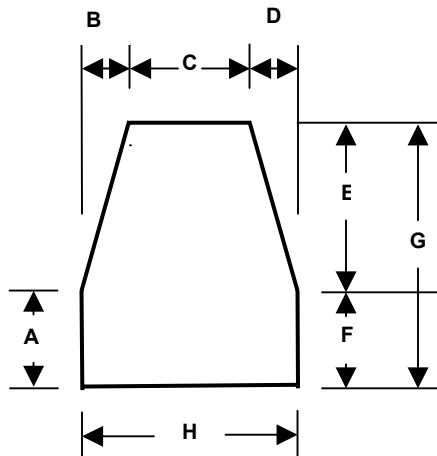
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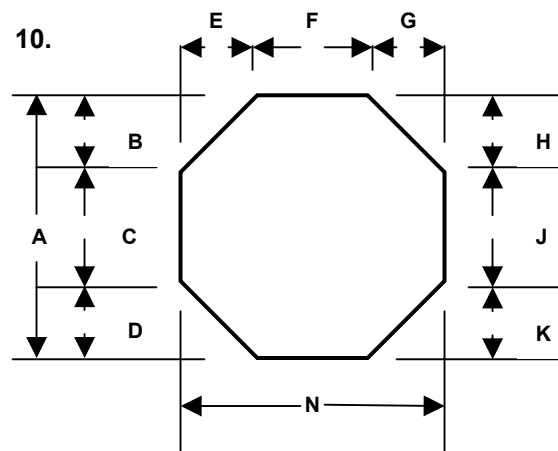
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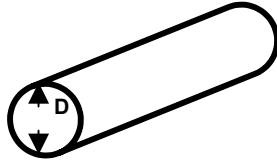
9.



10.



Steel bar weights are based on .2836 lb. Per cubic inch. Aluminum weights are based on .098 lb. Per cubic inch, which applies to 1100 alloy.

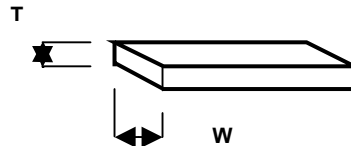
ROUNDS**STEEL:**

Lbs. Per lineal foot = $2.6729 \times D^2$
 Lbs. Per lineal inch = $.22274 \times D^2$

ALUMINUM:

Lbs. Per lineal foot = $.924 \times D^2$

D = Size in Inches

FLATS**STEEL:**

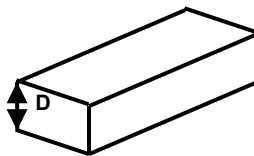
Lbs. Per lineal foot = $3.4032 \times T \times W$
 Lbs. Per lineal inch = $.28364 \times T \times W$

ALUMINUM:

Lbs. Per lineal foot = $1.18 \times T \times W$

T = Thickness in Inches

W = Width in Inches

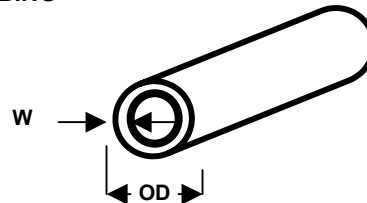
SQUARES**STEEL:**

Lbs. Per lineal foot = $3.4032 \times D^2$
 Lbs. Per lineal inch = $.2836 \times D^2$

ALUMINUM:

Lbs. Per lineal foot = $1.18 \times D^2$

D = Size in Inches

TUBING**STEEL:**

Lbs. Per lineal foot = $10.68 \times (OD - W) \times W$
 Lbs. Per lineal inch = $.89 \times (OD - W) \times W$

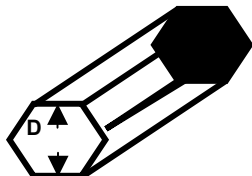
ALUMINUM:

Lbs. Per lineal foot = $3.70 \times (OD - W) \times W$

OD = Outside Diameter to 3 decimal inches

W = Wall thickness to 3 decimal inches

HEXAGONS



STEEL:

Lbs. Per lineal foot = $2.9473 \times D^2$
 Lbs. Per lineal inch = $.2456 \times D^2$

ALUMINUM:

Lbs. Per lineal foot = $1.02 \times D^2$

D = Size in Inches

CIRCLES



STEEL:

Wt. Of Circle in Lbs. = $.22274 \times T \times D^2$

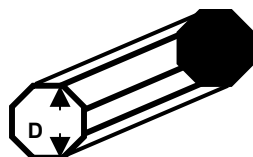
ALUMINUM:

Wt. Of Circle in Lbs. = $.277 \times T \times D^2$

D = Diameter in Inches

T = Thickness in Inches

OCTAGONS



STEEL:

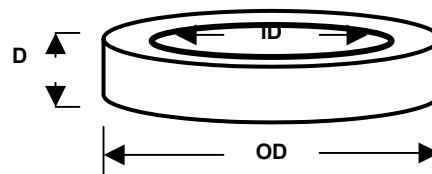
Lbs. Per lineal foot = $2.8193 \times D^2$
 Lbs. Per lineal inch = $.23494 \times D^2$

ALUMINUM:

Lbs. Per lineal foot = $.974 \times D^2$

D = Size in Inches

RINGS



STEEL:

Wt. Of Ring in Lbs. = $.22274 \times T \times (OD^2 - ID^2)$

ALUMINUM:

Wt. Of Ring in Lbs. = $.077 \times T \times (OD^2 - ID^2)$

OD = Outside Diameter in Inches

ID = Inside Diameter in Inches

T = Thickness in Inches

To Obtain Weight of	Density (Weight Lbs. Per Cubic Inch)	Multiply Weight of Steel by	To Obtain Weight of	Density (Weight Lbs. Per Cubic Inch)	Multiply Weight of Steel by
Aluminum	0.098	.3462	Gold	0.698	2.466
1100 Aluminum	0.098	.3462	Tungsten	0.697	2.462
2011 Aluminum	0.102	.3604	Tantalum	0.600	2.120
2014 Aluminum	0.101	.3568	Lead	0.410	1.448
2017 Aluminum	0.101	.3568	Silver	0.379	1.339
2024 Aluminum	0.101	.3568	Molybdenum	0.369	1.303
3003 Aluminum	0.099	.3498	Copper	0.324	1.144
5005 Aluminum	0.098	.3462	Nickel	0.322	1.137
5052 Aluminum	0.097	.3427	Columbium	0.310	1.095
5056 Aluminum	0.095	.3356	Brass	0.307	1.084
5083 Aluminum	0.096	.3392	Monel	0.307	1.084
5086 Aluminum	0.096	.3392	Stainless Steels		
6061 Aluminum	0.098	.3462	300 Series	0.286	1.010
6063 Aluminum	0.097	.3427	400 Series	0.283	1.000
7075 Aluminum	0.101	.3568	Carbon and Alloy		
7178 Aluminum	0.102	.3604	Steels	0.283	1.000
			Tin	0.264	0.932
			Zinc	0.258	0.911
			Cast Iron	0.258	0.911
			Zirconium	0.230	0.812
			Titanium	0.163	0.575
			Beryllium	0.067	0.236
			Magnesium	0.065	0.229

CREDIT APPLICATION

55

BOBCO Salesperson: _____

Company Name: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Phone No: () _____ Fax No: () _____

Type of Business: _____ Resale #: _____

Years in Business: _____

Principals:	Name	Position	Residence
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____

Please provide a list of Major Suppliers you have open credit accommodations with:

Phone	Supplier Name	Street Address	City & State	Zip Code
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Name of Bank: _____ Acct. No: _____

Contact Person: _____ Address: _____

Do you have a Commercial Loan on this Bank _____ Other Banks? _____

Do any of your suppliers or banks have security interest in any of your assets at this time: _____

How much is your total estimated monthly purchases from all sources? _____

How much will be your estimated monthly purchases from BOBCO? _____

BOBCO'S term is NET 30 days, with a late payment charge of 1.5% added to overdue accounts.
Unearned discounts will be charged back.

BOBCO METALS

1-800-262-2605

www.bobcometal.com

Fax: 213- 748-5824 or email: sales@bobcometal.com

Credit Agreement: In consideration for credit which may be granted by any division or subsidiary of BOBCO, and or THOUSAND OAKS S & S DEVELOPMENT CO. (Collectively "BOBCO"). It is specifically agreed that all goods sold by BOBCO to Applicant are sold and purchased pursuant to the terms and conditions set forth on the front and back of BOBCO'S printed invoices. In an event of a conflict between the terms and conditions on the invoices and those in this Agreement, the provisions of this Agreement shall be controlling. It is specifically agreed that any past due balance shall be paid by applicant or by Guarantee(s) at BOBCO'S office in Los Angeles, California.

Personal Guaranty: I/We sign this Credit Application and Credit Agreement on behalf of Applicant, and, as an Individual(s), jointly and severally, personally guaranty payment of all present and future indebtedness of Applicant to BOBCO to proceed against Applicant. I/We also agree that our personal liability hereunder shall not be deemed to be released or discharged by any extension of time; by any other modification, substitution, settlement or compromised granted to Applicant; by any change in the legal form or ownership of Applicant; or by any change whatsoever in the business relationship between BOBCO and Applicant including but not limited to any change in credit terms, amount of credit, or amount of interest charged on past due accounts; or by the transfer of new or additional security by applicant or the undersigned to BOBCO. Liability under this Guaranty shall not be released or terminated by BOBCO'S failure to exercise diligence in enforcing its rights against Applicant. This is an absolute and continuing Guaranty.

Certification and Notices: I/We certify that everything stated on this application, and/ or attachment is true to the best of my/our knowledge. All goods invoiced to Applicant by BOBCO shall be sold in reliance upon the information contained therein, or attached to this document. Notice of any change would limit or terminate Applicant's or Guarantor's liability to BOBCO in writing by certified, return receipt requested mail, addressed to:

**Bobco Metals Company
2000 S. Alameda St.
Los Angeles, CA 90058**

Applicant specifically authorized any of its suppliers and/or banks to disclose to BOBCO any credit information regarding Applicant as may be requested by BOBCO.

Past Due Accounts: Any action to collect past due balances or to enforce the Personal Guaranty, must be filed in the Los Angeles Court, the Los Angeles Superior Court of the Federal District Court in Los Angeles. In the event of a default in payment of the Applicants account with BOBCO, BOBCO shall be entitled to all costs incurred. Costs shall include but not limited to: (1) Attorney's fee in the amount of 25% of the unpaid principal balance as of the date of default; (2) Interest at the maximum rate allowed by law on a commercial loan. If, for any reason, the provision regarding attorneys fee is deemed unenforceable, then, costs shall include reasonable attorney's fee.

Name

Name

Date

Signature

Date

Signature

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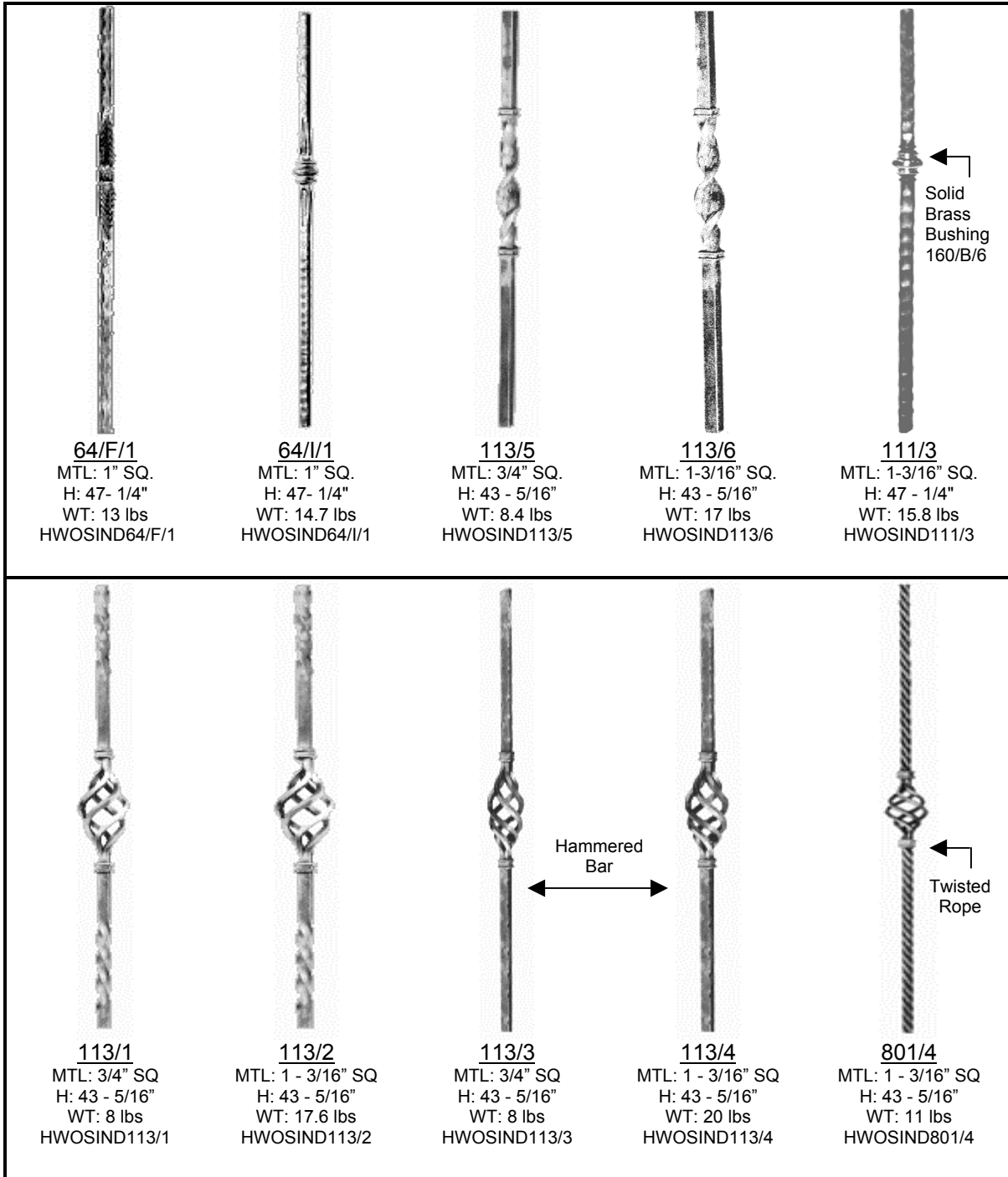
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Designed: Karl Corrales

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Designed: Karl Corrales

NEWELL POSTS



NEWELL POSTS



NP/28
MTL: 1-3/16" SQ.
H: 47- 1/2"
HWOSINDNP/28



NP/21
MTL: 1" SQ.
H: 47- 1/2"
HWOSINDNP/21



112/9
MTL: 1-3/16" SQ.
H: 47 - 1/4"
WT: 14.1 lbs
HWOSIND112/9



112/3
MTL: 1" SQ.
H: 47 - 1/4"
WT: 14 lbs
HWOSIND112/3



113/7
MTL: 3/4" SQ.
H: 42"
WT: 13 lbs
HWOSIND113/7



113/8
MTL: 1 3/16" SQ
H: 43 - 5/16"
WT: 15 lbs
HWOSIND113/8



FG-NP/13J
MTL: 3/4" SQ
H: 37 - 38"
HWOSINDFGNP/13J



FG-NP/16J
MTL: 3/4" SQ
H: 37 - 38"
HWOSINDFGNP/16J



112/5
MTL: 1" SQ
H: 47 - 1/4"
WT: 12.5 lbs
HWOSIND112/5



112/7
MTL: 1" SQ
H: 47 - 1/4"
WT: 14.5 lbs
HWOSIND112/7

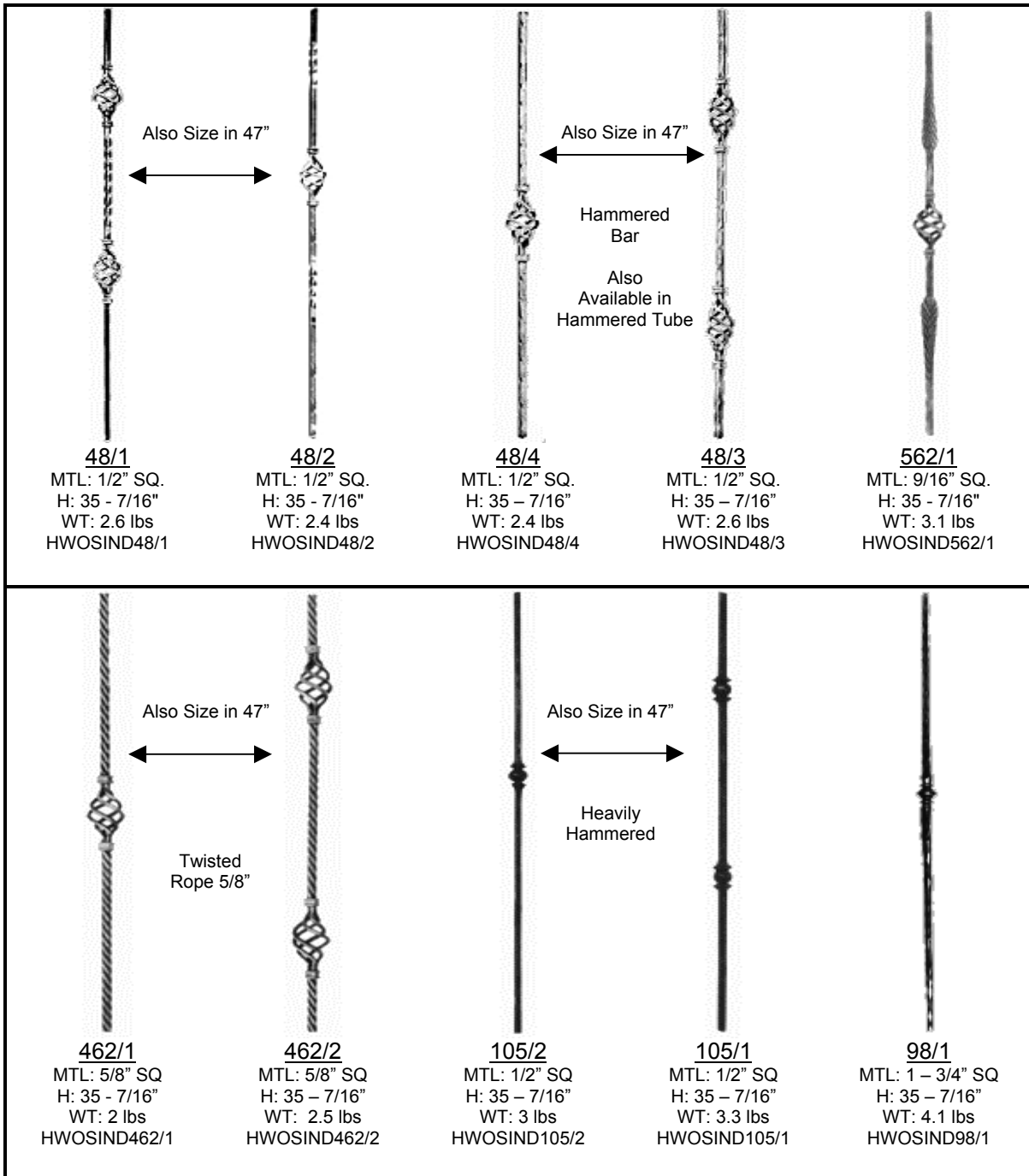
Fully Hand- Forged



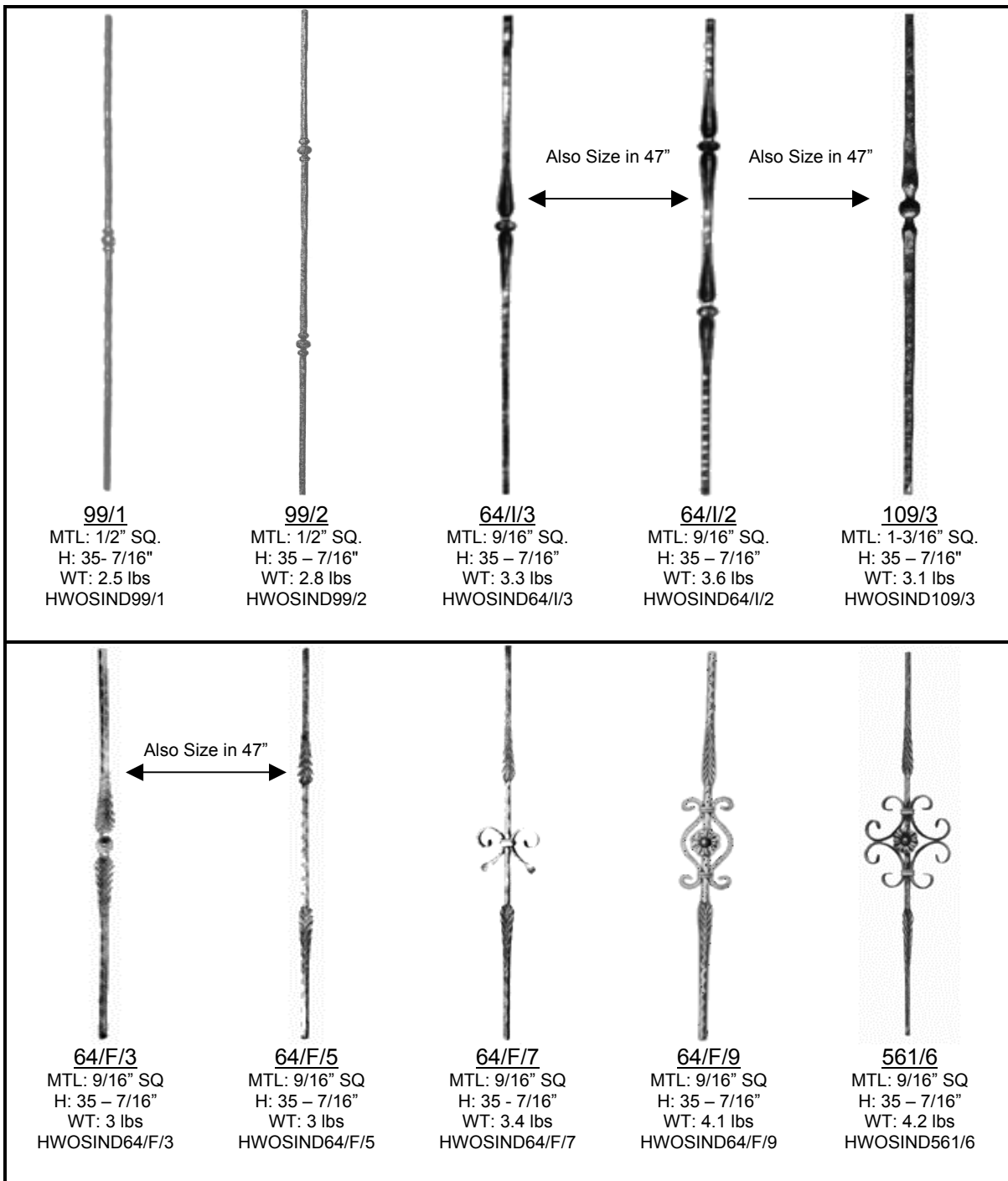
NEWELL POSTS

 <u>FG-NP/29</u> MTL: 1" SQ. H: 47- 1/2" HWOSINDFGNP/29	 <u>FG-NP/4</u> MTL: 1" SQ. H: 47- 1/4" HWOSINDFGNP/4	 <u>FG-NP/32</u> MTL: 1" SQ. H: 47 - 15/4" HWOSINDFGNP/32	 <u>801/5</u> MTL: 1" SQ. H: 47 - 1/4" WT: 12 lbs HWOSIND801/5	 <u>797/2</u> MTL: 1-3/16" SQ. H: 47" WT: 11.5 lbs HWOSIND797/2
 <u>145/3</u> MTL: 1- 9/16" SQ H: 39 - 3/8" WT: 5.5 lbs HWOSIND145/3 Steel Tube with Solid Brass Tubing	 <u>807/1</u> MTL: 1 - 3/16" SQ H: 47 - 1/4" WT: 16 lbs HWOSIND807/1 Round with Wooden Bushing	 <u>806/6</u> MTL: 1 - 9/16" SQ H: 47 - 1/4" WT: 4.5 lbs HWOSIND806/6 Round with Wooden Bushing	 <u>FG-NP/SC-114</u> MTL: 1 - 1/4" SQ H: 47" HWOSINDFGNPSC114 Cast Iron Collar # 251 - 1-1/4" Available: 1-1/2" & 2" Newell Post & 1/2", 5/8", 3/4", 1" Balusters In Solid Bar or Tubing	

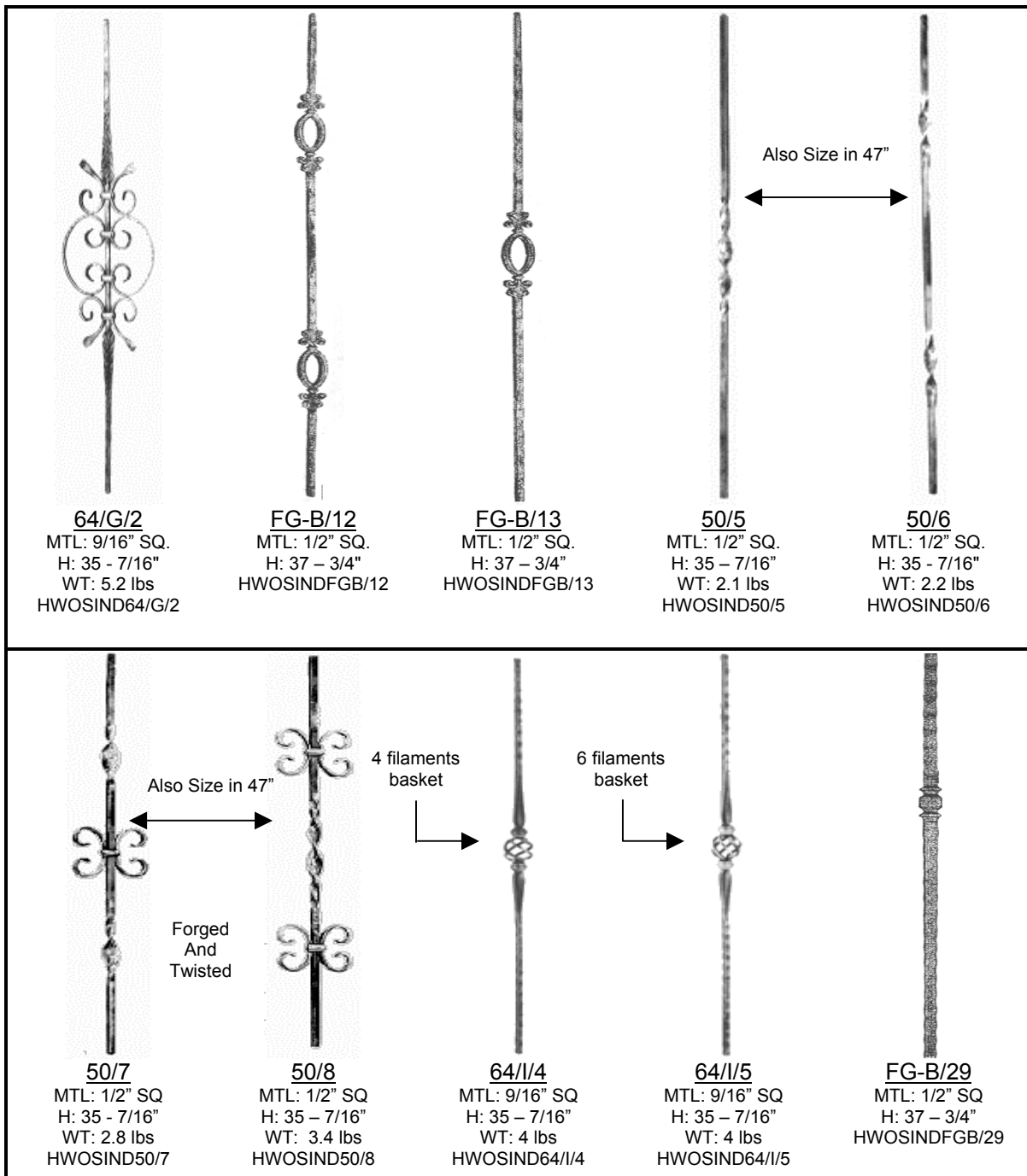
STEEL BALUSTERS



STEEL BALUSTERS



STEEL BALUSTERS



STEEL BALUSTERS



FG-B/007
MTL: 1/2" SQ.
H: 35- 3/4"
HWOSINDFGB/007



FG-B/007D
MTL: 1/2" SQ.
H: 35 - 3/4"
HWOSINDFGB/007D



FG-B/07
MTL: 1/2" SQ.
H: 37 - 3/4"
WT: 3 lbs
HWOSINDFGB/07



FG-B/08
MTL: 1/2" SQ.
H: 37 - 3/4"
WT: 3 lbs
HWOSINDFGB/08



FG-B/04
MTL: 1/2" SQ.
H: 37 - 3/4"
WT:
HWOSINDFGB/04



505/3
MTL: 9/16" SQ
H: 35 - 7/16"
WT: 3.5 lbs
HWOSIND505/3



505/4
MTL: 9/16" SQ
H: 35 - 7/16"
WT: 4.2 lbs
HWOSIND505/4



108/A/1
MTL: 1/2" SQ
H: 35 - 7/16"
WT: 3.7 lbs
HWOSIND108/A/1



108/A/2
MTL: 1/2" SQ
H: 35 - 7/16"
WT: 3.5 lbs
HWOSIND108/A/2



101/2
MTL: 3/4" SQ
H: 35 - 7/16"
WT: 4 lbs
HWOSIND101/2

Heavily
Hammered

TWISTED & STRAIGHT BAR BALUSTERS

<u>FG-65/8</u> H: 35 - 7/16" WT: 2.5 lbs HWOSINDFG65/8	 10" →	<u>FG-53/3</u> H: 35 - 7/16" WT: 2.5 lbs HWOSINDFG53/3	 7" →	Custom Lengths Available
<u>FG-65/840</u> H: 40" WT: 2.5 lbs HWOSINDFG65/840		<u>FG-53/340</u> H: 40" WT: 2.5 lbs HWOSINDFG53/340		Also in 5/8" & 3/4" Solid Square Bars
<u>FG-65/842</u> H: 42" WT: 2.6 lbs HWOSINDFG65/842		<u>FG-53/342</u> H: 42" WT: 2.6 lbs HWOSINDFG53/342		
<u>FG-65/847</u> H: 47" WT: 2.8 lbs HWOSINDFG65/847		<u>FG-53/347</u> H: 47" WT: 2.8 lbs HWOSINDFG53/347		
	1/2" SOLID MATERIAL		1/2" SOLID MATERIAL	
	SINGLE TWIST		DOUBLE TWIST	

<u>FG-65/C8</u> H: 35 - 7/16" HWOSINDFG65/C8	 10" →	<u>FG-53/C3</u> H: 35 - 7/16" HWOSINDFG53/C3	 7" →	
<u>FG-65/C840</u> H: 40" HWOSINDFG65/C840		<u>FG-53/C340</u> H: 40" HWOSINDFG53/C340		
<u>FG-65/C842</u> H: 42" HWOSINDFG65/C842		<u>FG-53/C342</u> H: 42" HWOSINDFG53/C342		
<u>FG-65/C847</u> H: 47" HWOSINDFG65/C847		<u>FG-53/C347</u> H: 47" HWOSINDFG53/C347		
	1/2" SOLID MATERIAL		1/2" SOLID MATERIAL	
	SINGLE TWIST W/ COLLAR BAND		DOUBLE TWIST W/ COLLAR BAND	

TWISTED & STRAIGHT BAR BALUSTERS

Custom Lengths

35 1/2", 40", 42",
47", and 20'

TWISTED BAR BALUSTERS

These fully twisted balusters are available in 3/8" to 3/4" sq bar material and come stocked in sizes 35-1/2" to 47". Both ends are straight (3"). These economical twisted balusters can be used in combination with other twisted designs.



Baluster Lengths – 5 Twists



10" →



7" →



597/3
MTL: 9/16" SQ.
H: 35-7/16"
WT: 3 lbs
HWOSIND597/3

FG-118/H/2
H: 35-7/16"
HWOSINDFG118/H2
SINGLE TWIST

70/D/1
MTL: 9/16" SQ.
H: 35-7/16"
WT: 2.3 lbs
HWOSIND70/D/1

FG-118/H/1
H: 35-7/16"
HWOSINDFG118/H/1
DOUBLE TWIST

134/G/3
MTL: 1/2" SQ.
H: 35-7/16"
WT: 2.2 lbs
HWOSIND134/G/3

HAMMERED & LONG BARS



HAMMERED ROUND BAR

TREE BARK EFFECT

<u>MATERIAL</u>	<u>STOCK LENGTH</u>	<u>WEIGHT</u>	<u>ITEM NO.</u>
599/1 5/16"	10'	2.5 lbs	HWOSIND599/1
599/2 3/8"	10'	3.5 lbs	HWOSIND599/2
588/3 1/2"	10'	7 lbs	HWOSIND599/3
599/5 5/8"	10'	11 lbs	HWOSIND599/5
599/6 23/32"	10'	13.5 lbs	HWOSIND599/6
599/7 3/4"	10'	13.5 lbs	HWOSIND599/7
599/8 7/8"	10'	21 lbs	HWOSIND599/8



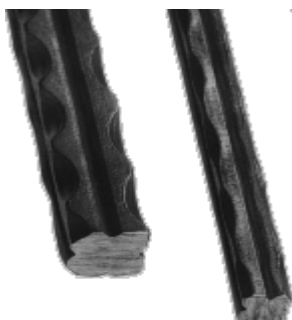
HAMMERED ALL 4 SIDES

<u>MATERIAL</u>	<u>STOCK LENGTH</u>	<u>WEIGHT</u>	<u>ITEM NO.</u>
118/A/1 1/2" sq.	10'		HWOSIND118/A/1
118/A/3 5/8" sq.	10'		HWOSIND118/A/3
118/A/5 3/4" sq.	10'		HWOSIND118/A/5

HAMMERED & LONG BARS

GROOVED LONG BARS

<u>MATERIAL</u>	<u>STOCK LENGTH</u>	<u>WEIGHT</u>	<u>ITEM NO.</u>
625/3 1/2" sq.	20'	17 lbs	HWOSIND625/3
625/5 5/8" sq.	20'	27 lbs	HWOSIND625/5
625/7 3/4" sq.	20'	38 lbs	HWOSIND625/7


**GROOVED AND HAMMERED
LONG BARS**

<u>MATERIAL</u>	<u>STOCK LENGTH</u>	<u>WEIGHT</u>	<u>ITEM NO.</u>
625/8 1/2" sq.	20'	17 lbs	HWOSIND625/8
625/9 5/8" sq.	20'	27 lbs	HWOSIND625/9
625/10 3/4" sq.	20'	38 lbs	HWOSIND625/10


HAMMERED BARS

598/9

<u>MATERIAL</u>	<u>STOCK LENGTH</u>	<u>WEIGHT</u>	<u>ITEM NO.</u>
5/16" sq.	10'	10.5 lbs	HWOSIND598/9

HAMMERED & LONG BARS



HAMMERED BAR

COLD FORGED BARS WITH HAMMERED
EDGES ON 4 SIDES

AVAILABLE IN 10 FT. LENGTHS

<u>MATERIAL</u>	<u>STOCK LENGTH</u>	<u>WEIGHT</u>	<u>ITEM NO.</u>
118/1 1/2" sq.	20'	17 lbs	HWOSIND118/1
118/3 5/8" sq.	20'	30 lbs	HWOSIND118/3
118/5 3/4" sq.	20'	38 lbs	HWOSIND118/5
118/6 1" sq.	20'	68 lbs	HWOSIND118/6



HAMMERED TUBING

COLD FORGED TUBES WITH HAMMERED
EDGES ON 4 SIDES

Also Available in 10 ft. lengths

<u>MATERIAL</u>	<u>STOCK LENGTH</u>	<u>WEIGHT</u>	<u>ITEM NO.</u>
118/E/1 3/4" sq.	20'	20 lbs	HWOSIND118/E/1
118/E/9 1" sq.	20'	22 lbs	HWOSIND118/E/9
118/E/3 1-1/4" sq.	20'	31 lbs	HWOSIND118/E/3
118/E/6 2" X 1-3/16" rectangular	20'	42 lbs	HWOSIND118/E/6

Special Orders for 14 and 16 gauge

HAMMERED & LONG BARS

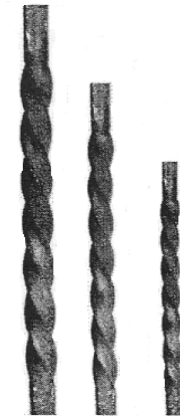
TWISTED SOLID BAR

11-801
MAT: 3/8" sq.
HWOSIND11-801

11-825
MAT: 1/2" sq.
HWOSIND11-825

11-817
MAT: 5/8" sq.
HWOSIND11-817

11-830T
MAT: 3/4"
HWOSIND11-830T



11-821T
MAT: 1"
HWOSIND11-821T

Available in 10 & 20 lengths

TWISTED TUBING

11-101
MAT: 1/2" sq.
HWOSIND11-101

11-111
MAT: 5/8" sq.
HWOSIND11-111

11-121
MAT: 3/4" sq.
HWOSIND11-121

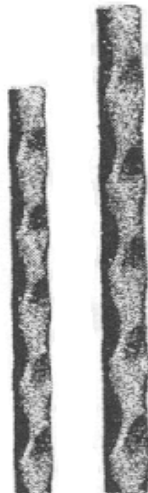


Available in 10 & 20 lengths
and
16 or 14 gauge

WAVEY HAMMERED ROUND BAR

FG-HRB-W12
MAT: 1/2" RD"
HWOSINDFGHRBW12

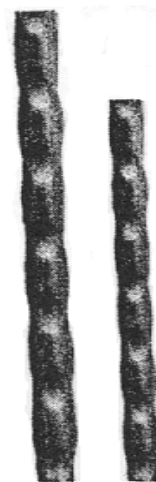
FG-HRB-W58
MAT: 5/8" RD
HWOSINDFGHRBW58



HAMMERED ROUND TUBE

FG-HRT-12
MAT: 1/2" RD
HWOSINDFGHRT12

FG-HRT-58
MAT: 5/8" RD
HWOSINDFGHRT58



Available in 10 ft lengths

HAMMERED & LONG BARS

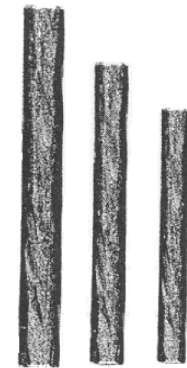
NEW AMERICAN
HAMMERED
ROUND BAR

FG-HRB-38
MAT: 3/8" RD.
HWOSINDFGHRB38

FG-HRB-12
MAT: 1/2" RD.
HWOSINDFGHRB12

FG-HRB-58
MAT: 5/8" RD.
HWOSINDFGHRB58

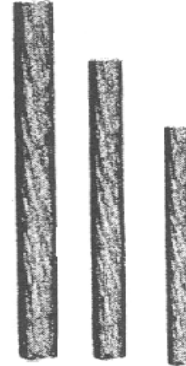
FG-HRB-34
MAT: 3/4" RD.
HWOSINDFGHRB34



FG-HRB-1
MAT: 1" RD.
HWOSINDFGHRB1

NEW BARK
EFFECT
ROUND BAR

Available in 10 ft. lengths



FG-NB38
MAT: 3/8" RD.
HWOSINDFGNB38

FG-NB12
MAT: 1/2" RD.
HWOSINDFGNB12

FG-NB58
MAT: 5/8" RD.
HWOSINDFGNB58

FG-NB1
MAT: 1" RD.
HWOSINDFGNB1

FG-NB34
MAT: 3/4" RD.
HWOSINDFGNB34

TWISTED
ROPE

119/1
MAT: 5/8" dia.
WT: 7 lbs
HWOSIND119/1

119/2
MAT: 3/4" dia.
WT: 12 lbs
HWOSIND119/2

119/3
MAT: 1-3/16" dia.
WT: 25 lbs
HWOSIND119/3



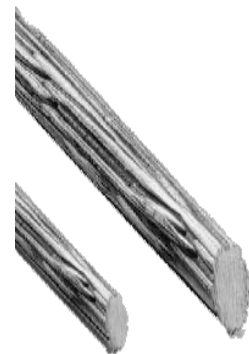
Available in 10 ft. lengths

VINEYARD
BARS

598/11
MAT: 5/16"
WT: 2.5 lbs
HWOSIND598/11

598/13
MAT: 1/2"
WT: 7 lbs
HWOSIND598/13

598/16
MAT: 3/4" RD
WT: 13 lbs
HWOSIND598/16



Available in 10 ft.
lengths

HOT PIERCED BARS

42/9/US
MTL: 5/8" SQ.
L: 78"
WT: 8.5 lbs
HWOSIND42/9/US

SPACING: 3-7/8"
5/8" SQ. HOLES
(16 mm)
17 holes
(Meet U.S. 4" code)

42/10
MTL: 3/4" SQ.
L: 78"
WT: 11 lbs
HWOSIND42/10

SPACING: 6-5/16"
23/32" SQ. HOLES
(18 mm)
12 holes



42/24
MTL: 3/4" SQ.
L: 78"
WT: 11 lbs
HWOSIND42/24

SPACING: 6-5/16"
23/32" SQ. HOLES
(18 mm)
12 holes
square holes rotated
@ 45 degrees



42/2/US
MTL: 5/8" dia.
L: 78-3/4"
WT: 7 lbs
HWOSIND42/2/US

SPACING: 3-7/8"
5/8" ROUND HOLES
(16 mm)
17 holes
(Meet U.S. 4" code)

42/4
MTL: 3/4" dia.
L: 78-3/4"
WT: 11 lbs
HWOSIND42/4

SPACING: 6-3/4"
5/8" ROUND HOLES
(20 mm)
11 holes



42/31
MTL: 3/4" SQ
L: 78-3/4"
WT: 11 lbs
HWOSIND42/31

Goes with
42/24 & 42/10



HOT PIERCED BARS

HOT PIERCED ROUND BAR
TREE BARK EFFECT

606/1
MTL: 9/16" RD
L: 10"
WT: 5.2 lbs
HWOSIND606/1

606/2
MTL: 5/8" RD
L: 10"
WT: 7 lbs
HWOSIND606/2

606/3
MTL: 11/16" RD
L: 10"
WT: 9.3 lbs
HWOSIND606/3

606/4
MTL: 13/16" RD
L: 10"
WT: 11 lbs
HWOSIND606/4

SPACING: 5-1/2"
HOLES PER BAR: 14

SPACING: 5-5/16"
HOLES PER BAR: 13

SPACING: 6-5/16"
HOLES PER BAR: 12

SPACING: 6-11/16"
HOLES PER BAR: 11

VINEYARD BALUSTERS



604/6
MTL: 1/2"
H: 39-3/8"
WT: 4 lbs
HWOSIND604/6



604/7
MTL: 1/2"
H: 39-3/8"
WT: 3 lbs
HWOSIND604/7



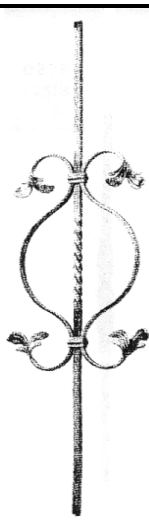
604/8
MTL: 1/2"
H: 39-3/8"
WT: 3 lbs
HWOSIND604/8

Also available in 47"

FORGED SCROLL BALUSTERS



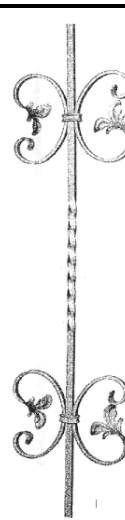
52/A/3
MAT: 1/2" SQ.
H: 35-7/16"
W: 6-11/16"
WT: 3.5 lbs
HWOSIND52/A/3



B/500
MAT: 1/2" SQ.
H: 36"
W: 7-3/32"
HWOSINDB/500



B/501
MAT: 1/2" SQ.
H: 36"
W: 5-1/2"
HWOSINDB/501



B/502
MAT: 1/2" SQ.
H: 36"
W: 5-1/2"
HWOSINDB/502



64/A/3
MAT: 1/2" SQ.
H: 35-7/16"
W: 8-11/16"
WT: 4 lbs
HWOSIND64/A/3



64/A/2
MAT: 1/2" SQ.
H: 35-7/16"
W: 10-1/4"
WT: 5 lbs
HWOSIND64/A/2



52/2
MAT: 1/2" SQ.
H: 35-7/16"
W: 10-1/4"
WT: 5.5 lbs
HWOSIND52/2



49/3
MAT: 1/2" SQ.
H: 36"
W: 7-3/32"
WT: 5.6 lbs
HWOSIND49/3

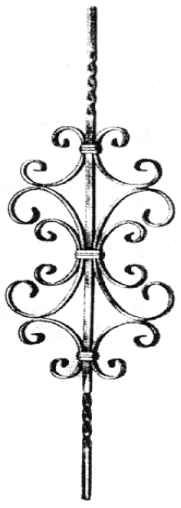
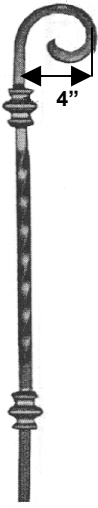
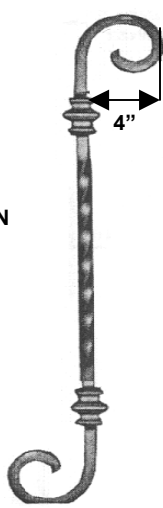
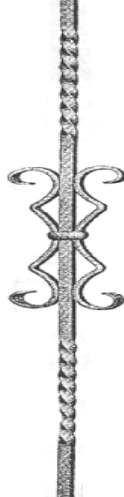


53/1
MAT: 1/2" SQ.
H: 35-7/16"
W: 9-1/4"
WT: 5.1 lbs
HWOSIND53/1



64/B/2
MAT: 1/2" SQ.
H: 35-7/16"
W: 8-11/16"
WT: 4.4 lbs
HWOSIND64/B/2

FORGED SCROLL BALUSTERS

				
<u>B/50</u> MAT: 1/2" SQ. H: 35-7/16" W: 8-11/16" HWOSINDB/50	<u>B/51</u> MAT: 1/2" SQ. H: 35-7/16" W: 8-11/16" HWOSINDB/51	<u>51/3</u> MAT: 1/2" SQ. H: 35-7/16" W: 11-13/16" WT: 4 lbs HWOSIND51/3	<u>9/V1</u> MAT: 1/2" SQ. H: 35-7/16" W: 8" HWOSIND9/V/1	<u>9/V2</u> MAT: 1/2" SQ. H: 35-7/16" W: 8" WT: 4 lbs HWOSIND9/V/2
				
<u>52/A/4S</u> MAT: 1/2" SQ. H: 35-7/16" W: 8" WT: 4 lbs HWOSIND52/A/4S	<u>60/3</u> MAT: 1/2" SQ. H: 35-7/16" W: 4-3/4" WT: 4 lbs HWOSIND60/3	<u>B/48</u> MAT: 1/2" SQ. H: 35-7/16" W: 4-3/4" HWOSINDB/48	<u>B/49</u> MAT: 1/2" SQ. H: 35-7/16" W: 7-3/32" HWOSINDB/49	<u>615/1</u> MAT: 5/16" X 5/8" H: 35-7/16" W: 5-29/32" HWOSIND615/1

VENETIAN
STYLE

FORGED SCROLL BALUSTERS



615/2
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 4-23/32"
HWOSIND615/2



615/3
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 4-15/16"
HWOSIND615/3



615/4
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 2-3/4"
HWOSIND615/4



617/1
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 3-17/32"
HWOSIND617/1



617/2
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 3-17/32"
HWOSIND617/2



617/3
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 4-23/32"
HWOSIND617/3



617/4
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 4-23/32"
HWOSIND617/4



617/5
MAT: 5/16" X 5/8"
H: 35-7/16"
W: 4-23/32"
HWOSIND617/5



617/6
MAT: 5/16" X 5/8"
H: 35-7/16"
W:
HWOSIND617/6



617/7
MAT: 5/16" X 5/8"
H: 35-7/16"
W:
HWOSIND617/7

FORGED ROUND BALUSTERS



576/4
MAT: 9/16"
H: 35-7/16"
WT: 2.5 lbs
HWOSIND576/4



576/2
MAT: 9/16"
H: 35-7/16"
WT: 2.5 lbs
HWOSIND576/2



577/2
MAT: 9/16"
H: 35-7/16"
W: 6-11/16"
WT: 4 lbs
HWOSIND577/2



577/3
MAT: 9/16"
H: 35-7/16"
W: 6-11/16"
WT: 3.6 lbs
HWOSIND577/3



499/1
MAT: 1/2"
H: 35-7/16"
WT: 3 lbs
HWOSIND499/1



497/1
MAT: 1/2"
H: 35-7/16"
WT: 2.2 lbs
HWOSIND497/1



497/2
MAT: 1/2"
H: 35-7/16"
WT: 2.7 lbs
HWOSIND497/2



64/L/4
MAT: 9/16"
H: 35-7/16"
WT: 2.5 lbs
HWOSIND64/L/4

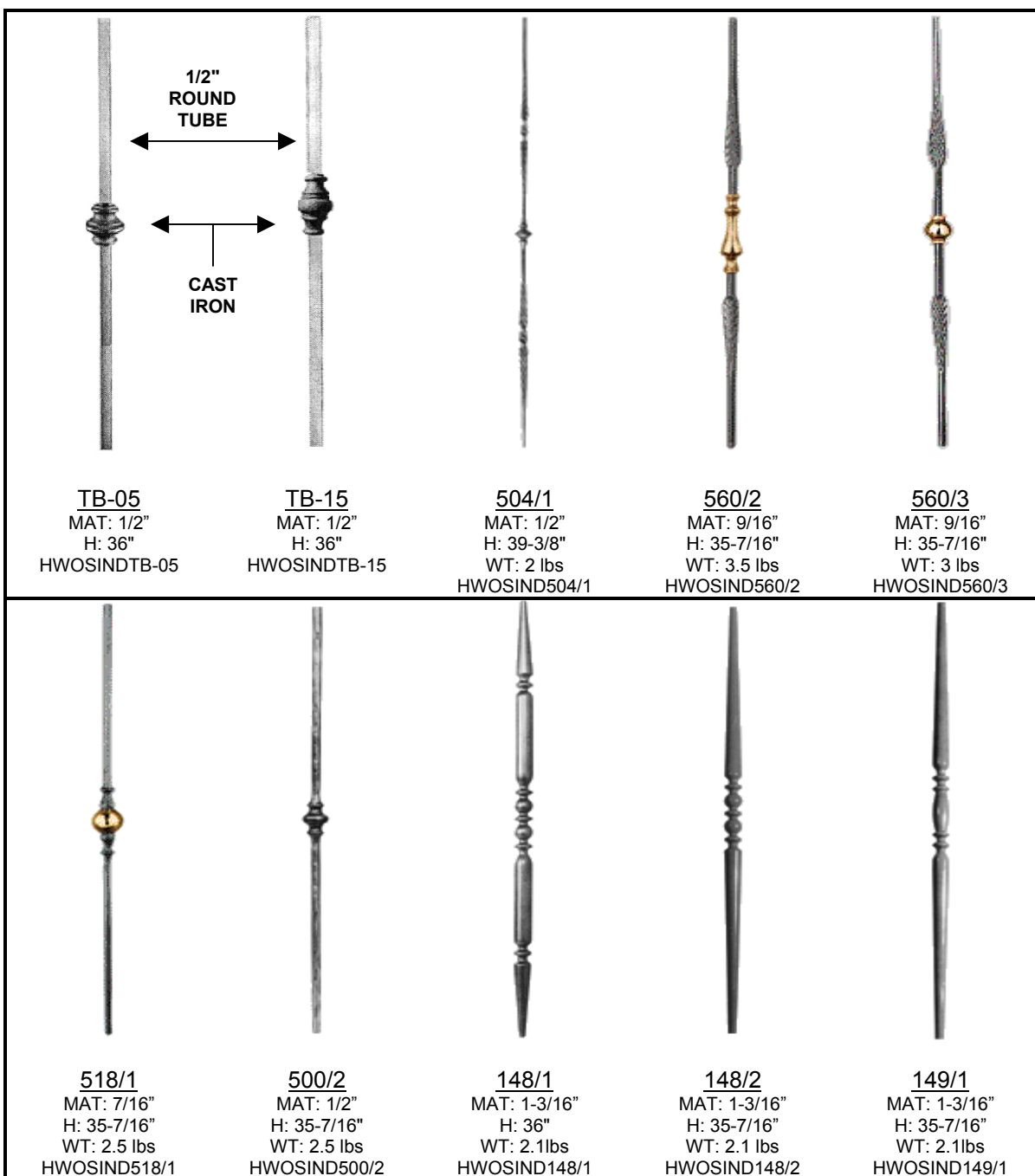


64/L/3
MAT: 9/16"
H: 35-7/16"
WT: 2.5 lbs
HWOSIND64/L/3



105/2R
MAT: 1/2"
H: 36"
HWOSIND105/2R

FORGED ROUND BALUSTERS



FORGED BALCONY BALUSTERS

				
<u>64/H/10</u> MAT: 9/16" SQ. H: 35-7/16" W: 1-3/16" WT: 3.1 lbs HWOSIND64/1H/10 Depth: 5"	<u>64/H/4</u> MAT: 9/16" SQ. H: 35-7/16" W: 1-3/16" WT: 2.9 lbs HWOSIND64/H/4 Depth: 5"	<u>64/H/2</u> MAT: 9/16" SQ. H: 35-7/16" WT: 3 lbs HWOSIND64/H/2 Depth: 5"	<u>64/H/6</u> MAT: 9/16" SQ. H: 35-7/16" W: 5-1/2" WT: 3.5 lbs HWOSIND64/H/6 Depth: 5"	<u>64/H/8</u> MAT: 9/16" SQ. H: 35-7/16" W: 8-7/8" WT: 5.5 lbs HWOSIND64/H/8 Depth: 5"
				
<u>47/10</u> MAT: 9/16" SQ. H: 35 1/2" WT: 3 lbs HWOSIND47/10 Depth: 8-1/2"	<u>47/11</u> MAT: 9/16" SQ. H: 35-1/2" WT: 3.3 lbs HWOSIND47/11 Depth: 8-1/2"	<u>44/12</u> MAT: 1-9/16" X 5/16" H: 39-3/8" WT: 7.7 lbs HWOSIND44/12 Depth: 9-1/4"	<u>578/15</u> MAT: 9/16" DIA. H: 35-7/16" WT: 3 lbs HWOSIND578/15 Depth: 4-3/4"	

FORGED BALCONY BALUSTERS

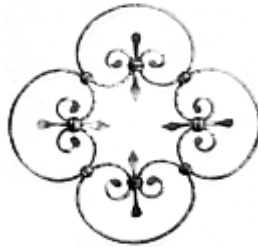
 ALSO AVAILABLE IN 1/2" HAMMERED BAR	 47" LENGTH IS LONGER ON TOP	 ALSO AVAILABLE IN 1/2" & 5/8" TUBING	 47" LENGTH IS LONGER ON ONE END OR EVENLY DISTRIBUTED
<u>70/D/5</u> MAT: 9/16" SQ. H: 35-7/16" WT: 3.4 lbs HWOSIND70/D/5 Depth: 8-1/2"	<u>70/D/5L</u> MAT: 9/16" SQ. H: 47" HWOSIND70/D/5L Depth: 8-1/2"	<u>75/X/1</u> MAT: 1/2" SQ. H: 35-7/16" HWOSIND70/X/1 Depth: 6"	<u>75/X/1L</u> MAT: 1/2" SQ. H: 47" HWOSIND70/X/1L Depth: 6"

STAIR PANELS

			
<u>464/2</u> MAT: 1/2" SQ. H: 35-7/16" W: 9" WT: 6.7 lbs HWOSIND464/2	<u>464/1</u> MAT: 1/2" SQ. H: 35-7/16" W: 9" WT: 7.2 lbs HWOSIND464/1	<u>464/4</u> MAT: 1/2" H: 35-7/16" W: 9" WT: 6.7 lbs HWOSIND464/4	<u>464/3</u> MAT: 1/2" H: 35-7/16" W: 9" WT: 7.2 lbs HWOSIND464/3



23/1
MAT: 3/8" X 3/16"
DIA: 9-13/16"
HWOSIND23/1



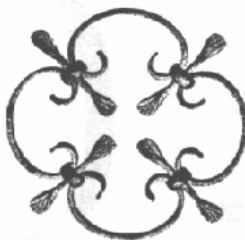
24/2
MAT: 3/8" X 3/16"
DIA: 14-15/16"
HWOSIND24/2



17/1
MAT: 5/16" SQ.
DIA: 9-13/16"
HWOSIND17/1



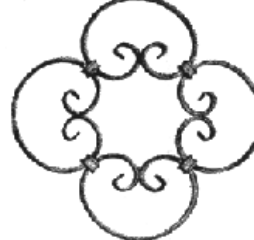
17/2
MAT: 5/16" SQ.
DIA: 9-13/16"
HWOSIND17/2



21/D/1
MAT: 1/2" X 1/4"
DIA: 9-13/16"
HWOSIND21/D/1



450/1
MAT: 1/2" X 1/4"
DIA: 14-15/16"
HWOSIND450/1



24/C/1
MAT: 1/2" X 1/4"
DIA: 14-15/16"
HWOSIND24/C/1



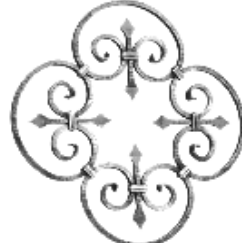
24/B/1
MAT: 1/2" X 1/4"
DIA: 18-1/8"
HWOSIND24/B/1



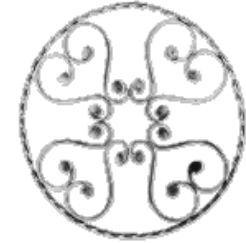
446/4
MAT: 9/16" ROUND
DIA: 22-1/4"
HWOSIND446/4



26/C/1
MAT: 1/2" SQ.
H: 18-7/8"
HWOSIND26/C/1



24/3
MAT: 1/2" SQ.
DIA: 23-5/8"
HWOSIND24/3

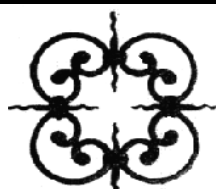


451/1
MAT: 5/16"
DIA: 22-5/8"
HWOSIND451/1



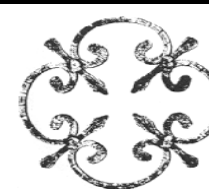
C7-187
H: 6-1/4"
W: 6-1/4"
HWOSINDC7-187

CAST IRON

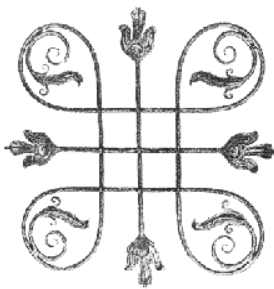


C7-117
H: 11-1/2"
W: 11-1/2"
HWOSINDC7-117

CAST IRON



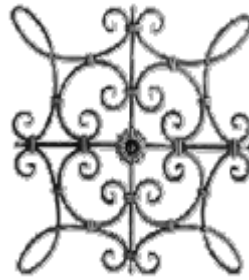
C7-118
MAT: 5/16" SQ.
H: 5"
HWOSINDC7-118



679/3
MAT: 1/2" DIA.
H: 28-3/8"
W: 28-3/8"
WT: 13.5 lbs
HWOSIND679/3



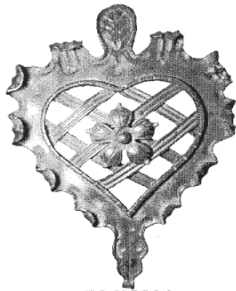
719/2
MAT: 5/8" X 5/16"
H: 27-15/16"
W: 25-3/16"
WT: 16 lbs
HWOSIND719/2



480/1
MAT: 1/2" SQ.
H: 26"
W: 26"
WT: 23 lbs
HWOSIND480/1



679/2
MAT: 1/2" RD.
H: 32-11/16"
W: 32-11/16"
HWOSIND679/2



H/2001
MAT: 1/8"
H: 15-1/2"
W: 11"
HWOSINDH/2001



679/1
MAT: 1/2" RD.
H: 16-1/2"
W: 16-1/2"
HWOSIND679/1



715/1
MAT: 1/2" DIA.
H: 34-5/8"
W: 22-13/16"
WT: 11 lbs
HWOSIND715/1



715/2
MAT: 1/2" DIA.
H: 34-5/8"
W: 22-13/16"
WT: 11 lbs
HWOSIND715/2



479/1
MAT: 1/2" SQ.
H: 35-7/16"
W: 4-5/16"
WT: 3 lbs
HWOSIND479/1

HAMMERED BAR

3-1/16"



103/2
MAT: 9/16" SQ.
H: 33-7/16"
W:
WT: 5 lbs
HWOSIND103/2

6"

HAMMERED BAR



478/1
MAT: 1/2" SQ.
H: 32-1/2"
W: 15"
WT: 10 lbs
HWOSIND478/1



478/3
Blue Glass Inlay
3-13/16" DIA.
WT: .36 lb
HWOSIND478/3



478/2
MAT: 1/2" SQ.
H: 35-7/16"
W: 15"
WT: 12 lbs
HWOSIND478/2



475/1
MAT: 1/2" SQ.
H: 32-1/2"
W: 15"
WT: 10 lbs
HWOSIND475/1



476/1
MAT: 1/2" SQ.
H: 35-7/16"
W: 15"
WT: 12 lbs
HWOSIND476/1



160/H/N
Solid Brass
3-13/16"
WT: 1 lb.
HWOSIND160/H/N

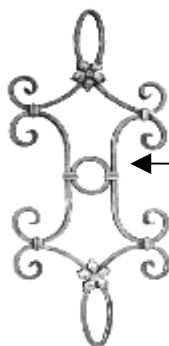


476/2
MAT: 1/2" SQ.
H: 32-1/2"
W: 15"
WT: 12 lbs
HWOSIND476/2



475/2
MAT: 1/2" SQ.
H: 35-7/16"
W: 15"
WT: 12 lbs
HWOSIND475/2

479/2
MAT: 1/2" SQ.
H: 35-7/16"
W: 15-1/8"
WT: 10 lbs
HWOSIND479/2



HAMMERED SOLID BAR RINGS

RH-12/4
OD: 4"
HWOSINDRH-12/4

RH-12/5
OD: 5"
HWOSINDRH-12/5

FORGED STEEL SCROLLS



541/2
MAT: 9/16" DIA.
H: 35-7/16"
W: 14-19/16"
W: 12 lbs
HWOSIND541/2



52/1
MAT: 1/2" X 1/4"
H: 34-1/4"
W: 13-3/4"
W: 5.5 lbs
HWOSIND52/1



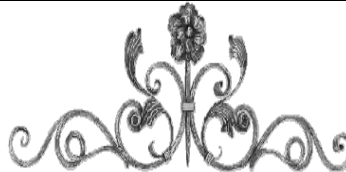
511/1
MAT: 1/2" SQ.
H: 35-7/16"
W: 4-15/16"
W: 5.4 lbs
HWOSIND511/1



696/3
H: 16-15/16"
W: 15-3/4"
HWOSIND696/3



116/D/2
MAT: 1/4" X 3/4"
H: 17-11/16"
W: 50-3/8"
WT: 7.4 lbs
HWOSIND116/D/2



696/1
MAT: 5/8" X 5/16"
H: 11"
W: 36-3/16"
HWOSIND696/1



116/D/1
MAT: 1/4" X 3/4"
H: 17-11/16"
W: 50-3/8"
WT: 7.4 lbs
HWOSIND116/D/1



94/C/11
RIGHT SIDE
MAT: 1/2" DIA.
H: 14-9/16"
W: 13"
WT: 3.5 lbs
HWOSIND94/C/11

94/C/12
LEFT SIDE
HWOSIND94/C/12



94/F/5
RIGHT SIDE
MAT: 1/2" DIA.
H: 38-3/16"
W: 16-9/16"
WT: 6.1 lbs
HWOSIND94/F/5

94/F/6
LEFT SIDE
HWOSIND94/F/6

FORGED STEEL SCROLLS



94/F/4
RIGHT SIDE
MAT: 1/2" DIA.
H: 31-5/16"
W: 19-5/16"
WT: 6 lbs
HWOSIND94/F/4

94/F/3
LEFT SIDE
HWOSIND94/F/3



94/E/5
RIGHT SIDE
MAT: 1/2" DIA.
H: 24-3/8"
W: 16-2/16"
WT: 5 lbs
HWOSIND94/E/5

94/E/6
LEFT SIDE
HWOSIND94/E/6



94/C/5
RIGHT SIDE
MAT: 13/16" DIA.
H: 10-5/8"
W: 7-1/2"
WT: 1 lb
HWOSIND94/C/5

94/C/6
LEFT SIDE
HWOSIND94/C/6



94/C/3
RIGHT SIDE
MAT: 3/8" DIA.
H: 6-11/16"
W: 4-5/16"
WT: .6 lbs
HWOSIND94/C/3

94/C/4
LEFT SIDE
HWOSIND94/C/4



687/3
LEFT SIDE
MAT: 15/32" DIA.
H: 6-11/16"
W: 4-3/4"
HWOSIND687/3

687/6
RIGHT SIDE
HWOSIND687/6



685/5
RIGHT SIDE
MAT: 15/32" DIA.
H: 31-7/8"
W: 14-3/16"
HWOSIND685/5

685/6
LEFT SIDE
HWOSIND685/6



634/8
MAT: 9/16" DIA.
H: 8-7/8"
W: 6-1/2"
WT: 1.6 lbs
HWOSIND634/8

Component of Item: 541/2



92/B/4
MAT: 1/2" X 1/4"
H: 9-7/8"
W: 6-5/16"
WT: 1.5 lbs
HWOSIND92/B/4

Component of Item: 52/1

FORGED STEEL SCROLLS



540/1
MAT: 1/2" DIA.
H: 28-3/8"
W: 9-7/8"
WT: 3.4 lbs
HWOSIND540/1



540/2
MAT: 1/2" DIA.
H: 28-3/8"
W: 9-7/8"
WT: 5 lbs
HWOSIND540/2



88/C/2
MAT: 3/4" X 1/4"
H: 28-3/8"
W: 9-1/4"
WT: 3.3 lbs
HWOSIND88/C/2



62/1
MAT: 3/4" X 1/4"
H: 28-3/8"
W: 9-1/4"
WT: 5.2 lbs
HWOSIND62/1



116/E/6
MAT: 1-3/16" X 5/16"
H: 31-7/8"
W: 11-1/32"
WT: 10 lbs
HWOSIND116/E/6



84/7
MAT: 3/4" X 1/4"
H: 8-7/8"
W: 5-15/16"
WT: 1.6 lbs
HWOSIND84/7



93/1
MAT: 1/2" X 1/4"
H: 17-11/16"
W: 12-5/8"
WT: 1.8 lbs
HWOSIND93/1



93/4
MAT: 1/2" X 1/4"
H: 13-3/4"
W: 9-1/16"
WT: 1.4 lbs
HWOSIND93/4



94/3
MAT: 1/2" X 1/4"
H: 7-7/8"
W: 5-15/16"
WT: .75 lbs
HWOSIND94/3



93/3
MAT: 1/2" X 1/4"
H: 7-7/8"
W: 17-11/16"
WT: 1.7 lbs
HWOSIND93/3



89/4
MAT: 5/16" X 5/16"
H: 2-3/16"
WT: .05 lbs
HWOSIND89/4



89/2
MAT: 5/16" SQ.
H: 5"
W: 4-1/2"
WT: .45 lbs
HWOSIND89/2

FORGED STEEL SCROLLS

				
<u>635/1</u> MAT: 1/2" SQ. H: 17-11/16" W: 4-5/16" WT: 2 lbs HWOSIND635/1	<u>635/2</u> MAT: 1/2" SQ. H: 15-3/8" W: 6-1/8" WT: 2 lbs HWOSIND635/2	<u>635/3</u> MAT: 1/2" SQ. H: 14-9/16" W: 4-5/16" WT: 1.8 lbs HWOSIND635/3	<u>635/4</u> MAT: 1/2" SQ. H: 11-7/16" W: 3-3/4" WT: 1.4 lbs HWOSIND635/4	<u>92/B/3</u> MAT: 15/32" X 1/4" H: 13-3/4" W: 3-5/32" WT: .75 lbs HWOSIND92/B/3
				
<u>73/1</u> MAT: 5/16" SQ. H: 11-13/16" W: 4-5/16" WT: 1 lb HWOSIND73/1	<u>73/2</u> MAT: 5/16" SQ. H: 9-1/16" W: 4-5/16" WT: .6 lbs HWOSIND73/2	<u>73/3</u> MAT: 5/16" SQ. H: 7-1/16" W: 3-9/16" WT: .5 lbs HWOSIND73/3	<u>64/G/3</u> MAT: 1/2" X 1/4" H: 5-15/16" W: 4-1/8" WT: .5 lbs HWOSIND64/G/3	<u>64/G/6</u> MAT: 1/2" X 1/4" H: 9-1/16" W: 1-15/16" WT: .75 lbs HWOSIND64/G/6
	<u>64/G/4</u> MAT: 1/2" X 1/4" H: 4-1/8" W: 2-9/16" WT: .3 lbs HWOSIND64/G/4		<u>64/G/5</u> OPPOSITE HAND HWOSIND64/G/5	<u>80/A/1</u> MAT: 1/2" X 1/4" H: 10-5/8" W: 4-5/16" WT: .75 lbs HWOSIND80/A/1
			Hammered End Matches 80/A/3	

FORGED STEEL SCROLLS



**Hammered
End Matches**
80/A/1



80/A/3
MAT: 1/2" X 1/4"
H: 4-5/16"
W: 2-3/8"
WT: .3 lbs
HWOSIND80/A/3



80/A/9
MAT: 1/2" X 1/4"
H: 4-1/8"
W: 2-3/4"
WT: .4 lbs
HWOSIND80/A/9



80/A/10
MAT: 1/2" X 1/4"
H: 5-1/2"
W: 3-3/4"
WT: .4 lbs
HWOSIND80/A/10



80/A/11
MAT: 1/2" X 1/4"
H: 5-15/16"
W: 2-9/16"
WT: .4 lbs
HWOSIND80/A/11



80/A/12
MAT: 1/2" X 1/4"
H: 7-1/2"
W: 2-3/4"
WT: .5 lbs
HWOSIND80/A/12

ECONOMY SCROLLS & CUSTOM SCROLL WORKS

**SCROLL
MATERIAL**
1/2" X 1/8"

ALSO IN:
3/16" MTL
& WIDTHS:
3/4" & 1"

02/10
S-SCROLL
(1/8) L = 9"
HWOSIND02/10

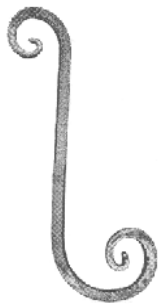
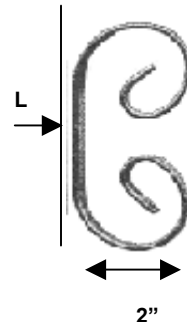
02/18
S-SCROLL
(1/8) L = 12"
HWOSIND02/18

02/20
S-SCROLL
(1/8) L = 16"
HWOSIND02/20



01/995
C-SCROLL
(1/8) L = 4"
HWOSIND01/995

02/00
C-SCROLL
(1/8) L = 76
HWOSIND02/00



S-SCROLL
HWOS-SCROLL



C-SCROLL
HWOSC-SCROLL



CANES
HWOSCANS

MATERIAL:
1/2" X 5/8"
PLAIN OR
HAMMERED
SQUARE &
ROUND BAR

LENGTHS:
1 FT. UP TO 5 FT.

**SCROLL
WIDTHS:**
ON ONE END:
3-3/4" OR 6"

HOLLOW BALLS



04/449
1-1/2"
HWOS04/449

04/450
2"
HWOS04/450

04/452
3"
HWOS04/452

04/454
4"
HWOS04/454

04/456
5"
HWOS04/456

04/458
6"
HWOS04/458

04/460
8"
HWOS04/460

04/461
10"
HWOS04/461

04/462
12"
HWOS04/462

USED WHEN
LIGHTWEIGHT
STEEL IS
REQUIRED
(WALL & CEILING
PRODUCTS).
**BRASS AND
CHROME**
PLATING IS
AVAILABLE IN
VOLUME

HOT STAMPED SPHERES



116/F/1
3/4" DIA.
WT: .08 lbs
HWOS116/F/1

116/F/2
1" DIA.
WT: .16 lbs
HWOS116/F/2

116/F/3
1-3/8" DIA.
WT: .26 lbs
HWOS116/F/3

116/F/4
1-9/16" DIA.
WT: .6 lbs
HWOS116/F/4

116/F/5
1-15/16" DIA.
WT: 1.25 lbs
HWOS116/F/5

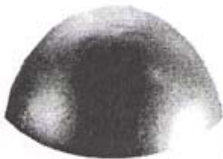
116/F/8
3-1/8" DIA.
WT: 3.3 lbs
HWOS116/F/8

116/F/10
4" DIA.
WT: 8.8 lbs
HWOS116/F/10

116/F/12
1/2" DIA.
HWOS116/F/12

USED WHEN
SOLID STEEL
STRENGTH IS
REQUIRED. HAS
A SMOOTH
FINISH AND
WELDS GREAT.

SOLID STEEL DOMES



118/H/2
HOT STAMPEED
2"
HWOS118/H/2

USED AS BASES FOR
HEAVYWEIGHT ITEMS AND WHEN
FLOOR TRACTION IS NEEDED.

HOT FORGED SPHERES



117/2
3/4" DIA.
WT: .08 lbs
HWOS117/2

117/4
1-3/16" DIA.
WT: .25 lbs
HWOS117/4

117/6
1-9/16" DIA.
WT: .5 lbs
HWOS117/6

117/7
1-15/16" DIA.
WT: 1.1 lbs
HWOS117/7

117/8
2-3/8" DIA.
WT: 2 lbs
HWOS117/8

117/9
2-3/4" DIA.
WT: 3.1 lbs
HWOS117/9

117/10
3" DIA.
HWOS117/10

FORGED
SPHERES HAVE
A "ROUGHER"
TEXTURE THAN
THE HOT-
STAMPED.

USED WHEN A
FORGED
FACETED LOOK
IS DESIRED.
SOLID STEEL.

CAST IRON BALLS



04/480
3/4"
HWOS04/480

04/482
1"
HWOS04/482

04/484
1-1/4"
HWOS04/484

04/486
1-1/2"
HWOS04/486

04/488
2"
HWOS04/488

MOST
ECONOMICAL.
USED FOR
DECORATIVE
PURPOSES
ONLY.

HOLLOW STEEL DOMES



04/470
1-1/2"
HWOS04/470

04/472
2"
HWOS04/472

04/474
3"
HWOS04/474

04/476
4"
HWOS04/476

04/478
6"
HWOS04/478

USED AS BASES
OR AS
PROTRUDING
ORNAMENTS.



116/A/3
MAT: 1/8"
DIA: 3-3/4"
WT: .37 lb
HWOSIND116/A/3



116/A/4
MAT: 1/8"
DIA: 2-9/16"
WT: .15 lb
HWOSIND116/A/4



116/A/5
MAT: 1/8"
DIA: 3-3/4"
WT: .55 lb
HWOSIND116/A/5



F/100
MAT: 14 GA.
DIA: 2-1/16"
HWOSINDF/100



Button Pin

P/381
Length: 1"
Head: 3/4"
DIA: 3/8"
HWOSINDP/381



138/2
MAT: 14 GA.
DIA: 2-3/8"
WT: .09 lb
HWOSIND138/2



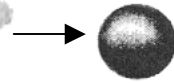
138/3
MAT: 14 GA.
DIA: 3-7/16"
WT: .12 lb
HWOSIND138/3



138/4
MAT: 14 GA.
DIA: 3-1/2"
WT: .11 lb
HWOSIND138/4



665/5
MAT: 14 GA.
DIA: 3-1/8"
WT: .14 lb
HWOSIND665/5



116/F/12
HOT STAMPED
BALL - 1/2"
HWOSIND116F/12



138/15
MAT: 14 GA.
DIA: 2-3/8"
WT: .11 lb
HWOSIND138/15



116/35
MAT: 7/16"
DIA: 2-9/16"
HOLE: 9/16"
HWOSIND116/35



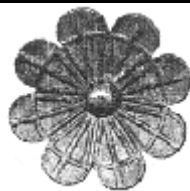
94/B/5
MAT: 3/16"
DIA: 4-1/8"
WT: .42 lb
HWOSIND94/B/5



94/B/6
MAT: 3/16"
DIA: 4-15/16"
WT: .44 lb
HWOSIND94/B/6



665/6
MAT: 14 GA.
DIA: 3-1/8"
WT: .12 lb
HWOSIND665/6



SL-14 (LARGE)
MAT: 1/8"
DIA: 3-3/4"
HWOSINDSL-14

SL-16 (MED.)
MAT: 1/8"
DIA: 2-3/4"
WT: .12 lb
HWOSINDSL-16

SL-20 (SMALL)
MAT: 1/8"
DIA: 2"
HWOSINDSL-20



673/2
W: 3-1/2"
H: 6-11/16"
HWOSIND673/2



140/H/1
W: 5-1/8"
H: 10-5/8"
HWOSIND140/H/1



140/H/2
W: 3-9/16"
H: 6-11/16"
HWOSIND140/H/2

HEAVY STEEL FLORAL ELEMENTS

93



126/3
MAT: 1/8"
DIA: 3-1/8"
WT: .26 lb
HWOSIND126/3



140/H/3
MAT: 3/16"
W: 3-9/16"
H: 4-15/16"
HWOSIND140/H/3



673/3
MAT: 1/4"
H: 5-7/8"
WT: .22 lb
HWOSIND673/3



94/B/3
MAT: 3/16"
W: 4-1/2"
H: 8-11/16"
HWOSIND94/B/3



94/B/4
MAT: 3/16"
W: 3-1/8"
H: 9-13/16"
HWOSIND94/B/4



136/1
MAT: 3/16"
W: 1-9/16"
H: 4-5/16"
HWOSIND136/1



136/2
MAT: 3/16"
W: 1-9/16"
H: 4-5/16"
HWOSIND136/2



136/3
MAT: 3/16"
W: 2-3/4"
H: 2-3/8"
HWOSIND136/3



136/4
MAT: 3/16"
W: 2-3/4"
H: 2-3/8"
HWOSIND136/4



FS/1004
W: 5-1/4"
H: 15-1/2"
HWOSINDFS/1004



SL-23
MAT: 3/16"
W: 2-1/2"
H: 3-1/2"
HWOSINDSL-23



SL-13
MAT: 3/16"
W: 2-1/2"
H: 3-1/2"
HWOSINDSL-13



SL-28
MAT: 3/16"
W: 2-1/2"
H: 3-1/2"
HWOSINDSL-28



SL-27
MAT: 3/16"
W: 2-1/2"
H: 3-1/2"
HWOSINDSL-27



52/H/3
MAT: 1/2" X 1/4"
W: 4-3/4"
H: 11-13/16"
HWOSIND52/H/3



136/10
MAT: 11 GA.
W: 2-3/4"
H: 6-1/4"
WT: .28 lb
HWOSIND136/10



136/11
MAT: 11 GA.
W: 2-3/4"
H: 6-1/4"
WT: .28 lb
HWOSIND136/11

BOBCO METALS

1-800-262-2605

www.bobcometal.com

Fax: 213- 748-5824 or email: sales@bobcometal.com



94/B/9
MAT: 3/16"
W: 3-3/8"
H: 4-3/4"
WT: .29 lb
HWOSIND94/B/9



94/B/10
MAT: 3/16"
W: 3-3/8"
H: 4-3/4"
WT: .29 lb
HWOSIND94/B/10



94/B/11
MAT: 3/16"
W: 5-1/8"
H: 7-1/8"
WT: .55 lb
HWOSIND94/B/11



94/B/12
MAT: 3/16"
W: 5-1/8"
H: 7-1/8"
WT: .55 lb
HWOSIND94/B/12



18/500
MAT: 1/8"
W: 2-1/2"
H: 1-1/2"
HWOSIND18/500



695/1
MAT: 5/32"
W: 3-1/8"
H: 3-1/8"
HWOSIND695/1



695/2
MAT: 5/32"
W: 3-3/8"
H: 3-3/8"
HWOSIND695/2



695/3
MAT: 5/32"
W: 4-5/16"
H: 4-5/16"
HWOSIND695/3



695/4
MAT: 5/32"
W: 2-3/8"
H: 2-3/8"
HWOSIND695/4



695/5
MAT: 5/32"
W: 2-3/8"
H: 2-3/8"
HWOSIND695/5



692/3
MAT: 3/16"
W: 2-3/8"
H: 3-3/4"
HWOSIND692/3



692/4
MAT: 3/16"
W: 3-3/4"
H: 2-3/4"
HWOSIND692/4



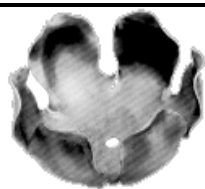
692/8
MAT: 5/32"
W: 5-1/4"
H: 13"
HWOSIND692/8



692/8S
MAT: 5/32"
W: 2-1/4"
H: 7-1/2"
HWOSIND692/8S



692/9
MAT: 5/32"
W: 1-5/16"
H: 7-1/16"
HWOSIND692/9



136/5
DIA: 2-9/16"
H: 1-3/16"
HWOSIND136/5



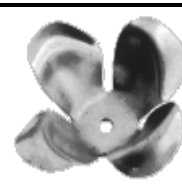
136/6
DIA: 2-3/16"
H: 1-5/16"
HWOSIND136/6



136/7
DIA: 1-1/2"
H: 1-9/16"
HWOSIND136/7



136/8
DIA: 1-5/8"
H: 3/4"
HWOSIND136/8



136/9
DIA: 1-7/8"
H: 5/8"
HWOSIND136/9



140/5
H: 2-3/4"
W: 2-3/4"
HWOSIND140/5



140/6
H: 9-16"
W: 3/4"
HWOSIND140/6



140/7
H: 1/2"
W: 15/16"
HWOSIND140/7



140/8
H: 7/16"
W: 1-9/16"
HWOSIND140/8



138/11
H: 2-3/4"
W: 2-15/16"
HWOSIND138/11



138/12
H: 4-1/8"
W: 3-3/4"
HWOSIND138/12



138/13
H: 7-11/16"
W: 7-1/2"
HWOSIND138/13



702/1
H: 4-5/16"
W: 2-7/16"
HWOSIND702/1



702/2
H: 2-9/16"
W: 2-1/16"
HWOSIND702/2



702/3
H: 7-7/8"
W: 3-1/8"
HWOSIND702/3



139/1
H: 1-1/8"
W: 2-9/16"
HWOSIND139/1



139/2
H: 3-9/16"
W: 1-5/8"
HWOSIND139/2



139/3
H: 3-3/8"
W: 1-3/16"
HWOSIND139/3



139/4
H: 7-7/8"
W: 2-1/2"
HWOSIND139/4



139/5
H: 3-15/16"
W: 1-3/8"
HWOSIND139/5



139/6
H: 2-3/4"
W: 1-1/8"
HWOSIND139/6



140/1
H: 2-3/16"
W: 1"
HWOSIND140/1



140/2
H: 2-7/16"
W: 1-1/8"
HWOSIND140/2



140/3
H: 3-1/8"
W: 1-7/16"
HWOSIND140/3



140/4
H: 3-15/16"
W: 1-3/8"
HWOSIND140/4



138/16
H: 3-5/16"
W: 1-3/16"
HWOSIND138/16



138/7
H: 3-5/16"
W: 1-3/16"
HWOSIND138/7



138/10
H: 3-5/16"
W: 1-3/4"
HWOSIND138/10



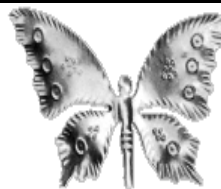
604/11
H: 1-3/4"
W: 1-1/4"
HWOSIND604/11



137/7
H: 5-1/8"
W: 2-9/16"
HWOSIND137/7



137/8
H: 3-9/16"
W: 1-15/16"
HWOSIND137/8



137/9
H: 2-9/16"
W: 4-15/16"
HWOSIND137/9



137/10
H: 4-15/16"
W: 6-7/8"
HWOSIND137/10

FOR SPECIAL ORDERS OF ANY STYLE OF STAMPINGS
CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.



03/960 (6020)

H: 5-1/2"

W: 7"

HWOSIND03/960



03/961 (6021)

H: 5-1/2"

W: 7"

HWOSIND03/961



03/964 (6024)

H: 4-1/4"

W: 5"

HWOSIND03/964

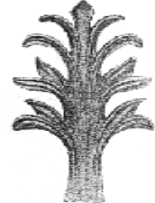


03/965 (6025)

H: 4-1/4"

W: 5"

HWOSIND03/965



03/L6035

H: 9-1/2"

W: 4-3/4"

HWOSIND03/L6035



03/964 (6026)

H: 4-7/8"

W: 3-7/8"

HWOSIND03/964



03/965 (6027)

H: 4-7/8"

W: 3-7/8"

HWOSIND03/965



03/962 (6022)

H: 5-1/2"

W: 4-1/2"

HWOSIND03/962



03/963 (6023)

H: 5-1/2"

W: 4-1/2"

HWOSIND03/963



03/L6038

H: 3-5/8"

W: 3-1/4"

HWOSIND03/L6038



03/968 (6028)

H: 5-7/8"

W: 3-3/8"

HWOSIND03/968



03/969 (6029)

H: 5-7/8"

W: 3-3/8"

HWOSIND03/969



03/974 (6046)

H: 9-1/4"

W: 6"

HWOSIND03/974



03/975 (6047)

H: 9-1/4"

W: 6"

HWOSIND03/975



03/L6033

H: 10-1/2"

W: 3-1/2"

HWOSIND03/L6033



03/976 (6053)

H: 9-1/4"

W: 5-1/4"

HWOSIND03/976



03/977 (6052)

H: 9-1/4"

W: 5-1/4"

HWOSIND03/977



03/972 (6044)
H: 8-1/4"
W: 4-1/4"
HWOSIND03/972



03/973 (6045)
H: 8-1/4"
W: 4-1/4"
HWOSIND03/973



03/970 (6044L)
H: 5-1/2"
W: 4-1/2"
HWOSIND03/970



03/971 (6044R)
H: 5-1/2"
W: 4-1/2"
HWOSIND03/971



03/22 (508)
H: 6-1/2"
W: 4-1/2"
HWOSIND03/22



03/L6051
H: 7"
W: 3-1/4"
HWOSIND03/L6051



03/L6050
H: 7"
W: 3-1/4"
HWOSIND03/L6050



03/910 (501)
H: 6-3/4"
W: 8-3/16"
HWOSIND03/910



03/912 (502)
H: 6-3/4"
W: 8-3/16"
HWOSIND03/912



03/L6059
H: 15"
W: 3-1/2"
HWOSIND03/L6059



03/914 (503)
H: 5"
W: 4-3/4"
HWOSIND03/914



03/916 (504)
H: 5"
W: 4-3/4"
HWOSIND03/916



03/L6061
H: 5"
W: 4-3/4"
HWOSIND03/L6061



03/L6060
H: 5"
W: 4-3/4"
HWOSIND03/L6060



03/L6030
H: 5"
W: 4-3/4"
HWOSIND03/L6030



ACANTHUS LEAF



C50024

H: 6"

W: 6"

HWOSINDC50024

C50025

H: 6"

W: 6"

HWOSINDC50025

03/924 (601)

H: 7"

W: 4-3/4"

HWOSIND03/924

03/934 (602)

H: 5"

W: 3-1/2"

HWOSIND03/934

03/L6031

H: 3-1/2"

W: 3-1/2"

HWOSIND03/L6031



03/906

LEAF L60A03

DIA: 2-1/4"

HWOSIND03/906

03/608

LEAF L160A04

DIA: 3-1/2"

HWOSIND03/608

03/938

L607

DIA: 1"

HWOSIND03/938

03/940

L608

DIA: 1-3/4"

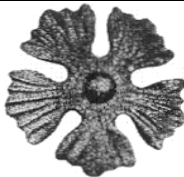
HWOSIND03/940

03/942

L609

DIA: 2-3/4"

HWOSIND03/942



03/918

DIA: 4-3/4"

HWOSIND03/918

03/086/R

DIA: 4-3/4"

HWOS03/086/R

03/CI 085R

DIA: 6-1/2"

HWOS03/CI085R

03/08/3R

DIA: 4-3/4"

HWOS03/08/3R



03/CI 089R

H: 6-3/4"

W: 13-1/2"

HWOS03/CI089R



03/CI 079R

H: 3-3/4"

W: 9-1/4"

HWOS03/CI079R



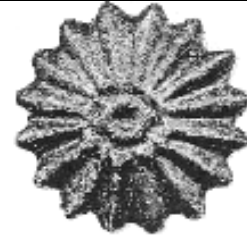
03/900
ROSETTE 075R
DIA: 3-1/2"
HWOS03/900



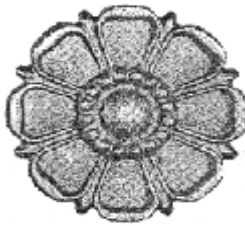
03/902
ROSETTE 080R
DIA: 1-3/4"
HWOS03/902



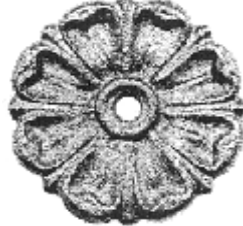
03/904
ROSETTE 084R
DIA: 2"
HWOS03/904



03/936
ROSETTE L605
DIA: 3"
HWOS03/936



03/944
ROSETTE AF094
DIA: 4"
HWOS03/944



03/946
ROSETTE AF095
DIA: 3-1/2"
HWOS03/946



03/948
ROSETTE 249CI
DIA: 3-1/8"
HWOS03/948



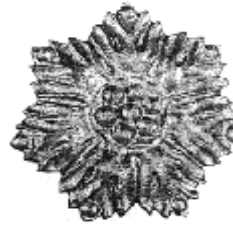
03/950
ROSETTE AF090
DIA: 2-11/16"
HWOS03/950



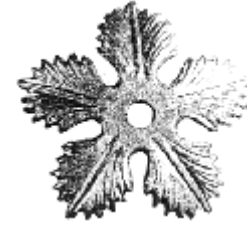
03/952
ROSETTE 246CI
DIA: 2" X 3-3/8"
HWOS03/952



03/956
ROSETTE AF096
DIA: 2"
HWOS03/956



C50007
DIA: 5"
H: 3/4"
HWOSC50007



C50008
DIA: 4-3/4"
H: 1"
HWOSC50008



C50022
DIA: 4-1/2"
H: 3/4"
HWOSC50022



C50049
DIA: 5-3/4"
H: .363"
HWOSC50049



C50050
DIA: 4-1/2"
H: 1-1/4"
HWOSC50050



AL-104S
ALUMINUM
DIA: 2-3/4"
HWOSAL-104S



C50020
SEAHORSE
H: 6"
W: 2-1/2"
HWOSC50020



C50054
EAGLE
H: 9-1/4"
W: 2-3/4"
HWOSC50054



C50071
CRAB
H: 5-1/2"
W: 6"
HWOSC50071



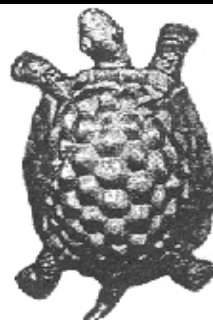
C50053
LIZARD
H: 9-1/2"
W: 4-1/2"
HWOSC50053



C50123
BUTTERFLY
H: 4"
W: 5"
HWOSC50123



C50122
DRAGONFLY
H: 4"
W: 4"
HWOSC50122



C50061
TURTLE
H: 4-1/2"
W: 3-1/2"
HWOSC50061



C50052
FROG
H: 3-1/2"
W: 3-1/2"
HWOSC50052



C5005
LIONS HEAD
H: 5-5/8"
W: 4-3/8"
HWOSC5005



C50009
LIONS SHIELD
H: 9"
W: 5-1/2"
HWOSC50009



C50127
SCALLOP SHELL
H: 3-1/4"
W: 3-3/4"
HWOSC50127



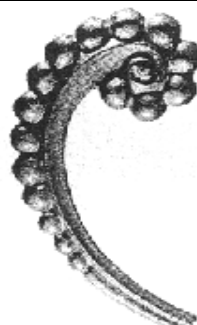
C50075
STARFISH
DIA: 5-1/2"
HWOSC50075



C50027
ACANTHUS SCROLL
H: 9-1/4"
W: 2-3/4"
THICK: 1/2"
HWOSC50027



C50026
ACANTHUS SCROLL
H: 9-1/4"
W: 2-3/4"
THICK: 1/2"
HWOSC50026



C50029
PEARL SCROLL
H: 8"
W: 4"
THICK: 3/8"
HWOSC50029



C50028
PEARL SCROLL
H: 8"
W: 4"
THICK: 3/8"
HWOSC50028



C50129
STRAWBERRIES
H: 4-1/2"
W: 4-1/4"
HWOSC50129



C50002
BERRIES
H: 5-1/4"
W: 3"
HWOSC50002



C50034
FOOT ORNAMENT
H: 4-3/4"
W: 3"
HWOSC50034



C50001
GRAPES
H: 4-1/2"
W: 2-1/4"
HWOSC50001



C50033
GRAPES
H: 4-1/2"
W: 2-1/4"
HWOSC50033



C50023
SHELL CREST
H: 4"
W: 8"
HWOSC50023



C50030
CREST
H: 4"
W: 9"
HWOSC50030



C50031
CREST
H: 4"
W: 5"
HWOSC50031



C50032
CREST
H: 4"
W: 9"
HWOSC50032



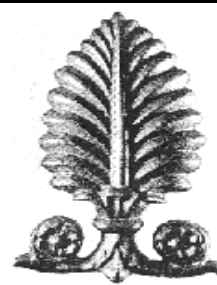
C50059
PALM TREE
H: 6"
W: 4-1/2"
HWOSC50059



C50060
CHERUB
H: 7"
W: 4-1/4"
HWOSC50060



C50063
HOLLOW TASSEL
H: 4-1/2"
W: 2-1/2"
HWOSC50063



C50064
STELLA
H: 5"
W: 3-1/4"
HWOSC50064



C50065
SUNFLOWER
DIA: 6"
HWOSC50065



C50070
BOWL OF FRUIT
H: 8"
W: 7-1/2"
HWOSC50070



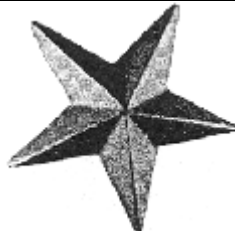
C50072
ROYAL CROWN
H: 5-1/4"
W: 4-1/4"
HWOSC50072



C50073
WINDMAN
H: 7"
W: 5-1/2"
HWOSC50073



C50076
CLASSICAL URN
H: 4-1/2"
W: 4-1/4"
HWOSC50076



C50121
STAR ON 3/4" POST
DIA: 4-5/8"
HWOSC50121



C50124
FLUR-DE-LIS #1
H: 6"
W: 4-1/2"
HWOSC50124



03-9036
FLUR-DE-LIS #2
H: 6"
W: 5"
HWOSC03-9036



C50044
STAR
DIA: 3"
HWOSC50044

C50045
STAR
DIA: 4-1/2"
HWOSC50045

C50046
STAR
DIA: 6-3/4"
HWOSC50046



158/B/1
9 FILAMENTS
MAT: 1/2" SQ.
H: 5-1/8"
W: 2-3/16"
HWOSIND158/B/1



158/B/6
4 FILAMENTS
MAT: 1/2" SQ.
H: 2-3/4"
WT: .5 lbs
HWOSIND158/B/6



158/B/7
6 FILAMENTS
MAT: 1/2" SQ.
H: 2-3/4"
WT: .5 lbs
HWOSIND158/B/7



158/B/8
4 FILAMENTS
MAT: 1/2" SQ.
H: 4-15/16"
W: 1-9/16"
HWOSIND158/B/8



159/1
FITS 3/8" SQ.
H: 3-1/2"
W: 1-3/8"
WT: .11 lbs
HWOSIND159/1

159/3
FITS 1/2" SQ.
H: 5-1/8"
W: 2-3/8"
WT: .46 lbs
HWOSIND159/3

159/4
FITS 1/2 or 9/16 SQ
H: 5-1/8"
W: 2-3/8"
WT: .7 lbs
HWOSIND159/4

ALL "159"
BASKETS HAVE
4 FILAMENTS.

159/5
FITS 5/8" SQ.
H: 5-11/16"
W: 2-9/16"
WT: .9 lbs
HWOSIND159/5

159/6
FITS 3/4" SQ.
H: 6-1/2"
W: 3-1/8"
WT: 1.8 lbs
HWOSIND159/6

159/7
FITS 1" SQ.
H: 7-1/16"
W: 3-3/4"
WT: 2.68 lbs
HWOSIND159/7



160/L/1
MAT: 1/2" SQ.
H: 6"
W: 2-3/4"
WT: .5 lbs
HWOSIND160/L/1

160/L/2
MAT: 5/8" SQ.
H: 6"
W: 2-3/4"
WT: 1 lb
HWOSIND160/L/2

160/L/3
MAT: 3/4" SQ.
H: 6-5/16"
W: 3"
WT: 1.3 lbs
HWOSIND160/L/3

**SOLID BRASS
WITH
THREADED
ENDS**



V8/12
FITS 1/2" SQ.
H: 6"
W: 2-1/2"
HWOSINDV8/12



159/BN1
FITS 1" SQ.
H: 8-1/4"
W: 4-1/8"
HWOSIND159/BN1



159/BN34
FITS 3/4" SQ.
H: 8-1/4"
W: 4-1/8"
HWOSIND159/BN34

HAMMERED

156/A/1
MAT: 1/4"
DIA: 1" ID
WT: .11 lb
HWOS156/A/1

156/A/3
MAT: 15/32"
DIA: 19/16" ID
WT: .11 lb
HWOS156/A/3

156/A/4
MAT: 1/4"
DIA: 2" ID
WT: .11 lb
HWOS156/A/4

156/A/5
MAT: 1/4"
DIA: 2-1/2" ID
WT: .11 lb
HWOS156/A/5

ROUND STEEL

157/1/S
MAT: 1/2"
DIA: 4"
HWOS157/1/S

157/3/S
MAT: 1/2"
DIA: 5"
HWOS157/3/S

157/3/S/2
MAT: 1/2"
DIA: 5-1/2"
HWOS157/3/S/2

157/2/S
MAT: 1/2"
DIA: 4-1/2"
HWOS157/2/S

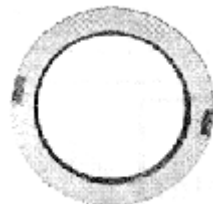
157/3/S/1
MAT: 1/2"
DIA: 5-1/4"
HWOS157/3/S/1

OVAL

157/16
MAT: 1/2" X 1/4"
H: 6-5/16"
W: 4-1/2"
WT: .5 lb
HWOS157/16

TWISTED

156/A/6
MAT: 3/16"
DIA: 2-1/2" ID
WT: .11 lb
HWOS156/A/6

**ALUMINUM RING
(WITH WELD TABS)**

04/400
3-1/2"
HWOS04/400

04/402
4"
HWOS04/402

04/406
5"
HWOS04/406

04/410
6"
HWOS04/410

ALSO AVAILABLE WITH NO TABS

CAST IRON RING

04/265

3"

HWOS04/265

04/270

5"

HWOS04/270

04/274

10"

HWOS04/274

04/267

4"

HWOS04/267

04/272

8"

HWOS04/272

SMALL ROUND BAR RINGS

1/4" RD MATERIAL04/384FITS 1/2" RD
HWOS04/38404/390FITS 1" RD
HWOS04/39004/395FITS 2" RD
HWOS04/39504/385FITS 5/8" RD
HWOS04/38504/392FITS 1-1/4" RD
HWOS04/39204/388FITS 3/4" RD
HWOS04/38804/394FITS 1-1/2" RD
HWOS04/3943/8" RD MATERIAL04/379FITS 1" RD
HWOS04/37904/380FITS 1-1/2" RD
HWOS04/38004/379/DFITS 1-1/4" RD
HWOS04/379/D04-382FITS 2" RD
HWOS04/382

HAND FORGED



120/1
MAT: 1-9/16" BASE
H: 9-3/4"
WT: 1.4 lbs
HWOSIND120/1



120/2
MAT: 1-3/8" BASE
H: 7-7/8"
WT: 1.1 lbs
HWOSIND120/2



120/3
MAT: 1-3/16" BASE
H: 6-11/16"
WT: .6 lb
HWOSIND120/3



121/4
MAT: 1-5/16" BASE
H: 5-1/8"
WT: .75 lbs
HWOSIND121/4



121/5
MAT: 1" BASE
H: 6-5/16"
WT: 1 lb
HWOSIND121/5

HOT-STAMPED



125/1
MAT: 1-3/8" BASE
H: 4-15/16"
WT: .6 lb
HWOSIND125/1



124/1
MAT: 1/2" BASE
H: 4-15/16"
WT: .4 lb
HWOSIND124/1

124/2
MAT: 5/8" BASE
H: 6-5/16"
WT: .7 lb
HWOSIND124/1



126/13
MAT: 5/8" BASE
WT: 1 lb
HWOSIND126/13



122/A/1
MAT: 1-3/8" BASE
H: 7-7/8"
WT: 1 lb
HWOSIND122/A/1



126/1
MAT: 1/2" BASE
H: 5-1/2"
WT: .5 lb
HWOSIND126/1

CAST
STEEL
1-3/4" DIA



126/C/7
MAT: 11/16" BASE
H: 4-15/16"
WT: .8 lb
HWOSIND126/C/7

CAST IRON FINIALS

	<u>03/130</u> FINIAL 217B-1/2" FITS 1/2" SQ. MTL. H: 4-1/8" W: 1" B: 1" HWOSIND03/130	<u>03/135</u> FINIAL 217B-5/8" FITS 5/8" SQ. MTL. H: 4-1/8" W: 1" B: 1" HWOSIND03/135	<u>03/140</u> FINIAL 217B-3/4" FITS 3/4" SQ. MTL. H: 4-1/8" W: 1-1/8" B: 1-1/8" HWOSIND03/140	<u>03/141</u> FINIAL 217B-1" FITS 1" SQ. MTL. H: 4-1/8" W: 1-1/8" B: 1-1/8" HWOSIND03/141
	<u>03/160</u> FINIAL 227-1/2" FITS 1/2" SQ. MTL. H: 4-3/4" W: 2-3/4" HWOSIND03/160	<u>03/165</u> FINIAL 227-5/8" FITS 5/8" SQ. MTL. H: 4-3/4" W: 2-3/4" HWOSIND03/165	<u>03/170</u> FINIAL 227-3/4" FITS 3/4" SQ. MTL. H: 4-3/4" W: 2-3/4" HWOSIND03/170	<u>03/171</u> FINIAL 227-1" FITS 1" SQ. MTL. H: 4-3/4" W: 2-3/4" HWOSIND03/171
	<u>03/115</u> FINIAL 217-1/2" FITS 1/2" SQ. MTL. H: 4" W: 1" B: 1" HWOSIND03/115	<u>03/120</u> FINIAL 217-5/8" FITS 5/8" SQ. MTL. H: 4" W: 1" B: 1" HWOSIND03/120	<u>03/125</u> FINIAL 217-3/4" FITS 3/4" SQ. MTL. H: 4" W: 1-1/8" B: 1-1/8" HWOSIND03/125	
	<u>03/100</u> FINIAL 215-1/2" FITS 1/2" SQ. MTL. H: 4" W: 2" B: 1" HWOSIND03/100	<u>03/105</u> FINIAL 215-5/8" FITS 5/8" SQ. MTL. H: 4" W: 2" B: 1" HWOSIND03/105	<u>03/110</u> FINIAL 215-3/4" FITS 3/4" SQ. MTL. H: 4" W: 2" B: 1-1/8" HWOSIND03/110	
	<u>03/145</u> FINIAL 218-1/2" FITS 1/2" SQ. MTL. H: 4" W: 2-3/8" B: 1" HWOSIND03/145	<u>03/150</u> FINIAL 218-5/8" FITS 5/8" SQ. MTL. H: 4" W: 2-3/8" B: 1" HWOSIND03/150	<u>03/155</u> FINIAL 218-3/4" FITS 3/4" SQ. MTL. H: 4" W: 2-3/8" B: 1-1/8" HWOSIND03/155	
	<u>03/205</u> FINIAL 260-1/2" FITS 1/2" SQ. MTL. H: 4-1/2" W: 3" B: 1" HWOSIND03/205	<u>03/210</u> FINIAL 260-5/8" FITS 5/8" SQ. MTL. H: 4-1/2" W: 3" B: 1" HWOSIND03/210	<u>03/215</u> FINIAL 260-3/4" FITS 3/4" SQ. MTL. H: 4-1/2" W: 3" B: 1-1/8" HWOSIND03/215	

CAST IRON FINIALS

	<u>03/220</u> FINIAL 270-1/2" FITS 1/2" SQ. MTL. H: 5-3/4" W: 2-1/2" B: 1" HWOSIND03/220	<u>03/225</u> FINIAL 270-5/8" FITS 5/8" SQ. MTL. H: 5-3/4" W: 2-1/2" B: 1-1/8" HWOSIND03/225	<u>03/230</u> FINIAL 270-3/4" FITS 3/4" SQ. MTL. H: 5-3/4" W: 2-1/2" B: 1-1/4" HWOSIND03/230
	<u>03/736</u> FINIAL R204 H: 4-3/4" W: 3/4" HWOSIND03/736	<u>03/736A</u> FINIAL R204-1 H: 5-1/2" W: 1-1/8" HWOSIND03/736A	 <u>03/780</u> WINGS R103-1/2" FITS 1/2" SQ. H: 3-1/2" W: 2-1/2" HWOSIND03/780
	<u>03/289A</u> FINIAL DEF-1/2" FITS 1/2" SQ. MTL. H: 4-1/2" W: 1-1/2" B: 1" HWOSIND03/289A	<u>03/289B</u> FINIAL DEF-5/8" FITS 5/8" SQ. MTL. H: 4-1/2" W: 1-1/2" B: 1" HWOSIND03/289B	 <u>03/990</u> FINIAL 990-1/2" FITS 1/2" SQ. MTL. H: 5-7/8" W: 3-5/8" B: 1-1/2" HWOSIND03/990
	<u>03/244</u> FINIAL 9S-1/2" FITS 1/2" SQ. MTL. H: 4-1/8" W: 2" B: 1" HWOSIND03/244	<u>03/244/58</u> FINIAL 9S-5/8" FITS 5/8" SQ. MTL. H: 4-1/8" W: 2" HWOSIND03/244/58	 <u>03/097A</u> FINIAL 213-1/2" FITS 1/2" SQ. MTL. H: 5-1/2" W: 2-3/4" B: 1" HWOSIND03/097A
	<u>03/085</u> STAR 211-1/2" FITS 1/2" SQ. MTL. H: 5-1/2" W: 2-3/4" B: 1" HWOSIND03/085	<u>03/087</u> STAR 211-3/4" FITS 3/4" SQ. MTL. H: 5-1/2" W: 2-3/4" B: 1" HWOSIND03/087	 <u>03/098A</u> FINIAL 214-1/2" FITS 1/2" SQ. MTL. H: 6-1/4" W: 3" B: 1" HWOSIND03/098A
	<u>03/173A</u> FINIAL 327-1/2" FITS 1/2" SQ. MTL. H: 4-3/4" W: 2-3/4" B: 1" HWOSIND03/173A	<u>03/173B</u> FINIAL 327-5/8" FITS 5/8" SQ. MTL. H: 4-3/4" W: 2-3/4" B: 1" HWOSIND03/173B	<u>03/173C</u> FINIAL 327-3/4" FITS 3/4" SQ. MTL. H: 4-3/4" W: 2-3/4" B: 1" HWOSIND03/173C

CAST IRON FINIALS



03/231
PARIS 300-1/2"
FITS 1/2" SQ. MTL.
H: 4-5/8"
W: 2-5/8"
HWOSIND03/231

03/231B
PARIS 300-5/8"
FITS 5/8" SQ. MTL.
H: 4-5/8"
W: 2-5/8"
HWOSIND03/231B

03/231C
PARIS 300-3/4"
FITS 3/4" SQ. MTL.
H: 6-1/8"
W: 3-5/8"
HWOSIND03/231C

03/231D
PARIS 300-1"
FITS 1" SQ. MTL.
H: 7-5/8"
W: 4-1/2"
HWOSIND03/231D



03/280
PINEAPPLE 812
FITS 1/2" SQ. MTL.
H: 2"
W: 1"
B: 1"
HWOSIND03/280

03/278
PINEAPPLE 834
FITS 3/4" SQ. MTL.
H: 2-1/2"
W: 1-1/4"
B: 1-3/8"
HWOSIND03/278

03/276
PINEAPPLE 810
FITS 1" SQ. MTL.
H: 2-7/8"
W: 1-1/2"
HWOSIND03/276



03/290
ROYAL-1/2"
FITS 1/2" SQ. MTL.
H: 4-5/8"
W: 2-1/2"
B: 1"
HWOSIND03/290

03/294
ROYAL-5/8"
FITS 5/8" SQ. MTL.
H: 5-1/2"
W: 3"
B: 1-3/4"
HWOSIND03/294

03/292
ROYAL-3/4"
FITS 3/4" SQ. MTL.
H: 6-5/8"
W: 3-3/4"
B: 2"
HWOSIND03/292



03/286
OAK SCROLL-1/2"
FITS 1/2" SQ. MTL.
H: 5-3/4"
W: 3-5/8"
B: 1-1/2"
HWOSIND03/286

03/287
OAK SCROLL-5/8"
FITS 5/8" SQ. MTL.
H: 4-7/8"
W: 3-1/16"
B: 1-3/8"
HWOSIND03/287

03/288
OAK SCROLL-3/4"
FITS 3/4" SQ. MTL.
H: 5-7/8"
W: 3-5/8"
B: 1-1/2"
HWOSIND03/288



03/269/A1
SPANISH PT-1/2"
FITS 1/2" SQ. MTL.
H: 5-3/4"
W: 3-5/8"
B: 1-1/2"
HWOSIND03269A1

03/269/A2
SPANISH PT-5/8"
FITS 5/8" SQ. MTL.
H: 4-7/8"
W: 3-1/16"
B: 1-3/8"
HWOSIND03269A2

03/269/A3
SPANISH PT-3/4"
FITS 3/4" SQ. MTL.
H: 5-7/8"
W: 3-5/8"
B: 1-1/2"
HWOSIND03269A3

CAST IRON FINIALS (ROUND MATERIAL)



03/485
FITS OVER 1/2"
H: 4-3/4"
W: 2-3/4"
B: 7/8"
HWOSIND03/485



03/486
FITS OVER 1/2"
H: 4-1/8"
W: 1-3/4"
B: 7/8"
HWOSIND03/486



03/487
FITS OVER 1/2"
H: 4-7/8"
W: 2-1/2"
B: 3/4"
HWOSIND03/487



03/489
FITS OVER 1/2"
H: 4-1/8"
W: 1-3/4"
B: 7/8"
HWOSIND03/489



03/490
FITS OVER 1/2"
H: 3-7/8"
W: 1-3/8"
B: 7/8"
HWOSIND03/490

DRIVE-IN FINIALS



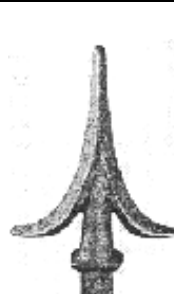
03/475
H: 4-3/8"
W: 2-1/8"
B: 1"
HWOSIND03/475



03/476
H: 4-1/8"
W: 1-3/4"
B: 1"
HWOSIND03/476



03/477
H: 4-7/8"
W: 3"
B: 1-1/8"
HWOSIND03/477



03/474
H: 5-1/8"
W: 4-1/8"
B: 1-1/4"
HWOSIND03/474



03/484
H: 3-1/2"
W: 1-7/8"
B: 1-1/4"
HWOSIND03/484



03/480
LEMONDROP 1"
H: 2-3/4"
HWOSIND03/480



03/479
H: 3-1/2"
BALL: 1-1/2"
HWOSIND03/479



03/478
H: 1-1/2"
BALL: 1"
HWOSIND03/478



03/483
H: 4-1/2"
DRIV. IN 1" TUBE
HWOSIND03/483



03/481
SQUARE PLUG 1"
DRIV. IN 1" TUBE
HWOSIND03/481

SOLID FLAT BASED



03/274
H: 4-1/2"
W: 2-1/4"
HWOSIND03/274



03/738
H: 7-7/8"
WT: 1.1 lbs
HWOSIND03/278



03/740
MAT: 1-3/16" BASE
H: 6-11/16"
WT: .6 lb
HWOSIND03/740



03/741
MAT: 1-5/16" BASE
H: 5-1/8"
WT: .75 lbs
HWOSIND03/741



03/747
MAT: 1" BASE
H: 6-5/16"
WT: 1 lb
HWOSIND03/747



03/401S
BALL: 1"
H: 2-1/4"
B: 1"
HWOSIND03/401S



03/401
BALL: 1-3/8"
H: 2-1/2"
B: 1"
HWOSIND03/401



03/403
BALL: 1-1/4"
H: 2-5/8"
B: 1-1/4"
HWOSIND03/403



03/407
BALL: 1-1/2"
H: 2-3/4"
B: 1-1/2"
HWOSIND03/407



03/407X
BALL: 2"
H: 3-1/4"
B: 1-3/4"
HWOSIND03/407X

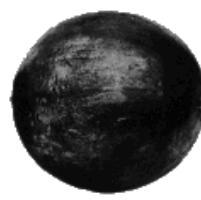
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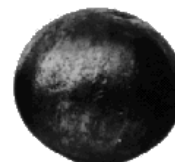
113/9
DIA: 2-15/16"
WT: 4.6 lbs
HWOSIND113/9



113/10
DIA: 2-3/4"
WT: 4.9 lbs
HWOSIND113/10



113/11
DIA: 3-15/16"
WT: 8.8 lbs
HWOSIND113/11



113/12
DIA: 3-1/8"
WT: .5 lbs
HWOSIND113/12

BRASS



160/43
H: 5-1/8"
W: 3-1/8"
B: 1-9/16
HWOSIND160/43



160/44
H: 3-5/8"
W: 3-3/4"
B: 1-9/16
HWOSIND160/44



160/45
H: 4-5/8"
W: 2-5/16"
B: 1-9/16
HWOSIND160/45



160/46
H: 3-1/16"
W: 2-3/16"
B: 1-9/16
HWOSIND160/46

PICKET DESIGNS

				
<u>195</u> H: 3-1/2" W: 3-1/2" HWOSIND195	<u>244</u> H: 7-3/4" W: 6-1/8" HWOSIND244	<u>211</u> H: 17-7/8" W: 7-7/8" HWOSIND211	<u>188</u> H: 14-1/2" W: 7-3/4" HWOSIND188	<u>245</u> H: 15-1/4" W: 7" HWOSIND245
<u>195-1/2</u> FITS: 1/2" SQ." HWOSIND195-1/2	<u>244-1/2</u> FITS: 1/2" SQ." HWOSIND244-1/2	<u>211-1/2</u> FITS: 1/2" SQ." HWOSIND211-1/2	<u>188-1/2</u> FITS: 1/2" SQ." HWOSIND188-1/2	<u>245-1/2</u> FITS: 1/2" SQ." HWOSIND245-1/2
<u>195-5/8</u> FITS: 5/8" SQ." HWOSIND195-5/8	<u>244-5/8</u> FITS: 5/8" SQ." HWOSIND244-5/8	<u>211-5/8</u> FITS: 5/8" SQ." HWOSIND211-5/8	<u>188-5/8</u> FITS: 5/8" SQ." HWOSIND188-5/8	<u>245-5/8</u> FITS: 5/8" SQ." HWOSIND245-5/8
<u>195-3/4</u> FITS: 3/4" SQ." HWOSIND195-3/4	<u>244-3/4</u> FITS: 3/4" SQ." HWOSIND244-3/4	<u>211-3/4</u> FITS: 3/4" SQ." HWOSIND211-3/4	<u>188-3/4</u> FITS: 3/4" SQ." HWOSIND188-3/4	<u>245-3/4</u> FITS: 3/4" SQ." HWOSIND245-3/4
				
<u>192</u> H: 14-1/2" W: 7-7/8" HWOSIND192	<u>123</u> H: 16-3/8" W: 7-7/8" HWOSIND123	<u>107</u> H: 17-1/2" W: 7-3/4" HWOSIND107	<u>149</u> H: 13-7/8" W: 8-1/4" HWOSIND149	<u>186</u> H: 12-3/4" W: 6-1/8" HWOSIND186
<u>192-1/2</u> FITS: 1/2" SQ." HWOSIND192-1/2	<u>123-1/2</u> FITS: 1/2" SQ." HWOSIND123-1/2	<u>107-1/2</u> FITS: 1/2" SQ." HWOSIND107-1/2	<u>149-1/2</u> FITS: 1/2" SQ." HWOSIND149-1/2	<u>186-1/2</u> FITS: 1/2" SQ." HWOSIND186-1/2
<u>192-5/8</u> FITS: 5/8" SQ." HWOSIND192-5/8	<u>123-5/8</u> FITS: 5/8" SQ." HWOSIND123-5/8	<u>107-5/8</u> FITS: 5/8" SQ." HWOSIND107-5/8	<u>149-5/8</u> FITS: 5/8" SQ." HWOSIND149-5/8	<u>186-5/8</u> FITS: 5/8" SQ." HWOSIND186-5/8
<u>192-3/4</u> FITS: 3/4" SQ." HWOSIND192-3/4	<u>123-3/4</u> FITS: 3/4" SQ." HWOSIND123-3/4	<u>107-3/4</u> FITS: 3/4" SQ." HWOSIND107-3/4	<u>149-3/4</u> FITS: 3/4" SQ." HWOSIND149-3/4	<u>186-3/4</u> FITS: 3/4" SQ." HWOSIND186-3/4

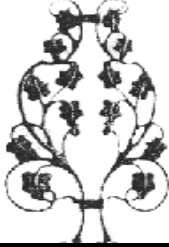
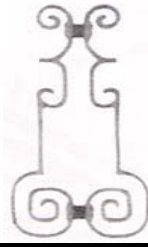
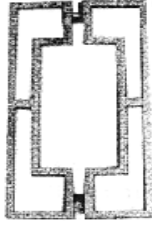
ALL 1/2", 5/8" & 3/4" CASTINGS HAVE THE SAME OVERALL DIMENSIONS.
THEY VARY ONLY IN WIDTH TO FIT THE APPROPRIATE SQUARE TUBE.

PICKET DESIGNS

<u>172</u> H: 11" W: 7-5/8" HWOSIND172	<u>252</u> H: 19-1/2" W: 8" HWOSIND252	<u>263</u> H: 18-1/8" W: 7" HWOSIND263	<u>264</u> H: 18-1/8" W: 7" HWOSIND264	<u>275</u> H: 15-5/8" W: 6-1/8" HWOSIND275
<u>172-1/2</u> FITS: 1/2" SQ." HWOSIND172-1/2	<u>252-1/2</u> FITS: 1/2" SQ." HWOSIND252-1/2	<u>263-1/2</u> FITS: 1/2" SQ." HWOSIND263-1/2	<u>264-1/2</u> FITS: 1/2" SQ." HWOSIND264-1/2	<u>275-1/2</u> FITS: 1/2" SQ." HWOSIND275-1/2
<u>172-5/8</u> FITS: 5/8" SQ." HWOSIND172-5/8	<u>252-5/8</u> FITS: 5/8" SQ." HWOSIND252-5/8	<u>263-5/8</u> FITS: 5/8" SQ." HWOSIND263-5/8	<u>264-5/8</u> FITS: 5/8" SQ." HWOSIND264-5/8	<u>275-5/8</u> FITS: 5/8" SQ." HWOSIND275-5/8
<u>172-3/4</u> FITS: 3/4" SQ." HWOSIND172-3/4	<u>252-3/4</u> FITS: 3/4" SQ." HWOSIND252-3/4	<u>263-3/4</u> FITS: 3/4" SQ." HWOSIND263-3/4	<u>264-3/4</u> FITS: 3/4" SQ." HWOSIND264-3/4	<u>275-3/4</u> FITS: 3/4" SQ." HWOSIND275-3/4
<u>187</u> H: 9" W: 5" HWOSIND187	<u>196</u> H: 5-1/2" W: 7-1/2" HWOSIND196	<u>211JR</u> H: 13" W: 6-3/4" HWOSIND211JR	<u>233</u> H: 11-3/8" W: 7-3/4" HWOSIND233	<u>242</u> H: 9" W: 7" HWOSIND242
<u>187-1/2</u> FITS: 1/2" SQ." HWOSIND187-1/2	<u>196-1/2</u> FITS: 1/2" SQ." HWOSIND196-1/2	<u>211JR-1/2</u> FITS: 1/2" SQ." HWOSIND211JR-1/2	<u>233-1/2</u> FITS: 1/2" SQ." HWOSIND233-1/2	<u>242-1/2</u> FITS: 1/2" SQ." HWOSIND242-1/2
<u>187-5/8</u> FITS: 5/8" SQ." HWOSIND187-5/8	<u>196-5/8</u> FITS: 5/8" SQ." HWOSIND196-5/8	<u>211-5/8</u> FITS: 5/8" SQ." HWOSIND211-5/8	<u>233-5/8</u> FITS: 5/8" SQ." HWOSIND233-5/8	<u>242-5/8</u> FITS: 5/8" SQ." HWOSIND242-5/8
<u>187-3/4</u> FITS: 3/4" SQ." HWOSIND187-3/4	<u>196-3/4</u> FITS: 3/4" SQ." HWOSIND196-3/4			

ALL 1/2", 5/8" & 3/4" CASTINGS HAVE THE SAME OVERALL DIMENSIONS.
THEY VARY ONLY IN WIDTH TO FIT THE APPROPRIATE SQUARE TUBE.

PICKET DESIGNS

				
90 H: 13-1/2" W: 7-5/8" HWOSIND90	103 H: 13-3/4" W: 7-3/4" HWOSIND103	243 H: 14-1/2" W: 8-1/4" HWOSIND243	189 H: 14-3/4" W: 7" HWOSIND189	226 H: 12-3/4" W: 6-1/8" HWOSIND226
90-1/2 FITS: 1/2" SQ." HWOSIND90-1/2	103-1/2 FITS: 1/2" SQ." HWOSIND103-1/2	243-1/2 FITS: 1/2" SQ." HWOSIND243-1/2	189-1/2 FITS: 1/2" SQ." HWOSIND189-1/2	226-1/2 FITS: 1/2" SQ." HWOSIND226-1/2
90-5/8 FITS: 5/8" SQ." HWOSIND90-5/8	103-5/8 FITS: 5/8" SQ." HWOSIND103-5/8	243-5/8 FITS: 5/8" SQ." HWOSIND243-5/8	189-5/8 FITS: 5/8" SQ." HWOSIND189-5/8	226-5/8 FITS: 5/8" SQ." HWOSIND226-5/8
				
144 H: 14-1/4" W: 7-1/4" HWOSIND144	242 H: 9" W: 7" HWOSIND242	242LG-12 FITS 1/2" SQ. H: 16-1/4" W: 8-1/2" HWOSIND224LG-12	256-12 FITS 1/2" SQ. H: 4-3/4" W: 6" HWOSIND256	80-12 FITS 1/2" SQ. H: 13-1/4" W: 7-1/4" HWOSIND80-12
144-1/2 FITS: 1/2" SQ." HWOSIND144-1/2	242-1/2 FITS: 1/2" SQ." HWOSIND242-1/2	242LG-5/8 FITS 5/8" SQ. H: 16-1/4" W: 8-1/2" HWOSIND224LG-5/8		
144-5/8 FITS: 5/8" SQ." HWOSIND144-5/8	242-5/8 FITS: 5/8" SQ." HWOSIND242-5/8			
	6060-12 FITS 1/2" SQ. H: 16-1/4" W: 8-1/2" HWOSIND6060-12		111-12 FITS 1/2" SQ. H: 9" W: 7" HWOSIND111-12	

ROSE



101
H: 22-1/2"
W: 22-1/2"
HWOSROSE101



102
H: 14-1/2"
W: 8"
HWOSROSE102



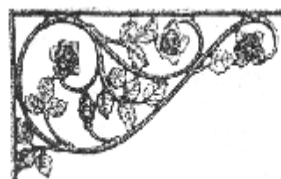
105
H: 26-3/4"
W: 8"
HWOSROSE105



106
H: 20-3/4"
W: 6-1/2"
HWOSROSE106



109
H: 26"
W: 10"
HWOSROSE109



110
H: 8-1/2"
W: 16-1/2"
HWOSROSE110



113
H: 22"
W: 7"
HWOSROSE113



113S
H: 25-3/4"
W: 10-1/4"
HWOSROSE113S



115
H: 17"
W: 17"
HWOSROSE115



114
H: 15"
W: 15"
HWOSROSE114

ROSE



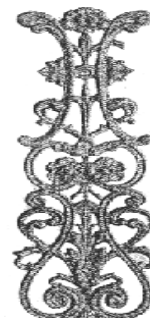
156
H: 4-1/2"
W: 21"
HWOSROSE156



770
DIAM: 8"
HWOSROSE770



790
H: 25-3/4"
W: 10-1/4"
HWOSROSE790



907
H: 28-1/2"
W: 8-1/4"
HWOSROSE907

GRAPES



014
DIAM: 8"
HWOSGRAPES014



118
H: 23"
W: 23"
HWOSGRAPES118



119
H: 27-3/8"
W: 8"
HWOSGRAPES119



120
H: 25-1/2"
W: 7-1/4"
HWOSGRAPES120



122
H: 11-1/2"
W: 28-3/4"
HWOSGRAPES122



248
H: 5-3/4"
W: 27-1/4"
HWOSGRAPES248

GRAPES



121
H: 15-1/2"
W: 15-1/2"
HWOSGRAPES121



130
H: 19-1/4"
W: 7"
HWOSGRAPES130



131
H: 28"
W: 12"
HWOSGRAPES131



132
H: 15-3/4"
W: 15-3/4"
HWOSGRAPES132



247
H: 29"
W: 7-1/2"
HWOSGRAPES247



903
H: 22"
W: 9"
HWOSGRAPES903



9070
H: 9-1/2"
W: 12"
HWOSGRAPES9070



9077
H: 28-3/4"
W: 13"
HWOSGRAPES9077

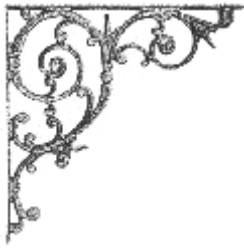


913
H: 14-3/4"
W: 8-3/4"
HWOSGRAPES913



G-10
H: 24-1/8"
W: 8"
HWOSGRAPESG10

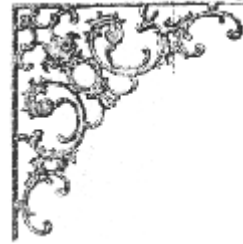
PONTALBA



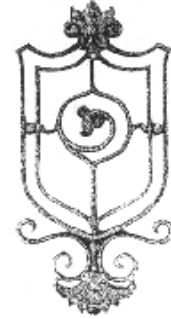
125
H: 17"
W: 17"
HWOSPONT125



127
H: 15-1/2"
W: 15-1/2"
HWOSPONT127



800
H: 21"
W: 21"
HWOSPONT800



146
H: 23-3/4"
W: 11-1/2"
HWOSPONT146



134
H: 25-1/4"
W: 8-1/2"
HWOSPONT134



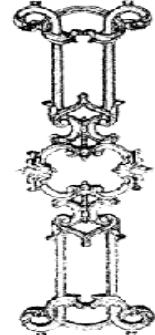
135
H: 19"
W: 6-1/2"
HWOSPONT135



138
H: 4-1/2"
W: 19-3/4"
HWOSPONT138



139
H: 26"
W: 10-1/2"
HWOSPONT139



141
H: 27-1/2"
W: 7-1/2"
HWOSPONT141



137
H: 6"
W: 23"
HWOSPONT137



202
H: 4-1/2"
W: 19-3/4"
HWOSPONT202



620
H: 15-1/2"
W: 3-1/2"
HWOSPONT620



620-XL
H: 3-1/2"
W: 30-1/2"
HWOSPONT620XL

PONTALBA



236
H: 21-3/4"
W: 8-1/2"
HWOSPONT236



250
H: 28"
W: 7-3/4"
HWOSPONT250



670
H: 4-1/2"
W: 19-3/4"
HWOSPONT670

CATHEDRAL



171
H: 27"
W: 8-1/2"
HWOSCATHEDRAL171



129
H: 27-3/4"
W: 10-3/4"
HWOSCATHEDRAL129



126
H: 26-1/2"
W: 10-3/4"
HWOSCATHEDRAL126



133
H: 27-3/4"
W: 7-1/2"
HWOSCATHEDRAL133



190
H: 10"
W: 20-3/8"
HWOSCATHEDRAL190



283
H: 27-3/8"
W: 9"
HWOSCATHEDRAL283



175
H: 27-3/4"
W: 14"
HWOSCATHEDRAL175



100
H: 36-3/4"
W: 17-1/2"
HWOSCATHEDRAL100

OAK



124
H: 25-5/8"
W: 7-3/4"
HWOSOAK124



148
H: 27"
W: 11-1/2"
HWOSOAK148



150
H: 10-1/2"
W: 7"
HWOSOAK150



151
H: 18-1/4"
W: 7-3/8"
HWOSOAK151



152
H: 27-1/4"
W: 11-1/2"
HWOSOAK152



154
H: 15-1/2"
W: 15-1/2"
HWOSOAK154



155
H: 27-1/4"
W: 12"
HWOSOAK155



157
H: 20-1/4"
W: 20-1/4"
HWOSOAK157



159
H: 6-1/2"
W: 24-3/4"
HWOSOAK159



158
H: 5"
W: 21"
HWOSOAK158



153
H: 7"
W: 25"
HWOSOAK153



020
H: 4-1/2"
W: 26-1/4"
HWOSOAK020



027
H: 4-1/2"
W: 26-1/4"
HWOSOAK027

BIRD OF PARADISE



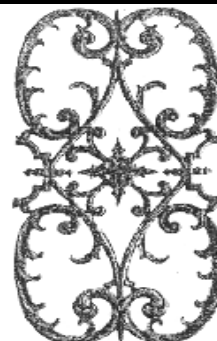
181
H: 22-5/8"
W: 8-3/4"
HWOSBIRD181



182
H: 27"
W: 7-1/2"
HWOSBIRD182



183
H: 24-3/4"
W: 8-3/4"
HWOSBIRD183



184
H: 27-3/4"
W: 15"
HWOSBIRD184



178
H: 19"
W: 15-1/2"
HWOSBIRD178



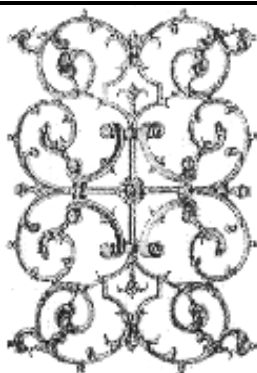
191
H: 11-1/4"
W: 30-1/4"
HWOSBIRD191



1101
H: 10"
W: 22"
HWOSBIRD1101



128
H: 26-1/2"
W: 7"
HWOSBIRD128



179
H: 31"
W: 21-3/4"
HWOSBIRD179



279
H: 15-1/2"
W: 8-3/4"
HWOSBIRD279

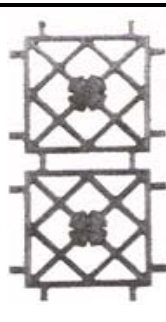
MODERN



117
H: 29-1/2"
W: 8"
HWOSMOD117



140
H: 26"
W: 10-1/2"
HWOSMOD140



168
H: 19"
W: 9-3/4"
HWOSMOD168



174
H: 31-1/2"
W: 6"
HWOSMOD174



176
H: 14-1/4"
W: 17-3/4"
HWOSMOD176



185
H: 22"
W: 22"
HWOSMOD185



194
H: 19"
W: 9-3/4"
HWOSMOD194



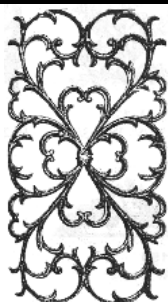
203
H: 20-1/2"
W: 9-1/8"
HWOSMOD203



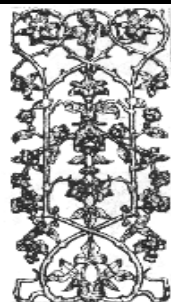
206
H: 18-1/4"
W: 9-5/8"
HWOSMOD206



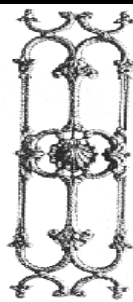
241
H: 28-3/4"
W: 6-3/4"
HWOSMOD241



412
H: 28-1/4"
W: 11-1/2"
HWOSMOD412



7114
H: 27-1/4"
W: 12"
HWOSMOD7114



7152
H: 32-1/2"
W: 8-3/4"
HWOSMOD7152



8010
H: 20"
W: 8"
HWOSMOD8010

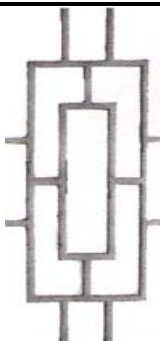


957
H: 25"
W: 12-1/2"
HWOSMOD957

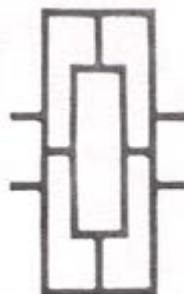
ORIENTAL



161
H: 23"
W: 10-1/4"
HWOSORIENT161



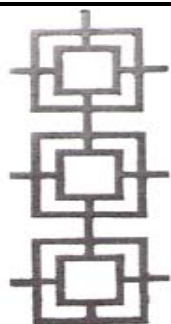
162
H: 27-1/4"
W: 10"
HWOSORIENT162



163
H: 17-1/4"
W: 10-1/4"
HWOSORIENT163



164
H: 15"
W: 8-3/4"
HWOSORIENT164



165
H: 23-1/4"
W: 9-1/4"
HWOSORIENT165



166
H: 21-3/4"
W: 8-3/4"
HWOSORIENT166



167
H: 13-3/4"
W: 5-3/4"
HWOSORIENT167



169
H: 20-1/4"
W: 8-1/4"
HWOSORIENT169



238
H: 17-3/4"
W: 9-3/8"
HWOSORIENT238



240
H: 15"
W: 15"
HWOSORIENT240

ANIMALS

BIG LION - L

H: 32"

W: 14"

HWOSBIGLION-L

BIG LION - R

H: 32"

W: 14"

HWOSBIGLION-R

MED LION - L

H: 21"

W: 10"

HWOSMEDLION-L

MED LION - R

H: 21"

W: 10"

HWOSMEDLION-R

03C99 (IRON DRAGON)

H: 6-1/2"

W: 25"

HWOS03C99

HORSE/COLT

H: 17"

W: 12"

HWOSHORSE/COLT

HORSE/RUN

H: 19"

W: 25"

HWOSHORSE/RUN

BRONCO

H: 17"

W: 12"

HWOSBRONCO

SEALION - L

H: 13"

W: 9"

HWOSSEALION-L

SEALION - R

H: 13"

W: 9"

HWOSSEALION-R

STALLION - L

H: 17-5/8"

W: 13"

HWOSTALLION-L

STALLION - R

H: 17-5/8"

W: 13"

HWOSSTALLION-R

EAGLE - 1

H: 7"

W: 16-3/8"

HWOSEAGLE-1

EAGLE - 2

H: 5-1/2"

W: 19-1/2"

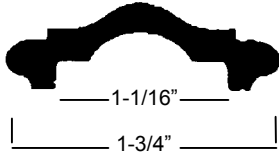
HWOSEAGLE-2

EAGLE - 3

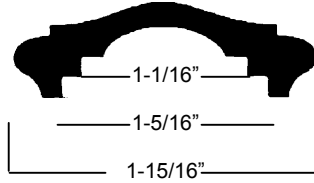
H: 10"

W: 27"

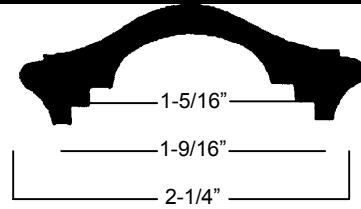
HWOSEAGLE-3



03-302
MOLDED CAP RAIL 1-3/4"
FITS OVER 1"
HWOS03-302



03-301
MOLDED CAP RAIL 1-15/16"
FITS OVER 1-1/4"
HWOS03-301



03-303
MOLDED CAP RAIL 2-1/4"
FITS OVER 1-1/2"
HWOS03-303



03-308L
LATERAL SCROLL LEFT
1-3/4"
HWOS03-308L



03-309L
LATERAL LEFT CHANNEL
1"
HWOS03-309L



03-309R
LATERAL CHANNEL
RIGHT 1"
HWOS03-309R



03-308R
LATERAL SCROLL
RIGHT 1-3/4"
HWOS03-308R

03-310L
LATERAL SCROLL LEFT
1-15/16"
HWOS03-310L

03-311L
LATERAL LEFT CHANNEL
1-1/4"
HWOS03-311L

03-311R
LATERAL CHANNEL
RIGHT 1-1/4"
HWOS03-311R

03-310R
LATERAL SCROLL
RIGHT 1-15/16"
HWOS03-310R



03-306L
LATERAL SCROLL LEFT
2-1/4"
HWOS03-306L



03-307L
LATERAL CHANNEL LEFT
1-1/2"
HWOS03-307L



03-307R
LATERAL CHANNEL
RIGHT 1-1/2"
HWOS03-307R



03-306R
LATERAL SCROLL
RIGHT 2-1/4"
HWOS03-306R



03-374A
CORNER ANGLE
1-3/4"
FITS OVER 1"
CHANNEL OR TUBE
HWOS03-374A



03-375
URN BASE END
1-3/4"
HWOS03-375



**STRAIGHT
(LAMB TONGUE)**

03-350

FOR STRAIGHT RAIL 1-3/4"
H: 4-3/4"
W: 5"
HWOS03-350



**BEVELED
(LAMB TONGUE)**

03-355

FOR PITCHED RAIL 1-3/4"
H: 4-3/4"
W: 5"
HWOS03-355



**VOLUTE
(LAMB TONGUE)**

03-360

FOR STRAIGHT RAIL 1-3/4"
H: 2-1/2"
W: 4-3/4"
HWOS03-360

03-351A

FOR STRAIGHT RAIL 1-3/4"
H: 4-3/4"
W: 5"
HWOS03-351A

03-357

FOR PITCHED RAIL 2-1/4"
H: 4-3/4"
W: 5"
HWOS03-357

03-361A

FOR STRAIGHT RAIL 2-1/4"
H: 2-1/2"
W: 4-3/4"
HWOS03-361A

03-352

FOR STRAIGHT RAIL 2-1/4"
H: 5"
W: 5"
HWOS03-352

03-358

FOR PITCHED RAIL 2-1/4"
H: 4-3/4"
W: 5"
HWOS03-358

03-362

FOR STRAIGHT RAIL 2-1/4"
H: 2-1/2"
W: 4-3/4"
HWOS03-362



03-380
CORNER BEND
1-3/4"
HWOS03-380

03-381
CORNER BEND
1-15/16"
HWOS03-381

03-382
CORNER BEND
2-1/4"
HWOS03-382



03-385
CORNER CHANNEL
1"
HWOS03-385

03-386
CORNER CHANNEL
1-15/16"
HWOS03-386

03-387
CORNER CHANNEL
1-1/2"
HWOS03-387



RAIL END 3629

03-365

FOR CAP RAIL 1-3/4"
H: 4"
W: 4-1/2"
HWOS03-365



03-366

RAIL END 5A
FOR 1" CHANNEL
HWOS03-366



03-630

RAIL END COVER 653
FOR 1/2" X 1"
CHANNEL OR TUBE
HWOS03-630



03-635

RAIL END COVER 654
FOR TUBULAR HANDRAIL
HWOS03-635



03-304
TUBULAR HANDRAIL
1-3/4"
14 GA. (20 FT.)
HWOS03-304



03-361
VOLUTE FOR TUBE
H: 2-1/2"
W: 4-3/4"
HWOS03-361



03-356
LAMB TONGUE
(BEVELED)
HWOS03-356



03-351
LAMB TONGUE
FOR TUBE
HWOS03-351

FORGED HANDRAIL & FITTINGS



812/2
RAIL END 812/2
TO BE USED WITH MCR/112
HWOSIND812/2



MCR/112
FOR 1-1/2" CHANNEL, FLAT
OR TUBE - 20' L
WT: 42 lbs
HWOSINDMCR/112



116/10
TO BE USED W/ 114/5
WT: 5 lbs
HWOSIND116/10



114/5
MTL: 5/16"
W: 1-9/16"
L: 118-1/8"
HWOSIND114/5



114/B/8
TO BE USED WITH 114/8
WT: 6 lbs
HWOSIND114/B/8



114/8
MTL: 5/16"
W: 1-9/16"
L: 118-1/8"
HWOSIND114/8



114/4
TO BE USED W/ 114/5
WT: 5 lbs
HWOSIND114/4



114/9
MTL: 5/16"
W: 1-9/16"
L: 118-1/8"
HWOSIND114/9

FORGED HANDRAIL & FITTINGS



114/B/13
TO BE USED WITH 114/A/3
WT: 5 lbs
HWOSIND114/B/13



114/B/14
TO BE USED WITH 114/A/3
WT: 4 lbs
HWOSIND114/B/14



114/A/3
MTL: 1-7/8" X 5/8"
W: 1-7/8"
L: 120"
HWOSIND114/A/3



115/1
TO BE USED WITH 114/1
WT: 4.5 lbs
HWOSIND115/1



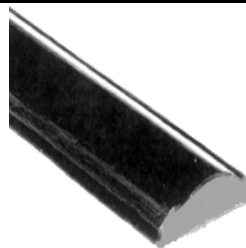
115/4
TO BE USED WITH 114/1
WT: 5 lbs
HWOSIND115/4



114/1
MTL: 9/16"
W: 2-5/16"
L: 78-3/4"
HWOSIND114/1



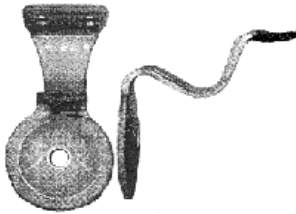
115/2
TO BE USED WITH 114/2
WT: 4.5 lbs
HWOSIND115/2



114/2
MTL: 9/16"
W: 2-5/16"
L: 78-3/4"
HWOSIND114/2

HANDRAIL BRACKETS

STEEL BRACKETS



02-262
WAG BRACKET:
2-1/2"
CLR TO WALL:
2-1/2"
H: 3-7/8"
WT. 2-3/4"
HWOS02-262



02-260
WAG BRACKET:
3"
CLR TO WALL:
3"
HWOS02-260

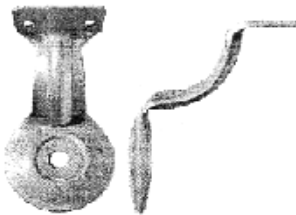


02-263
WAG BRACKET:
2-1/2"
CLR TO WALL:
2-1/2"
H: 3-7/8"
WT. 2-3/4"
HWOS02-263



02-261
WAG BRACKET:
3"
CLR TO WALL:
3"
HWOS02-261

STEEL BRACKETS



02-255
3" FLAT
CLR TO WALL: 3"
H: 3-7/8"
WT. 2-3/4"
HWOS02-255



02-256
3" ROUND
CLR TO WALL: 3"
H: 3-7/8"
WT. 2-3/4"
HWOS02-256



03-650
CAST IRON BRACKET
2-1/2" ROUND
H: 3-3/4"
W: 2-1/2"
HWOS03-650



03-655
CAST IRON
BRACKET
2-1/2" FLAT
H: 3-3/4"
W: 2-1/2"
HWOS03-655

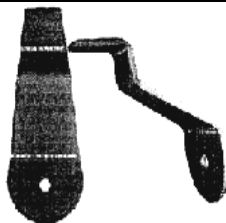


03-660
CAST IRON BRACKET
3" FLAT
H: 3-3/4"
W: 2-1/2"
HWOS03-660



03-652
CAST IRON BRACKET
3-1/2" FLAT
H: 3-3/4"
W: 3-1/4"
HWOS03-652

NO HOLES



02-250
MODERN
BRACKET:
3"
H: 4-1/2"
W: 2-3/4"
HWOS02-250



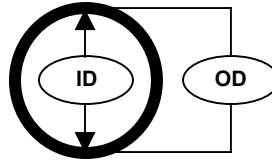
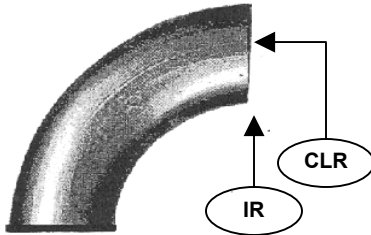
02-251
MODERN
BRACKET:
3"
H: 4-1/2"
W: 2-3/4"
HWOS02-251



02-264
J BRACKET -
FLAT 3"
H: 3-7/8"
W: 3"
HWOS02-264



GENERAL INFORMATION



TERMS:

O.D. = OUTSIDE DIAMETER
 I.D. = INSIDE DIAMETER
 C.L.R. = CENTER LINE RADIUS
 RADIUS TO THE CENTER OF THE PIPE
 I.R. = INSIDE RADIUS
 RADIUS TO THE INSIDE EDGE OF THE PIPE

SIZE	O.D.	WALL
1" PIPE SCH. 40	1.32 (1-5/16")	.133
1-1/4" PIPE SCH. 40	1.66(1-5/8")	.140
1-1/2" PIPE SCH. 40	1.90(1-7/8")	.145
1-1/2" RD. TUBE	1.50(1-1/2")	.120 (11 GA.)

90 ° STEEL PIPE ELBOWS WITH SEAM (FORMED)

	1" PIPE 1-5/16" OD SCHEDULE 40	1-1/4" PIPE 1-5/8" OD SCHEDULE 40	1-1/2" PIPE 1-7/8" OD SCHEDULE 40
	<u>04-675</u> IR: 1" CLR: 1-11/16" HWOS04-675	<u>04-676</u> IR: 1" CLR: 1-13/16" HWOS04-676	<u>04-677</u> IR: 1" CLR: 1-15/16" HWOS04-677
	<u>04-675A</u> IR: 2" CLR: 2-11/16" HWOS04-675A	<u>04-676A</u> IR: 1-5/8" CLR: 2-7/16" HWOS04-676A	<u>04-677A</u> IR: 1-5/8" CLR: 2-9/16" HWOS04-677A
		<u>04-676B</u> IR: 2" CLR: 2-13/16" HWOS04-676B	<u>04-677B</u> IR: 2" CLR: 2-15/16" HWOS04-677B

STEEL TUBING 90 ° ELBOWS (NO SEAM – BENT FROM TUBING)

	1-1/2" TUBE 1-1/2" OD 11 GA.	
	<u>TE1-1/2 2-1/2</u> IR: 1-3/4" CLR: 2-1/2" HWOSTE1-1/2-2-1/2	<u>TE1-1/2 3</u> IR: 2-1/4" CLR: 3" HWOSTE1-1/2-3

90 ° STEEL PIPE ELBOWS *NO SEAM (BENT FROM PIPE)*

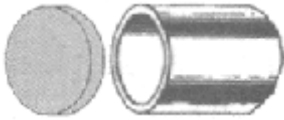
	1" PIPE 1-5/16" OD SCHEDULE 40	1-1/4" PIPE 1-5/8" OD SCHEDULE 40	1-1/2" PIPE 1-7/8" OD SCHEDULE 40
	<u>PE1-2 1/2</u> IR: 2-1/2" CLR: 1-13/16" HWOSPE1-2-1/2	<u>PE1-1/4 2-1/2</u> IR: 2-1/2" CLR: 1-11/16" HWOSPE1-1/4-2-1/2	<u>PE1-1/2 2-1/2</u> IR: 2-1/2" CLR: 1-9/16" HWOSPE1-1/2-2-1/2
	<u>PE1-3</u> IR: 3" CLR: 2-5/16" HWOSPE1-3	<u>PE1-1/4 3</u> IR: 3" CLR: 2-3/16" HWOSPE1-1/4-3	<u>PE1-1/2 3</u> IR: 3" CLR: 2-1/16" HWOSPE1-1/2-3

STEEL PIPE & TUBING FITTINGS

					
<u>No Mounting Holes</u>		<u>2 Mounting Holes</u>		<u>4 Mounting Holes</u>	
	<u>SIZE & THICKNESS</u>	<u>MOUNTING HOLES</u>	<u>DIAMETER</u>	<u>FLANGE CTR HOLE</u>	<u>ITEM NO:</u>
1" PIPE					
BF1-0	1" PIPE SCH 40	No Holes	3-1/4"	1-3/8" ID	HWOSBF1-0
BF1-2	1" PIPE SCH 40	2 Holes 5/16"	3-1/4"	1-3/8" ID	HWOSBF1-2
BF1-4	1" PIPE SCH 40	4 Holes 5/16"	3-1/4"	1-3/8" ID	HWOSBF1-4
1-1/4" PIPE					
BF1 1/4-0	1-1/4" PIPE SCH 40	No Holes	3-3/4"	1-5/8" ID	HWOSBF1-1/4-0
BF1 1/4-2	1-1/4" PIPE SCH 40	2 Holes 5/16"	3-3/4"	1-5/8" ID	HWOSBF1-1/4-2
BF1 1/4-4	1-1/4" PIPE SCH 40	4 Holes 5/16"	3-3/4"	1-5/8" ID	HWOSBF1-1/4-4
1-1/2" PIPE					
BF1 1/2-0	1-1/2" PIPE SCH 40	No Holes	4-1/4"	1-7/8" ID	HWOSBF1-1/2-0
BF1 1/2-2	1-1/2" PIPE SCH 40	2 Holes 5/16"	4-1/4"	1-7/8" ID	HWOSBF1-1/2-2
BF1 1/2-4	1-1/2" PIPE SCH 40	4 Holes 5/16"	4-1/4"	1-7/8" ID	HWOSBF1-1/2-4
1-1/2" ROUND TUBE					
BF1 1/2-0T	1-1/2" TUBE 10 GA	No Holes	3-3/4"	1-1/2" ID	HWOSBF1-1/2-OT
BF1 1/2-2T	1-1/2" TUBE 10 GA	2 Holes 5/16"	3-3/4"	1-1/2" ID	HWOSBF1-1/2-2T
BF1 1/2-4T	1-1/2" TUBE 10 GA	4 Holes 5/16"	3-3/4"	1-1/2" ID	HWOSBF1-1/2-4T

STEEL PIPE & TUBING FITTINGS

WELD-ON DISKS

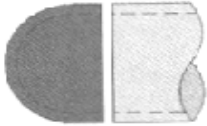


DISC1
FITS 1" PIPE
SCH 40
THICKNESS: 1/8"
HWOS-DISC1

DISC1 1/4
FITS 1-1/4" PIPE
SCH 40
THICKNESS: 1/8"
HWOS-DISC1-1/4

DISC1 1/2
FITS 1-1/2" PIPE
SCH 40
THICKNESS: 1/8"
HWOS-DISC1-1/2

DISC1 1/2T
FITS 1-1/2" TUBE
11 GAUGE
THICKNESS: 3/16"
HWOS-DISC1-1/2T

WELD-ON END
CAPS
(DOME TYPE)

PEC1
FITS 1" PIPE
SCHEDULE 40
HWOS-PEC1

PEC1 1/4
FITS 1-1/4" PIPE
SCHEDULE 40
HWOS-PEC1-1/4

PEC1 1/2
FITS 1-1/2" PIPE
SCHEDULE 40
HWOS-PEC1-1/2

PEC1 1/2T
FITS 1-1/2" RNDTUBE OD
11 GAUGE
HWOS-PEC1-1/2T

CONNECTORS



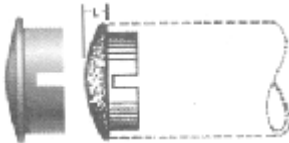
EC1
(05-591)
ID: 1"
SCHEDULE 40
HWOS-EC1

EC1 1/4
(05-592)
ID: 1-1/4"
SCHEDULE 40
HWOS-EC1-1/4

EC1 1/2
(05-593)
ID: 1-1/2"
SCHEDULE 40
HWOS-EC1-1/2

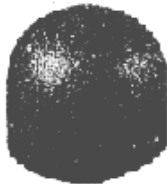
EC2
(05-595)
ID: 2"
SCHEDULE 40
HWOS-EC2

DRIVE-ON PIPE CAPS



DOC16640
ID: 1-1/4"
SCHEDULE 40
L: 5/16"
HWOS-DOC16640

DOC19040
ID: 1-1/2"
SCHEDULE 40
L: 5/8"
HWOS-DOC19040

WELDABLE PIPE
END CAPS

04/680
PIPE END CAP: 1-1/4"
HWOS04/680

04/682
PIPE END CAP: 1-1/2"
HWOS04/682

04/684
PIPE END CAP: 2"
HWOS04/684

POST BALL CAP



03-400
(CI) 1"
H: 2-1/4"
B: 1-1/4"
BALL: 7/8"
HWOS03-400

03-402
(CI) 1-1/4"
H: 2-1/2"
B: 1-1/2"
BALL: 1-1/8"
HWOS03-402

03-405
(CI) 1-1/2"
H: 2-3/4"
B: 1-3/4"
BALL: 1-3/8"
HWOS03-405

03-410
(CI) 2"
H: 3-3/4"
B: 2-3/8"
BALL: 1-3/4"
HWOS03-410

03-412
(CI) 2-1/2"
H: 4-3/8"
B: 2-3/8"
BALL: 1-3/4"
HWOS03-412

03-415
(CI) 3"
H: 5"
B: 3-1/2"
BALL: 2-1/4"
HWOS03-415

03-420
(CI) 4"
H: 5-1/2"
B: 4-1/2"
BALL: 2-1/2"
HWOS03-420

03-425
(CI) 5"
H: 6-1/2"
B: 5-1/2"
BALL: 3"
HWOS03-425

03-430
(CI) 6"
H: 7-1/2"
B: 6-1/2"
BALL: 4"
HWOS03-430

POST NEWELL CAP



03-450
NEWELL CAP 1"
HWOS03-450

03-445
NEWELL CAP 1-1/4"
HWOS03-445

03-455
NEWELL CAP 1-1/2"
HWOS03-455

03-460
NEWELL CAP 2"
HWOS03-460

03-463
NEWELL CAP 2-1/2"
HWOS03-463

03-465
NEWELL CAP 3"
HWOS03-465

03-470
NEWELL CAP 4"
HWOS03-470

03-471
NEWELL CAP 5"
HWOS03-471

03-472
NEWELL CAP 6"
HWOS03-472

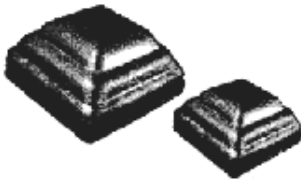
SPANISH POST CAP



03-390-112
SPANISH POSTCAP
1-1/2"
H: 3-1/2"
B: 2-3/8"
HWOS03-390-112

03-390-2
SPANISH POSTCAP
2"
H: 3-1/2"
B: 2-3/8"
HWOS03-390-2

PRESSED STEEL CAP



03-495
STEEL CAP 3/4"
HWOS03-495

03-500
STEEL CAP 1"
HWOS03-500

03-505
STEEL CAP 1-1/4"
HWOS03-505

03-510
STEEL CAP 1-1/2"
HWOS03-510

03-515
STEEL CAP 2"
HWOS03-515

03-520
STEEL CAP 2-1/2"
HWOS03-520

03-525
STEEL CAP 3"
HWOS03-525

03-530
STEEL CAP 4"
HWOS03-530

03-535
STEEL CAP 5"
HWOS03-535

03-540
STEEL CAP 6"
HWOS03-540

STEEL ENDCAP FOR PIPE (MILL FINISH)



04-690A
STEEL ENDCAP 1"
HWO04-690A

04-690B
STEEL ENDCAP 1-1/4"
HWOS04-690B

04-690C
STEEL ENDCAP 1-1/2"
HWOS04-690C

04-690D
STEEL ENDCAP 2"
HWOS04-690D

PVC DOME CAP - WHITE



03-540
DOME CAP 1-1/2"
HWOS03-540

03-542
DOME CAP 2"
HWOS03-542

**PLASTIC CAP SQUARE
MULTI-GAUGE
14-18 GA.**


03-550
PLASTIC CAP
SQ. 1/2"
HWOS03-550

03-555
PLASTIC CAP
SQ. 5/8"
HWOS03-555

03-560
PLASTIC CAP
SQ. 3/4"
HWOS03-560

03-565
PLASTIC CAP
SQ. 1"
HWOS03-565

03-570
PLASTIC CAP
SQ. 1-1/4"
HWOS03-570

03-575
PLASTIC CAP
SQ. 1-1/2"
HWOS03-575

03-580
PLASTIC CAP
SQ. 2"
HWOS03-580

03-583
PLASTIC CAP
SQ. 3"
HWOS03-583

**PLASTIC CAP
FOR ROUND TUBING**


03-550R
PLASTIC CAP
ROUND 1/2"
14/23 GA.
HWOS03-550R

03-555R
PLASTIC CAP
ROUND 5/8"
16 GA.
HWOS03-555R

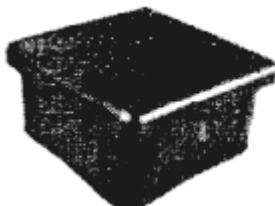
03-560R
PLASTIC CAP
ROUND 3/4"
16 GA.
HWOS03-560R

03-565R
PLASTIC CAP
ROUND 1"
16 GA.
HWOS03-565R

03-570R
PLASTIC CAP
ROUND 1-1/4"
16 GA.
HWOS03-570R

03-575R
PLASTIC CAP
ROUND 1-1/2"
16 GA.
HWOS03-575R

03-580R
PLASTIC CAP
ROUND 2"
16 GA.
HWOS03-580R

**PLASTIC CAP SQUARE
16 GAUGE**


03-551
PLASTIC CAP
SQ. 1/2"
HWOS03-551

03-558
PLASTIC CAP
SQ. 5/8"
HWOS03-558

03-562
PLASTIC CAP
SQ. 3/4"
HWOS03-562

03-564
PLASTIC CAP
SQ. 1"
HWOS03-564

03-572
PLASTIC CAP
SQ. 1-1/4"
HWOS03-572

03-576
PLASTIC CAP
SQ. 1-1/2"
HWOS03-576

03-582
PLASTIC CAP
SQ. 2"
16 GA.
HWOS03-582

PLASTIC CAP – SQUARE (14 GAUGE)

Available in Sizes:
1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2" & 2"

PLASTIC CAP – SQUARE (11 GAUGE)

Available in Sizes:
3/4", 1", 1-1/4", 1-1/2" & 2"

**PLASTIC CAP
RECTANGULAR
16 GAUGE**


03-545
1/2" X 1"
HWOS03-545

03-547
1/2" X 1-1/2"
HWOS03-547

03-595
3/4" X 1-1/2"
HWOS03-595

03-567
1" X 1-1/2"
HWOS03-567

03-585
1" X 2"
HWOS03-585

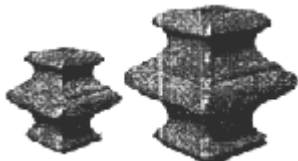
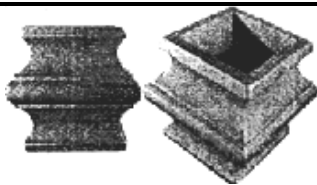
**PLASTIC CAP
FOR ROUND PIPE**


03-598-114
PLASTIC CAP FOR PIPE
1-1/4" (SCH. 40)
HWOS03-598-114

03-598-112
PLASTIC CAP FOR PIPE
1-1/2" (SCH. 40)
HWOS03-598-112

CAST IRON COLLARS

137

	04-495A HOLLOW BALL COLLAR - 1/2" SQ. MTL. BALL 1-1/2" DIA. HWOS04-495A	04-495B HOLLOW BALL COLLAR - 5/8" SQ. MTL. BALL: 1-1/2" DIA. HWOS04-495B	04-495C HOLLOW BALL COLLAR - 3/4" SQ. MTL. BALL 2-1/2" DIA. HWOS04-495C	04-495D HOLLOW BALL COLLAR - 1" SQ. MTL. BALL 2-1/2" DIA. HWOS04-495D	
	03-190 COLLAR 251-1/2 1/2" SQ.MTL. H: 1-3/4" W: 1-3/4" HWOS03-190	03-195 COLLAR 251-5/8 5/8" SQ.MTL. H: 1-3/4" W: 1-7/8" HWOS03-195	03-200 COLLAR 251-3/4 3/4" SQ.MTL. H: 2" W: 1-7/8" HWOS03-200	03-197 COLLAR 251-1 1 SQ. MTL. H: 2-1/4" W: 2-1/8" HWOS03-197	
	EXTRA LARGE COLLARS		03-202 COLLAR 251 1-1/4 1-1/4" SQ. MTL. H: 2-3/8" W: 2-3/8" HWOS03-202	03-203 COLLAR 251 1-1/2 1-1/2" SQ. MTL. H: 2-3/4" W: 2-3/4" HWOS03-203	
	03-192 COLLAR 251- V1/2 H: 1-3/4" W: 1-5/8" HWOS03-192	03-192A COLLAR 251-V5/8 H: 1-3/4" W: 1-7/8" HWOS03-192A	03-192B COLLAR 251-V3/4 H: 2" W: 2" HWOS03-192B	03-192C COLLAR 251-V1 H: 2-1/4" W: 2-1/8" HWOS03-192C	
HALF COLLARS					
	03-237A COLLAR 230-1/2 1-1/2" SQ. MTL. H: 3/4" W: 1-1/4" HWOS03-237A	03-237B COLLAR 230-5/8 5/8" SQ. MTL. H: 2" W: 1-3/8" HWOS03-237B	03-237C COLLAR 230-3/4 3/4" SQ. MTL. H: 3/4" W: 1-1/2" HWOS03-237C		
	128-12 FITS: 1/2" SQ.MTL. H: 7/8" W: 1-9/16" HWOS128-12	128-58 FITS: 5/8" SQ.MTL. H: 7/8" W: 1-9/16" HWOS128-58		03-284 8518 COLLAR 1/2 1/2" SQ. MTL. H: 1-3/4" W: 1-7/8" HWOS03-284	
	03-C010C FITS 5/8" SQ. H: 4-1/2" W: 1-7/16" HWOS03-C010C		03-L907 FITS: 5/8" SQ. H: 3-1/4" HWOS03-L907		03-080 COLLAR 105-1/2" H: 1-3/4" W: 1-7/8" HWOS03-080
			03-180A AZTEC COLLAR 1/2" H: 1-7/8" W: 1-5/8" HWOS03-180A		03-248 COLLAR 751-1/2 H: 3" W: 1-1/2" HWOS03-248

BOBCO METALS

1-800-262-2605

www.bobcometal.com

Fax: 213- 748-5824 or email: sales@bobcometal.com



04-494A
HOLLOW BALL COLLAR –
ROUND 1/2"
1/2" RD.MTL.
BALL: 1-1/2" DIA.
HWOS04-494A



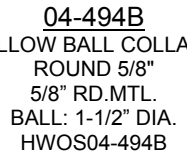
03-257
GROOVED-1/2"
1/2" RD. MTL.
H: 1-3/4"
W: 1-7/8"
HWOS03-257



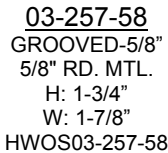
03-CI07C
NAPOLEAN 1/2"
1/2" RD. MTL.
H: 1-3/4"
W: 1-7/8"
HWOS03-CI07C



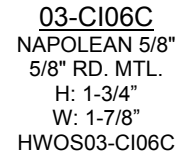
03-CI012C
FRENCH COLLAR 1/2"
1/2" RD. MTL.
H: 6-1/2"
W: 3.5"
HWOS03-CI012C



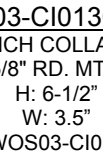
04-494B
HOLLOW BALL COLLAR –
ROUND 5/8"
5/8" RD.MTL.
BALL: 1-1/2" DIA.
HWOS04-494B



03-257-58
GROOVED-5/8"
5/8" RD. MTL.
H: 1-3/4"
W: 1-7/8"
HWOS03-257-58



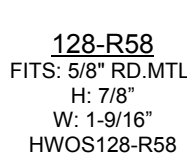
03-CI06C
NAPOLEAN 5/8"
5/8" RD. MTL.
H: 1-3/4"
W: 1-7/8"
HWOS03-CI06C



03-CI013C
FRENCH COLLAR 5/8"
5/8" RD. MTL.
H: 6-1/2"
W: 3.5"
HWOS03-CI013C



128-R12
FITS: 1/2" RD.MTL.
H: 7/8"
W: 1-9/16"
HWOS128-R12



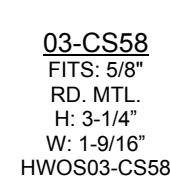
128-R58
FITS: 5/8" RD.MTL.
H: 7/8"
W: 1-9/16"
HWOS128-R58



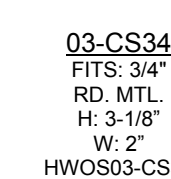
03-01RC-58
FITS: 5/8 RD.MTL.
H: 3/4"
W: 1-3/8"
HWOS0301RC58



03-CS12
FITS: 1/2"
RD. MTL.
H: 2-5/8"
W: 1-9/16"
HWOS03-CS12



03-CS58
FITS: 5/8"
RD. MTL.
H: 3-1/4"
W: 1-9/16"
HWOS03-CS58



03-CS34
FITS: 3/4"
RD. MTL.
H: 3-1/8"
W: 2"
HWOS03-CS34



03-298A
TALL ROUND-1/2"
H: 1-3/4"
W: 1-7/8"
HWOS03-298A



03-CI05C
FITS: 5/8" RD.MTL.
H: 7-1/4"
HWOS03-CI05C



03-CI56C
FITS: 5/8" RD.MTL.
H: 7-1/4"
HWOS03-CI56C



03-CI09C
FITS: 5/8" RD.MTL.
H: 6-1/4"
HWOS03-CI09C



03-CI016C
FITS: 3/4" RD.MTL.
H: 10-1/2"
HWOS03-CI016C

CAST IRON COLLARS

139



03-295
SHORT ROUND-1/2"
H: 1-3/4"
W: 1-7/8"
HWOS03-295



03-C27C
FITS: 5/8" RD.MTL.
H: 2"
W: 2"
HWOS03-C27C



03-CI07B-BASE
FITS: 5/8" RD.MTL.
H: 1-1/4"
HWOS03-CI07B



03-CI030
FITS: 5/8" RD.MTL.
H: 3-1/4"
HWOS03-CI030



03-CIREF5
FITS: 5/8" RD.MTL.
H: 3-1/4"
HWOS03-CIREF5



03-CI011C
FITS: 5/8" RD.MTL.
H: 3-3/4"
HWOS03-CI011C



03-CI015C
FITS: 5/8 RD.MTL.
H: 3-1/4"
HWOS03-CI015C

BUSHINGS HOLLOW STEEL



155/1
HOLE: 1/2"
H: 3-3/8"
W: 1-3/16"
WT: .15 lb
HWOSIND155/1



155/2
HOLE: 1/2"
H: 2-9/16"
W: 1-3/16"
WT: .15 lb
HWOSIND155/2



155/3
HOLE: 1/2"
H: 1-15/16"
W: 1-3/16"
WT: .15 lb
HWOSIND155/3



155/4
HOLE: 1/2"
H: 3/4"
W: 1-3/16"
WT: .10 lb
HWOSIND155/4



155/2
HOLE: 1/2"
H: 5-15/16"
W: 1-3/16"
WT: .15 lb
HWOSIND155/2

SOLID BRASS BUSHINGS



160/B/6
HOLE: 1-9/16"
H: 2-1/2"
W: 2-3/4"
WT: .7 lb
HWOSIND160/B/6



160/B/7
HOLE: 1-9/16"
H: 2-1/2"
W: 2-3/4"
WT: .7 lb
HWOSIND160/B/7



02-122
HASP TAB-SHORT
L: 1-1/2"
W: 1-1/2"
MAT: 9 GA.
HWOS02-122



02-124
HEAVY HASP TAB
L: 1-3/4"
W: 1-1/2"
MAT: 1-4" THICK
HWOS02-124



02-125
SHORT FLOWER
L: 2-5/8"
W: 2"
MAT: 11 GA.
HWOS02-125



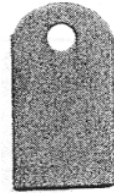
02-130
LONG FLOWER
L: 3-1/4"
W: 2" BASE: 1"
MAT: 11 GA.
HWOS02-130



02-135
BENT FLOWER #1
L: 3-1/4"
W: 2" BASE: 1-1/2"
MAT: 11 GA.
HWOS02-135



02-136
BENT FLOWER #2
L: 3-1/4"
W: 2-1/2" B: 1-1/2"
MAT: 11 GA.
HWOS02-136



02-120
HASP TAB LONG
L: 2-3/4"
W: 1-1/2"
MAT: 9 GA.
HWOS02-120



02-106
WELD TAB W/ SQ.
HOLE - FITS 1/2" SQ
L: 2-3/8" W: 1"
MAT: 11 GA.
HWOS02-106



02-305
TWO HOLE BASE
PLATE 1-1/2"
L: 3-1/2" W: 1-1/2"
MAT: 9 GA.
HWOS02-305



02-307
FANCY TWO HOLE
BASE PLATE 1-1/2"
L: 3-1/2" W: 1-1/2"
MAT: 9 GA.
HWOS02-307



02-100
SHORT TAB 1/8"
L: 1-5/8"
W: 1"
MAT'L: 11 GA.
HWOS02-100



02-110
LONG TAB 1/8"
L: 2-1/4"
W: 1"
MAT'L: 11 GA.
HWOS02-110



02-300
TWO HOLE BASE PLATE 1"
L: 3"
W: 1"
MAT'L: 11 GA.
HWOS02-300

02-105
SHORT CLIP 3/16"
L: 1-5/8"
W: 1"
MAT'L: 8 GA.
HWOS02-105

02-115
LONG CLIP 3/16"
L: 2-1/4"
W: 1"
MAT'L: 8 GA.
HWOS02-115

L-CLIP



02-199
L-CLIP 1" X 1"
H: 1"
W: 1"
B: 1-1/2"
HWOS02-199

02-201
L-CLIP 1" X 2"
H: 2"
W: 1"
B: 1-1/2"
HWOS02-201

02-200
L-CLIP 1" X 3"
H: 3"
W: 1"
B: 1-1/2"
HWOS02-200

02-205
L-CLIP 1-1/4" X 3"
H: 3"
W: 1-1/4"
B: 1-1/2"
HWOS02-205

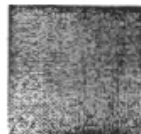
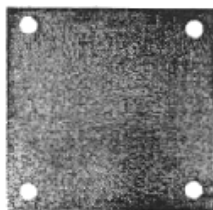
02-210
1-1/2" X 1-1/2"
H: 1-1/2"
W: 1-1/2"
B: 1-1/2"
HWOS02-210

02-215
L-CLIP 1-1/2" X 3"
H: 1-1/2"
W: 1-1/2"
B: 1-1/2"
HWOS02-215

02-220
L-CLIP 1-1/2" X 4"
H: 1-1/2"
W: 1-1/2"
B: 1-1/2"
HWOS02-220

STEEL BASE PLATES

SQUARE PLATE



ALSO AVAILABLE – NO HOLES

02-310 ←
BASE PLATE –
SQ. 3" X 3"
MAT: 8 GA.
4 HOLES FIT: 3/8"
HWOS02-310

02-320
BASE PLATE –
SQ. 5" X 5"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOS02-320

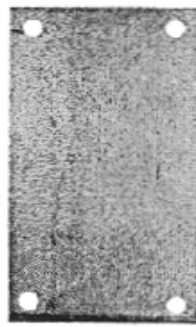
ROUNDED CORNERS
STOCKED ZINC PLATED →

02-315
BASE PLATE –
SQ. 4" X 4"
MAT: 8 GA.
4 HOLES FIT: 3/8"
HWOS02-315

02-335
BASE PLATE –
SQ. 8" X 8"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOS02-335

02-325
BASE PLATE –
SQ. 6" X 6"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOS02-325

RECTANGLE PLATE



ALSO AVAILABLE – NO HOLES

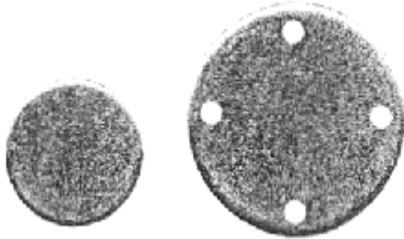
P-R316-24A
BASE PLATE –
REC 2" X 4"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOSP-R31624A

P-R316-36A
BASE PLATE –
REC. 3" X 6"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOSP-R31636A

P-R316-48A
BASE PLATE –
REC. 4" X 8"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOSP-R31648A

P-R316-510A
BASE PLATE –
REC. 5" X 10"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOSP-R316510A

P-R316-612A
BASE PLATE –
REC. 6" X 12"
MAT: 3/16
4 HOLES FIT: 3/8"
HWOSP-R316612A

ROUND PLATE

ALSO AVAILABLE – WITH HOLES
CUSTOM HOLES: FOR BIGGER
 FASTENERS

P-D18-3N
 BASE PLATE –
 ROUND 3"
 MAT: 1/8"
 NO HOLES
 HWOSP-D183N

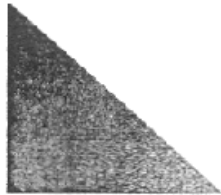
P-D18-5N
 BASE PLATE –
 ROUND 5"
 MAT: 1/8"
 NO HOLES
 HWOSP-D185N

P-D18-8N
 BASE PLATE –
 ROUND 8"
 MAT: 1/8"
 NO HOLES
 HWOSP-D188N

P-D18-4N
 BASE PLATE –
 ROUND 5"
 MAT: 1/8"
 NO HOLES
 HWOSP-D184N

P-D18-6N
 BASE PLATE –
 ROUND 6"
 MAT: 1/8"
 NO HOLES
 HWOSP-D186N

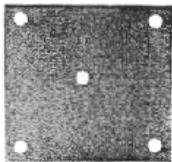
P-D18-12N
 BASE PLATE –
 ROUND 12"
 MAT: 1/8"
 NO HOLES
 HWOSP-D1812N

TRIANGLE PLATE

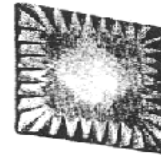
P-T18-2N
 BASE PLATE –
 TRI 2" X 2"
 MAT: 1/8"
 HWOSP-T182N

P-T18-3N
 BASE PLATE –
 TRI 3" X 3"
 MAT: 1/8"
 HWOSP-T183N

P-T18-4N
 BASE PLATE –
 TRI 4" X 4"
 MAT: 1/8"
 HWOSP-T184N



03-CI011C
 BASE PLATE –
 SQ. 4" X 4"
 5 HOLES FIT: 3/8"
 HWOS03-CI011C



181-6
 MAT: 5/16
 W: 4-3/4"
 H: 4-3/4"
 HWOS181-6

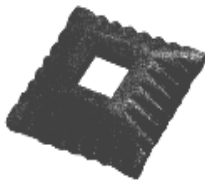


S101RMP-1
 4" X 4" 11 GA.
 1" SQ. HOLE
 HOLE SIZE: 7/16"
 HWOSS101RMP1

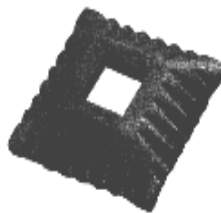
S101RMP1-1/4
 4" X 4" 11 GA.
 1-1/4" SQ. HOLE
 HOLE SIZE: 7/16"
 HWOSS101RMP1-1/4

S101RMP1-1/2
 4" X 4" 11 GA.
 1-1/2" SQ. HOLE
 HOLE SIZE: 7/16"
 HWOSS101RMP1-1/2

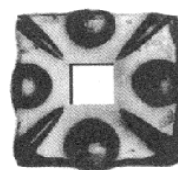
S101RMP-2
 5" X 5" 11 GA.
 2" SQ. HOLE
 HOLE SIZE: 7/16"
 HWOSS101RMP2



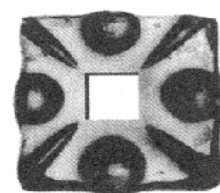
1408-2
 2-1/8" SQ.
 3/4" SQ. HOLE
 HWOS1408-2



1408-1
 3-1/8" SQ.
 5/16" SQ. HOLE
 HWOS1408-1

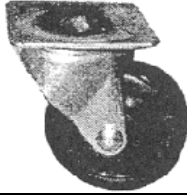


94-A-6S
 2" SQ.
 9/16" SQ. HOLE
 1/4" THICK
 HWOS94-A-6S



94-A-6S1
 3-3/16" SQ.
 1" SQ. HOLE
 5/16" THICK
 HWOS94-A-6S1

HARD RUBBER



90-928
SWIVEL CASTER
(WHEEL) DIAM: 2"
W: 1"
CAP: 125 lbs.
H: 2-7/16"
HWOS90-928

90-932
SWIVEL CASTER
(WHEEL) DIAM: 3"
W: 1-1/4"
CAP: 250 lbs.
H: 3-13/16"
HWOS90-932

90-940
SWIVEL CASTER
(WHEEL) DIAM: 4"
W: 1-1/2"
CAP: 300 lbs.
H: 5"
HWOS90-940

90-954
SWIVEL CASTER
(WHEEL) DIAM: 6"
W: 2"
CAP: 800 lbs.
H: 7-1/2"
HWOS90-954

HARD RUBBER



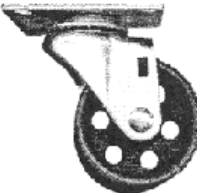
90-927
RIGID CASTER
(WHEEL) DIAM: 2"
W: 1"
CAP: 125 lbs.
H: 2-7/16"
HWOS90-927

90-931
RIGID CASTER
(WHEEL) DIAM: 3"
W: 1-1/4"
CAP: 250 lbs.
H: 3-13/16"
HWOS90-931

90-945
RIGID CASTER
(WHEEL) DIAM: 4"
W: 1-1/2"
CAP: 300 lbs.
H: 5"
HWOS90-945

90-956
RIGID CASTER
(WHEEL) DIAM: 6"
W: 2"
CAP: 800 lbs.
H: 7-1/2"
HWOS90-956

METAL (SEMI-STEEL)



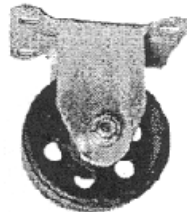
90-965-2
SWIVEL CASTER
(WHEEL) DIAM: 2"
W: 1"
CAP: 125 lbs.
H: 2-7/16"
HWOS90-965-2

90-965-3
SWIVEL CASTER
(WHEEL) DIAM: 3"
W: 1-1/4"
CAP: 250 lbs.
H: 3-13/16"
HWOS90-965-3

90-965-4
SWIVEL CASTER
(WHEEL) DIAM: 4"
W: 1-1/2"
CAP: 300 lbs.
H: 5"
HWOS90-965-4

90-965-6
SWIVEL CASTER
(WHEEL) DIAM: 6"
W: 2"
CAP: 800 lbs.
H: 7-1/2"
HWOS90-965-6

METAL (SEMI-STEEL)



90-966-2
RIGID CASTER
(WHEEL) DIAM: 2"
W: 1"
CAP: 125 lbs.
H: 2-7/16"
HWOS90-966-2

90-966-3
RIGID CASTER
(WHEEL) DIAM: 3"
W: 1-1/4"
CAP: 250 lbs.
H: 3-13/16"
HWOS90-966-3

90-966-4
RIGID CASTER
(WHEEL) DIAM: 4"
W: 1-1/2"
CAP: 300 lbs.
H: 5"
HWOS90-966-4

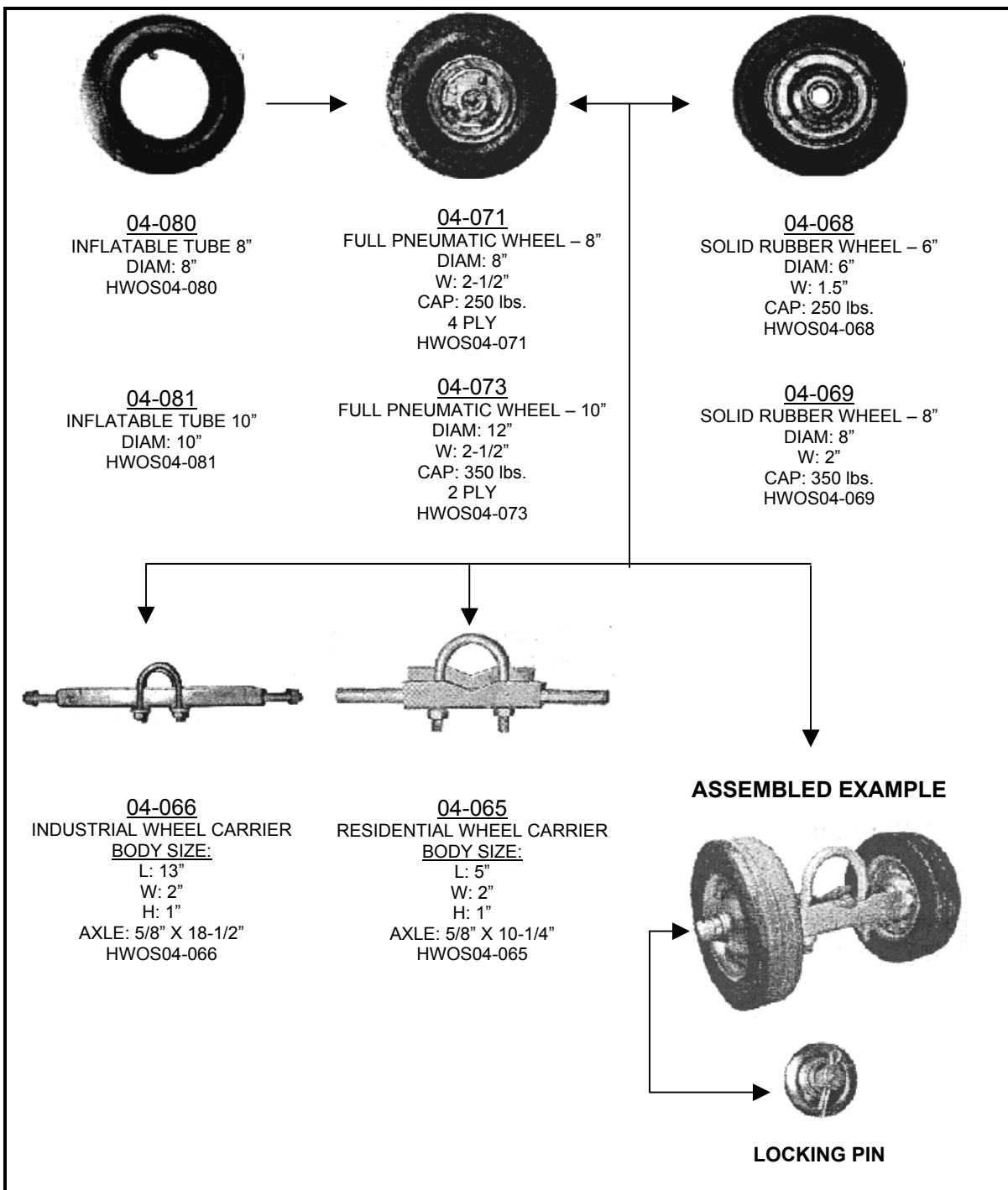
90-966-6
RIGID CASTER
(WHEEL) DIAM: 6"
W: 2"
CAP: 800 lbs.
H: 7-1/2"
HWOS90-966-6

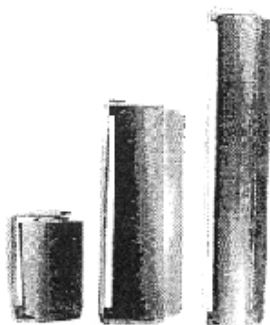


04-076
SWIVEL WHEEL –
FULL PNEUMATIC
(WHEEL) DIAM: 8"
W: 2.5"
CAP: 320 lbs.
H: 9-1/2"
4 PLY
HWOS04-079



04-077
RIGID WHEEL –
FULL PNEUMATIC
(WHEEL) DIAM: 8"
W: 2.5"
CAP: 320 lbs.
H: 9-1/2"
4 PLY
HWOS04-077



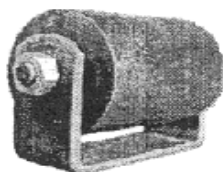


ROLLERS WITH WELDED
ENDS

04-505
RUBBER ROLLER 3"
WITH BEARING
9 GA. RUGGED
BRACKET
H: 3"
W: 2-3/8"
HWOS04-505

04-515
RUBBER ROLLER 6"
WITH BEARING
9 GA. RUGGED
BRACKET
H: 6"
W: 2-3/8"
HWOS04-515

04-525
RUBBER ROLLER 12"
WITH BEARING
9 GA. RUGGED
BRACKET
H: 12"
W: 2-3/8"
HWOS04-525



04-526A
RUBBER ROLLER 3"
WITH NUTS
AND THREADED ROD
HWOS04-526A

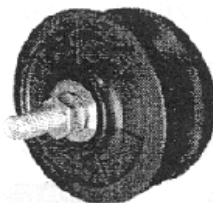
04-526B
RUBBER ROLLER 6"
WITH NUTS
AND THREADED ROD
HWOS04-526B



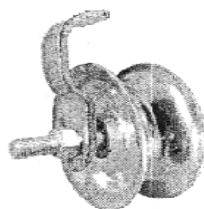
04-529
V GROOVE
WHEEL 3"
BEARINGS &
GREASE FITTINGS
DIAM: 3" X 1-1/2"
CAP: 500 lbs.
HWOS04-529

04-530
V GROOVE
WHEEL 4"
BEARINGS & GREASE
FITTINGS
DIAM: 4" X 1-1/2"
CAP: 800 lbs.
HWOS04-530

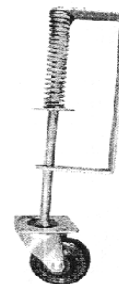
04-535
V GROOVE
WHEEL 6"
BEARINGS & GREASE
FITTINGS
DIAM: 6" X 2"
CAP: 1000 lbs.
HWOS04-535



04-550
V GROOVE NYLON WHEEL 4"
BEARINGS & GREASE FITTINGS
DIAM: 4" X 1-1/2"
CAP: 500 lbs.
HWOS04-550



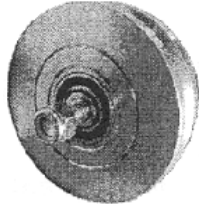
04-555
PIPE WHEEL 1-5/8"
FITS OVER 1-5/8" ROUND
DIAM: 5"
HWOS04-555



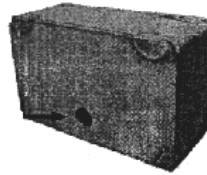
04-570
GATE SPRING ROLLER
W/ HEAVY DUTY SPRING
SWIVEL CASTER: 3"
H: 16-3/4"
HWOS04-570



04-528A
PREMIUM V WHEEL
W/ SEALED BALL
BEARINGS
GOLD ZINC PLATED
DIAM: 4" X 1-3/4"
AXLE: 1/2"
CAP: 3000 lbs.
HWOS04-528A



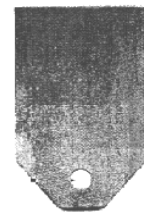
04-528B
PREMIUM V WHEEL
W/ SEALED BALL
BEARINGS
GOLD ZINC PLATED
DIAM: 6" X 1-3/4"
AXLE: 5/8"
CAP: 5000 lbs.
HWOS04-528B



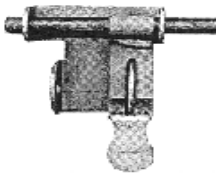
04-540
V GROOVE WHEEL
BOX 4"
H: 3"
W: 2-3/16"
L: 5-1/4"
9 GA. RUGGED
STEEL
HWOS04-540



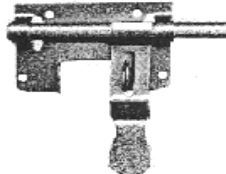
04-545
V GROOVE WHEEL
BOX 6"
H: 4-3/4"
W: 2-7/8"
L: 7"
9 GA. RUGGED
STEEL
HWOS04-545



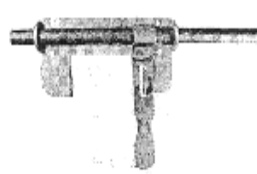
04-546
V GROOVE WELD
PLATE
HOLE: 9/16"
H: 6-1/2"
W: 4"
ITEM #:
HWOS04-546



04-170
SLIDE BOLT-1/2"
H: 3"
W: 3"
BOLT: 1/2" RD
THROW: 2-1/4"
FINISH: MILL
HWOS04-170



04-171
MEX SLIDE BOLT-
1/2" (Z)
H: 2-1/2"
W: 4"
BOLT: 1/2" RD
THROW: 1-7/8"
FINISH: ZINC
HWOS04-171



04-175
BIG SLIDE BOLT-5/8"
H: 3"
W: 6-1/4"
BOLT: 5/8" RD
THROW: 4-3/4"
FINISH: MILL
HWOS04-175



04-172
BIG SLIDE BOLT-5/8"
H: 3"
W: 6-1/4"
BOLT: 5/8" RD
THROW: 4-3/4"
FINISH: ZINC
HWOS04-172



04-181
BOLT BRACE-1/2"
FOR 1/2" RD. MTL.
W: 11/16"
L: 2-1/8"
HWOS04-181

04-182
BOLT BRACE-5/8"
FOR 5/8" RD. MTL.
W: 7/8"
L: 2-3/8"
HWOS04-182



04-145
GATE SPRING 9"
ADJUSTABLE
WITH SCREWS
FINISH: BLACK
HWOS04-145

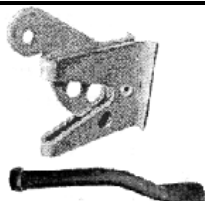
04-150
GATE SPRING 12"
ADJUSTABLE
WITH SCREWS
FINISH: BLACK
HWOS04-150



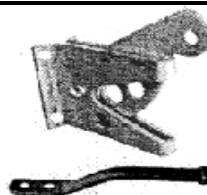
04-165
FANCY GATE
LATCH
FINISH: BLACK
HWOS04-165



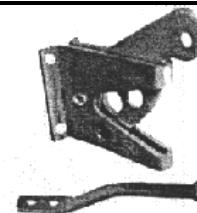
04-160
GATE LATCH
NO HOLE
H: 1-7/8"
L: 2-1/4"
B: 7/8"
FINISH: MILL
HWOS04-160



04-161
BIG GATE LATCH
NO HOLE
H: 3-1/8"
L: 2-3/4"
B: 1-5/16"
FINISH: MILL
HWOS04-161

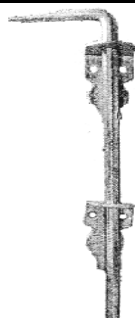


04-155
UNIVERSAL
GATE LATCH
W/ HOLES & PIN
H: 1-7/8"
L: 2-1/4"
B: 7/8"
FINISH: MILL
HWOS04-155



04-156
UNIVERSAL
GATE LATCH
W/ HOLES & PIN
H: 1-7/8"
L: 2-1/4"
B: 7/8"
FINISH: ZINC
HWOS04-156

04-158
BIG UNIVERSAL
GATE LATCH
W/ HOLES & PIN
H: 4"
L: 2-1/4"
FINISH: MILL
HWOS04-158



04-100
CANE BOLT 12"
L: 12"
BOLT: 1/2" RD.
FINISH: ZINC
HWOS04-100

04-105
CANE BOLT 18"
L: 18"
BOLT: 1/2" RD.
FINISH: ZINC
HWOS04-105

04-125
CANE BOLT 24"
L: 24"
BOLT: 5/8" RD.
FINISH: ZINC
HWOS04-125

04-126
CANE BOLT 36"
L: 36"
BOLT: 5/8" RD.
FINISH: ZINC
HWOS04-126



04-131M
LOCKING
CANE BOLT
H: 12"
W: 1-1/2"
BOLT: 1/2" SQ
THROW: 2-1/2"
FINISH: MILL
HWOS04-131M

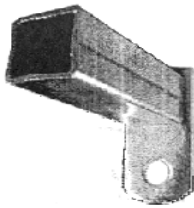
04-132M
LOCKING
CANE BOLT
H: 16-1/2"
W: 1-1/2"
BOLT: 1/2" SQ
THROW: 2-1/2"
FINISH: MILL
HWOS04-132M

04-133M
LOCKING
CANE BOLT
H: 21"
W: 1-1/2"
BOLT: 1/2" SQ
FINISH: MILL
HWOS04-133M

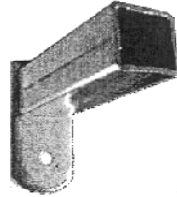


04-130
MECHANICAL
CANE BOLT
BOLT: 1/2" RD
BASE: 1" X 1/8"
H: 19"
FINISH: MILL
HWOS04-130

FENCE MOUNTING BRACKETS WITH TUBE ENDS



02-151
FMBS-SQ 1"
FITS: 1" SQ. TUBE (16 GA)
HOLE: FITS 3/8" FASTENERS
FINISH: ZINC PLATED
HWOS02-151



02-180
FMBS-SQ 1" (1/4" HOLE)
FITS: 1" SQ. TUBE (16 GA)
HOLE: FITS 1/4" FASTENERS
FINISH: ZINC PLATED
HWOS02-180

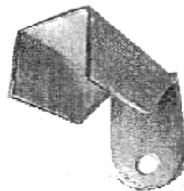


02-157
FMBS-RD 1-1/8"
FITS: 1-3/8" RD TUBE (16 GA)
HOLE: FITS 3/8" FASTENERS
FINISH: ZINC PLATED
HWOS02-157

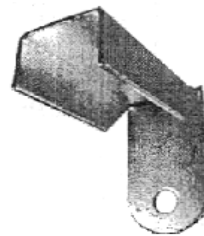
BIASABLE FENCE MOUNTING BRACKETS



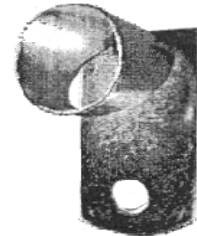
02-150
FMBS-BIAS SQ 1"
FITS: 1" SQ. TUBE (16 GA)
HOLE: FITS 3/8" FAST.
FINISH: ZINC PLATED
HWOS02-150



02-153
FMBS-BIAS SQ 1-1/2"
FITS: 1" SQ. TUBE
HOLE: FITS 3/8" FAST.
FINISH: ZINC PLATED
HWOS02-153



02-155
FMBS-BIAS
REC 1-1/2" X 1"
FITS: 1-1/2" REC. TUBE
HOLE: FITS 3/8" FAST.
FINISH: ZINC PLATED
HWOS02-155



02-152
FMBS-BIAS RD 1-1/8"
FITS: 1-3/8" RD. TUBE
HOLE: FITS 3/8" FAST.
FINISH: ZINC PLATED
HWOS02-152

F.M.B.S. SHOES



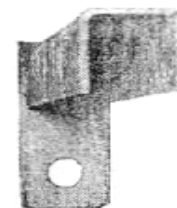
02-190
1 HOLE STEEL SHOE-1"
FITS: 1" SQ. INSIDE
HOLE: FITS 3/8"
PLATE: 2-3/4" X 1-1/2"
FINISH: MILL
HWOS02-190



02-191
2 HOLE STEEL SHOE-1"
FITS: 1" SQ. INSIDE
HOLE: FITS 3/8"
PLATE: 3-3/4" X 1-1/2"
FINISH: MILL
HWOS02-191



02-170
FMBS-CHANNEL 1" (UP)
FITS: 1" SQ. TUBE
HOLE: FITS 3/8"
FINISH: MILL
HWOS02-170



02-172
FMBS-CHANNEL 1" (DOWN)
FITS: 1" SQ. TUBE
HOLE: FITS 3/8"
FINISH: MILL
HWOS02-172

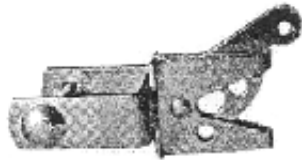
CLAMP-ON HINGES & HARDWARE



04-0071
CLAMP-ON LATCH
BAR 1"
FITS: 1" SQ TUBE
FINISH: ZINC
HWOS04-0071

04-0073
CLAMP-ON LATCH
BAR 1-1/2"
FITS: 1-1/2" SQ TUBE
FINISH: ZINC
HWOS04-0073

04-0075
CLAMP-ON LATCH
BAR 2"
FITS: 2" SQ TUBE
FINISH: ZINC
HWOS04-0075



04-0061
CLAMP-ON GATE
LATCH 1"
FITS: 1" SQ TUBE
FINISH: ZINC
HWOS04-0061

04-0063
CLAMP-ON GATE
LATCH 1-1/2"
FITS: 1-1/2" SQ TUBE
FINISH: ZINC
HWOS04-0063

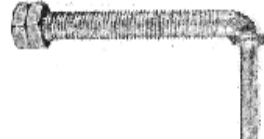
04-0065
CLAMP-ON GATE
LATCH 2"
FITS: 2" SQ TUBE
FINISH: ZINC
HWOS04-0065



04-135
J HANGER BOLT-ZINC
1/2" X 4-1/2" (1/2" BOLT)
HWOS04-135



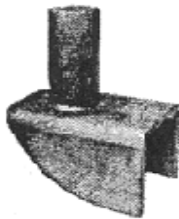
04-140
J HANGER BOLT-ZINC
5/8" X 4-1/2" (5/8" BOLT)
HWOS04-140



04-137
J HANGER BOLT-ZINC
LOW SHOULDER
1/2" X 4-1/2" (1/2" BOLT)
HWOS04-137



04-143
J HANGER BOLT-ZINC
FOR MASONRY OR
WOOD WORK
1/2" X 4-1/2" (1/2" BOLT)
HWOS04-143



02-235
BATWING MALE
W: 1"
L: 2"
PIN: 1/2"
HWOS02-235

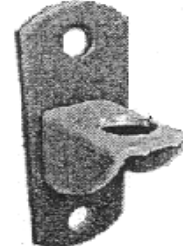


02-230
BATWING FEMALE 1/2"
HOLE: FITS 1/2" RD MTL.
W: 1"
L: 2"
HWOS02-230

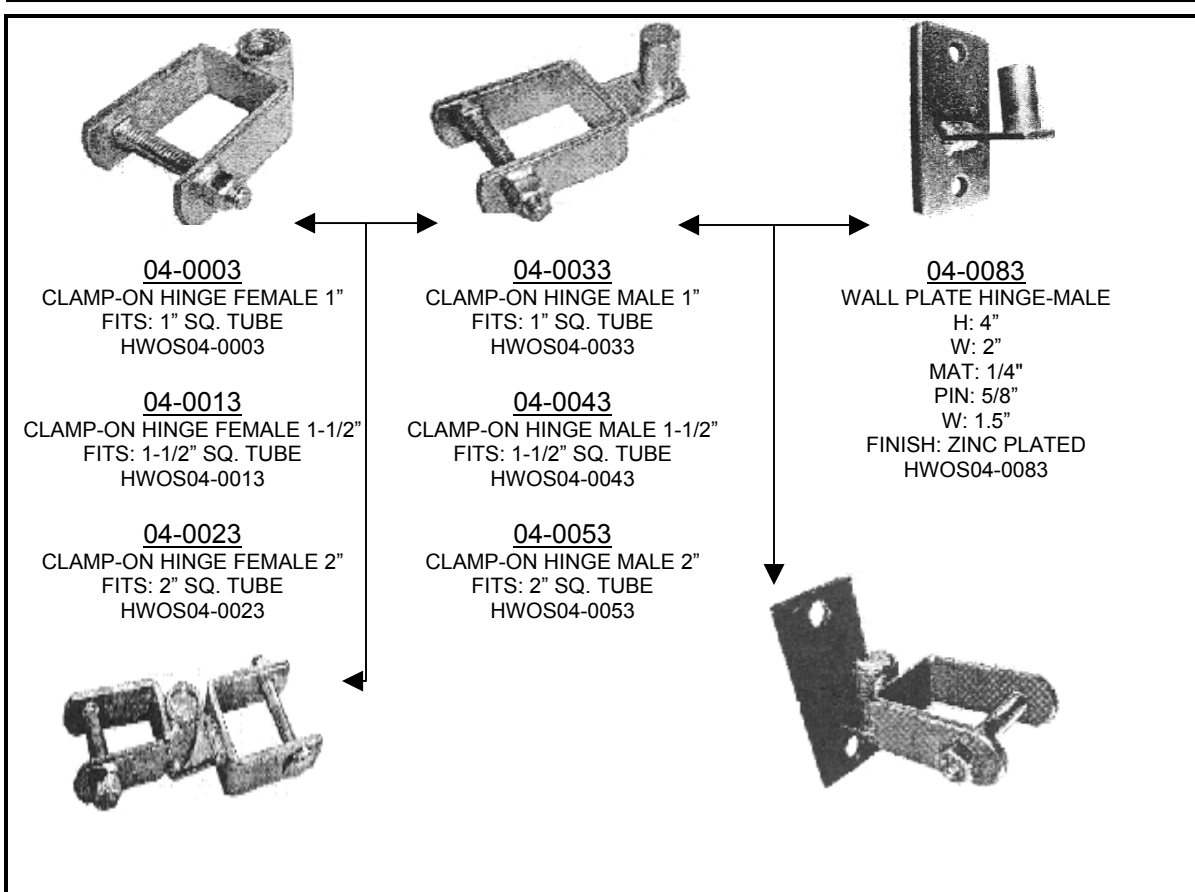


BAT WING HINGES
MILL FINISH

02-232
BATWING FEMALE 5/8"
HOLE: FITS 5/8" RD MTL.
OR 5/8" JBOLTS
W: 1"
L: 2"
HWOS02-232



02-359
BASE PLATE HINGE
HINGE HOLE: 1/2" RD MTL.
SCREW HOLE: FITS 3/8"
W: 1-1/2"
H: 3-1/2"
HWOS02-359



BUTT HINGES

STANDARD BUTT HINGES



05-200
BUTT HINGE
2" X 2"
LEAF WIDTH: 3/4"
H: 2"
W: 2"
HWOS05-200

05-210
BUTT HINGE
2-1/4" X 3-1/2"
LEAF WIDTH: 1"
H: 2-1/4"
W: 3-1/2"
HWOS05-210

05-215
BUTT HINGE
3-1/2" X 3-1/2"
LEAF W: 1-1/2"
H: 3-1/2"
W: 3-1/2"
HWOS05-215

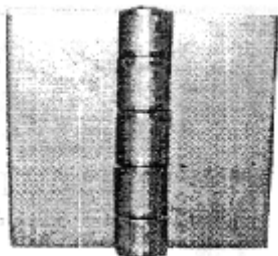
05-180
BUTT HINGE
3" X 1-3/4"
LEAF WIDTH: 3/4"
H: 3"
W: 1-3/4"
HWOS05-180

05-205
BUTT HINGE
3" X 3"
LEAF W: 1-1/4"
H: 3"
W: 3"
HWOS05-205

05-2154
BUTT HINGE
4" X 4"
LEAF W: 1-3/4"
H: 4"
W: 4"
HWOS05-2154

BUTT HINGES

HEAVY DUTY BUTT HINGES



05-150
HD HINGE 3" X 3"
SWAGGED
HWOS05-150

05-155
HD HINGE 4" X 4"
SWAGGED
HWOS05-155

05-160
HD HINGE 5" X 5"
SWAGGED
HWOS05-160

05-165
HD HINGE 6" X 6"
SWAGGED
HWOS05-165

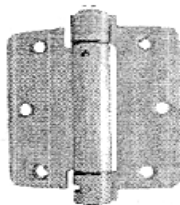
05-151
HD HINGE 3" X 3"
NON SWAGGED
HINGE GAP: 1/2"
HWOS05-151

05-156
HD HINGE 4" X 4"
NON SWAGGED
HINGE GAP: 5/8"
HWOS05-156

05-161
HD HINGE 5" X 5"
NON SWAGGED
HINGE GAP: 3/4"
HWOS05-161

05-166
HD HINGE 6" X 6"
NON SWAGGED
HINGE GAP: 7/8"
HWOS05-166

SELF CLOSING SPRING HINGES

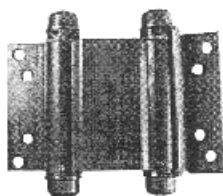


05-005
SINGLE ACTION
3-1/2" X 3-1/2"
HWOS05-005

05-006
SINGLE ACTION
4" X 4"
HWOS05-006

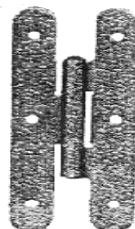
05-007
SINGLE ACTION
4-1/2" X 4-1/2"
HWOS05-007

SELF CLOSING SPRING HINGES



05-010
DOUBLE ACTION
4" X 4"
HWOS05-010

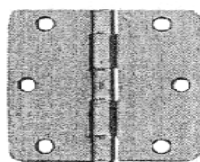
H HINGES



05-130
H HINGE MILL
FINISH: RAW
H: 7"
W: 2-5/8"
HWOS05-130

05-120
H HINGE BLACK
FINISH: BLACK
H: 7"
W: 2-5/8"
HWOS05-120

DUAL BRASS & CHROME PLATED



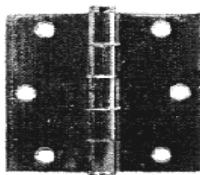
05-216
DUAL BRASS
3.5" X 3.5"
HWOS05-216

05-218
DUAL BRASS
4" X 4"
HWOS05-218

05-219
BRUSHED
CHROME
3.5" X 3.5"
HWOS05-219

05-219A
BRUSHED CHROME
4" X 4"
HWOS05-219A

SOLID POLISH BRASS & POLISH CHROME



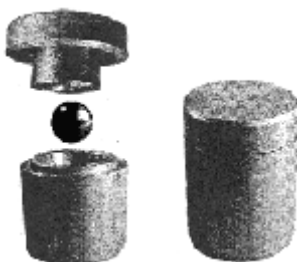
05-015
POLISH BRASS
3.5" X 3.5"
HWOS05-015

05-016
POLISH BRASS
4" X 4"
HWOS05-016

05-017
POLISH CHROME
3.5" X 3.5"
HWOS05-017

05-018
POLISH CHROME
4" X 4"
HWOS05-018

STEEL & BARREL HINGES

BARREL BASE HINGES
WITH GREASE & BEARING

05-140-1
BARREL BASE
HINGES 1"
W: 1"
H: 1-5/8"
HWOS05-140-1

05-140-114
BARREL BASE
HINGES 1-1/4"
W: 1-1/4"
H: 2"
HWOS05-140-114

05-140-112
BARREL BASE
HINGES 1-1/2"
W: 1-1/2"
H: 2"
HWOS05-140-112

05-140-2
BARREL BASE
HINGES 2"
W: 2"
H: 2-2/16"
HWOS05-140-2

BULLET PIN STYLE

05-100B
BULLET BARREL
HINGE (5/8") - 2"
H: 2"
W: 5/8"
HWOS05-100B



05-105B
BULLET BARREL
HINGE (3/4") - 3"
H: 3"
W: 3/4"
HWOS05-105B

BARREL HINGES**STYLE 1**

05-110
BARREL HINGE 5"
DIAM: 1"
H: 5"
PIN: 5/8"
PLATE (W): 1-1/2"
L: 2"
GAP: 1-1/2"
HWOS05-110

STYLE 2

05-118
BARREL HINGE 5"
DIAM: 1"
H: 5"
PIN: 5/8"
PLATE (W): 1"
L: 2"
GAP: 1-3/4"
HWOS05-118

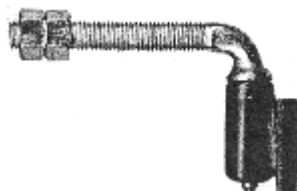
**W/ STAINLESS
STEEL PIN**

05-118S
BARREL HINGE SS-
5"
HWOS05-118S

05-119S
BARREL HINGE SS-
7"
HWOS05-119S

05-115
BARREL HINGE 7"
DIAM: 1-1/4"
H: 7"
PIN: 3/4"
PLATE (W): 1-1/2"
L: 2-3/4"
GAP: 1-3/4"
HWOS05-115

05-119
BARREL HINGE 7"
DIAM: 1-3/8"
L: 7"
PIN: 3/4"
PLATE (W): 1-1/2"
L: 3"
GAP: 2-1/8"
HWOS05-119

ADJUSTABLE BARREL HINGES

05-107
ADJ. HINGE 5"
J BOLT: 5/8" STEEL
HINGE GAP: 2"
LENGTH: 5"
HWOS05-107

05-108
ADJ. HINGE 7"
J BOLT: 3/4" STEEL
HINGE GAP: 3-1/2"
LENGTH: 7"
HWOS05-108

STEEL & BARREL HINGES

STRAIGHT PIN STYLE



05-099A
BARREL HINGE
(3/8") - 2"
DIAM: 3/8"
H: 2"
PIN: 1/4"
HWOS05-099A

05-100
BARREL HINGE
(5/8") - 2"
DIAM: 5/8"
H: 2"
PIN: 7/16"
HWOS05-100

05-105
BARREL HINGE
(3/4") - 3"
DIAM: 3/4"
H: 3"
PIN: 1/2"
HWOS05-105



05-099B
BARREL HINGE
(1/2") - 2-1/4"
DIAM: 1/2"
H: 2-1/4"
PIN: 5/16"
HWOS05-099B

05-103
BARREL HINGE
(5/8") - 2-1/2"
DIAM: 5/8"
H: 2-1/2"
PIN: 7/16"
HWOS05-103

05-116
BARREL HINGE
(1") - 5"
DIAM: 1"
H: 5"
PIN: 5/8"
HWOS05-116

BIG BARREL HINGE NO PLATES



05-116A
BIG BARREL HINGE
7" W/ BEARING
H: 7"
W: 1-1/2"
PIN: 3/4" STEEL
HWOS05-116A

05-117
BIG BARREL HINGE
9" W/ BEARING
H: 9"
W: 2"
PIN: 1-1/4" STEEL
HWOS05-117

ANGLE EDGE HINGES



05-145-2
L: 2"
PIN DIAM: 3/16"
DIAM: 5/16"
HWOS05-145-2



05-145-3316
L: 3-3/16"
PIN DIAM: 5/16"
DIAM: 1/2"
HWOS05-145-3316



05-145-4
L: 4"
PIN DIAM: 13/32"
DIAM: 5/8"
HWOS05-145-4



05-145-514
L: 5-1/4"
PIN DIAM: 15/32"
DIAM: 23/32"
HWOS05-145-514



05-145-7
L: 7"
PIN DIAM: 9/16"
DIAM: 3/4"
HWOS05-145-7

STEEL BLOCK HINGES WITH BEARING

RECTANGULAR

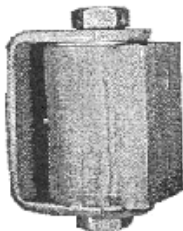


05-085
REC BLOCK
HINGE - 5"
SIZE: 1" X 1-1/4"
H: 5"
PIN: 5/8" STEEL
GAP: 1-1/2"
HWOS05-085



05-087
REC BLOCK
HINGE - 7"
SIZE: 1-3/4" X 1-1/4"
H: 7"
PIN: 3/4" STEEL
GAP: 2-1/8"
HWOS05-087

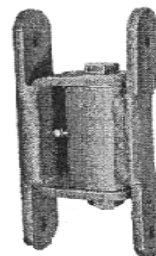
STEEL & BARREL HINGES



05-052
SMALL (FLAT BASED)
H: 3-1/2"
W: 1-1/2"
GAP: 2-1/2"
CAP: 400 lbs.
HWOS05-052



05-056
SMALL (ROUND BASED)
H: 3-1/2"
W: 1-1/2"
GAP: 3"
CAP: 400 lbs.
HWOS05-056



05-059
BOLT-ON HINGE
LARGE (FLAT BASED)
H: 8-1/4"
W: 2"
GAP: 3-3/4"
CAP: 1200 lbs. PER PAIR
HWOS05-059

05-050
LARGE (FLAT BASED)
H: 4"
W: 2"
GAP: 3-5/16"
CAP: 1200 lbs.
HWOS05-050

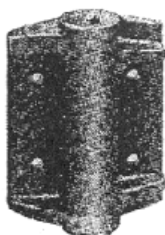
05-054
LARGE (ROUND BASED)
H: 4"
W: 2"
GAP: 3-5/16"
CAP: 1200 lbs.
HWOS05-054

GUARDIAN HINGES

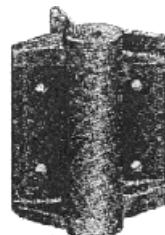
*PRECISION CRAFTED FROM FINE
HEAVY DUTY STEEL.
HINGES ARE PRIME COATED.*

TRU-CLOSE®

- Made from special glass-fiber reinforced polymer materials
- Stainless steel spring and bolts
- No rust! No binding!
- Quick & Easy tension adjustment
- No welding required



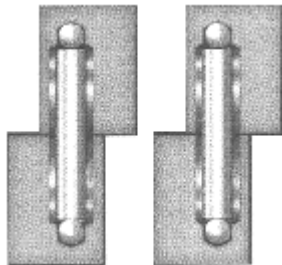
05-040
HINGE TCHD1A
NO LEG
5" X 3-9/16"
HWOS05-040



05-042
HINGE TCHD1AL1
WITH LEG
5" X 3-9/16"
HWOS05-042

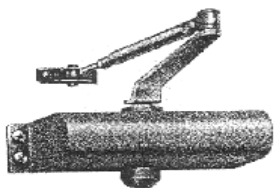
ELITE
ACCESS SYSTEMS INC.

- Maintenance Free
- Bronze Brushings
- 3/4" Ball Bearing Top & Bottom
- 3/4" Stainless Steel Floating Pin
- Minimum Gate Frame 1-1/2"
- One Year Warranty



05-131A
POWER HINGE
DIM: 1-1/2" X 2-1/4"
X 6-1/4"
HINGE GAP: 3"
WIDTH: 1-1/2"
CAP: 3000 lbs.
HWOS05-131A

HYDRAULIC DOOR CLOSERS & MOUNTING PLATES



ALUMINUM FINISH

650 SERIES

- Two Adjustment Valves. Closing & Latching Speeds Set By Separate Regulating Valve.
- Adjustable after installation.
- Top Jamb or Parallel Installation
- For Interior Door Width Sizes 36", 42", 48" and 54".

15-066
652 DOOR CLOSER
36"
HWOS15-066

15-066A
653 DOOR CLOSER
42"
HWOS15-066A

15-066B
654 DOOR CLOSER
48"
HWOS15-066B

15-066C
655 DOOR CLOSER
54"
HWOS15-066C



15-066P
BODY PLATE
MILL FINISH
FOR 652 & 653
SIZE: 8-7/8" X 2"
HWOS15-066P

15-068
BODY PLATE
MILL FINISH
FOR 654 & 655
SIZE: 9-13/16" X 2"
HWOS15-068



15-069
ARM PLATE
HWOS15-069



15-862
BRASS FLUSH BOLT
H: 6-3/4"
W: 1"
HWOS15-862



15-865
CELL GATE &
DOOR CLOSER
HWOS15-865

- Easily Installed.
- Hydraulic Action-Not On Air Closer
- Installed On Side, Top Middle or Bottom of Right or Left Hand Gates/Doors.
- Self Contained-No Strain on Hinges
- Adjusting Screws On Top Regulates Closing Speed.



15-850
PNEUMATIC
DOOR CLOSER -
BLACK
HWOS15-850

15-852
PNEUMATIC
DOOR CLOSER -
WHITE
HWOS15-852

- For Wood & Metal Doors.
- Made For Outswing Doors.
- 90 Degree Opening.

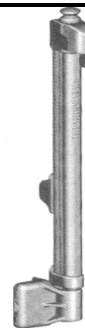
MAGNA-LATCH

MAGNETIC SAFETY GATE LATCH

- Magnetically Triggered (No Mechanical Jamming)
- Key Lockable (2 Models)
- Quick & Easy To Install
- Adapts New/Existing Gates
- Tested 400,000 cycles

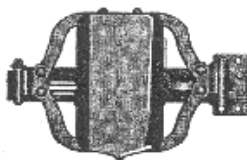


05-027
MAGNA LATCH –
SHORT VERTICAL PULL
FINISH: BLACK/WHITE
HWOS05-027



15-025
MAGNA LATCH –
TALL TOP PULL
FINISH: BLACK/WHITE
HWOS05-025

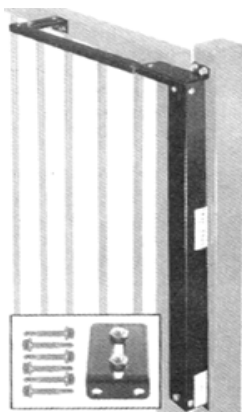
Kent-Slam®



15-864
THE KANT SLAM
H: 7-1/2"
W: 13"
DEPTH: 2-1/2"
FINISH: BLACK
HWOS15-864

- Adjustable Closing Speed
- Spring & Hydraulic Action
- Does Not Required Overhead Jamb
- Quick & Easy Installation
- One Year Warranty

Shur-Shut®



15-1100R
HYDRAULIC GATE
CLOSER
RIGHT HANDED
HWOS15-1100R

15-1101L
HYDRAULIC GATE
CLOSER
LEFT HANDED
HWOS15-1101L

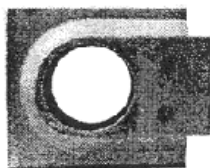
- Mounts On the Push Side Of The Door
- Available For Right Or Left Hinged Gates
- Adjustable Door Speed
- Powder Coated Finish (Black)
- Installs In Minutes With Only 6 Self-Taping Screws.
- 24" Tall X 1-1/2" sq. body, 16" arm
- 150 lbs Max. Gate
- One Year Warranty

SINGLE HOLE LOCK BOX – 14 GAUGE



**SINGLE HOLE
BUBBLE**

01-100
SINGLE HOLE
BUBBLE 1-1/4"
W: 1-1/4"
H: 3-1/2"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-100

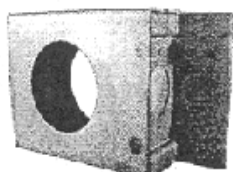


**SINGLE RAISED
GUARD**

01-103
SINGLE HOLE SLIM
1" (W/RAISED FACE)
STRAIGHT GUARD
W: 1"
H: 4-1/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-103

01-105
SINGLE HOLE SLIM
1" (W/RAISED FACE)
INDENTED GUARD
W: 1"
H: 4-1/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-105

SINGLE HOLE LOCK BOX – 14 GAUGE



SINGLE FLAT

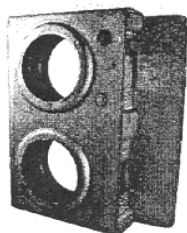
01-101
SINGLE HOLE
FLAT 1"
W: 1"
H: 3-1/2"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-101

01-115
SINGLE HOLE
FLAT 1-5/16"
W: 1-5/16"
H: 3-1/2"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-115

01-117
SINGLE HOLE
FLAT 1-1/2"
W: 1-1/2"
H: 3-1/2"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-117

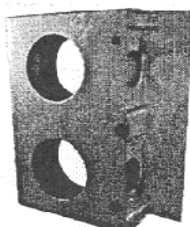
01-120
SINGLE HOLE
FLAT 1-5/8"
W: 1-5/8"
H: 3-1/2"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-120

DOUBLE HOLE LOCK BOX – 14 GAUGE



**DOUBLE HOLE
BUBBLE**

01-150
DOUBLE HOLE
BUBBLE 1-1/4"
RAISED BOX
W: 1-1/4"
H: 6-3/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-150

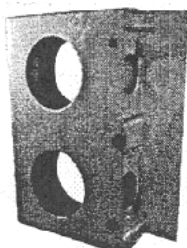


**DOUBLE RAISED
GUARD**

01-154
DOUBLE HOLE SLIM
1" (W/RAISED FACE)
STRAIGHT GUARD
W: 1"
H: 6-3/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-154

01-155
DOUBLE HOLE SLIM
1" (W/RAISED FACE)
INDENTED GUARD
W: 1"
H: 6-3/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-155

DOUBLE HOLE LOCK BOX – 14 GAUGE



DOUBLE FLAT

01-153
DOUBLE HOLE
FLAT 1"
W: 1"
H: 6-3/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-153

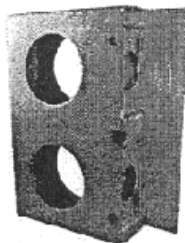
01-165
DOUBLE HOLE
FLAT 1-5/16"
W: 1-5/16"
H: 6-3/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-165

01-167
DOUBLE HOLE
FLAT 1-1/2"
W: 1-1/2"
H: 6-3/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-167

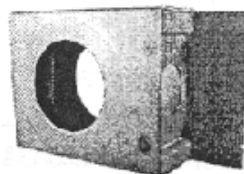
01-170
DOUBLE HOLE
FLAT 1-5/8"
W: 1-5/8"
H: 6-3/4"
L: 4-1/2"
BACKSET: 2-3/8"
HOLE: 2-1/8"
HWOS01-170



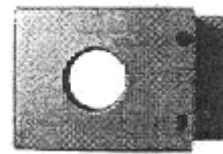
01-192
HOOK LOCK BOX
W: 2"
H: 7"
HWOS01-192



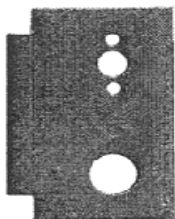
01-169
DOUBLE HOLE FLAT
1-1/2"
W: 1-1/2"
H: 3-1/2"
L: 4-1/2"
BACKSET: 2-3/4"
HOLE: 2-1/8"
HWOS01-169



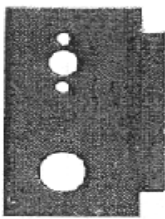
01-119
SINGLE HOLE FLAT
1-1/2"
W: 1"
H: 3-1/2"
L: 4-1/2"
BACKSET: 2-3/4"
HOLE: 2-1/8"
HWOS01-119



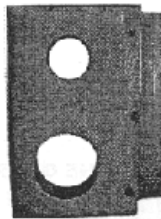
01-122
SINGLE LOCK BOX 1-1/2"
SHLAGE LOCKS FIT -
1-1/2" OPENING
W: 1-1/2"
H: 3-3/8"
L: 4-1/4"
SM. HOLE: 1-1/2"
HWOS01-122



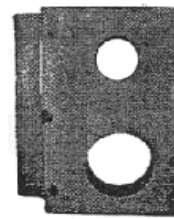
01-180
MORTISE LOCK BOX 1"
LEFT SIDE
H: 7-3/8"
W: 4"
HWOS01-180



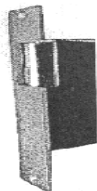
01-175
MORTISE LOCK BOX 1"
RIGHT SIDE
H: 7-3/8"
W: 4"
HWOS01-175



01-171
DOUBLE HOLE FLAT
1-5/16"
LEFT SIDE
W: 1-1/2"
H: 6-7/8"
L: 4-1/4"
BACKSET: 2-3/8"
BIG HOLE: 2-1/8"
SMALL HOLE: 1-1/2"
HWOS01-171



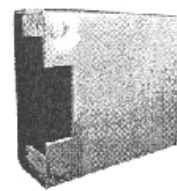
01-172
DOUBLE HOLE FLAT
1-5/16"
RIGHT SIDE
W: 1-1/2"
H: 6-7/8"
L: 4-1/4"
BACKSET: 2-3/8"
BIG HOLE: 2-1/8"
SMALL HOLE: 1-1/2"
HWOS01-172



01-126
TRINE ELECTRIC STRIKE 001
HWOS01-126



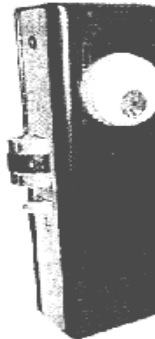
01-127
TRINE ELECTRIC STRIKE 001
FOR STRIKE BOX 1-1/2"
HWOS01-127



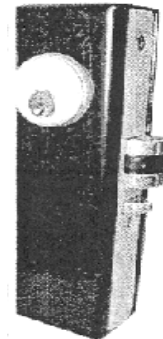
01-125
ELECTRIC STRIKE BOX 1-1/2"
W: 1-1/2"
H: 3-1/2"
L: 4-1/2"
HWOS01-125

HOOK LOCKS

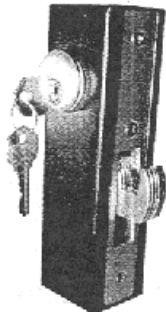
- For Swinging Doors
- For Sliding Doors or Both
- Cylinder Finish: Chrome
- Body Finish: Black
- Key Alike in 12
- Height: 7"
- Deep: 2"
- Wide: 1-3/4"



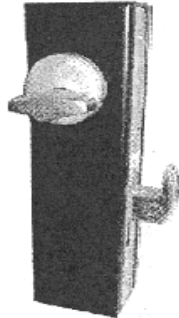
01-194
HOOK LATCH LOCK
LEFT SIDE
HWOS01-194



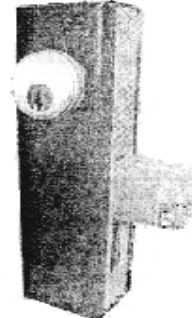
01-195
HOOK LATCH LOCK
RIGHT SIDE
HWOS01-195



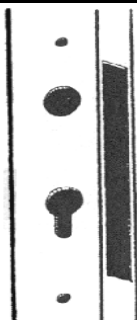
01-190
HOOK LOCK - DC
DOUBLE CYLINDER
HWOS01-190



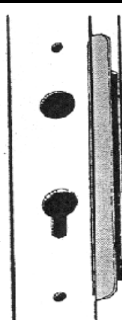
01-191
HOOK LOCK - SC
SINGLE CYLINDER
THUMB TURN
HWOS01-191



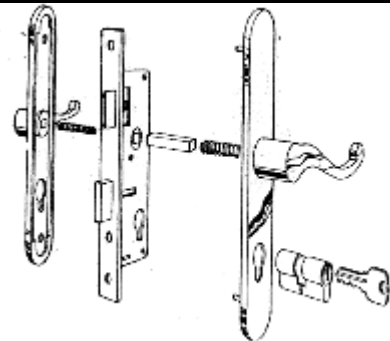
01-125
HOOK LOCK - DC
DOUBLE CYLINDER
FOR SWINGING DOORS
HWOS01-125



15-LTS6
PRE-PUNCHED TUBE
TUBE: 1" X 2"
LENGTH: 79-1/4"
NO GUARD
HWOS15-LTS6



15-LGS
PRE-PUNCHED TUBE
WELD ON GUARD
MILL FINISH
HWOS15-LGS



15-SLH123
DELUXE THINLINE LOCKSET
SOLID BRASS CYLINDERS
DEADBOLT THROW: 5/8"
LATCH: 1/2"
HWOS15-SLH123

Kwikset
Security

ALSO AVAILABLE IN US 5 FINISHES



KWIKSET 660
SINGLE CYLINDER
DEADBOLT
(KEYED 1 SIDE)
HWDHKWIKSET660 US3



KWIKSET 665
DOUBLE CYLINDER
DEADBOLT
(KEYED BOTH SIDES)
HWDHKWIKSET665 US3



KWIKSET 663
ONE-SIDED
DEADBOLT
HWOS15-LTS6
HWDHKWIKSET663 US3



KWIKSET 667
ONE-SIDED
DEADBOLT
WITH EXTERIOR TRIM
HWDHKWIKSET667 US3

Kwikset
Maximum
 SECURITY

ALSO AVAILABLE IN US 5 FINISHES



KWIKSET 588
SINGLE CYLINDER
GATE LATCH
HWDHKWIKSET588 US3



KWIKSET 589
DOUBLE CYLINDER
GATE LATCH
HWDHKWIKSET589 US3

Kwikset
UltraMax
 SECURITY

ALSO AVAILABLE IN US 5 FINISHES



KWIKSET 780
SINGLE CYLINDER
DEADBOLT
(KEYED 1 SIDE)
HWDHKWIKSET780 US3



KWIKSET 785
DOUBLE CYLINDER
DEADBOLT
(KEYED BOTH SIDES)
HWDHKWIKSET785 US3



KWIKSET 980
SINGLE CYLINDER
DEADBOLT
(KEYED 1 SIDE)
HWDHKWIKSET980 US3



KWIKSET 985
DOUBLE CYLINDER
DEADBOLT
(KEYED BOTH SIDES)
HWDHKWIKSET985 US3

Kwikset
 THE BEAUTY OF STRENGTH™

MORE KNOBS AND DEADBOLT MODELS ARE AVAILABLE.



200DL DELTA
LEVERSET
BEDROOM/CLOSET
PASSAGE LEVERSET
HWDHKWI200DL US-3



488DL DELTA
LEVER
INACTIVE HALF-DUMMY
LEVER
HWDHKWI488DL



300DL DELTA
LEVERSET
BEDROOM/BATH
PRIVACY LEVERSET
HWDHKWI300DL US-3



405DL DELTA
LEVERSET
DELTA KEYED ENTRY
LEVERSET
HWDHKWI405DL US-3



200DNL DORIAN
LEVERSET
BEDROOM/CLOSET
PASSAGE LEVERSET
HWDHKWI200DNL US-3



488DNL DORIAN
LEVER
INACTIVE HALF-DUMMY
LEVER
HWDHKWI488DNL



300DNL DORIAN
LEVERSET
BEDROOM/BATH
PRIVACY LEVERSET
HWDHKWI300DNL US3



405DNL DORIAN
LEVERSET
DORIAN KEYED ENTRY
LEVERSET
HWDHKWI405DNL US3



200LL LIDO
LEVERSET
BEDROOM/CLOSET
PASSAGE LEVERSET
HWDHKWI200LL US3



488LL LIDO
LEVER
INACTIVE HALF-DUMMY
LEVER
HWDHKWI488LL



300LL LIDO
LEVERSET
BEDROOM/BATH
PRIVACY LEVERSET
HWDHKWI300LL US3



405LL LIDO
LEVERSET
LIDO KEYED ENTRY
LEVERSET
HWDHKWI405LL US3



200SNL SAXTON
LEVERSET
BEDROOM/CLOSET
PASSAGE LEVERSET
HWDHKWI200SNL US3



488SNL SAXTON
LEVER
INACTIVE HALF-DUMMY
LEVER
HWDHKWI488SNL



300SNL SAXTON
LEVERSET
BEDROOM/BATH
PRIVACY LEVERSET
HWDHKWI300SNL US3



405SNL SAXTON
LEVERSET
DELTA KEYED ENTRY
LEVERSET
HWDHKWI405SNL US3



MORE LEVERS AND HANDLESET MODELS ARE AVAILABLE.



50
AMERICAN LOCK
STEEL BODY
CYLINDER: 5 PIN
HWDHAME50



700
AMERICAN LOCK
STEEL BODY
CYLINDER: 5, 6 PIN
HWDHAME700



780
AMERICAN LOCK
STEEL BODY
CYLINDER: 6 PIN
HWDHAME780



790
AMERICAN LOCK
STEEL BODY
CYLINDER: 6 PIN
HWDHAME790



5100
AMERICAN LOCK
STEEL BODY
CYLINDER: 5,6 PIN
HWDHAME5100



5200
AMERICAN LOCK
STEEL BODY
CYLINDER: 5,6 PIN
HWDHAME5200



5260
AMERICAN LOCK
STEEL BODY
CYLINDER: 5, 6 PIN
HWDHAME5260



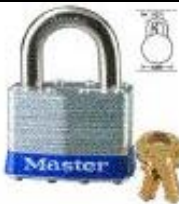
7200
AMERICAN LOCK
STEEL BODY
7 PIN TUBULAR
HWDHAME7200



7260
AMERICAN LOCK
STEEL BODY
CYLINDER: 6 PIN
HWDHAME7260



3800
AMERICAN LOCK
STEEL BODY
SCHLAGE A
HWDHAME3800



NO. 1D
MASTER LOCK
KEYED DIFFERENT
4 PIN CYLINDER
HWMMASTER1D



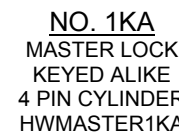
NO. 5D
MASTER LOCK
KEYED DIFFERENT
4 PIN CYLINDER
HWMMASTER5D



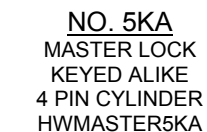
NO. 9D
MASTER LOCK
KEYED DIFFERENT
4 PIN CYLINDER
HWMMASTER9D



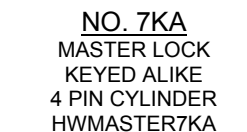
NO. 10D
MASTER LOCK
KEYED DIFFERENT
1" WIDE STEEL BODY
HWMMASTER10D



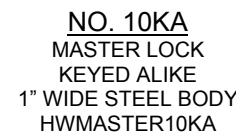
NO. 1KA
MASTER LOCK
KEYED ALIKE
4 PIN CYLINDER
HWMMASTER1KA



NO. 5KA
MASTER LOCK
KEYED ALIKE
4 PIN CYLINDER
HWMMASTER5KA



NO. 7KA
MASTER LOCK
KEYED ALIKE
4 PIN CYLINDER
HWMMASTER7KA



NO. 10KA
MASTER LOCK
KEYED ALIKE
1" WIDE STEEL BODY
HWMMASTER10KA

**AMERICAN
LOCK**

Master Lock

OTHER MODELS ARE ALSO AVAILABLE.



NO. 1500D
MASTER LOCK
COMBINATION DIFFERENT
1-7/8" WIDE STEEL BODY
HWMMASTER1500D



NO. 1502
MASTER LOCK
GENERAL SECURITY
COMBINATION PADLOCK
3/4" SHACKLE
HWMMASTER1502



NO. 1525
MASTER LOCK
GENERAL SECURITY
COMBINATION PADLOCK
3/4" SHACKLE
HWMMASTER1525

NO. 1500KA
MASTER LOCK
COMBINATION DIFFERENT
1-7/8" WIDE STEEL BODY
HWMMASTER1500KA

NO. 1502LF
MASTER LOCK
GENERAL SECURITY
COMBINATION PADLOCK
1-1/2" SHACKLE
HWMMASTER1502LF

NO. 1525LF
MASTER LOCK
GENERAL SECURITY
COMBINATION PADLOCK
1-1/2" SHACKLE
HWMMASTER1525LF



NO. 450D
MASTER LOCK
KEYED DIFFERENT
1-3/4" STEEL LOCK BODY
HWMMASTER450D



NO. 475D
MASTER LOCK
KEYED DIFFERENT
1-3/4" STEEL LOCK BODY
HWMMASTER475D



NO. 475KA
MASTER LOCK
KEYED ALIKE
1-3/4" STEEL LOCK BODY
HWMMASTER475KA



NO. 702D
2-1/2" HARD WROUGHT
STEEL BODY
HWDHMASTER702D



NO. 703D
3-1/2" HARD WROUGHT
STEEL BODY
HWDHMASTER703D



NO. 704D
4-1/2" HARD WROUGHT
STEEL BODY
HWDHMASTER704D

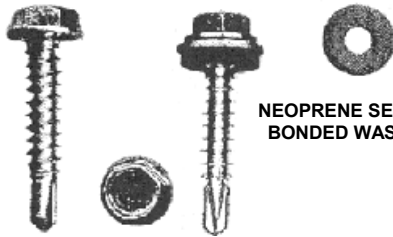


NO. 706D
6" HARD WROUGHT
STEEL BODY
HWDHMASTER706D



OTHER MODELS ARE ALSO AVAILABLE.

 ONE WAY SCREWS	1/4" WITH 7/16" HEAD		5/16" WITH 9/16" HEAD	
	<u>06-300</u> 1/4" X 1" HWFAS06-300		<u>06-330</u> 5/16" X 1" HWFAS06-330	<u>06-350</u> 5/16" X 4" HWFAS06-350
	<u>06-303</u> 1/4" X 1-1/2" HWFAS06-303		<u>06-335</u> 5/16" X 1-1/2" HWFAS06-335	<u>06-355</u> 5/16" X 5" HWFAS06-355
	<u>06-305</u> 1/4" X 2" HWFAS06-305		<u>06-340</u> 5/16" X 2" HWFAS06-340	<u>06-357</u> 5/16" X 6" HWFAS06-357
	<u>06-310</u> 1/4" X 3" HWFAS06-310		<u>06-345</u> 5/16" X 3" HWFAS06-345	
 HAMMER DRIVE NAIL-IN ANCHORS	<u>06-100</u> 1/4" X 1" HWFAS06-100	<u>06-105</u> 1/4" X 1-1/4" HWFAS06-105	<u>06-110</u> 1/4" X 1-1/2" HWFAS06-110	<u>06-115</u> 1/4" X 2" HWFAS06-115
	 POP RIVETS <u>06-090</u> 1/8" X 1/2" ROUND BASE 1/4" HWFAS06-090 FOR FASTENING PERFORATED METAL TO THIN GAUGE METAL SUCH AS TUBING.			
 PHILLIP PAN HEAD SELF TAPPING SCREWS (ZINC) 5/16" HEAD	<u>06-550</u> #6 X 1/2" HWFAS06-550	<u>06-551</u> #6 X 3/4" HWFAS06-551	<u>06-553</u> #6 X 1" HWFAS06-553	<u>06-554</u> #6" X 1-1/2" HWFAS06-554
 PHILLIP PAN HEAD SELF TAPPING SCREWS (ZINC) 7/16" WIDE HEAD	<u>06-554A</u> #8 X 1/2" HWFAS06-554A	<u>06-555</u> #8 X 3/4" HWFAS06-555	<u>06-555A</u> #8 X 1" HWFAS06-555A	<u>06-555B</u> #8" X 1-1/2" HWFAS06-555B

**HEX TEK SCREWS
SELF TAPPING SCREWS**

5/16" HEAD

NEOPRENE SEAL W/
BONDED WASHER

06-556
#10 X 3/4"
HWFAS06-556

06-559
#10 X 1"
HWFAS06-559

06-562
#10 X 1-1/2"
HWFAS06-562

W/ NEOPRENE
WASHER

06-585
10" X 1"
HWFAS06-585

06-565
#12 X 3/4"
HWFAS06-565

06-566
#12 X 1"
HWFAS06-566

06-568
#14 X 1"
HWFAS06-568

06-575
10" X 1-1/2"
HWFAS06-575

06-571
#14 X 1-1/2"
HWFAS06-571

OTHER SIZES
AVAILABLE**HEX LAG SCREWS****1/4"**

06-122
1/4" X 1-1/2"
HWFAS06-122

06-125
1/4" X 2"
HWFAS06-125

06-128
1/4" X 2-1/2"
HWFAS06-128

06-130
1/4" X 3"
HWFAS06-130

06-134
1/4" X 4"
HWFAS06-134

5/16"

06-145
5/16" X 1"
HWFAS06-145

06-150
5/16" X 1-1/2"
HWFAS06-150

06-155
5/16" X 2"
HWFAS06-155

06-160
5/16" X 2-1/2"
HWFAS06-160

06-165
5/16" X 3"
HWFAS06-165

06-170
5/16" X 4"
HWFAS06-170

3/8"

06-185
3/8" X 1-1/2"
HWFAS06-185

06-190
3/8" X 2"
HWFAS06-190

06-195
3/8" X 2-1/2"
HWFAS06-195

06-200
3/8" X 3"
HWFAS06-200

06-205
3/8" X 4"
HWFAS06-205

LAG SHIELDS

06-250
SHORT - 1/4"
HWFAS06-250

06-255
LONG - 1/4"
HWFAS06-255

06-260
SHORT - 5/16"
HWFAS06-260

06-265
LONG - 5/16"
HWFAS06-265

06-270
SHORT - 3/8"
HWFAS06-270

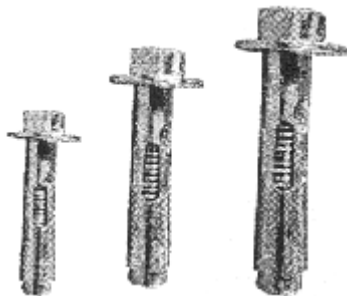
06-275
LONG - 3/8"
HWFAS06-275

**TORX TAMPERED
RESISTANT SCREWS**

06-290-112
1/4" X 1-1/2"
HWFAS06290112

06-290-2
1/4" X 2"
HWFAS062902

06-290-3
1/4" X 3"
HWFAS062903

**SHEET METAL SCREWS
WITH PHILLIP PAN HEAD OR HEX HEAD****SLEEVE ANCHORS**

06-365
5/16" X 1-1/2"
HWFAS06-365

06-370
5/16" X 2 1/2"
HWFAS06-370

06-375
3/8" X 1-7/8"
HWFAS06-375

06-380
3/8" X 3"
HWFAS06-380

06-382
3/8" X 4"
HWFAS06-382

06-385
1/2" X 3"
HWFAS06-385

06-390
1/2" X 4"
HWFAS06-390

06-394
5/8" X 4-1/4"
HWFAS06-394

06-395
5/8" X 6"
HWFAS06-395

06-398
3/4" X 6"
HWFAS06-398

WEDGE ANCHORS

06-399-05
3/8" X 1-7/8"
HWFAS0639905

OTHER DIAMETERS:
5/8", 3/4" & 7/8"

06-399-10
3/8" X 3"
HWFAS0639910

OTHER LENGTHS:
4" UP TO 12"

06-399-15
1/2" X 3"
HWFAS0639915

MORE FASTENERS ARE AVAILABLE.

MAKITA

CORDLESS TOOLS



6347DWDE
18V 1/2" DRIVER-DRILL KIT
EXCL. SHIFT-LOCK DR SYS
HWPTMAK6347DWDE



6336DWDE
14.4V 1/2" DRIVER -
DRILL KIT
HWPTMAK6336DWDE



6217DWDE
12V 3/8" DRIVER -
DRILL KIT
HWPTMAK6217DWDE



6226DWE
9.6V 3/8" DRIVER -
DRILL KIT
HWPTMAK6226DWDE



5046DWDE
18V 6-1/4" METAL CUTTING
SAW KIT
HWPTMAK5046DWDE



5630DWD
14.4V 6-1/2"
CIRCULAR SAW KIT
HWPTMAK5630DWD



JR180DWD
RECIPRO SAW KIT
(VARIABLE SPEED)
HWPTMAKJR180DWD



6914DWDE
12V IMPACT DRIVER KIT
(VARIABLE SPEED)
HWPTMAK6914DWDE

CIRCULAR SAWS



4200NH
4-3/8" CIRCULAR SAW
HWPTMAK4200NH



5005BA
5-1/2" CIRCULAR SAW
HWPTMAK5005BA



5007NB
7-1/4" CIRCULAR SAW
HWPTMAK5007NB



5008NB
8-1/4" CIRCULAR SAW
HWPTMAK5008NB



MORE POWER TOOLS MODELS ARE AVAILABLE.

MAKITA

DRILLS / ANGLE DRILLS



DP3002
3/8" DRILL, 7 AMP
HWPTMAKDP3002



DP4000
1/2" DRILL, 7 AMP
HWPTMAKDP4000



DA3000R
3/8" ANGLE DRILL
HWPTMAKDA3000R



DA4031
1/2" ANGLE DRILL
HWPTMAKDA4031

SCREWDRIVERS / IMPACT WRENCHES



6821
DRYWALL SCREWDRIVER
SURE-LOCK ADJUSTMENT
HWPTMAK6821



6827
SCREWDRIVER
ADJ. TORQUE SETTING
HWPTMAK6827



6904VH
1/2" SQUARE DRIVE
IMPACT WRENCH
HWPTMAK6904VH



6906
3/4" SQUARE DRIVE
IMPACT WRENCH
HWPTMAK6906

HAMMER DRILLS / ROTARY HAMMER



NHP1310
1/2" HAMMER DRILL
HWPTMAKNHP1310



HP2040
3/4" HAMMER DRILL
HWPTMAKHP2040



HR2420
1" ROTARY HAMMER
HWPTMAKHR2420



HR5000
2" ROTARY HAMMER
HWPTMAKHR5000



MORE POWER TOOLS MODELS ARE AVAILABLE.

MAKITA

GRINDERS



9523NBH
4" ANGLE GRINDER
HWPTMAK9523NBH



9528PB
5" ANGLE GRINDER
HWPTMAK9528PB



9067L
7" ANGLE GRINDER
HWPTMAK9067L



9069
9" ANGLE GRINDER
HWPTMAK9069

DIE GRINDERS / SANDERS



906H
1/4" DIE GRINDER
STURDY ALUM. HOUSING
HWPTMAK906H



GD0800C
1/4" DIE GRINDER
HIGH POWER 6.6 AMP
HWPTMAKGD0800C



BO4550
FINISHING SANDER
PALM GRIP DESIGN
HWPTMAKBO4550



GV5000
5" DISC SANDER
HWPTMAKGV5000

CUT-OFF SAWS / DEMOLITION HAMMERS



2414NB
14" CUT-OFF SAW
HWPTMAK2414NB



LC1230
12" METAL CUTTING
SAW
HWPTMAKLC1230



HM1211B
20 LB. DEMOLITION
HAMMER
HWPTMAKHM1211B



HM1800
64 LB. BREAKER HAMMER
HWPTMAKHM1800



MORE POWER TOOLS MODELS ARE AVAILABLE.

MAKITA

ACCESORIES

GENERAL PURPOSE
DEPRESSED CENTER WHEELSGENERAL PURPOSE METAL
DEPRESSED CENTER WHEELDEPRESSED CENTER
FLEX WHEEL

14 PCS. DRIVER SET



STEEL SAW BLADES

HOOK & LOOP ABRASIVES
PAPERCRIMPED CUP -
WIRE BRUSH

ULTRALOK CONNECTOR

CARBED-TIPPED METAL
BLADES CUT CLEANERCARBED-TIPPED
SAW BLADESBEVEL BRUSH -
WIRE BRUSHHIGH SPEED
DRILL BIT

MORE ACCESSORIES FOR POWER TOOLS ARE AVAILABLE.

FLAP DISCS



FLAPDISC - FLAT

4" X 5/8" (40 GRIT)	HWWSCONP/N54015
4" X 5/8" (60 GRIT)	HWWSCONP/N54016
4" X 5/8" (80 GRIT)	HWWSCONP/N54017
4-1/2" X 7/8" (40 GRIT)	HWWSMER330040
4-1/2" X 7/8" (60 GRIT)	HWWSMER330060
4-1/2" X 7/8" (80 GRIT)	HWWSMER330080
5" X 7/8" (40 GRIT)	HWWSCONP/N54039
5" X 7/8" (60 GRIT)	HWWSCONP/N54040
5" X 7/8" (80 GRIT)	HWWSCONP/N54041
7" X 7/8" (40 GRIT)	HWWSCONP/N54051
7" X 7/8" (60 GRIT)	HWWSCONP/N54052
7" X 7/8" (80 GRIT)	HWWSCONP/N54053



FLAPDISC - BEVEL

4" X 5/8" (40 GRIT)	HWWSCONP/N54021
4" X 5/8" (60 GRIT)	HWWSCONP/N54022
4" X 5/8" (80 GRIT)	HWWSCONP/N54023
4-1/2" X 7/8" (40 GRIT)	HWWSCONP/N54033
4-1/2" X 7/8" (60 GRIT)	HWWSCONP/N54034
4-1/2" X 7/8" (80 GRIT)	HWWSCONP/N54035
5" X 7/8" (40 GRIT)	HWWSCONP/N54045
5" X 7/8" (60 GRIT)	HWWSCONP/N54046
5" X 7/8" (80 GRIT)	HWWSCONP/N54047
7" X 7/8" (40 GRIT)	HWWSCONP/N54057
7" X 7/8" (60 GRIT)	HWWSCONP/N54058
7" X 7/8" (80 GRIT)	HWWSCONP/N54059

GRINDING WHEELS



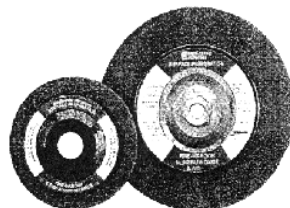
GRINDING WHEEL - DEPRESSED CENTER

4" X 1/4" X 5/8"	HWWSCONP/N175701
4-1/2" X 1/4" X 7/8"	HWWSCONP/N175702
5" X 1/4" X 7/8"	HWGHPEARLDC5010
7" X 1/4" X 7/8"	HWWSCONP/N175770
9" X 1/4" X 4/8"	HWWSMER620190

W/ HUB

4-1/2" X 1/4" X 7/8"	HWWSMER621060
7" X 1/4" X 7/8"	HWWSCONP/N175877
9" X 1/4" X 4/8"	HWWSCON175899

SURFACE PREP WHEEL



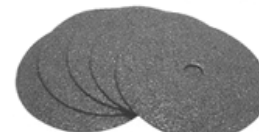
SURFACE PREP WHEEL

4" X 5/8"	HWWSCONP/N58752
4-1/2" X 7/8"	HWWSCONP/N58761
7" X 7/8"	HWWSCONP/N58763

W/ HUB

4-1/2" X 5/8"-11	HWWSCONP/N58762
7" X 5/8"-11	HWWSCONP/N58764

RESIN FIBRE DISCS



RESIN FIBRE DISC BACKING PAD

4" M10 X 1.25	HWWSCONP/N58850
4" X 3/8" -24	HWWSCONP/N58851
4-1/2" X 5/8" -11	HWWSCONP/N58852
7" X 5/8" -11 MEDIUM	HWWSCONP/N58855

RESIN FIBRE DISC

4" X 5/8" (36 GRIT)	HWWSCONP/N58152
4" X 5/8" (50 GRIT)	HWWSCONP/N58153
4-1/2" X 7/8" (36 GRIT)	HWWSCONP/N58160
4-1/2" X 7/8" (50 GRIT)	HWWSCONP/N58161
7" X 7/8" (36 GRIT)	HWWSCONP/N58176
7" X 7/8" (50 GRIT)	HWWSCONP/N58177

WE CARRIED PRODUCTS FROM MAKITA, PEARL ABRASIVES, CONTINENTAL, FORNEY & MERCER ABRASIVES. CALL OUR SERVICE REPRESENTATIVE FOR MORE SIZES.

CUT-OFF WHEELS**DOUBLE REINFORCED**

10" X 1/8" X 5/8"	HWWSCONP/N57200
10" X 1/8" X 1"	HWWSCONP/N178103
12" X 1/8" X 1"	HWWSCONP/N178122
12" X 1/8" X 20mm	HWWSCONP/N57206
14" X 1/8" X 1"	HWWSCONP/N178142
14" X 1/8" X 20mm	HWWSCONP/N57210
16" X 1/8" X 1"	HWWSCONP/N1781601
16" X 5/32" X 1"	HWWSCONP/N57216
18" X 5/32" X 1"	HWWSCONP/N57218
20" X 5/32" X 1"	HWWSCONP/N178202

CENTER REINFORCED

12" X 7/64" X 1"	HWWSCONP/N178121
14" X 7/64" X 1"	HWWSCONP/N178141

**DOUBLE REINFORCED
HEAVY DUTY**

12" X 5/32" X 1"	HWWSCONP/N57280
12" X 5/32" X 20mm	HWWSCONP/N57282
14" X 5/32" X 1"	HWWSCONP/N57284
14" X 5/32" X 20mm	HWWSCONP/N57286

SMALL DIAMETER

3" X 1/16" X 3/8"	HWWSCONP/N57386
3" X 1/8" X 3/8"	HWWSCONP/N57396
4" X 1/16" X 3/8"	HWWSCONP/N57422
4" X 1/8" X 3/8"	HWWSCONP/N57434
4-1/2" X 1/16" X 3/8"	HWWSCONP/N1724023

**WIRE BRUSHES****KNOTTED WIRE WHEELS**

4" X 1/2" -13TA	HWWSFRN72271
4" M10X 1.5	HWWSFRN72292
4" X 5/8-11TA	HWWSFRN72294

CRIMPED WIRE WHEELS

4" M10 X 1.25	HWWSFRN72235
4" M10 X 1.50	HWWSFRN72236
4" M14 X 2.0	HWWSFRN72238

STAINLESS STEEL**BRUSHES**

3" SINGLE ROW KNOTTED	HWWSFRN70525
1-1/2" KNOTTED WIRE END	HWWSFRN70537

**CRIMPED WIRE
BRUSHES**

3" M10 X 1.50	HWWSFRN72277
3" M10 X 1.25	HWWSFRN72278
5" X 5/8-11 NC	HWWSFRN72325

**KNOTTED WIRE
BRUSHES**

3" X 5/8-11 NC	HWWSFRN72282
3" M10 X 1.5	HWWSFRN72284
3" M10 X 1.25	HWWSFRN72285
4" X 5/8-11 NC	HWWSFRN72327
4" X 5/8-11 NC-DBL ROW	HWWSFRN72326



WE CARRIED PRODUCTS FROM MAKITA, PEARL ABRASIVES, CONTINENTAL, FORNEY & MERCER ABRASIVES. CALL OUR SERVICE REPRESENTATIVE FOR MORE SIZES.

SDS MAX BITS



SDS DRILL BITS

1" X 10" SDS BIT	HWPTMAK711179-A
1/2" X 12" SDS BIT	HWPTMAK711162-A
1/2" X 18" SDS BIT	HWPTMAK711163-A
1/4" X 6" SDS BIT	HWPTMAK711148-A
1/4" X 8" SDS BIT	HWPTMAK711149-A
3/4" X 8" SDS BIT	HWPTMAK711173-A
3/8" X 12" SDS BIT	HWPTMAK711156-A
5/16" X 6" SDS BIT	HWPTMAK711152-A
5/8" X 12" SDS BIT	HWPTMAK711169-A
7/16" X 6" SDS BIT	HWPTMAK711158-A
7/8" X 8" SDS BIT	HWPTMAK711176-A

SIZES:

1/2" SDS MAX	HWPTMAK711499-A
1" SDS MAX	HWPTMAK711511-A
1-1/2" SDS MAX	HWPTMAK711521-A
3/4" SDS MAX	HWPTMAK711505-A
5/8" SDS MAX	HWPTMAK711502-A

SDS PLUS BITS



SIZES:

1/2 SDS PLUS	HWPTMAK711248-A
3/8 SDS PLUS	HWPTMAK711242-A
5/16 SDS PLUS	HWPTMAK711240-A
1/4" X 4" SDS PLUS TC	HWPTMAK711147-A
3/16" X 4" SDS PLUS TC	HWPTMAK711142-A
5/32" X 4" SDS PLUS TC	HWPTMAK711140-A

SPLINE BITS



SIZES:

1-1/2" SPLINE SHANK BIT	HWPTMAK711454-A
3/8 X 10 SPLINE BIT	HWPTMAK711191-A
1" SPLINE SHANK BIT	HWPTMAK711211-A
1-1/4" SPLINE SHANK BIT	HWPTMAK711217-A
7/8" SPLINE SHANK BIT	HWPTMAK711209-A

THICK WALL CORE BITS



SIZES:

5/8" CORE BIT	HWWSFRN20703
3/4" CORE BIT	HWWSFRN20705
7/8" CORE BIT	HWWSFRN20707
1" CORE BIT	HWWSFRN20709
1-1/4 COREBIT	HWWSFRN20714
1-1/2 CORE BIT	HWWSFRN20718
1-3/4 CORE BIT	HWWSFRN20722
2" CORE BIT	HWWSFRN20725
2-1/4" CORE BIT	HWWSFRN20728
2-1/2" CORE BIT	HWWSFRN20731
3" CORE BIT	HWWSFRN20736
4' CORE BIT	HWWSFRN20744

THICK WALL CORE BIT SHANK



SIZES:

1/4" COREBIT SHANK	HWWSFRN20753
7/16" COREBIT SHANK	HWWSFRN20756

MORE DRILL BITS SIZES ARE AVAILABLE.

CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.

**LINCOLN
ELECTRIC**

AC-225C
STICK WELDER
HWWSLINK1357



AC-225
STICK WELDER
HWWSLINK1170



AC/DC 225/125
STICK WELDER
HWWSLINK1297



INVERTEC V160S
STICK WELDER
HWWSLINK1844-1

**LINCOLN
ELECTRIC**

POWER ARC 4000
ENGINE DRIVEN
WELDERS
HWWSLINK1429-1



SP-135T
WIRE FEEDER /
WELDERS
HWWSLINK1873-1



SP-135 PLUS
WIRE FEEDER /
WELDERS
HWWSLINK1874-1



SP-175T
WIRE FEEDER /
WELDERS
HWWSLINK1875-1

**LINCOLN
ELECTRIC**

PRO-CUT 25
PLASMA CUTTER
HWWSLINK1756-1



PRO-CUT 55
PLASMA CUTTER
HWWSLINK1580-1



PRO-CUT 80
PLASMA CUTTER
HWWSLINK1581-1

CLARKEWELD

CLARKEWELD 180EN
MIG WELDER
HWWSClarke180EN

**MORE WELDING MACHINES AND WELDING SUPPLIES ARE AVAILABLE.
CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.**

STICK ELECTRODE

5 LB. CARTON



10 LB. CAN



25 LB. CAN



50 LB. CARTON

STEEL – CARBON & LOW ALLOY

*FAST FREEZE, OUT OF POSITION, MILD STEEL STICK ELECTRODES**FAST FILL, HIGH DEPOSITION, MILD STEEL STICK ELECTRODES**FILL FREEZE, HIGH SPEED, MILD STEEL STICK ELECTRODES**LOW HYDROGEN, MILD STEEL STICK ELECTRODES**LOW HYDROGEN, LOW ALLOY STEEL STICK ELECTRODES**FILL FREEZE, OUT OF POSITION PIPE WELDING, MILD STEEL & ALLOY STEEL STICK ELECTRODES***MIG WIRES**SUPERARC L-50*MILD STEEL WIRE*

SUPERARC L-50
 SUPERGLIDE S3
 SUPERARC L-54
 SUPERARC L-56
 SUPERGLIDE S6

*LOW ALLOY WIRE*

SUPERARC LA-75
 SUPERARC LA-90
 SUPERARC LA-100

FORNEY MIG WIRES*HIGH STRENGTH MILD STEEL MIG WIRE E70S-6**SELF SHIELDED MILD STEEL MIG WIRE E71T-GS**308ER STAINLESS STEEL MIG WIRE**5356 ALUMINUM ALLOY MIG WIRE**4043 ALUMINUM ALLOY MIG WIRE*

**WE CARRIED LINCOLN ELECTRIC AND FORNEY WELDING SUPPLIES.
 CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.**

**FORNEY WELDING CABLE**

52010 - # 1/0 CABLE (988 STRANDS – 30 AWG)
 52006 - # 6 CABLE (259 STRANDS – 30 AWG)
 52016 - # 1 CABLE (840 STRANDS – 30 AWG)
 52017 - # 1 CABLE (840 STRANDS – 30 AWG)
 52018 - # 1 CABLE (840 STRANDS – 30 AWG)
 52019 - # 4 CABLE (399 STRANDS – 30 AWG)
 52020 - # 4 CABLE (399 STRANDS – 30 AWG)
 52021 - # 4 CABLE (399 STRANDS – 30 AWG)
 52023 - # 2 CABLE (665 STRANDS – 30 AWG)
 52024 - # 2 CABLE (665 STRANDS – 30 AWG)
 52025 - # 2 CABLE (665 STRANDS – 30 AWG)
 52005 - # 4 TWIN CABLE (386 STRANDS – 30 AWG)

**FORNEY WELDING ELECTRODES**

6011 WELDING ELECTRODE (VERTICAL & OVERHEAD)

6013 WELDING ELECTRODE (GENERAL PURPOSE)

7014 WELDING ELECTRODE (HIGH DEPOSITION)

AC 7018 WELDING ELECTRODE
 (HIGH STRENGTH – LOW HYDROGEN)

7018 WELDING ELECTRODE
 (HIGH STRENGTH – LOW HYDROGEN)



56000
 ELECTRODE HOLDER
 200 AMP HOLDER
 HWWSFN5600

56200
 ELECTRODE HOLDER
 300 AMP HOLDER
 HWWSFN56200



56205
 400 AMP SCREW TYPE
 ELECTRODE HOLDER
 HWWSFN56205



54405
 BRASS GROUND CLAMP
 TWECO STYLE 500 AMP
 HWWSFN54405



54410
 STEEL GROUND CLAMP
 300 AMP
 HWWSFN54410



54510
 STEEL GROUND CLAMP
 500 AMP
 HWWSFN54510



54300
 BRASS GROUND CLAMP
 200-300 AMP
 HWWSFN54300



54400
 BRASS GROUND CLAMP
 300-400 AMP (H. DUTY)
 HWWSFN54400

**WE CARRIED LINCOLN ELECTRIC AND FORNEY WELDING SUPPLIES.
 CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.**

SAFETY PRODUCTS

WELDING HELMETS



55660 - "SLIM LINE"
POLYPROPYLENE
HIGH DENSITY HELMETS
HWWFSFRN55660



55660 - "SLIM LINE"
POLYPROPYLENE
HIGH DENSITY HELMETS
HWWFSFRN55664



LIGHT DURABLE
NYLON HELMET
HWWFSFRN55686



"THE BANDIT"
BLACK WELDING HELMET
HWWFSFRN55666

WELDING HELMETS



"BANDIT II"
BLACK WELDING HELMET
HWWFSFRN55677



"PATRIOT:
DESIGNER HELMET
HWWFSFRN55648



"SILVER / BLACK FRAME"
DESIGNER HELMETS
HWWFSFRN55645
HWWFSFRN55655



55697
WELDING HELMET W/
INSTASHADE II
HWWFSFRN55697

INSTA-SHADE



55695
CATEGORY
55695
55721
55720
55700



55721
DIMENSIONS
2" X 4-1/4"
5-1/4" X 4-1/2"
4-1/2" X 5-1/4"
5-1/4" X 4-1/2"



55720
VIEWING AREA
1-5/16" X 3-3/4"
2" X 4-1/4"
2" X 4-1/4" PLUS XVA
2" X 4-1/4" PLUS XVA



55700
ITEM NO:
HWWFSFRN55695
HWWFSFRN55721
HWWFSFRN55720
HWWFSFRN55700



HEADGEAR - RATCHET
HWWFSFRN55801



GRINDING SHIELD
(CLEAR)
HWWFSFRN58600



GRINDING SHIELD
(W/ RATCHET HEADGEAR)
HWWFSFRN58606



DUST MASK
HWGHMISC DUSTMASK

MORE PRODUCTS ARE AVAILABLE.

CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.

SAFETY PRODUCTS



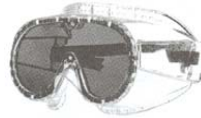
55305
CLEAR - SPLASH
RESISTANT
HWWSFRN55305



55307
CLEAR - DUST
GOGGLES
HWWSFRN55307



55308
GREEN - DUST
GOGGLES
HWWSFRN55308



55309
GREEN - DELUXE
DUST GOGGLES
HWWSFRN55309



55310
CLEAR - DELUXE
DUST GOGGLES
HWWSFRN55310

GLOVES



UNLINED LEATHER
WELDING GLOVES



LINED LEATHER
WELDING GLOVES



DELUXE LINED ALL
LEATHER WELDING
GLOVES



LINED LEATHER RUST
COLORED WELDING
GLOVES



FABRIC LEATHER PALM
WORK GLOVES



BROW JERSEY
WORK GLOVES



COWHIDE LEATHER
WORK GLOVES



GOATSKIN PREMIUM
WORK GLOVES



WELDING JACKET
HWWELDPX-5030-L



PROTECTIVE CLOTHING
HWGHMISCCRcoatSET



3 PCS. FLASHLIGHT SET
HWGHFLASHLIGHTSET



SURGE SUPPRESSOR
HWGHSURGESUPPRESSOR



25 FT. EXTENSION CORD
W/ WELDABLE LIGHT.
HWGH25OUTEXTCORD



50 FT. OUTDOOR
EXTENSION CORD
HWGH50OUTEXTCORD



50 FT. TRI-TAP
OUTDOOR EXT. CORD
HWGHTRITAPEXCORD



15 FT. INDOOR
EXTENSION CORD
HWGH15INEXTCORD

HANDTOOLS



ADJUSTABLE WRENCHES
HWHTMISCADWRENCH



PIPE WRENCHES
18"
HWHTMISC18PWRENCH



BOLT CUTTERS
24"
HWGHMISC24BOLTC



BENCH VISES
4"
HWHTNATL4VISE



FENCE PLIER
10-1/2"
HWOSSEYMOURFPLIER



SLIP JOINT PLIERS
6", 8" & 10"
HWHTSLJOINTPLIER



GROOVE JOINT PLIERS
8", 10" & 12"
HWHTGRJOINTPLIER



LONG NOSE PLIERS
6", & 8"
HWHTNATLLONGNOSE



LINESMAN PLIERS
7" & 8"
HWHTLMANPLIER



END NIPPER PLIER
7"
HWHTENDNIPPERPL



TONGUE & GROOVE
JOINT PLIERS, FIXED
RIVET - 8", 10" & 12"
HWHTTONGUEGROOVE



LOCKING PLIERS
5", 7" & 10"
HWHTLOCKINGPLIER



3 PCS C-CLAMP &
WELD CLAMP SET
HWHTCLAMPWELDSET



3 PCS C-CLAMP SET
18", 11" & 6"
HWHTNATL3CClamp



LOCKING PLIER -
C CLAMP - 11"
HWHTMISC11CCLAMP



LOCKING PLIER -
WELDING CLAMP - 9"
HWHT9WELDCLAMP



TIN SNIPS
STRAIGHT CUT
HWHTMISCTINSNIPS



TIN SNIPS SET
3 PCS. RIGHT, LEFT &
STRAIGHT CUTS
HWHTNATLTSNIP



TURBOKNIFE PRO
TWINE CUTTER,
LIGHTWEIGHT
HWWSCON33130



UTILITY KNIFE
RETRACTABLE,
WITH 5 BLADES
HWHTMISCUKNIFE

MORE HANDTOOLS ARE ALSO AVAILABLE IN DIFFERENT SIZES.

CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.

HANDTOOLS



BALL PEEN HAMMERS
8 oz., 12 oz., 16 oz.,
24 oz., & 32 oz.
HWHTBPEENHAMMER



CLAW HAMMER
8 oz. & 16 oz.
16 oz. RIP HAMMER
HWHTHICKOREYCHAMM



RUBBER MALLET
8 oz., 16 oz., 24 oz.,
& 32 oz.
HWHTRUBBERMALLET



DRILLING HAMMERS
2 lb., 3 lb., & 4 lb.
HWWSCONP/N62-212



SLEDGE HAMMERS
3 lb., 4 lb., 6 lb.,
8 lb., 10 lb. & 12 lb.
HWGHMISC SLEDGE2



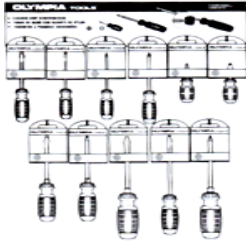
CHIPPING HAMMER
18 oz.
HWWSFNR70601



MUTT (MULTIUSE TOOL)
8" X 4" BLADE
HWWSCONP/N64-392



67 PCS. HAND RIVETER
KIT
HWGHRIVETERKIT



OLYMPIA 10 PCS.
SCREWDRIVER SET
CUSHION GRIP
HWWSCON24190



OLYMPIA 6 PCS.
SCREWDRIVER SET
ASSORTMENT
HWWSCON22498



SLOTTED
SCREWDRIVER
8 X 5/16
HWGHNATI51123



POCKET SIZE
SCREWDRIVER SET
PHILLIPS/SLOTTED
HWGHNATSD200



5 PCS. STEEL FILE SET
HWGHSTEELFILESET



12 PCS. PUNCH & CHISEL
SET
HWHNATLCHISEL



SUPER GRIP
EMPOIMENT
HWGHGREMPOIMENT



8" HALF ROUND
WOOD RASPS
HWWSCON30388

**MORE HANDTOOLS ARE ALSO AVAILABLE IN DIFFERENT SIZES.
CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.**

MISCELLANEOUS



HACKSAW
8-12" ADJUSTABLE
HACKSAW
HWGHMISCHACKSAW



975 LENOX
COMPACT HACKSAW
HWHTLEN20975-975



HACKSAW BLADES
12" BLADES
HWWSFNR72018



TAPE MEASURE
25' X 1"
HWWSCONP/N1"X25'



TURBOCLAMP
QUICK RELEASE
4" - HWWSCONP/N12-034
5" - HWWSCONP/N12-035
6" - HWWSCONP/N12-036
8" - HWWSCONP/N12-038



C-CLAMP
4" - HWHTNATL4CCLAMP
5" HWHTNATL5"CCLAMP
8" - HWGHMISC8CCLAMP



SPRING CLAMP
1", 2" & 3" METAL
1" - HWWSCON38-301
2" - HWWSCON38-302
3" - HWWSCON38-303



BOOSTER CABLE
W/ SAFE PULP
400 AMP X 12 FT.
HWGHBOOSTERCABLE



70511 CARBON STEEL
LONG HANDLE
WIRE BRUSH
W/ METAL SCRAPER
HWWSFNR70511



70504 CARBON STEEL
HWWSFNR70504
70518 BRASS
HWWSFNR70518
70521 STAINLESS STEEL
HWWSFNR70521



70512 CARBON STEEL
SHOE HANDLE
WIRE BRUSH
W/ METAL SCRAPER
HWWSFNR70512



70505 CARBON STEEL
HWWSFNR70505
70519 BRASS
HWWSFNR70519
70520 STAINLESS STEEL
HWWSFNR70520



70490 BRASS
WIRE BRUSH
SMALL SIZE KNUCKLE
HWWSFNR70490



70506 STAINLESS STEEL
WIRE BRUSH
SMALL SIZE KNUCKLE
HWWSFNR70506



70491 BRASS
WIRE BRUSH
MEDIUM SIZE KNUCKLE
HWWSFNR70491



70503 STAINLESS STEEL
WIRE BRUSH
MEDIUM SIZE KNUCKLE
HWWSFNR70503



HOSE CLAMP SET
8 PCS. STAINLESS STEEL
HWGH8CLAMPSETSS



HOSE CLAMP SET
8 PCS. SET
HWGH8CLAMPSET



TRAILER BALL
2" X 3/4" X 2"
HWGHTRAILERBALL



ELECTRICAL TAPE
3/4 IN. X 60 FT.
HWGHMISCET

**MORE ITEMS ARE ALSO AVAILABLE IN DIFFERENT SIZES.
CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.**

PAINT SUPPLIES



PAINT (5 GALLON)

WHITE SEMI GLOSS
WHITE GLOSS
BROWN GLOSS
PACIFIC BROWN
RED OXIDE
BLACK SEMI GLOSS
BLACK GLOSS
DELUXE GRAY

PAINT (1 GALLON)

WHITE SEMI GLOSS
WHITE GLOSS
BROWN GLOSS
PACIFIC BROWN
RED OXIDE
BLACK SEMI GLOSS
BLACK GLOSS
DELUXE GRAY
DANGER ORANGE

PRIMER (5 GALLON)

BLACK
GRAY
WHITE

PRIMER (1 GALLON)

BLACK
GRAY
WHITE
BROWN

PRIMER (SPRAY)

BLACK
DARK GRAY
RED OXIDE

ITEM CODE:

ITEM CODE:
HWPAPAT2-S-20607
HWPAPAT2-V-2606-5
HWPAPAT4-S-3162-5
HWPAPAT4-S-3237-5
HWPAPAT5-S-1101-5
HWPAPAT8-S-1722-5
HWPAPAT8-S-3313-5
HWPAPAT8-S-4721-5

HWPAPAT2-S-2607-1
HWPAPAT2-V-2606-1
HWPAPAT4-S-3162-1
HWPAPAT4-S-3237-1
HWPAPATS-1101-A
HWPAPAT8-S-1722-1
HWPAPAT8-S-3313-1
HWPAPAT4-S4721-1
HWPAPAT3HE2613-1

ITEM CODE:

HWPAPAT8-S-1116-5
HWPAPAT8-S-1126-5
HWPAPAT2-S-1757-5

HWPAPAT8-S-1116
HWPAPAT8-S-1126-1
HWPAPAT2-S-1757-1
HWPAPAT4-S-3234-1

HWPAPAT521
HWPAPAT510B
HWPAPAT518D

PAINT THINNER/REDUCER

LACQUER THINNER 1 GAL.
THINNER/REDUCER 1 GAL.
THINNER/REDUCER 5 GAL.
PAINT MIXER

SPRAY PAINT

CLEAR GLOSS
 WHITE GLOSS
 BLACK GLOSS
 BLUE
 RED
 GRAY
 YELLOW
 GREEN
 BABY BLUE
 GOLD
 SILVER
 BLACK FLAT
 ORANGE GLOSS
 WHITE FLAT
 BROWN
 IVORY
 LIGHT GREEN
 OYSTER BONE WHITE
 YELLOW SCHOOL BUS
 SEMI GLOSS BLACK
 ENGINE ALUMINUM
 MEDIUM GRAY ENAMEL
 CATERPILLAR YELLOW
TOUCH UP SPRAY PAINT

ITEM CODE:

NEW CODE:

HWPAPATLT-2
HWPAPATSB-2-1
HWPAPATSB-2-5
HWPAEXOMIXEREM60

ITEM CODE:

HWPAPAT414
HWPAPAT501
HWPAPAT502
HWPAPAT503
HWPAPAT504
HWPAPAT505
HWPAPAT506
HWPAPAT508
HWPAPAT509
HWPAPAT510
HWPAPAT511
HWPAPAT512
HWPAPAT513
HWPAPAT522
HWPAPAT531
HWPAPAT532
HWPAPAT533
HWPAPAT537
HWPAPAT550
HWPAPAT560
HWPAPATBT25
HWPAPAT0468
HWPAPAT1819
HWOSSWF100TUS

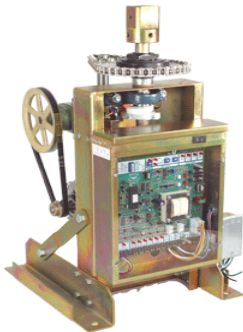


HIGH PRESSURE
AIR SPRAY GUN
HWHTNATLWSG

3 SET PAINT BRUSHES
HWP3SETPBRUSH

TOUCH UP BRUSHES

1"
HWPAMISC1"PBRUSH
1-1/2"
HWPAMISC112PBRUSH
2-1/2"
HWPAMISC212PBRUSH



EAGLE - 100

RESIDENTIAL SWING GATE OPERATOR

HWSPEAGLE100

- 1/2 HORSEPOWER MOTOR
- HANDLE GATES: 16' LONG & 400 LBS CAPACITY
- GATE SPEED: 18-20" PER SECOND
- 5 YEARS WARRANTY - RESIDENTIAL
- DIMENSIONS" 17" (W) X 17" (D) X 28" (H)



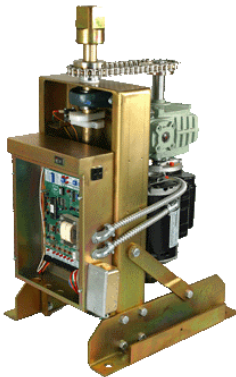
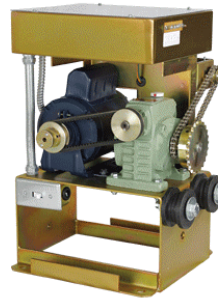
EAGLE - 1000

RESIDENTIAL SWING GATE OPERATOR

FAIL SAFE / FAIL SECURE MODELS

HWSPEAGLE1000

- 1/2 HORSEPOWER MOTOR
- HANDLE GATES: 22' LONG & 500 LBS CAPACITY
- GATE SPEED: 12" PER SECOND
- 5 YEARS WARRANTY - RESIDENTIAL
- DIMENSIONS" 14" (W) X 16" (D) X 22" (H)



EAGLE - 200-1HP

COMMERCIAL SWING GATE OPERATOR

HWSPEAGLE2001HP

INTENDED FOR HEAVY DUTY GATES AND USES TWO 1/2 HORSEPOWER UNITS RUNNING IN PARALLEL.

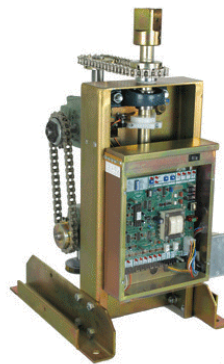
EAGLE - 200-DM

COMMERCIAL SWING GATE OPERATOR

HWSPEAGLE200DM

MODEL GATE OPERATOR, USES 1/2 MOTOR TO OPEN THE GATE AND ANOTHER TO CLOSE IT, IDEAL FOR HIGH TRAFFIC COMMERCIAL AREAS.

DIMENSIONS: 16" (W) X 22" (D) X 28" (H)

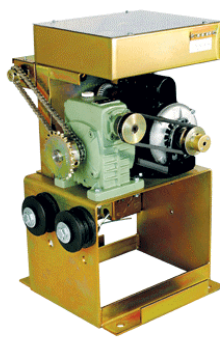


EAGLE - 200-1/2HP

COMMERCIAL SWING GATE OPERATOR

HWSPEAGLE200.5HP

- 1/2 HORSEPOWER MOTOR
- HANDLE GATES: 20' LONG & 1000 LBS CAPACITY
- GATE SPEED: 18-20" PER SECOND
- 5 YEARS WARRANTY - COMMERCIAL
- DIMENSIONS: 16" (W) X 22" (D) X 28" (H)



FAIL SECURE MODEL

FAIL SAFE MODEL

EAGLE – 2000-1HP

COMMERCIAL SWING GATE OPERATOR
HWSPEAGLE200-1

USES TWO 1/2 HP MOTORS WORKING IN PARALLEL
AND IS INTENDED FOR THE MOST HEAVY DUTY
GATES, CAPABLE OF HANDLING GATES 45' LONG AND
2000 LBS.

EAGLE – 2000-DM

COMMERCIAL SWING GATE OPERATOR
HWSPEAGLE200DM

DUAL MOTOR OPERATOR WHICH USES ONE 1/2 HP
MOTOR TO OPEN GATE, AND ANOTHER TO
CLOSE IT. INTENDED FOR HIGH TRAFFIC AREAS
WITH GATES UP TO 45' LONG AND 1000 LBS.

DIMENSIONS: 17" (W) X 17.5" (D) X 25.5" (H)

EAGLE – 2000-1/2HP

COMMERCIAL SWING GATE OPERATOR
HWSPEAGLE2000HP

- 1/2 HORSEPOWER MOTOR
- HANDLE GATES: 45' LONG & 1000 LBS
CAPACITY
- GATE SPEED: 12" PER SECOND
- 5 YEARS WARRANTY – COMMERCIAL
- DIMENSIONS: 17" (W) X 17.5" (D) X 25.5" (H)



EAGLE 2020 LOCK BOX
ACE & MORTISE CYLINDER LOCKS
HWSPEAGLE2020



EAGLE 2030 LOCK BOX
DUAL ACE CYLINDER LOCKS
KEY IS REMOVABLE IN CLOSE
POSITION
HWSPEAGLE2030



EAGLE 2040 LOCK BOX
DUAL ACE CYLINDER LOCKS
KEY IS REMOVABLE IN EITHER
POSITION
HWSPEAGLE2040

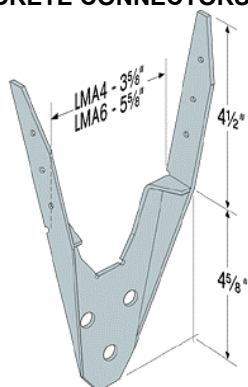


MULTI CODE 3089
GARAGE DOOR OPENER/
REMOTE TRANSMITTER
HWOSAGSGC801



MULTI CODE 4120
GARAGE DOOR OPENER/
REMOTE TRANSMITTER
HWOSAGSGC802

CONCRETE CONNECTORS



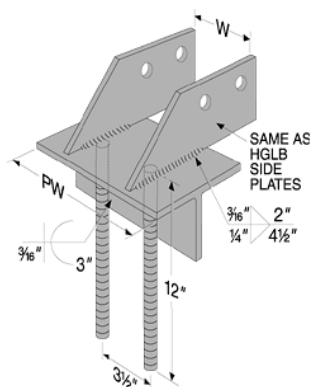
LMA/MASB/MAS/MAB/MA
MUDSILL ANCHORS

LMA – offers a higher lateral load capacity in a lighter gauge.

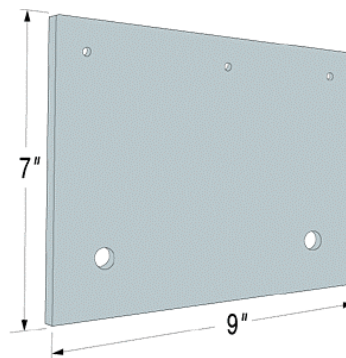
MASB – designed for installation on concrete masonry units.

MAS – for slab or stemwall construction.

MAB – Anchors mudsill to concrete block, poured walls or slab foundation.



GLB/HGLB/GLBT
BEAM SEATS

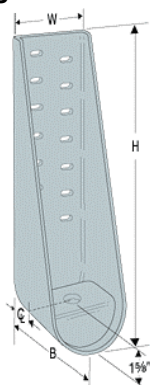


FA/FAP/HFA/FJA/FSA
FOUNDATION ANCHORS

FA & HFA Foundation Anchors eliminate vertical drilling by nailing into the top to the mudsill.

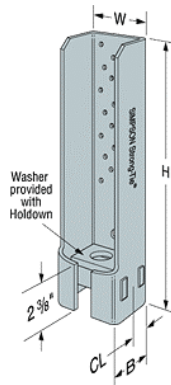
FJA Foundation Joist Anchor nails or bolts directly into floor joist.

ANCHORS



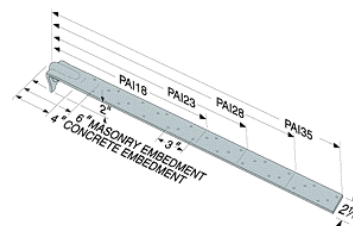
PHD
PREDEFLECTED HOLDOWNS

The Predeflected Holdown (PHD) is a revolutionary development in holdown connections. Predeflected during manufacturing, the PHD virtually eliminates deflection from material scratch.



HDQ8
HOLDOWN

This product is preferable to similar connectors because of easier installation, higher loads, lower installed cost, or a combination of these features.



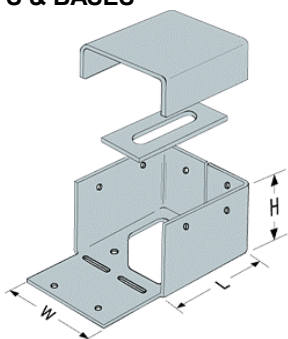
PA/HPA
PURLIN ANCHORS

Wood-to-concrete and –concrete block connectors that satisfy code requirements. The PA's Dual Embedment Line allows installation in concrete or concrete block.

MORE PRODUCTS ARE AVAILABLE.

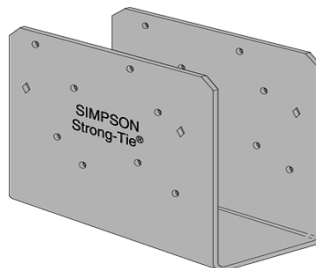
CALL OUR SERVICE REPRESENTATIVE AT 1-800-262-2605.

CAPS & BASES



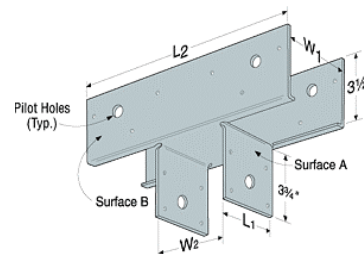
AB/ABA/ABE/ABU
ADJUSTABLE AND STANDOFF POST
BASES

The AB is a fully-adjustable post base which offers moisture protection and finished hardware appearance.



CCQ/ECCQ
COLUMN CAPS

This design uses SDS screws to provide faster installation and maintain the wood cross section.

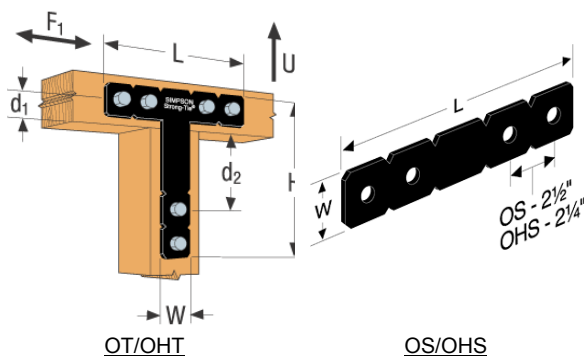


PC/EPC
POST CAPS

A custom connection for post-beam combinations at medium design loads.

ARCHITECTURAL PRODUCT GROUPS

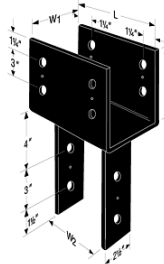
NOTCHED ORNAMENTALS



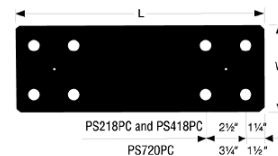
OT/OHT

OS/OHS

NON-NOTCHED ORNAMENTALS



CCPC



PSPC

EPOXY TIE-ADHESIVES



EDT22A
DISPENSING TOOL
HWGHSIMPEDT22



EMN22
MIXING NOZZLE
HWGHSIMPEMN22



ET22
22 CAPACITY OZ.
HWGHSIMET22



ET56
56 CAPACITY OZ.
HWGHSIMPET56

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CHAINS & ROPES

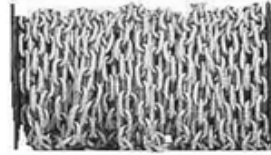
187



5/16" X 275' PROOF COIL CHAIN
ZINC FINISH
HWPACW0608CH516-1



3/16 PROOF COIL BZ
STRAIGHT LINK CHAIN
HWGHACC401120301



3/8 NACM PROOF COIL BZ
STRAIGHT LINK CHAIN
HWGHACC401120601



#2 TWIST MACHINE BZ
TWIST LINK CHAIN
HWGHACC460420206



#16 DOUBLE STEEL JACK BZ
DOUBLE JACK CHAIN
HWGHACC260821615



#35 STEEL SASH CHAIN BZ
HWGHACC220123502



1/0 BRS PLUMBERS CHAIN
SAFETY CHAIN
HWGHACC233111005



1/2 X 600 YELLOW ROPE
HWHTMISC12YROPE

1/4 X 1200 YELLOW ROPE
HWHTMISC14-ROPE

3/8 X 600 YELLOW ROPE
HWGHMISC38ROPE

LIQUID NAILS ADHESIVE



LN901
HEAVY DUTY
CONSTRUCTION AND
REMODELING ADHESIVE
HWGHLIQLN901



LN903
HEAVY DUTY
CONSTRUCTION
ADHESIVE
HWGHLIQ903-100Z



LN910
PANELING AND
MOLDING ADHESIVE
HWGHLIQLN710



LN925
STEEL AND METAL
FRAMING ADHESIVE
HWGHLIQLN925

DOORS/FENCE



STEEL SECURITY DOOR
36" X 80"
HWOSDOVAL3680SD



8' X 5' SECURITY FENCE
HWOS8X5SECFENCE



8' X 5' SECURITY FENCE
BIASABLE
HWOS8X5SECFENCEB

HI-TECH EVOLUTION POWER TOOLS



EVOLUTION ME3500
MAGNETIC DRILLING SYSTEM
HWPWHITECHME3500



EVOLUTION XTREME 180
TCT STEEL CUTTING SAW 7"
HWPWHITECHEVO180



EVOLUTION XTREME 230
TCT STEEL CUTTING SAW 9"
HWPWHITECHEVO230



HI-TECH CYCLONE
MAGNETIC PICK UP TOOL CHIPPING
& SWARF COLLECTOR
HWHITECHCYCLONE



8650 TMS 230 BLADE
FOR MILD STEEL CUTTING
230 X 25.4 X 2.0 mm X 48 T
HWHITECH230BLADE



9314 TCT 355 BLADE
FOR MILD STEEL CUTTING
355 X 25.4 X 2.4 mm X 66 T
HWHITECH355BLADE