



# ***PRODUCT CATALOG***

Volume 9  
Revised 03/08

Steel Sales & Service for Over 50 Years

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**NORTON METALS, Inc. 817-232-0404 • 800-669-7883 • Fax 817-234-0101 • [www.nortonmetals.com](http://www.nortonmetals.com)**

# **NORTON METALS, INC.**

1350 Lawson Road Fort Worth, Texas 76131-2723 (North Loop 820 at Hwy. 156)

817.232.0404 • FAX 817.234.0101 • Toll Free 1.800.669.7883 • [www.nortonmetals.com](http://www.nortonmetals.com)

“One-stop” supplier of quality steel products. • One of the area’s **largest and most diverse inventories.**

• In business for **over 50 years** – same location for over 30 years.

## **Tubing & Pipe**

Square, Round, Rectangular  
Handrail Pipe  
Pipe Fence Railing  
Painted, Black, Bare  
Galvanized

## **Ornamental Iron Supplies**

Wrought Iron  
Fittings & Hardware

## **Structural Steel**

Angles  
Channels  
Beams

## **Perforated Metal**

Hot Roll  
Galvanized

## **Sheets & Plate**

Hot Roll  
Mill Plate  
Floor Plate (Diamond)  
Cold Roll  
Galvanized

## **Metal Building Products**

Panels (Roof & Siding)  
Trim  
Screws & Fasteners  
Purlins

## **Expanded Metal & Grating**

Expanded Metal  
Grating Expanded Metal  
Grip Strut  
Bar Grating

## **Bars**

Square  
Rounds (HR, CR)  
Strips, Flats, UM Plate  
Rebar

## **Fence Products**

Tubing & Pipe  
Pickets  
Fence Hardware

**Please call us when you need steel.**

**WE APPRECIATE THE OPPORTUNITY TO SERVE YOU.**

**Open Monday – Friday 8:00 am to 5:00 pm**  
**MasterCard – VISA – Discover – American Express**  
**Delivery Available**

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***STEEL PRODUCTS AND  
METAL BUILDING  
COMPONENTS***



# FLAT BARS

ASTM A36



THICKNESS 'A'	WIDTH 'B'	WEIGHT PER FOOT	WEIGHT PER 20'
1/4"	1/2"	0.425	8.50
1/4"	3/4"	0.638	12.76
1/4"	1"	0.850	17.00
1/4"	1 1/4"	1.060	21.20
1/4"	1 1/2"	1.275	25.50
1/4"	1 3/4"	1.490	29.80
1/4"	2"	1.700	34.00
1/4"	2 1/2"	2.125	42.50
1/4"	3"	2.550	51.00
1/4"	3 1/2"	2.975	59.50
1/4"	4"	3.400	68.00
1/4"	4 1/2"	3.830	76.60
1/4"	5"	4.250	85.00
1/4"	6"	5.100	102.00
1/4"	7"	5.950	119.00
1/4"	8"	6.800	136.00
5/16"	5"	5.313	106.26
5/16"	6"	6.375	127.50
5/16"	8"	8.500	170.00
3/8"	3/4"	0.958	19.15
3/8"	1"	1.275	25.50
3/8"	1 1/4"	1.596	31.91
3/8"	1 1/2"	1.913	38.26
3/8"	2"	2.550	51.00
3/8"	2 1/2"	3.188	63.76
3/8"	3"	3.830	76.60
3/8"	3 1/2"	4.460	89.20
3/8"	4"	5.100	102.00
3/8"	4 1/2"	5.740	114.80
3/8"	5"	6.375	127.50
3/8"	6"	7.650	153.00
3/8"	7"	8.940	178.73
3/8"	8"	10.200	204.00
1/2"	1"	1.700	34.00
1/2"	1 1/2"	2.550	51.00
1/2"	2"	3.400	68.00

# FLAT BARS (CONTINUED)

ASTM A36

THICKNESS 'A'	WIDTH 'B'	WEIGHT PER FOOT	WEIGHT PER 20'
1/2"	2 1/2"	4.250	85.00
1/2"	3"	5.100	102.00
1/2"	3 1/2"	5.950	119.00
1/2"	4"	6.800	136.00
1/2"	4 1/2"	7.650	153.00
1/2"	5"	8.501	170.02
1/2"	6"	10.210	204.20
1/2"	7"	11.900	238.00
1/2"	8"	13.600	272.00
5/8"	2"	4.250	85.00
5/8"	2 1/2"	5.310	106.20
5/8"	3"	6.380	127.60
5/8"	4"	8.500	170.00
5/8"	5"	10.630	212.66
5/8"	6"	12.750	255.00
5/8"	8"	17.000	340.00
3/4"	2"	5.100	102.00
3/4"	2 1/2"	6.400	128.00
3/4"	3"	7.650	153.00
3/4"	4"	10.200	204.00
3/4"	5"	12.750	255.00
3/4"	6"	15.300	306.00
3/4"	7"	17.861	357.23
3/4"	8"	20.400	408.00
1"	2"	6.800	136.00
1"	3"	10.200	204.00
1"	4"	13.600	272.00
1"	5"	17.020	340.33
1"	6"	20.400	408.00
1"	7"	23.800	476.00
1"	8"	27.230	544.60
1 1/4"	4"	17.016	340.33
1 1/4"	8"	34.033	680.67
1 1/2"	4"	20.420	408.40
1 1/2"	5"	25.525	510.50
1 1/2"	6"	30.630	612.60
1 1/4"	8"	40.840	816.80

# STRIPS

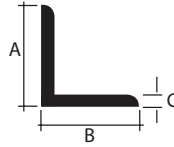
ASTM A570-33



THICKNESS 'A'	WIDTH 'B'	WEIGHT PER FOOT	WEIGHT PER 20'
1/8"	1/2"	0.213	4.26
1/8"	3/4"	0.319	6.38
1/8"	1"	0.425	8.50
1/8"	1 1/4"	0.531	10.62
1/8"	1 1/2"	0.638	12.76
1/8"	2"	0.850	17.00
1/8"	2 1/2"	1.060	21.20
1/8"	3"	1.275	25.50
1/8"	4"	1.700	34.00
1/8"	5"	2.125	42.50
1/8"	6"	2.540	50.80
1/8"	8"	3.400	68.00
3/16"	1/2"	0.319	6.38
3/16"	3/4"	0.479	9.58
3/16"	1"	0.638	12.76
3/16"	1 1/4"	0.797	15.94
3/16"	1 1/2"	0.956	19.12
3/16"	2"	1.276	25.52
3/16"	2 1/2"	1.596	31.92
3/16"	3"	1.913	38.26
3/16"	4"	2.550	51.00
3/16"	5"	3.190	63.80
3/16"	6"	3.830	76.60
3/16"	8"	5.100	102.00

# BAR ANGLES

ASTM A36



DIMENSION 'A'	DIMENSION 'B'	THICKNESS 'C'	WEIGHT PER FOOT	WEIGHT PER 20'	WEIGHT PER 40'
1/2"	1/2"	1/8"	0.38	7.60	N/A
3/4"	3/4"	1/8"	0.59	11.80	N/A
1"	1"	1/8"	0.80	16.00	32.80
1"	1"	3/16"	1.16	23.20	46.40
1"	1"	1/4"	1.49	29.80	59.60
1 1/4"	1 1/4"	1/8"	1.01	20.20	40.40
1 1/4"	1 1/4"	3/16"	1.48	29.60	59.20
1 1/4"	1 1/4"	1/4"	1.92	38.40	76.80
1 1/2"	1 1/2"	1/8"	1.23	24.60	49.20
1 1/2"	1 1/2"	3/16"	1.80	36.00	72.00
1 1/2"	1 1/2"	1/4"	2.34	46.80	93.60
1 3/4"	1 3/4"	1/8"	1.44	28.80	57.60
1 3/4"	1 3/4"	3/16"	2.12	42.40	84.80
1 3/4"	1 3/4"	1/4"	2.77	55.40	110.80
2"	1 1/2"	1/8"	1.44	28.80	57.60
2"	1 1/2"	3/16"	2.12	42.40	84.80
2"	1 1/2"	1/4"	2.77	55.40	110.80
2"	2"	1/8"	1.65	33.00	66.00
2"	2"	3/16"	2.44	48.80	97.60
2"	2"	1/4"	3.19	63.80	127.60
2"	2"	3/8"	4.70	94.00	188.00
2 1/2"	2"	3/16"	2.75	55.00	110.00
2 1/2"	2"	1/4"	3.62	72.40	144.80
2 1/2"	2"	3/8"	5.30	106.00	212.00
2 1/2"	2 1/2"	3/16"	3.07	61.40	122.80
2 1/2"	2 1/2"	1/4"	4.10	82.00	164.00
2 1/2"	2 1/2"	3/8"	5.90	118.00	236.00
2 1/2"	2 1/2"	1/2"	7.70	154.00	308.00

# UM PLATE

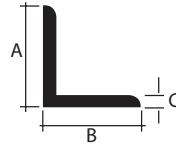
ASTM A36



THICKNESS 'A'	WIDTH 'B'	WEIGHT PER FOOT	WEIGHT PER 20'
1/8"	10"	4.250	85.00
1/8"	12"	5.100	102.00
3/16"	10"	6.380	127.60
3/16"	12"	7.650	153.00
1/4"	9"	7.650	153.00
1/4"	10"	8.500	170.00
1/4"	11"	9.350	187.00
1/4"	12"	10.210	204.20
5/16"	10"	10.633	212.66
3/8"	9"	11.493	229.86
3/8"	9 1/2"	12.110	242.20
3/8"	10"	12.750	255.00
3/8"	11"	14.043	280.87
3/8"	12"	15.300	306.00
1/2"	9"	15.300	306.00
1/2"	10"	17.000	340.00
1/2"	11"	18.700	374.00
1/2"	12"	20.420	408.40
5/8"	10"	21.270	425.40
5/8"	12"	25.533	510.66
3/4"	10"	25.530	510.60
3/4"	12"	30.639	612.78
1"	9"	30.639	612.78
1"	10"	34.000	680.00
1"	12"	40.852	817.04

# STRUCTURAL ANGLES

ASTM A36



DIMENSION 'A'	DIMENSION 'B'	THICKNESS 'C'	WEIGHT PER FOOT	WEIGHT PER 20'	WEIGHT PER 40'
3"	2"	3/16"	3.07	61.40	122.80
3"	2"	1/4"	4.10	82.00	164.00
3"	2"	5/16"	5.00	100.00	200.00
3"	2"	3/8"	5.90	118.00	236.00
3"	2 1/2"	3/16"	3.39	67.80	135.60
3"	2 1/2"	1/4"	4.50	90.00	180.00
3"	3"	3/16"	3.71	74.20	148.40
3"	3"	1/4"	4.90	98.00	196.00
3"	3"	5/16"	6.10	122.00	244.00
3"	3"	3/8"	7.20	144.00	288.00
3"	3"	1/2"	9.40	188.00	376.00
3 1/2"	2 1/2"	1/4"	4.90	98.00	196.00
3 1/2"	2 1/2"	3/8"	7.20	144.00	288.00
3 1/2"	2 1/2"	1/2"	9.40	188.00	376.00
3 1/2"	3"	1/4"	5.40	108.00	216.00
3 1/2"	3"	3/8"	7.90	158.00	316.00
3 1/2"	3 1/2"	1/4"	5.80	116.00	232.00
3 1/2"	3 1/2"	3/8"	8.50	170.00	340.00
3 1/2"	3 1/2"	1/2"	11.10	222.00	444.00
4"	3"	1/4"	5.80	124.00	232.00
4"	3"	3/8"	8.50	154.00	340.00
4"	3"	1/2"	11.10	182.00	444.00
4"	3 1/2"	1/4"	6.20	132.00	248.00
4"	3 1/2"	5/16"	7.70	196.00	308.00
4"	3 1/2"	3/8"	9.10	256.00	364.00
4"	4"	1/4"	6.60	132.00	264.00
4"	4"	3/8"	9.80	196.00	392.00
4"	4"	1/2"	12.80	256.00	512.00
5"	3"	1/4"	6.60	132.00	264.00
5"	3"	5/16"	8.20	164.00	328.00

# STRUCTURAL ANGLES (CONTINUED)

ASTM A36

DIMENSION 'A'	DIMENSION 'B'	THICKNESS 'C'	WEIGHT PER FOOT	WEIGHT PER 20'	WEIGHT PER 40'
5"	3"	3/8"	9.80	196.00	392.00
5"	3 1/2"	1/4"	7.00	140.00	280.00
5"	3 1/2"	5/16"	8.70	174.00	348.00
5"	3 1/2"	3/8"	10.40	208.00	416.00
5"	5"	5/16"	10.30	206.00	412.00
5"	5"	3/8"	12.30	246.00	492.00
5"	5"	1/2"	16.20	324.00	648.00
6"	3 1/2"	5/16"	9.80	196.00	392.00
6"	3 1/2"	3/8"	11.70	234.00	468.00
6"	4"	5/16"	10.30	206.00	412.00
6"	4"	3/8"	12.30	246.00	492.00
6"	4"	1/2"	16.20	324.00	648.00
6"	6"	5/16"	12.40	248.00	496.00
6"	6"	3/8"	14.90	298.00	596.00
6"	6"	1/2"	19.60	392.00	784.00
6"	6"	3/4"	28.70	574.00	1148.00
6"	6"	1"	37.40	748.00	1496.00
7"	4"	3/8"	13.61	272.00	544.40
8"	8"	1/2"	26.40	528.00	1056.00
8"	8"	3/4"	38.90	778.00	1556.00

# STRUCTURAL CHANNEL

ASTM A36



WEB WIDTH 'A'	LEG HEIGHT 'B'	WEB THICKNESS 'C'	WEIGHT PER FOOT	WEIGHT PER 20'	WEIGHT PER 40'
3"	1.355"	0.130"	3.50	70.00	140.00
3"	1.410"	0.170"	4.10	82.00	164.00
3"	1.498"	0.258"	5.00	100.00	200.00
3"	1.596"	0.356"	6.00	120.00	240.00
4"	1.560"	0.140"	4.50	90.00	180.00
4"	1.584"	0.184"	5.40	108.00	216.00
4"	1.647"	0.247"	6.25	125.00	250.00
4"	1.721"	0.321"	7.25	145.00	290.00
5"	1.750"	0.190"	6.70	134.00	268.00
5"	1.885"	0.325"	9.00	180.00	360.00
6"	1.920"	0.200"	8.20	164.00	328.00
6"	2.034"	0.314"	10.50	210.00	420.00
6"	2.157"	0.437"	13.00	260.00	520.00
7"	2.090"	0.210"	9.80	196.00	392.00
8"	1.875"	0.180"	8.50	170.00	340.00
8"	2.260"	0.220"	11.50	230.00	460.00
8"	2.343"	0.303"	13.75	275.00	550.00
8"	2.527"	0.487"	18.75	375.00	750.00
9"	2.433"	0.233"	13.40	268.00	536.00
9"	2.485"	0.285"	15.00	300.00	600.00
10"	2.600"	0.240"	15.30	306.00	612.00
10"	2.739"	0.379"	20.00	400.00	800.00
10"	2.886"	0.526"	25.00	500.00	1000.00
12"	2.942"	0.282"	20.70	414.00	828.00
12"	3.047"	0.387"	25.00	500.00	1000.00
12"	3.170"	0.510"	30.00	600.00	1200.00
15"	3.400"	0.400"	33.90	678.00	1356.00
15"	3.716"	0.716"	50.00	1000.00	2000.00

# JUNIOR CHANNEL

ASTM A36



WEB WIDTH 'A'	LEG HEIGHT 'B'	WEB THICKNESS 'C'	WEIGHT PER FOOT	WEIGHT PER 20'	WEIGHT PER 40'
8"	1.875"	0.180"	8.500	177.00	354.00
10"	1.500"	0.170"	8.400	168.00	336.00
12"	1.500"	0.190"	10.600	212.00	424.00

# MARINE CHANNEL

ASTM A36



WEB WIDTH 'A'	LEG HEIGHT 'B'	WEB THICKNESS 'C'	WEIGHT PER FOOT	WEIGHT PER 20'	WEIGHT PER 40'
3"	1.938"	0.312"	7.10	142.00	184.00
4"	2.500"	0.500"	13.80	276.00	552.00
6"	2.497"	0.310"	12.00	240.00	480.00
6"	3.500"	0.340"	15.30	306.00	612.00
8"	2.978"	0.353"	18.70	374.00	748.00
8"	3.025"	0.400"	20.00	400.00	800.00
8"	3.450"	0.375"	21.40	428.00	856.00
10"	1.500"	0.170"	8.40	168.00	336.00
10"	3.950"	0.425"	28.50	570.00	1140.00
12"	1.500"	0.190"	10.60	212.00	424.00

# ROUNDS



GRADES IN STOCK		DIAMETER "A"	WEIGHT PER FOOT	WEIGHT PER 20'
HOT ROLLED (ASTM A36)	COLD ROLLED (ASTM A108)			
-	Y	3/16"	0.094	1.88
Y	Y	1/4"	0.167	3.34
Y	Y	5/16"	0.261	5.22
Y	Y	3/8"	0.376	7.52
-	Y	7/16"	0.511	10.22
Y	Y	1/2"	0.668	13.36
Y	Y	9/16"	0.845	16.90
Y	Y	5/8"	1.043	20.86
-	Y	11/16"	1.262	25.24
Y	Y	3/4"	1.502	30.04
-	Y	13/16"	1.763	35.26
Y	Y	7/8"	2.045	40.90
-	Y	15/16"	2.347	46.94
Y	Y	1"	2.670	53.40
Y	Y	1 1/8"	3.380	67.60
-	Y	1 3/16"	3.770	75.40
Y	Y	1 1/4"	4.172	83.44
-	Y	1 5/16"	4.600	92.00
-	Y	1 3/8"	5.049	100.98
-	Y	1 7/16"	5.518	110.36
Y	Y	1 1/2"	6.008	120.16
-	Y	1 5/8"	7.051	141.02
Y	Y	1 3/4"	8.178	163.56
-	Y	1 15/16"	10.020	200.40
Y	Y	2"	10.680	213.60
-	Y	2 1/16"	11.360	227.20
-	Y	2 3/16"	12.780	255.60
Y	Y	2 1/4"	13.520	270.40

# ROUNDS (CONTINUED)

GRADES IN STOCK		DIAMETER "A"	WEIGHT PER FOOT	WEIGHT PER 20'
HOT ROLLED (ASTM A36)	COLD ROLLED (ASTM A108)			
-	Y	2 5/16"	14.280	285.60
-	Y	2 7/16"	15.870	317.40
Y	Y	2 1/2"	16.690	333.80
-	Y	2 15/16"	23.040	460.80
Y	Y	3"	24.030	480.60
-	Y	3 7/16"	31.580	631.60
Y	Y	3 1/2"	32.710	654.20

# REBAR (REINFORCING BAR)

ASTM A36



GRADES IN STOCK			DIAMETER	WEIGHT PER FOOT	WEIGHT PER 20'
GRADE 40	GRADE 60	BAR #			
Y	Y	#3	3/8"	0.376	7.52
Y	Y	#4	1/2"	0.668	13.36
Y	Y	#5	5/8"	1.043	20.86
-	Y	#6	3/4"	1.502	30.04
-	Y	#7	7/8"	2.044	40.88
-	Y	#8	1"	2.670	53.40
-	Y	#9	1 1/8"	3.400	68.00
-	Y	#10	1 1/4"	4.300	86.00
-	Y	#11	1 3/8"	5.313	106.26
-	Y	#14	1 1/2"	7.650	153.00

# SQUARE BAR

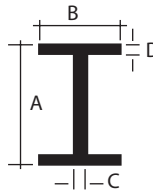
ASTM A36

DESCRIPTION "A"	WEIGHT PER FOOT	WEIGHT PER 20'
1/4"	0.213	4.25
3/8"	0.478	9.56
1/2"	0.850	17.00
5/8"	1.330	26.60
3/4"	1.913	38.26
7/8"	2.603	52.06
1"	3.400	68.00
1 1/4"	5.313	106.26
1 1/2"	7.650	153.00
2"	13.600	272.00

# WIDE FLANGE BEAMS

ASTM A36 AVAILABLE IN 20', 25', 30', 40', 50', 60' LENGTHS

SIZE DEPTH & FLANGE	WEIGHT PER FOOT	DEPTH IN INCHES	FLANGE WIDTH INCHES	WEB THICKNESS INCHES	FLANGE THICKNESS INCHES
		'A'	'B'	'C'	'D'
4" x 4"	13	4.160	4.060	.280	.345
6" x 4"	9	5.900	3.940	.170	.215
6" x 4"	12	6.030	4.000	.230	.280
6" x 4"	16	6.280	4.030	.260	.405
6" x 6"	15	5.990	5.990	.230	.260
6" x 6"	20	6.200	6.018	.260	.365
6" x 6"	25	6.380	6.080	.320	.455
8" x 4"	10	7.890	3.940	.170	.205
8" x 4"	13	7.990	4.000	.230	.255
8" x 4"	15	8.110	4.015	.245	.315
8" x 5"	18	8.140	5.250	.230	.330
8" x 5"	21	8.280	5.270	.250	.400
8" x 6"	24	7.930	6.495	.245	.400
8" x 6"	28	8.060	6.535	.285	.465
8" x 8"	31	8.000	9.995	.285	.435
8" x 8"	35	8.120	8.020	.310	.495
8" x 8"	40	8.250	8.070	.365	.560
8" x 8"	48	8.500	8.110	.405	.685
8" x 8"	58	8.750	8.220	.510	.810
8" x 8"	67	9.000	8.280	.570	.935
10" x 4"	12	9.870	3.960	.190	.210
10" x 4"	15	9.990	4.000	.230	.270
10" x 4"	17	10.125	4.000	.250	.330
10" x 4"	19	10.240	4.020	.250	.395
10" x 5 3/4"	22	10.170	5.750	.240	.360
10" x 5 3/4"	26	10.330	5.770	.260	.440
10" x 5 3/4"	30	10.470	5.810	.300	.510
10" x 8"	33	9.730	7.960	.290	.435
10" x 8"	39	9.920	7.985	.315	.530
10" x 8"	45	10.100	8.020	.350	.620



# WIDE FLANGE BEAMS (CONTINUED)

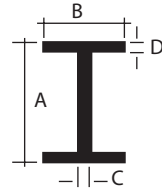
ASTM A36 AVAILABLE IN 20', 25', 30', 40', 50', 60' LENGTHS

SIZE DEPTH & FLANGE	WEIGHT PER FOOT	DEPTH IN INCHES	FLANGE WIDTH INCHES	WEB THICKNESS INCHES	FLANGE THICKNESS INCHES
		'A'	'B'	'C'	'D'
10" x 10"	49	9.980	10.000	0.340	.560
10" x 10"	54	10.090	10.030	0.370	.615
10" x 10"	60	10.220	10.080	0.420	.680
10" x 10"	68	10.400	10.130	0.470	.770
12" x 4"	14	11.910	3.970	0.200	.225
12" x 4"	16	11.990	3.990	0.220	.265
12" x 4"	19	12.160	4.005	0.235	.350
12" x 4"	22	12.310	4.030	0.260	.425
12" x 6 1/2"	26	12.220	6.490	0.230	.380
12" x 6 1/2"	30	12.340	6.520	0.260	.440
12" x 6 1/2"	35	12.500	6.560	0.300	.520
12" x 8"	40	11.940	8.000	0.295	.515
12" x 8"	45	12.060	8.042	0.335	.575
12" x 8"	50	12.190	8.080	0.370	.640
12" x 9"	53	12.060	9.995	0.345	.575
12" x 10"	58	12.190	10.010	0.360	.640
12" x 12"	65	12.120	12.000	0.390	.605
12" x 12"	72	12.250	12.040	0.430	.670
14" x 5"	22	13.740	5.000	0.230	.335
14" x 5"	26	13.910	5.025	0.255	.420
14" x 6 1/2"	30	13.840	6.730	0.270	.385
14" x 6 1/2"	34	13.980	6.745	0.285	.455
14" x 6 1/2"	36	14.000	6.755	0.295	.515
14" x 6 1/2"	38	14.100	6.770	0.310	.515
14" x 8"	43	13.660	7.995	0.305	.530
14" x 8"	48	13.790	8.030	0.340	.595
14" x 8"	53	13.920	8.060	0.370	.660
14" x 10"	61	13.890	9.995	0.375	.645
14" x 10"	68	14.040	10.035	0.415	.720
14" x 10"	74	14.170	10.070	0.450	.785

# WIDE FLANGE BEAMS (CONTINUED)

ASTM A36 AVAILABLE IN 20', 25', 30', 40', 50', 60' LENGTHS

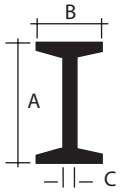
SIZE DEPTH & FLANGE	WEIGHT PER FOOT	DEPTH IN INCHES	FLANGE WIDTH INCHES	WEB THICKNESS INCHES	FLANGE THICKNESS INCHES
		'A'	'B'	'C'	'D'
14" x 10"	82	14.310	10.130	0.510	.855
16" x 5 1/2"	26	15.690	5.500	0.250	.345
16" x 5 1/2"	31	15.880	5.255	0.275	.440
16" x 7"	36	15.860	6.985	0.295	.430
16" x 7"	40	16.010	6.995	0.305	.505
16" x 7"	45	16.130	7.035	0.345	.565
16" x 7"	50	16.260	7.070	0.380	.630
16" x 7"	57	16.430	7.120	0.430	.715
16" x 10"	67	16.330	10.235	0.395	.665
16" x 10"	77	16.520	10.295	0.455	.760
16" x 10"	89	16.750	10.365	0.525	.875
18" x 6"	35	17.700	6.000	0.300	.425
18" x 6"	40	17.900	6.015	0.315	.525
18" x 6"	46	18.060	6.060	0.360	.605
18" x 7 1/2"	50	17.990	7.495	0.355	.570
18" x 7 1/2"	55	18.110	7.530	0.390	.630
18" x 7 1/2"	60	18.240	7.555	0.415	.695
18" x 7 1/2"	65	18.350	7.590	0.450	.750
18" x 7 1/2"	71	18.470	7.635	0.495	.810
18" x 11 1/8"	97	18.590	11.145	0.535	.870
21" x 6 1/2"	44	20.660	6.500	0.350	.450
21" x 6 1/2"	50	20.830	6.530	0.380	.435
21" x 6 1/2"	57	21.060	6.555	0.405	.650
21" x 8 1/4"	62	20.990	8.240	0.400	.615
21" x 8 1/4"	68	21.130	8.270	0.430	.685
21" x 8 1/4"	73	21.240	8.295	0.455	.740
23 1/2" x 7"	55	23.570	7.005	0.395	.505
23 3/4" x 7"	62	23.740	7.040	0.430	.590
23 3/4" x 9"	68	23.730	8.965	0.415	.585
23 7/8" x 9"	76	23.730	8.965	0.415	.585



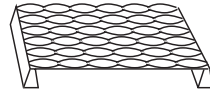
# STANDARD BEAM (I-BEAM)

ASTM A36

SIZE 'A'	WEIGHT PER FOOT	FLANGE THICKNESS	FLANGE WIDTH 'B'	WEB THICKNESS 'C'	WEIGHT PER 20'	WEIGHT PER 40'
3"	5.70	0.260	2.330	0.170	114.00	228.00
3"	7.50	0.260	2.509	0.349	150.00	300.00
4"	7.70	0.293	2.663	0.193	154.00	308.00
4"	9.50	0.293	2.796	0.326	190.00	380.00
5"	10.00	0.326	3.004	0.214	200.00	400.00
6"	4.40	0.171	1.844	0.114	88.00	176.00
6"	12.50	0.359	3.332	0.232	250.00	500.00
6"	17.25	0.379	3.565	0.465	345.00	690.00
8"	18.40	0.425	4.001	0.271	368.00	736.00
8"	23.00	0.425	4.171	0.441	460.00	920.00
10"	8.00	0.175	2.750	0.139	160.00	320.00
10"	9.00	0.206	2.690	0.157	180.00	360.00
10"	25.40	0.491	4.661	0.311	508.00	1016.00
10"	35.00	0.491	4.944	0.594	700.00	1400.00
12"	11.80	0.225	3.065	0.177	236.00	472.00
12"	31.80	0.544	5.000	0.350	636.00	1272.00
12"	40.80	0.659	5.252	0.472	816.00	1632.00



# GRIP STRUT



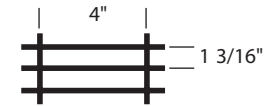
PRE-GALVANIZED

STOCK #	DIAMOND ACROSS WEB	WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS 'C'	WEIGHT PER FOOT	LENGTH
215014120	2	4 3/4"	1 1/2"	14GA	2.30	120"
315014120	3	7"	1 1/2"	14GA	3.00	120"
415014144	4	9 1/2"	1 1/2"	14GA	3.60	144"
415014120	4	9 1/2"	1 1/2"	14GA	3.60	120"
415014144	4	9 1/2"	1 1/2"	14GA	3.60	144"
415014120	4	9 1/2"	1 1/2"	14GA	3.60	120"
520014120	5	11 3/4"	2"	14GA	4.40	120"
815014144	8	18 3/4"	1 1/2"	14GA	6.10	144"
815014120	8	18 3/4"	1 1/2"	14GA	6.10	120"
LADDER RUNGS		1 5/8"	1 5/8"	14GA	0.99	48 3/4"
LADDER RUNGS		1 5/8"	1 5/8"	14GA	0.99	60 3/4"

P&O MATERIALS

STOCK #	DIAMOND ACROSS WEB	WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS 'C'	WEIGHT PER FOOT	LENGTH
0149515144PO	4	9 1/2"	1 1/2"	14GA	3.60	144"
0149515120PO	4	9 1/2"	1 1/2"	14GA	3.60	120"
01492144PO	4	9 1/2"	2"	14GA	4.40	144"
01492120PO	4	9 1/2"	2"	14GA	4.40	120"
14111212144PO	5	11 3/4"	2"	14GA	4.40	144"
014118144PO	8	18 3/4"	2"	14GA	6.10	144"
014118120PO	8	18 3/4"	2"	14GA	6.10	120"
0142421144PO	12	24"	2"	14GA	8.09	144"

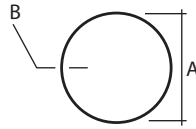
# BAR GRATING



BAR SIZE	SPAN (WIDTH X LENGTH)	WEIGHT PER SQ. FOOT	WIDTH IN INCHES	LENGTH IN INCHES	WEIGHT PER PIECE
1/8 x 1"	1 3/16 x 4"	7.50	24	120	150.00
1/8 x 1"	1 3/16 x 4"	7.50	24	240	300.00
1/8 x 1"	1 3/16 x 4"	7.50	36	120	225.00
1/8 x 1"	1 3/16 x 4"	7.50	36	240	450.00
3/16 x 1"	1 3/16 x 4"	9.00	24	240	360.00
3/16 x 1"	1 3/16 x 4"	9.00	36	120	270.00
3/16 x 1"	1 3/16 x 4"	9.00	36	240	540.00
3/16 x 1 1/4"	1 3/16 x 4"	9.27	24	240	370.00
3/16 x 1 1/4"	1 3/16 x 4"	9.27	36	240	556.20
3/16 x 1 1/2"	1 3/16 x 4"	12.00	36	240	720.00
3/16 x 1 1/2"	1 3/16 x 4"	12.00	36	288	864.00
1 1/4 x 1"	1 3/16 x 4"	9.20	36	240	552.00

# PIPE

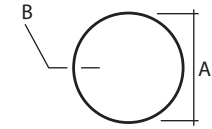
ASTM A53 / A500 \* AVAILABLE IN BARE A500



INSIDE DIMENSION 'A'	OD	WALL THICKNESS DECIMAL 'B'	SCH.	WEIGHT PER FOOT	WEIGHT PER 21'	WEIGHT PER 42'
1/4"	0.540	0.0800	40	0.420	8.82	N/A
3/8"	0.675	0.0910	40	0.570	11.97	N/A
1/2" *	0.840	0.1090	40	0.850	17.85	N/A
3/4" *	1.050	0.1130	40	1.130	23.73	N/A
3/4"	1.050	0.1540	80	1.470	30.87	N/A
1" *	1.315	0.1330	40	1.680	35.28	N/A
1"	1.315	0.1790	80	2.170	45.57	N/A
1 1/4" *	1.660	0.1400	40	2.270	47.67	N/A
1 1/4"	1.660	0.1910	80	3.000	63.00	N/A
1 1/2" *	1.900	0.1450	40	2.270	57.12	N/A
1 1/2"	1.900	0.2000	80	3.630	76.23	N/A
2" *	2.375	0.1540	40	3.650	76.65	153.30
2"	2.375	0.2180	80	5.020	105.42	210.84
2 1/2" *	2.875	0.2030	40	5.790	121.59	243.18
2 1/2"	2.875	0.2760	80	7.660	160.86	243.18
3" *	3.500	0.2160	40	7.580	159.18	318.26
3"	3.500	0.3000	80	10.250	215.25	243.18
3 1/2" *	4.000	0.2260	40	9.110	191.31	382.62
3 1/2"	4.000	0.3180	80	12.510	262.71	525.42
4" *	4.500	0.2370	40	10.790	226.59	453.18
4"	4.500	0.3370	80	14.980	314.58	629.16
5" *	5.563	0.2580	40	14.620	307.02	614.04
5"	5.563	0.3750	80	20.780	436.38	872.76
6" *	6.625	0.2800	40	18.970	398.37	796.74
6"	6.625	0.4320	80	28.570	599.97	1199.94
8" *	8.625	0.3220	40	28.550	599.55	1199.10
8"	8.625	0.5000	80	43.390	911.19	1822.38
10" *	10.750	0.3650	40	40.480	850.08	1700.16
12" *	12.750	0.3750	40	49.560	1040.76	2081.52

# PAINTED PIPE (RED OXIDE PRIMED)

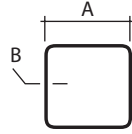
ASTM 513



INSIDE DIMENSION 'A'	OD	WALL THICKNESS DECIMAL 'B'	SCH.	WEIGHT PER FOOT	WEIGHT PER		
					21'	32'	42'
2"	2 3/8"	10 GA.	—	3.264	68.54	104.45	—
2 1/2"	2 7/8"	10 GA.	—	3.951	82.97	126.43	165.94
3"	3 1/2"	3/16	—	6.650	139.65	—	183.29
4"	4 1/2"	3/16	—	8.658	181.82	—	363.64
6"	6 5/8"	3/16	—	12.925	271.43	—	542.86

# SQUARE TUBING

ASTM A500 R = RED PRIMER



PRIMED	OUTSIDE DIMENSION 'A'	THICKNESS GAUGE 'B'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER		
					20'	24'	40'
R	1/2"	16	0.065	0.385	7.70	9.24	N/A
R	3/4"	16	0.065	0.606	12.12	14.54	N/A
R	3/4"	14	0.083	0.752	15.05	18.06	N/A
R	1"	16	0.065	0.827	16.54	19.84	N/A
R	1"	14	0.083	1.040	20.80	24.96	N/A
	1"	11	0.120	1.440	28.80	34.56	N/A
R	1 1/4"	16	0.065	1.027	20.54	24.65	N/A
R	1 1/4"	14	0.083	1.317	26.34	31.61	N/A
	1 1/4"	11	0.120	1.844	36.88	44.26	N/A
R	1 1/2"	16	0.065	1.270	25.40	30.48	N/A
R	1 1/2"	14	0.083	1.600	32.00	38.40	N/A
	1 1/2"	12	0.097	1.992	39.84	47.81	N/A
	1 1/2"	11	0.120	2.250	45.00	54.00	N/A
	1 1/2"	3/16"	0.188	3.230	64.60	77.52	N/A
	1 1/2"	1/4"	0.250	4.067	81.34	97.61	N/A
R	1 3/4"	14	0.083	1.880	37.60	45.12	N/A
	1 3/4"	11	0.120	2.660	53.20	63.84	N/A
R	2"	16	0.065	1.710	34.20	41.04	N/A
R	2"	14	0.083	2.160	43.20	51.84	N/A
R	2"	11	0.120	3.070	61.40	73.68	122.80
R	2"	3/16"	0.188	4.320	86.40	103.68	172.80
	2"	1/4"	0.250	5.410	108.20	129.84	216.40
	2 1/2"	14	0.083	2.730	54.60	65.52	109.20
	2 1/2"	11	0.120	3.884	77.68	93.22	155.36
	2 1/2"	3/16"	0.188	5.590	111.80	134.16	223.60
	2 1/2"	1/4"	0.250	7.110	142.20	170.64	284.40
R	3"	14	0.083	3.290	65.80	78.96	131.60
R	3"	11	0.120	4.700	94.00	112.80	188.00
R	3"	3/16"	0.188	6.870	137.40	164.88	274.80
	3"	1/4"	0.250	8.810	176.20	211.44	352.40
	3"	5/16"	0.312	10.580	211.60	253.92	423.20
	3"	3/8"	0.375	13.220	264.40	317.28	528.80

# SQUARE TUBING (CONTINUED)

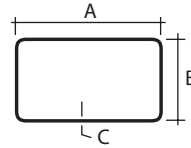
ASTM A500 R = RED PRIMER

PRIMED	OUTSIDE DIMENSION 'A'	THICKNESS GAUGE 'B'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER		
					20'	24'	40'
	3 1/2"	11	0.120	5.680	113.60	136.32	227.20
	3 1/2"	3/16"	0.188	8.150	163.00	195.60	326.00
	3 1/2"	1/4"	0.250	10.510	210.20	252.24	420.40
R	4"	14	0.083	4.420	88.40	106.08	176.80
R	4"	11	0.120	6.460	129.20	155.04	258.40
R	4"	3/16"	0.188	9.420	188.40	226.08	376.80
	4"	1/4"	0.250	12.210	244.20	293.04	488.40
	4"	5/16"	0.312	14.830	296.60	355.92	593.20
	4"	3/8"	0.375	17.270	345.40	414.48	690.80
	4"	1/2"	0.500	21.630	432.60	519.12	865.20
	5"	11	0.097	7.964	159.28	191.14	318.56
	5"	3/16"	0.188	11.970	239.40	287.28	478.80
	5"	1/4"	0.250	15.620	312.40	374.88	624.80
	5"	3/8"	0.375	22.370	447.40	536.88	894.80
	6"	3/16"	0.188	14.530	290.60	348.72	581.20
	6"	1/4"	0.250	19.020	380.40	456.48	760.80
	6"	3/8"	0.375	27.480	549.60	659.52	1099.20
	6"	1/2"	0.500	35.240	704.80	845.76	1409.60
	8"	3/16"	0.188	19.630	392.60	471.12	785.20
	8"	1/4"	0.250	25.820	516.40	619.68	1032.80
	8"	3/8"	0.375	37.690	753.80	904.56	1507.60
	8"	1/2"	0.500	48.580	977.00	1172.40	1954.00
	10"	3/16"	0.188	24.730	494.60	593.52	989.20
	10"	1/4"	0.250	32.630	652.60	783.12	1305.20
	10"	5/16"	0.313	40.350	807.00	968.40	1614.00
	10"	3/8"	0.375	47.900	958.00	1149.60	1916.60
	12"	1/4"	0.250	39.430	788.60	946.32	1577.20
	12"	3/8"	0.375	58.100	1162.00	1394.40	2324.00
	12"	1/2"	0.500	76.070	1521.40	1825.68	3042.80

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# RECTANGULAR TUBING

ASTM A500 R = Red PRIMER



PRIMED	DIMENSION		THICKNESS GAUGE 'C'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER		
	'A'	'B'				20'	24'	40'
	1"	1/2"	16	0.065	0.570	11.40	13.68	N/A
	1 1/2"	1"	11	0.120	1.840	36.80	44.16	N/A
	1 1/2"	1"	14	0.083	1.320	26.40	31.68	N/A
	1 1/2"	1"	16	0.065	1.027	20.54	24.65	N/A
	2"	1"	16	0.065	1.248	24.96	29.95	N/A
R	2"	1"	14	0.083	1.600	32.00	38.40	N/A
	2"	1"	11	0.120	2.250	45.00	54.00	N/A
	2"	1"	14	0.083	1.882	37.64	45.17	N/A
	2"	1 1/2"	11	0.120	2.660	53.20	63.84	N/A
	2"	1 1/2"	14	0.083	2.160	43.20	51.84	N/A
	2 1/2"	1 1/2"	14	0.083	1.840	36.80	44.16	N/A
	3"	1"	12	0.109	2.730	54.60	65.52	N/A
R	3"	1"	14	0.083	2.450	49.00	58.80	N/A
	3"	1"	16	0.065	1.660	33.20	39.84	N/A
	3"	1 1/2"	11	0.120	3.630	72.60	87.12	N/A
	3"	1 1/2"	3/16"	0.188	5.070	101.40	121.68	N/A
R	3"	1 1/2"	14	0.083	2.730	54.60	65.52	N/A
	3"	2"	1/4"	0.250	7.110	142.20	170.64	284.40
	3"	2"	3/16"	0.188	5.590	111.80	134.16	223.60
	3"	2"	11	0.120	3.880	77.60	93.21	155.20
R	3"	2"	14	0.083	2.730	54.60	65.52	N/A
R	4"	2"	14	0.083	3.290	65.80	78.96	N/A
R	4"	2"	11	0.120	4.750	95.00	114.00	190.00
R	4"	2"	3/16"	0.188	6.870	137.40	164.88	274.80
R	4"	2"	1/4"	0.250	8.810	176.20	211.44	352.40
	4"	2"	5/16"	0.312	10.580	211.60	253.92	423.20
	4"	3"	11	0.120	5.610	112.20	134.64	224.40
	4"	3"	3/16"	0.188	8.150	163.00	195.60	326.00
	4"	3"	1/4"	0.250	10.510	210.20	252.24	420.40
	5"	2"	11	0.120	5.610	112.20	134.64	224.40
	5"	2"	3/16"	0.188	8.150	163.00	195.60	326.00
	5"	2"	1/4"	0.250	10.510	210.20	252.24	420.40

# RECTANGULAR TUBING (CONTINUED)

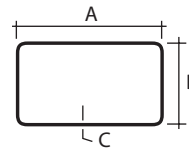
ASTM A500 R = Red PRIMER

PRIMED	DIMENSION		THICKNESS GAUGE 'C'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER		
	'A'	'B'				20'	24'	40'
	5"	3"	11	0.120	6.460	129.20	155.04	258.40
	5"	3"	3/16"	0.188	9.420	188.40	226.08	376.80
	5"	3"	1/4"	0.250	12.210	244.20	293.04	488.40
	5"	3"	3/8"	0.375	17.270	345.40	414.48	690.80
R	6"	2"	14	0.083	4.420	88.40	106.08	176.80
R	6"	2"	11	0.120	6.460	129.20	155.04	258.40
R	6"	2"	3/16"	0.188	9.420	188.40	226.08	376.80
R	6"	2"	1/4"	0.250	12.210	244.20	293.04	488.40
	6"	3"	11	0.120	7.310	146.20	175.44	292.40
	6"	3"	3/16"	0.188	10.700	214.00	256.80	428.00
	6"	3"	1/4"	0.250	13.910	278.20	333.84	556.40
	6"	3"	3/8"	0.375	19.820	396.40	475.68	792.80
	6"	3"	1/2"	0.500	4.280	485.60	582.72	971.20
	6"	4"	11	0.120	8.860	177.20	212.64	354.40
	6"	4"	3/16"	0.188	11.970	239.40	287.28	478.80
	6"	4"	1/4"	0.250	15.620	312.40	374.88	624.80
	6"	4"	3/8"	0.375	22.370	447.40	536.88	894.80
	7"	3"	1/4"	0.250	15.620	312.40	374.88	624.80
	7"	3"	3/8"	0.375	22.370	447.40	536.88	894.80
	7"	4"	3/8"	0.375	24.930	498.60	598.32	997.20
	8"	2"	3/16"	0.188	11.970	239.40	287.28	478.80
	8"	2"	1/4"	0.250	17.320	346.40	415.68	692.80
	8"	3"	11	0.120	8.860	177.20	212.64	354.40
	8"	3"	3/16"	0.188	13.250	265.00	318.00	530.00
	8"	3"	1/4"	0.250	17.320	346.40	415.68	692.80
	8"	4"	3/16"	0.375	14.530	290.60	348.72	581.20
	8"	4"	1/4"	0.250	19.020	380.40	456.48	760.80

# RECTANGULAR TUBING (CONTINUED)

ASTM A500

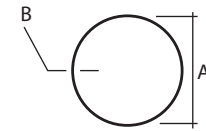
R = RED PRIMER



PRIMED	DIMENSION		THICKNESS GAUGE 'C'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER		
	'A'	'B'				20'	24'	40'
	8"	4"	3/8"	0.375	27.480	549.60	659.52	1099.20
	8"	4"	1/2"	0.500	35.240	704.80	845.76	1409.60
	8"	6"	3/16"	0.188	17.080	341.60	409.92	683.20
	8"	6"	1/4"	0.250	22.420	448.40	538.08	896.80
	8"	6"	3/8"	0.375	32.580	651.60	781.92	1303.20
	8"	6"	1/2"	0.500	42.050	841.00	1009.20	1682.00
	10"	2"	3/16"	0.188	14.530	290.60	348.72	581.20
	10"	3"	1/4"	0.250	20.720	414.40	497.28	828.80
	10"	4"	3/16"	0.188	17.080	341.60	409.92	683.20
	10"	4"	1/4"	0.250	22.420	448.40	538.08	896.80
	10"	4"	5/16"	0.312	27.590	551.80	662.16	1103.60
	10"	4"	3/8"	0.375	32.580	651.60	781.92	1303.20
	10"	6"	3/16"	0.188	19.630	392.60	471.12	785.20
	10"	6"	1/4"	0.250	25.820	516.40	619.68	1032.80
	10"	6"	3/8"	0.375	37.690	753.80	904.56	1507.60
	10"	8"	1/2"	0.500	55.660	1113.20	1335.84	2226.40
	12"	2"	3/16"	0.188	17.080	341.60	409.92	683.20
	12"	2"	1/4"	0.250	22.420	448.40	538.08	896.80
	12"	4"	3/16"	0.188	19.630	392.60	471.12	785.20
	12"	4"	1/4"	0.250	25.820	516.40	619.68	1302.80
	12"	4"	3/8"	0.375	37.690	753.80	904.56	1507.60
	12"	6"	1/4"	0.250	29.230	584.60	701.52	1169.20
	12"	6"	3/8"	0.375	42.790	855.80	1026.96	1711.60
	12"	8"	1/4"	0.250	29.830	596.60	715.92	1193.20
	14"	6"	1/4"	0.250	32.630	652.60	783.12	1305.20
	14"	6"	5/16"	0.312	40.350	807.00	968.40	1614.00
	14"	6"	3/8"	0.375	47.900	958.00	1149.60	1916.00
	14"	6"	1/2"	0.500	62.460	1249.20	1499.04	2498.40

# ROUND TUBING

ASTM A513



OUTSIDE DIMENSION 'A'	WALL THICKNESS GAUGE 'B'	WALL THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER 20'	WEIGHT PER 24'
1/2"	20	0.039	0.1740	3.48	4.17
3/4"	16	0.065	0.4755	9.51	11.41
3/4"	14	0.083	0.5900	11.80	14.16
1"	16	0.065	0.6491	12.98	15.57
1"	14	0.083	0.8129	16.25	19.50
1"	12	0.109	1.0370	20.74	24.89
1"	11	0.112	1.1280	22.56	27.07
1 1/4"	14	0.083	1.0340	20.68	24.81
1 1/4"	12	0.109	1.3280	26.56	31.87
1 1/4"	11	0.120	1.4400	28.80	34.56
1.315"	14	0.083	1.0900	21.80	26.16
1.315"	12	0.112	1.2300	24.60	29.52
1 1/2"	14	0.083	1.2600	25.20	30.24
1 1/2"	12	0.109	1.6190	32.38	38.85
1 1/2"	11	0.125	1.7690	35.38	44.06
1.66"	14	0.083	1.3980	N/A	33.55
1.66"	12	0.112	1.7600	35.20	42.24
1.66"	10	0.135	2.1840	45.86	N/A
1 3/4"	16	0.065	1.1700	23.40	28.08
1 3/4"	11	0.120	2.0900	41.80	50.16
1.90"	14	0.083	1.6110	N/A	38.66
1.90"	10	0.135	2.7200	57.12	N/A
2 3/8"	16	0.065	1.5900	31.80	38.16
2 3/8"	14	0.083	2.0320	40.64	48.77
2 3/8"	13	0.092	2.3100	46.20	55.44
2 3/8"	12	0.112	2.6400	52.80	66.36
2 7/8"	14	0.083	2.4750	49.50	59.40
2 7/8"	12	0.112	3.2200	64.40	77.28
2 7/8"	11	0.125	3.5300	70.60	84.72
2 7/8"	10	0.135	3.9400	78.80	94.56

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## STANDARD EXPANDED METAL



STYLE	WEIGHT PER SQ. FT.	OPENING SHORT WAY	OPENING LONG WAY	STRAND THICKNESS	SIZE WIDTH	OVERALL THICKNESS	SHEET SIZE
1/4 #20	0.86	.170	.720	.036	.073	.125	48 x 96
1/2 #13	1.47	.312	.938	.092	.096	.204	48 x 96
1/2 #16	0.86	.375	.938	.060	.087	.175	48 x 96
3/4 #9	1.80	.690	1.560	.134	.148	.300	48 x 96
3/4 #9	1.80	.690	1.560	.134	.148	.300	48 x 120
3/4 #9	1.80	.690	1.560	.134	.148	.300	60 x 120
3/4 #13	1.47	.750	1.688	.092	.096	.205	48 x 96
3/4 #13	1.47	.750	1.688	.092	.096	.205	48 x 120
3/4 #13	1.47	.750	1.688	.092	.096	.205	60 x 120
3/4 #16	0.54	.813	1.750	.060	.093	.210	60 x 120
1 1/2 #6	2.50	1.000	2.310	.198	.201	.425	48 x 96
1 1/2 #6	2.50	1.000	2.310	.198	.201	.425	60 x 96
1 1/2 #9	1.20	1.130	2.380	.134	.142	.295	48 x 96
1 1/2 #9	1.20	1.130	2.380	.134	.142	.295	48 x 120
1 1/2 #16	0.60	1.190	2.500	.092	.104	.215	48 x 96

## GRATING



STYLE	WEIGHT PER SQ. FT.	OPENING SHORT WAY	OPENING LONG WAY	STRAND THICKNESS	SIZE WIDTH	OVERALL THICKNESS	SHEET SIZE
#3	3.00	.940	3.44	.183	.261	.540	48 x 96
#3	3.00	.940	3.44	.183	.261	.540	48 x 120
#3	3.00	.940	3.44	.183	.261	.540	60 x 96
#3	3.00	.940	3.44	.183	.261	.540	60 x 120
#3.14	3.14	1.625	4.88	.250	.312	.656	48 x 96
#3.14	3.14	1.625	4.88	.250	.312	.656	48 x 120
#4	4.00	.940	3.44	.215	.297	.618	48 x 96
#4	4.00	.940	3.44	.215	.297	.618	48 x 120
#4	4.00	.940	3.44	.215	.297	.618	60 x 96
#4.27	4.27	1.000	2.88	.250	.297	.625	48 x 96
#4.27	4.27	1.000	2.88	.250	.297	.625	60 x 96

## FLATTENED EXPANDED METAL



STYLE	WEIGHT PER SQ. FT.	OPENING SHORT WAY	OPENING LONG WAY	STRAND THICKNESS	SIZE WIDTH	OVERALL THICKNESS	SHEET SIZE
1/4 #18	1.08	.075	.710	.040	.075	.040	48 x 96
1/4 #20	.83	.084	.710	.036	.084	.030	48 x 96
1/2 #13	1.40	.250	1.000	.070	.122	.070	48 x 96
1/2 #13	1.40	.250	1.000	.070	.122	.070	48 x 120
1/2 #13	1.40	.250	1.000	.070	.122	.070	60 x 120
1/2 #16	.860	.820	.250	1.000	.050	.050	48 x 96
1/2 #16	.860	.820	.250	1.000	.050	.050	48 x 120
1/2 #16	.860	.820	.250	1.000	.050	.050	60 x 120
3/4 #9	1.71	.560	1.69	.120	.164	.120	48 x 96
3/4 #9	1.71	.560	1.69	.120	.164	.120	48 x 120
3/4 #9	1.71	.560	1.69	.120	.164	.120	60 x 120
3/4 #13	.750	.690	1.780	.070	.119	.070	48 x 96
3/4 #13	.750	.690	1.780	.070	.119	.070	60 x 96
3/4 #13	.750	.690	1.780	.070	.119	.070	60 x 120
1 1/2 #9	1.14	1.000	2.560	.110	.175	.110	48 x 96
1 1/2 #13	.650	1.060	2.750	.070	.138	.070	48 x 96
1 1/2 #16	.40	1.170	2.620	.050	.050	.050	48 x 96

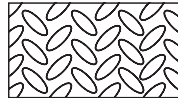
## PERFORATED SHEET



SHEET SIZE	HOLE SIZE	STAGGER	% OF OPENING
24 gauge 48" x 120"	3/32"	3/16"	23%
16 gauge 48" x 120"	1/8"	3/16"	41%
16 gauge 48" x 120"	3/16"	1/4"	53%
16 gauge 48" x 120"	5/32"	3/16"	63%

# FLOOR PLATE (DIAMOND PLATE)

ASTM 716



THICKNESS	WEIGHT PER Sq. FOOT	WIDTH	LENGTH	WEIGHT PER SHEET
14	3.750	48"	96"	120.00
14	3.750	48"	120"	150.00
14	3.750	48"	144"	180.00
14	3.750	48"	240"	300.00
1/8"	6.160	48"	96"	197.12
1/8"	6.160	48"	120"	246.40
1/8"	6.160	48"	144"	295.68
1/8"	6.160	48"	240"	492.80
1/8"	6.160	48"	108"	221.76
1/8"	6.160	48"	132"	271.04
1/8"	6.160	60"	96"	246.40
1/8"	6.160	60"	120"	308.00
1/8"	6.160	60"	144"	369.60
1/8"	6.160	60"	240"	616.00
1/8"	6.160	72"	96"	295.68
1/8"	6.160	72"	120"	369.60
1/8"	6.160	72"	144"	443.52
1/8"	6.160	72"	240"	739.20

# FLOOR PLATE (CONTINUED) (DIAMOND PLATE)

ASTM 716

THICKNESS	WEIGHT PER Sq. FOOT	WIDTH	LENGTH	WEIGHT PER SHEET
3/16"	8.710	48"	96"	278.72
3/16"	8.710	48"	120"	348.40
3/16"	8.710	48"	144"	418.08
3/16"	8.710	48"	240"	696.80
3/16"	8.710	60"	96"	348.40
3/16"	8.710	60"	120"	435.50
3/16"	8.710	60"	144"	522.60
3/16"	8.710	60"	240"	871.00
3/16"	8.710	72"	96"	418.08
3/16"	8.710	72"	120"	522.60
3/16"	8.710	72"	144"	627.12
3/16"	8.710	72"	240"	1045.20
1/4"	11.260	48"	96"	360.32
1/4"	11.260	48"	120"	450.40
1/4"	11.260	48"	144"	540.48
1/4"	11.260	48"	240"	900.80
1/4"	11.260	60"	96"	450.40
1/4"	11.260	60"	120"	563.00
1/4"	11.260	60"	144"	675.60
1/4"	11.260	60"	240"	1126.00
1/4"	11.260	72"	96"	540.48
1/4"	11.260	72"	120"	675.60
1/4"	11.260	72"	144"	810.72
1/4"	11.260	72"	240"	1351.20
1/4"	11.260	96"	240"	1801.60

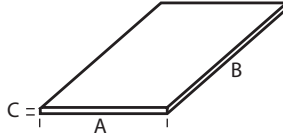
# FLOOR PLATE (CONTINUED) (DIAMOND PLATE)

ASTM 716

THICKNESS	WEIGHT PER Sq. FOOT	WIDTH	LENGTH	WEIGHT PER SHEET
3/8"	16.370	48"	96"	523.84
3/8"	16.370	48"	120"	654.80
3/8"	16.370	48"	144"	785.76
3/8"	16.370	48"	240"	1309.60
3/8"	16.370	60"	96"	654.80
3/8"	16.370	60"	120"	818.50
3/8"	16.370	60"	144"	982.20
3/8"	16.370	60"	240"	1637.00

# HOT ROLLED SHEET

ASTM A570 - 33



GAUGE 'C'	WEIGHT PER SQ. FOOT	THICKNESS DECIMAL	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
16	2.500	.0598	48"	96"	80.00
16	2.500	.0598	48"	120"	100.00
16	2.500	.0598	48"	144"	120.00
16	2.500	.0598	48"	240"	200.00
16	2.500	.0598	60"	96"	100.00
16	2.500	.0598	60"	120"	125.00
16	2.500	.0598	60"	144"	150.00
16	2.500	.0598	60"	240"	250.00
14	3.125	.0747	48"	96"	100.00
14	3.125	.0747	48"	120"	125.00
14	3.125	.0747	48"	144"	150.00
14	3.125	.0747	48"	240"	250.00
14	3.125	.0747	60"	96"	125.00
14	3.125	.0747	60"	120"	156.25
14	3.125	.0747	60"	144"	187.50
14	3.125	.0747	60"	240"	312.50
14	3.125	.0747	72"	120"	187.50
14	3.125	.0747	72"	144"	225.00
12	4.375	.1046	48"	96"	140.00
12	4.375	.1046	48"	120"	175.00
12	4.375	.1046	48"	144"	210.00
12	4.375	.1046	48"	240"	350.00
12	4.375	.1046	60"	96"	175.00
12	4.375	.1046	60"	120"	218.75
12	4.375	.1046	60"	144"	262.50
12	4.375	.1046	60"	240"	437.50
12	4.375	.1046	72"	96"	210.00
12	4.375	.1046	72"	120"	262.50
12	4.375	.1046	72"	144"	315.00
12	4.375	.1046	72"	240"	525.00
11	5.000	.1196	48"	96"	160.00
11	5.000	.1196	48"	120"	200.00
11	5.000	.1196	48"	144"	240.00

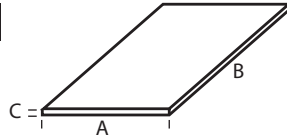
# HOT ROLLED SHEET (CONTINUED)

ASTM A570 - 33

GAUGE 'C'	WEIGHT PER SQ. FOOT	THICKNESS DECIMAL	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
11	5.000	.1196	48"	240"	400.00
11	5.000	.1196	60"	96"	200.00
11	5.000	.1196	60"	120"	250.00
11	5.000	.1196	60"	144"	300.00
11	5.000	.1196	60"	240"	500.00
11	5.000	.1196	72"	96"	240.00
11	5.000	.1196	72"	120"	300.00
11	5.000	.1196	72"	144"	360.00
11	5.000	.1196	72"	240"	600.00
10	5.625	.1345	48"	96"	180.00
10	5.625	.1345	48"	120"	225.00
10	5.625	.1345	48"	144"	270.00
10	5.625	.1345	48"	240"	450.00
10	5.625	.1345	60"	96"	225.00
10	5.625	.1345	60"	120"	281.25
10	5.625	.1345	60"	144"	337.50
10	5.625	.1345	60"	240"	562.50
10	5.625	.1345	72"	96"	270.00
10	5.625	.1345	72"	120"	337.50
10	5.625	.1345	72"	144"	405.00
10	5.625	.1345	72"	240"	675.00
10	5.625	.1345	84"	120"	393.75
10	5.625	.1345	84"	240"	787.50

# HOT ROLLED PLATE

ASTM A36



THICKNESS 'C'	WEIGHT PER SQ. FOOT	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
3/16"	7.66	48"	96"	245.12
3/16"	7.66	48"	120"	306.40
3/16"	7.66	48"	144"	367.68
3/16"	7.66	48"	240"	612.80
3/16"	7.66	60"	96"	304.40
3/16"	7.66	60"	120"	383.00
3/16"	7.66	60"	144"	459.60
3/16"	7.66	60"	240"	766.00
3/16"	7.66	72"	96"	367.68
3/16"	7.66	72"	120"	459.60
3/16"	7.66	72"	144"	551.52
3/16"	7.66	72"	240"	919.20
3/16"	7.66	84"	120"	536.20
3/16"	7.66	84"	240"	1072.40
1/4"	10.21	48"	96"	326.72
1/4"	10.21	48"	120"	408.40
1/4"	10.21	48"	144"	490.08
1/4"	10.21	48"	240"	816.80
1/4"	10.21	60"	96"	408.40
1/4"	10.21	60"	120"	510.50
1/4"	10.21	60"	144"	612.60
1/4"	10.21	60"	240"	1021.00
1/4"	10.21	72"	96"	490.08
1/4"	10.21	72"	120"	612.60
1/4"	10.21	72"	144"	735.12
1/4"	10.21	72"	240"	1225.20
1/4"	10.21	84"	120"	714.70
1/4"	10.21	84"	144"	857.64
1/4"	10.21	84"	240"	1429.40
5/16"	12.76	48"	96"	408.32
5/16"	12.76	48"	120"	510.40
5/16"	12.76	48"	144"	612.48
5/16"	12.76	48"	240"	1020.80

# HOT ROLLED PLATE (CONTINUED)

ASTM A36

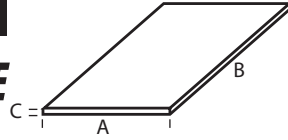
THICKNESS 'C'	WEIGHT PER SQ. FOOT	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
5/16"	12.76	60"	96"	510.40
5/16"	12.76	60"	120"	638.00
5/16"	12.76	60"	144"	765.60
5/16"	12.76	60"	240"	1276.00
5/16"	12.76	72"	96"	612.48
5/16"	12.76	72"	120"	765.60
5/16"	12.76	72"	144"	918.72
5/16"	12.76	72"	240"	1531.20
3/8"	15.32	48"	96"	490.24
3/8"	15.32	48"	120"	612.80
3/8"	15.32	48"	144"	735.36
3/8"	15.32	48"	240"	1225.60
3/8"	15.32	60"	96"	612.80
3/8"	15.32	60"	120"	766.00
3/8"	15.32	60"	144"	919.20
3/8"	15.32	60"	240"	1532.00
3/8"	15.32	72"	96"	735.36
3/8"	15.32	72"	120"	919.20
3/8"	15.32	72"	144"	1103.04
3/8"	15.32	72"	240"	1838.40
1/2"	20.42	48"	96"	653.44
1/2"	20.42	48"	120"	816.80
1/2"	20.42	48"	144"	980.16
1/2"	20.42	48"	240"	1225.60
1/2"	20.42	60"	120"	1021.00
1/2"	20.42	60"	144"	1225.20
1/2"	20.42	60"	240"	2042.00
1/2"	20.42	72"	96"	980.16
1/2"	20.42	72"	120"	1225.20
1/2"	20.42	72"	144"	1470.24
1/2"	20.42	72"	240"	2450.40

NORTON METALS, INC.

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# MILL ROLLED PLATE

ASTM A36



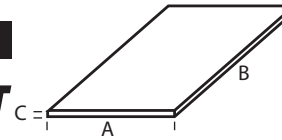
THICKNESS 'C'	WEIGHT PER SQ. FOOT	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
3/16"	7.68	96"	240"	1225.60
1/4"	10.21	96"	240"	1633.60
5/16"	12.76	84"	240"	1786.40
5/16"	12.76	96"	240"	2041.60
3/8"	15.32	84"	240"	2144.80
3/8"	15.32	96"	240"	2451.20
1/2"	20.42	84"	240"	2858.80
1/2"	20.42	96"	240"	3267.20
5/8"	25.52	48"	96"	816.64
5/8"	25.52	48"	120"	1020.80
5/8"	25.52	48"	144"	1224.96
5/8"	25.52	48"	240"	2041.60
5/8"	25.52	60"	96"	1020.80
5/8"	25.52	60"	120"	1276.00
5/8"	25.52	60"	240"	2552.00
5/8"	25.52	72"	96"	1224.96
5/8"	25.52	72"	120"	1531.20
5/8"	25.52	72"	144"	1837.44
5/8"	25.52	72"	240"	3062.40
5/8"	25.52	96"	120"	2041.60
5/8"	25.52	96"	240"	4083.20
3/4"	30.63	48"	96"	980.16
3/4"	30.63	48"	120"	1225.20
3/4"	30.63	60"	240"	3063.00
3/4"	30.63	72"	240"	3675.60
3/4"	30.63	96"	240"	4900.80

# MILL ROLLED PLATE (CONTINUED)

ASTM A36

THICKNESS 'C'	WEIGHT PER SQ. FOOT	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
1"	40.84	48"	96"	1306.88
1"	40.84	48"	120"	1633.60
1"	40.84	96"	240"	6534.40
1 1/4"	51.05	48"	96"	1633.60
1 1/4"	51.05	96"	240"	8168.00
1 1/2"	61.26	48"	96"	1960.32
1 1/2"	61.26	96"	240"	9801.60
2"	81.68	48"	96"	2613.76
2"	81.68	96"	240"	13068.80

# GALVANIZED SHEET



GAUGE 'C'	WEIGHT PER SQ. FOOT	THICKNESS DECIMAL	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
26	.906	.0217	48"	120"	36.25
24	1.156	.0276	48"	120"	46.24
22	1.406	.0336	48"	120"	56.24
20	1.656	.0396	48"	120"	66.24
18	2.156	.0516	48"	120"	86.24
16	2.656	.0635	48"	120"	106.24
14	3.281	.0725	48"	120"	131.24
12	4.513	.1084	48"	120"	180.52

# HOT ROLLED COILS

COIL SHEET THICKNESS	WIDTHS AVAILABLE				ASTM GRADE
	48"	60"	72"	84"	
16	Y	Y	-	-	570-33
14	Y	Y	Y	-	570-33
12	Y	Y	Y	-	570-33
11	Y	Y	Y	-	570-33
10	Y	Y	Y	Y	570-33
3/16"	Y	Y	Y	Y	A36
1/4"	Y	Y	Y	Y	A36
5/16"	Y	Y	Y	Y	A36
3/8"	Y	Y	Y	Y	A36
1/2"	Y	Y	Y	Y	A36

# FLOOR PLATE COILS

COIL SHEET THICKNESS	WIDTHS AVAILABLE				ASTM GRADE
	48"	60"	72"	84"	
14	Y	-	-	-	ASTM-716
1/8"	Y	Y	Y	-	ASTM-716
3/16"	Y	Y	Y	-	ASTM-716
1/4"	Y	Y	Y	-	ASTM-716
3/8"	Y	Y	-	-	ASTM-716

## METAL BUILDING SHEETS

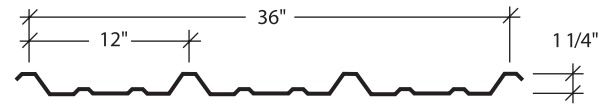
### R PANEL

26 gauge material, 36" wide sheet coverage.

Available in stock lengths to 26'.

**STOCK COLORS:** White, Light Stone, Saddle Tan, Galvalume.

Other colors and lengths available upon request.

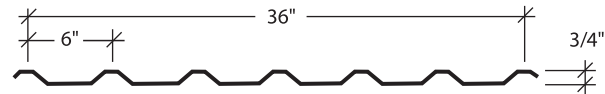


### U PANEL

26 gauge material, 36" wide sheet coverage.

**STOCK COLORS:** White.

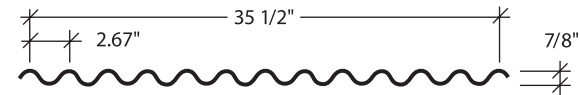
Other colors and lengths available upon request.



### C PANEL

26 gauge material, 35 1/2" wide sheet coverage.

**STOCK COLORS:** White, Galvalume.

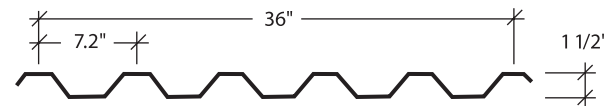


### HR 36 PANEL

26 gauge material, 35 1/2" wide sheet coverage.

28.8" coverage panels are available in White or Light Stone.

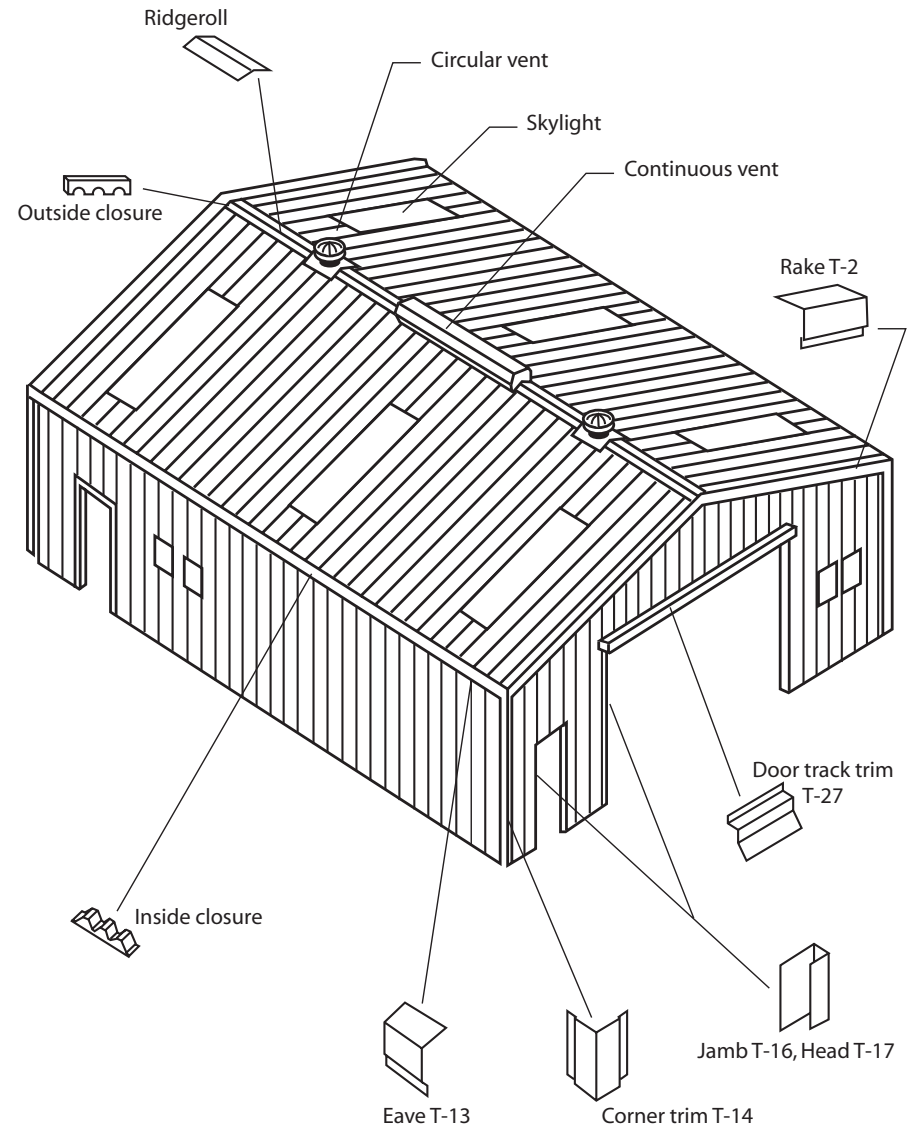
**STOCK COLORS:** White.



# METAL BUILDING TRIM INDEX

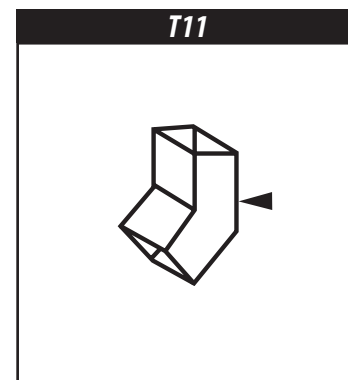
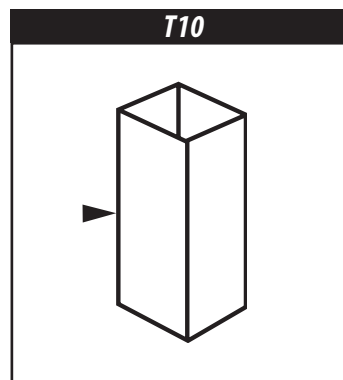
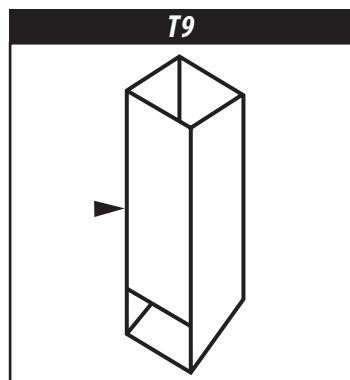
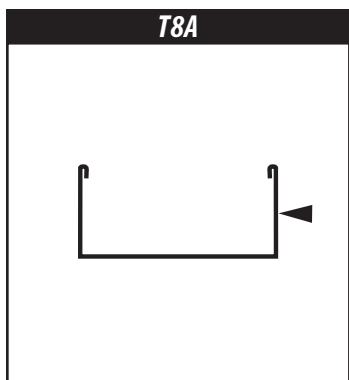
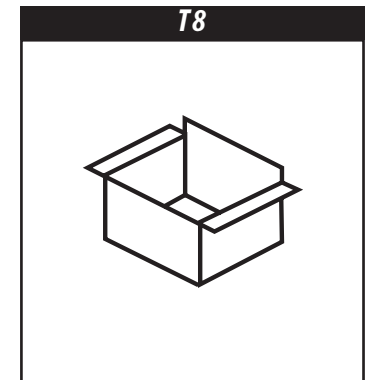
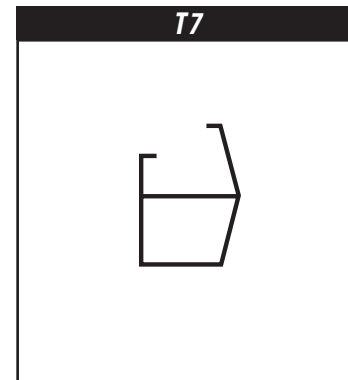
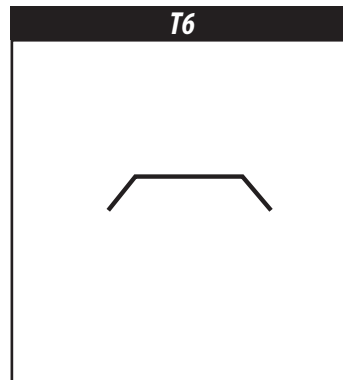
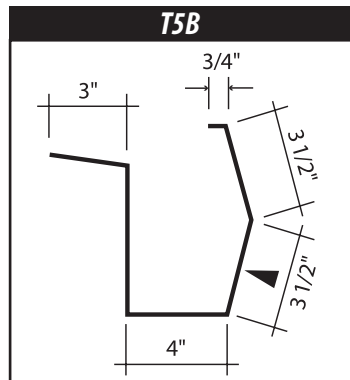
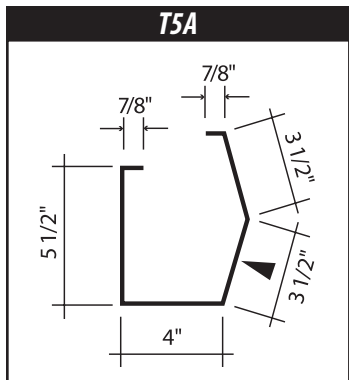
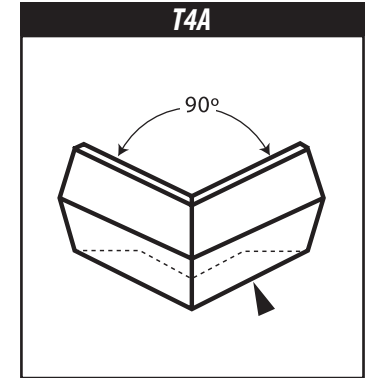
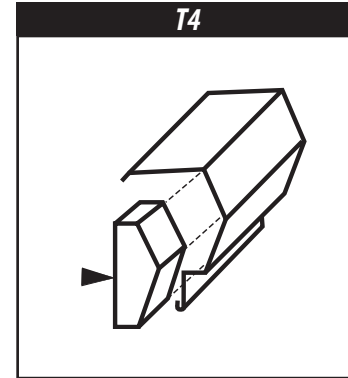
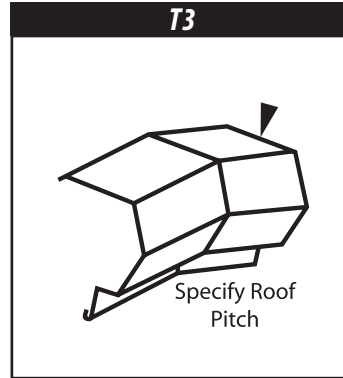
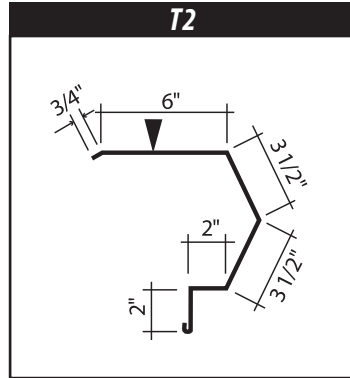
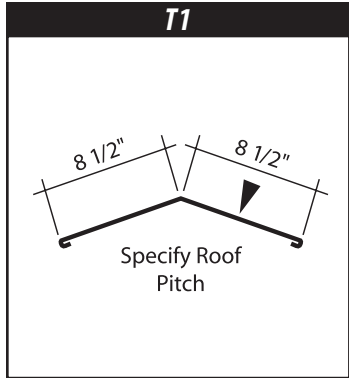
PART NUMBER	STOCK LENGTH	DESCRIPTION OF MATERIAL
T1	10' 2"	Ridgeroll
T2	10' 2"	Rake
T3	4'	Peak Box
T4	-	Rake Trim Closure
T4A	1' 8"	Corner Box
T5A	10' 2"	Post-Hung Gutter
T5AB	10' 2"	Pre-Hung Gutter
T6	6"	Strap
T7	-	Gutter End Cap
T8	-	Sleeve
T9	10' 2"	Downspout w/Kickout
T10	10' 2"	Downspout
T11	-	45 Degree
T12	-	90 Degree
T13	10' 2"	Eave
T14	10' 2"	"R" Outside Corner
T15	10' 2"	"R" Inside Corner
T16	10' 2"	Jamb "R"
T17	10' 2"	Header "R"
T19	10' 2"	"U" Outside Corner
T20	10' 2"	"U" Inside Corner
T22	10' 2"	Outside Angle 3 x 3
T23	10' 2"	Inside Angle 3 x 3

PART NUMBER	STOCK LENGTH	DESCRIPTION OF MATERIAL
T24	10' 2"	Outside Angle 2 x 2
T25	10' 2"	Inside Angle 2 x 2
T26	10' 2"	8" Cap Channel
T27	10' 2"	Slide Door Hood Trim
T28	10' 2"	Hood Trim End Caps
T33	10' 2"	Canopy Trim
T34R	10' 2"	Special Rake
T35	10' 2"	"R" Outside Corner
T40	10' 2"	Outside Angle 4 x 4
T41	10' 2"	Inside Angle 4 x 4
T43	10' 2"	J Trim (HR288, HR36 Panels)
T44	10' 2"	Outside Corner
TN01	10' 2"	Valley
TN02	10' 2"	Base Angle w/o Sheet Notch
TN03	10' 2"	Base Angle w/Sheet Notch
TN04A	10' 2"	4" Low Side Carport Trim
TN04	10' 2"	Standard 4" Carport Trim
TN06A	10' 2"	6" Low Side Carport Trim
TN06	10' 2"	Standard 6" Carport Trim
TN08A	10' 2"	8" Low Side Carport Trim
TN08	10' 2"	Standard 8" Carport Trim
TN09	10' 2"	"R" Wall Mount Trim



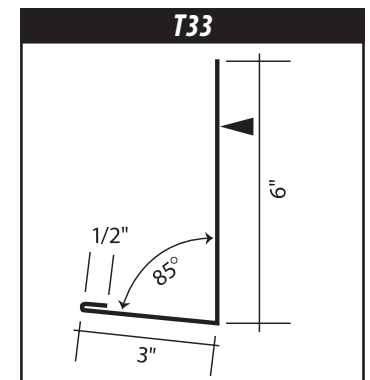
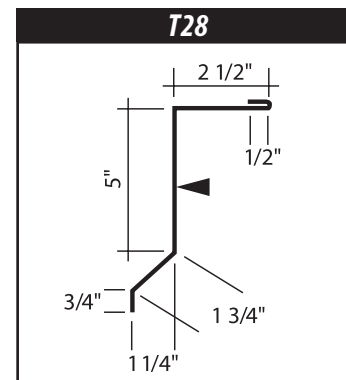
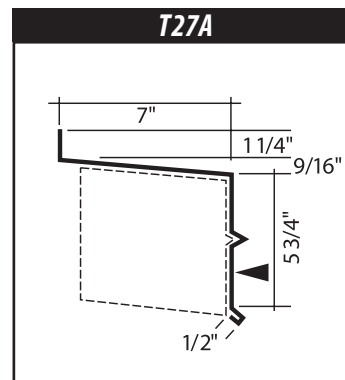
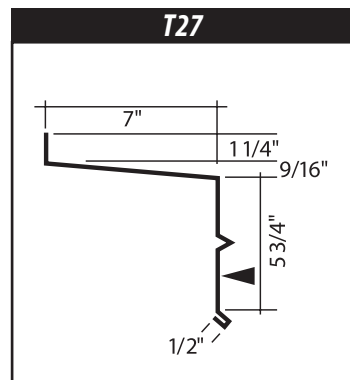
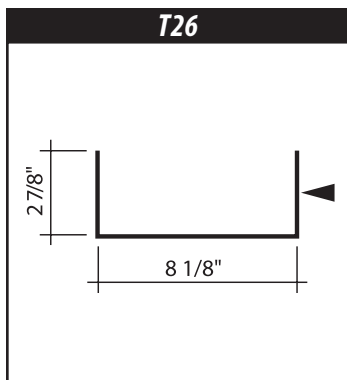
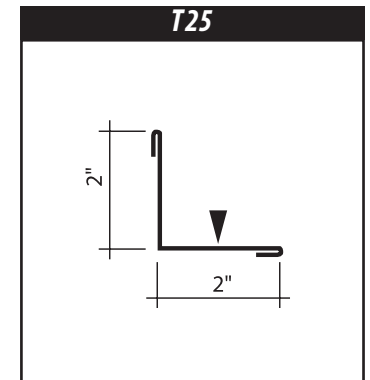
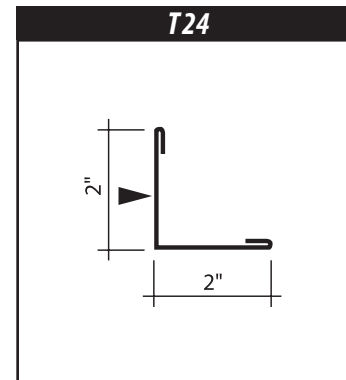
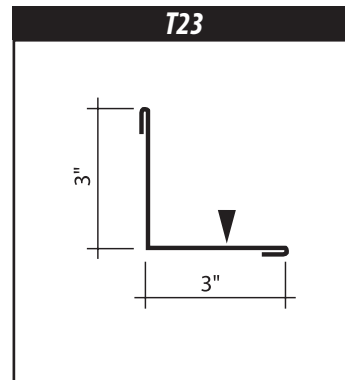
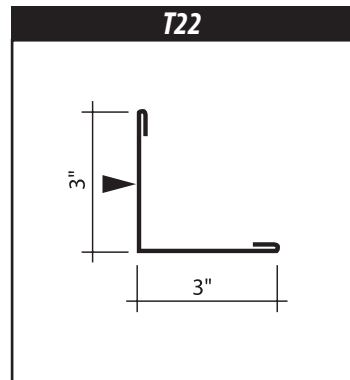
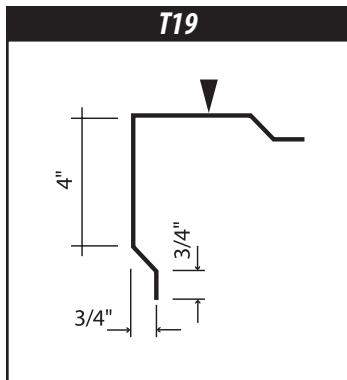
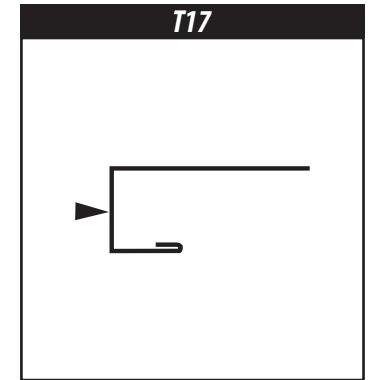
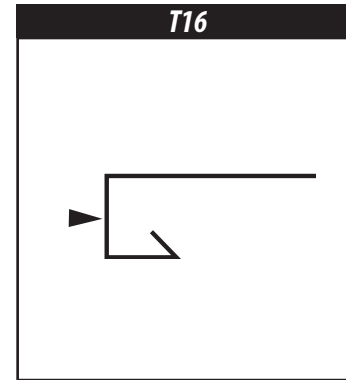
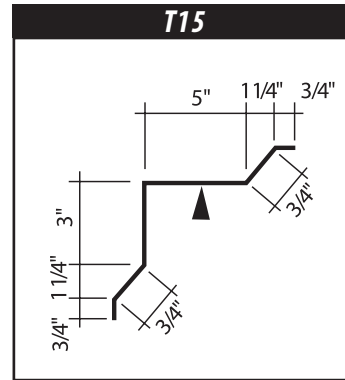
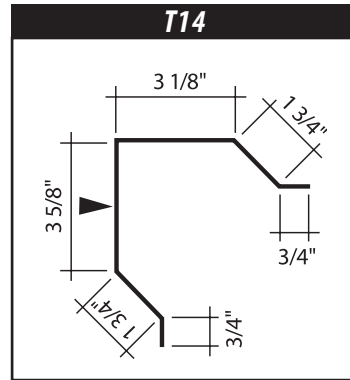
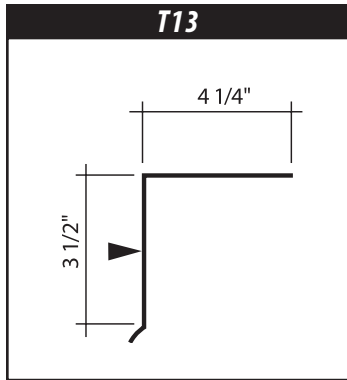
# METAL BUILDING TRIM

See color chart for available colors



# METAL BUILDING TRIM (CONTINUED)

See color chart for available colors

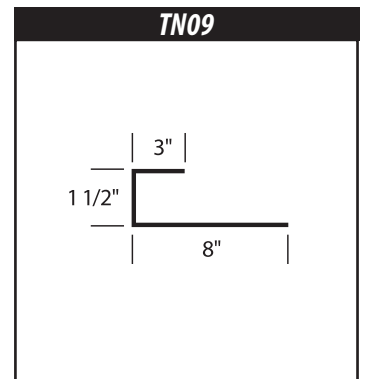
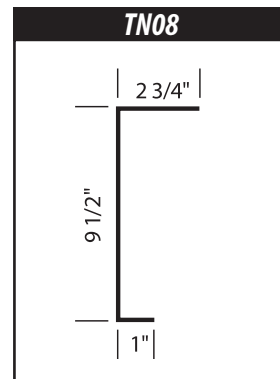
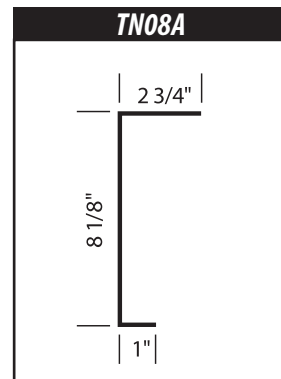
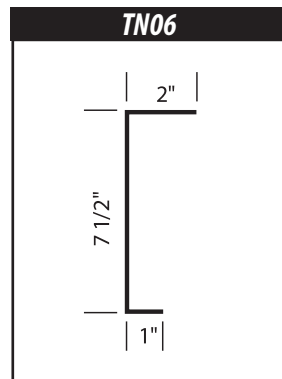
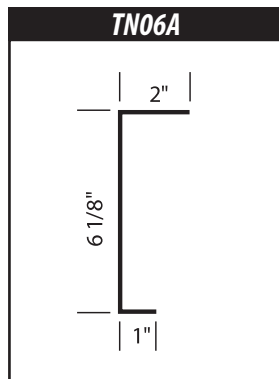
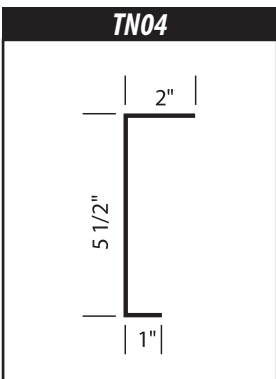
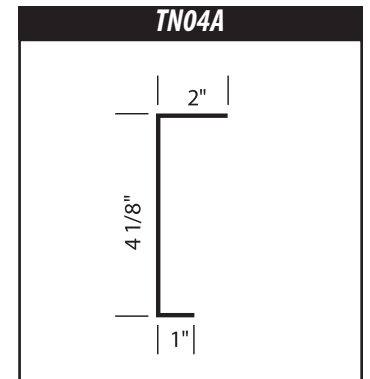
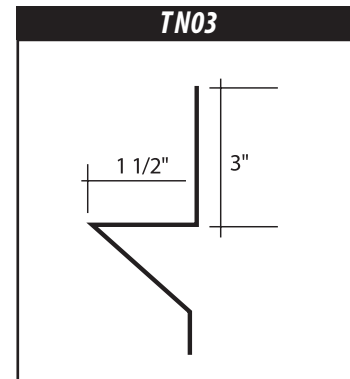
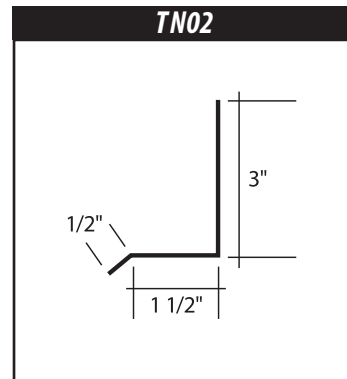
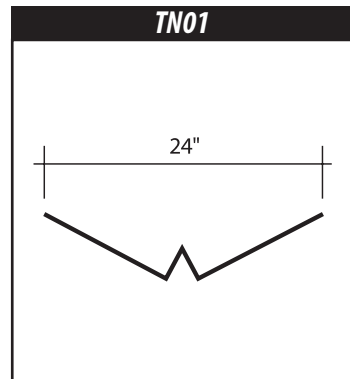
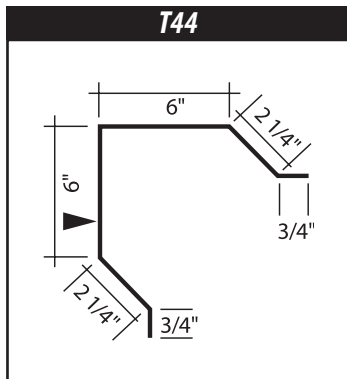
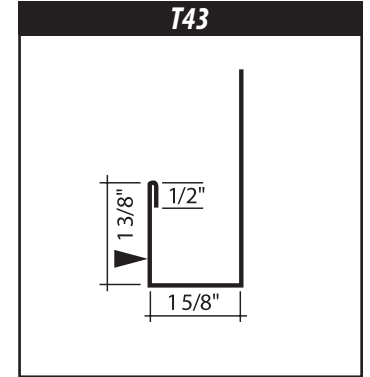
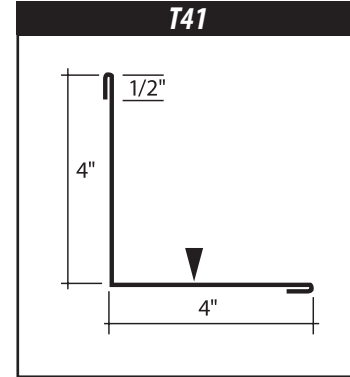
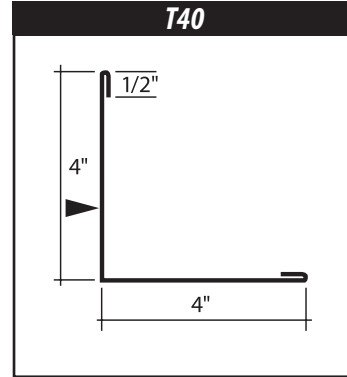
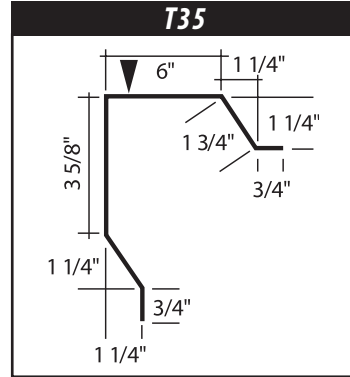
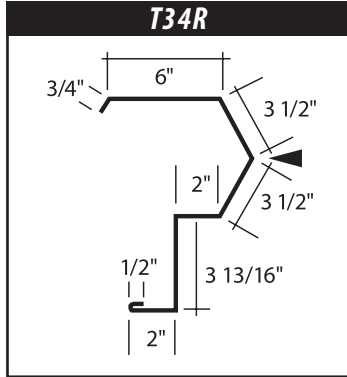


# METAL BUILDING TRIM (CONTINUED)

We can provide custom cut-to-size trim pieces.

Ask your sales representative for the details. Please allow at least 5 days for special sizes.

All trim is available in a wide selection of colors.



# RIGID FRAMES

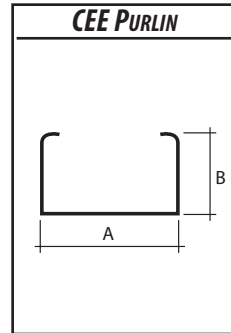
BUILDING SIZE	SQUARE FEET	BUILDING SIZE	SQUARE FEET
20' x 20' x 10'	400	40' x 40' x 16'	1600
20' x 20' x 12'	400	40' x 60' x 12'	2400
20' x 20' x 14'	400	40' x 60' x 14'	2400
20' x 20' x 16'	400	40' x 60' x 16'	2400
20' x 40' x 12'	800	40' x 80' x 12'	3200
20' x 40' x 14'	800	40' x 80' x 14'	3200
20' x 40' x 16'	800	40' x 80' x 16'	3200
30' x 40' x 10'	1200	40' x 100' x 12'	4000
30' x 40' x 12'	1200	40' x 100' x 16'	4000
30' x 40' x 14'	1200	50' x 60' x 12'	4000
30' x 40' x 16'	1200	50' x 60' x 14'	4000
30' x 60' x 10'	1800	50' x 60' x 16'	4000
30' x 60' x 12'	1800	50' x 80' x 12'	5000
30' x 60' x 14'	1800	50' x 80' x 14'	5000
30' x 60' x 16'	1800	50' x 80' x 16'	5000
40' x 40' x 10'	1600	50' x 100' x 12'	6000
40' x 40' x 12'	1600	50' x 100' x 14'	6000
40' x 40' x 14'	1600	50' x 100' x 16'	6000

Wide flange beams make up both the columns and joist of the rigid frame. The standard truss is pre-cut to a 1:12 pitch. The two roof joists bolt together at the ridge and weld to the column. A pitch of either 2:12 or 3:12 is available. Allow at least 10 days after receipt of order for the frame to be delivered. Each frame includes two columns and one, two-piece rafter.

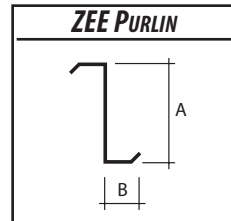
Purlin clips are welded to the truss at five-foot intervals. The purlin clips are shipped loose for flexibility during construction. The rafter and columns have a red oxide primer coat. End wall beams have been provided as part of the shell package but are not part of the rigid frame package. End wall center columns are shipped in full length to allow for more flexibility. End wall center columns and the purlin clips are not shop primed.

# PURLIN, RECEIVER CHANNELS, BASE ANGLE

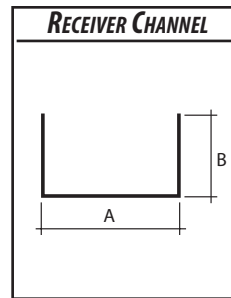
ALL MATERIAL HAS A RED OXIDE PRIMER. \*AVAILABLE IN GALVANIZED (SPECIAL ORDER).



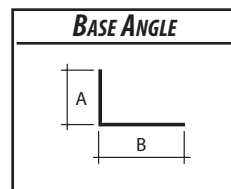
WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS OF WEB (GAUGE)	WEIGHT PER FOOT	LENGTH AND WEIGHT		
				20'	25'	30'
3"	1 5/8"	14	1.61	32.20	40.25	48.30
4"	1 5/8"	14	2.16	43.20	54.00	64.80
4"	2"	14	2.34	46.80	58.50	70.20
6" *	2"	14	2.70	54.00	67.50	81.00
8" *	2 1/2"	14	3.51	70.20	87.75	105.30
10"	2 3/4"	14	4.05	81.00	101.25	121.50
12"	3 1/2"	14	5.20	114.40	135.20	156.00



WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS OF WEB (GAUGE)	WEIGHT PER FOOT	LENGTH AND WEIGHT		
				21'	26'	30'
4"	2"	14	2.34	49.14	60.84	70.20
6"	2"	14	2.70	56.70	70.20	81.00
8"	2 1/2"	14	3.51	73.71	91.26	105.30
12"	3 1/2"	14	5.20	109.20	135.20	156.00









WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS OF WEB (GAUGE)	WEIGHT PER FOOT	LENGTH AND WEIGHT	
				20'	25'
4 1/8"	2"	14	2.07	41.00	51.75
6 1/8"	2"	14	2.61	52.20	65.25
8 1/8"	2"	14	3.16	63.20	79.00
4 1/8"	3"	14	2.64	52.80	66.00
6 1/8"	3"	14	3.16	63.20	79.00
8 1/8"	3"	14	3.65	73.00	91.25

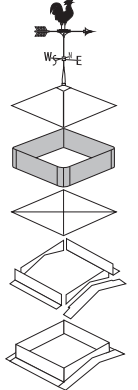
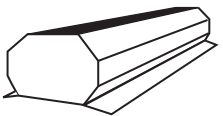
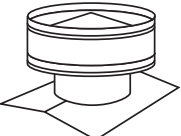
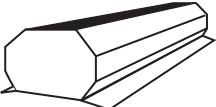
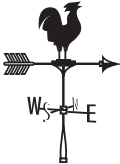


WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS OF WEB (GAUGE)	WEIGHT PER FOOT	LENGTH AND WEIGHT	
				20'	25'
4"	2"	14	1.5625	31.25	39.06
3"	2"	14	1.3000	26.04	32.05
2 1/2"	2"	14	1.0400	20.83	26.00

## INSULATION PRODUCTS



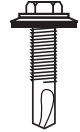

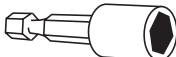
<p><b>3" x 72" x 100' Insulation Roll</b> Vinyl Reinforced Facing. R10. Energy value. Other sizes available</p>	
<p><b>72" x 100' "LOW-E" Insulation Roll</b> Available with single sided foil or double sided foil. R10. Energy value.</p>	
<p><b>Insulation Patch Tape</b> 3" x 150' rolls.</p>	
<p><b>Double Sided Insulation Tape</b> 1 1/2" x 150' rolls.</p>	
<p><b>Poultry Netting</b> 72" x 150' roll or 72" x 300' roll. Galvanized.</p>	
<p><b>Sealant</b> Acrylic / Polyurethane Available in White, Bronze and Clear.</p>	

## VENTILATION PRODUCTS

<p><b>Cupola</b> Available in 24", 36" or 48". Many colors available. Mix and match colors. Weathervane sold separately.</p>	
<p><b>Ridge Vent</b> 9 1/2" x 120". With damper and bird screen. Flat or corrugated skirt. White.</p>	
<p><b>20" Round Vent</b> With damper and bird screen. Flat skirt. Standard color white.</p>	
<p><b>Low Profile Vent</b> Flat skirt, bird screen. Standard color white. No damper. Available in 10' or 6' sections.</p>	
<p><b>Weathervane</b> Cast Steel. Available silhouettes: Rooster, horse, dog, sailboat, eagle, cow and many others.</p>	



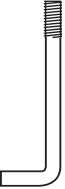


# FASTENERS

## SIZES AVAILABLE

<p><b>Self-driller TEK Screws</b> Primarily used for attaching light gauge sheeting to sub structures. Maximum thickness rating is .125. 5/16" hex head. Galvanized steel and EPDM sealing washer.</p>	<p>12 x 1" 12 x 1 1/4" 12 x 1 1/2" 12 x 2" 12 x 2 1/2"</p>	
<p><b>Self-driller Lap Screws</b> Primarily used for attaching two light gauge metal sheet. 5/16" hex head. Galvanized steel and EPDM sealing washer.</p>	<p>14 x 7/8"</p>	
<p><b>Self-driller MAXX 45 Heavy Gauge Screws</b> Primarily used for attaching light gauge sheeting to sub structures up to 3/8" thick. 5/16" hex head. Galvanized steel shaft and washer with EPDM sealing washer.</p>	<p>12-24 x 1 1/4"</p>	
<p><b>Woodbinders</b> Primarily used for attaching light gauge metal to wood. 1/4" hex head. Galvanized steel shaft and washer with EPDM sealing washer.</p>	<p>9 x 1" 9 x 1 1/4" 9 x 1 1/2" 9 x 2"</p>	
<p><b>Hex Head Magnetic Driver</b> Magnetic end saves hours of labor.</p>	<p>1/4" 5/16"</p>	

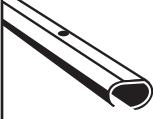


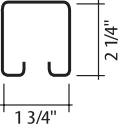

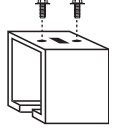

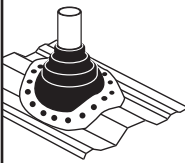
# FASTENERS (CONTINUED)

## SIZES AVAILABLE

<p><b>Pop Rivets</b> Primarily used for attaching sheet-to-sheet or, sheet to structure. Maximum thickness .125. Plated steel rivet with plated mandrel.</p>	<p>1/8" Diameter</p>													
<p><b>Pymetal 10-24 x 1 7/16" with Wings</b> Primarily used for attaching plywood to a metal structure. Phillips head. Plated finish only.</p>	<p>10-24 x 1 7/16"</p>													
<p><b>Foundation Anchor Bolts</b></p> <table border="1" data-bbox="1071 706 1627 852"> <thead> <tr> <th>Size</th> <th>Weight</th> <th>Box Count</th> </tr> </thead> <tbody> <tr> <td>1/2" x 6"</td> <td>1.32</td> <td>50 pieces</td> </tr> <tr> <td>3/4" x 12"</td> <td>1.54</td> <td>20 pieces</td> </tr> <tr> <td>1" x 24"</td> <td>5.30</td> <td>10 pieces</td> </tr> </tbody> </table>	Size	Weight	Box Count	1/2" x 6"	1.32	50 pieces	3/4" x 12"	1.54	20 pieces	1" x 24"	5.30	10 pieces	<p>(Sizes to left)</p>	
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1/2" x 6"	1.32	50 pieces												
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<p><b>Wedge Anchor Bolts</b></p> <table border="1" data-bbox="1071 917 1627 1047"> <thead> <tr> <th>Size</th> <th>Weight per "C"</th> <th>Box Count</th> </tr> </thead> <tbody> <tr> <td>3/8" x 3"</td> <td>10.8</td> <td>50 pieces</td> </tr> <tr> <td>3/8" x 3 3/4"</td> <td>12.5</td> <td>50 pieces</td> </tr> <tr> <td>1/2" x 2 3/4"</td> <td>19.0</td> <td>25 pieces</td> </tr> </tbody> </table>	Size	Weight per "C"	Box Count	3/8" x 3"	10.8	50 pieces	3/8" x 3 3/4"	12.5	50 pieces	1/2" x 2 3/4"	19.0	25 pieces	<p>(Sizes to left)</p>	
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<p><b>Nailin Anchors</b></p>	<p>1/4" x 1 1/2"</p>													



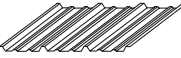



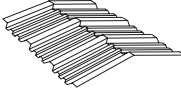

# METAL BUILDING ACCESSORIES

SIZES AVAILABLE

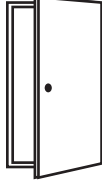
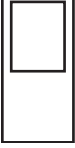


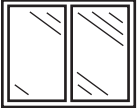
<b>Round Track</b> 14 gauge galvanized round track with stud bolt mount at 24" intervals.	12' 20'															
<b>Round Track Trolleys</b> 4" trolley with straight bolt.																
<b>Round Track Splice Bracket</b> 14 gauge galvanized track connection clips.																
<b>Square Track</b> 16 gauge galvanized material.	12' lengths 20' lengths															
<b>Square Track Trolleys</b> All metal construction.																
<b>Square Track Splice Bracket (rail bracket)</b> 16 gauge galvanized track connection channel.																
<b>Track Bracket (hanger angle)</b> Single or double track brackets.																
<b>Pipe Flashing</b> High temperature silicone pipe flashing. Available in 2-3 days.	<table border="1"> <thead> <tr> <th>#</th> <th>Pipe Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1/4" 2"</td> </tr> <tr> <td>3</td> <td>2" 4"</td> </tr> <tr> <td>5</td> <td>4" 7"</td> </tr> <tr> <td>6</td> <td>5" 9"</td> </tr> <tr> <td>8</td> <td>7" 13"</td> </tr> <tr> <td>9</td> <td>10" 18"</td> </tr> </tbody> </table>	#	Pipe Size	1	1/4" 2"	3	2" 4"	5	4" 7"	6	5" 9"	8	7" 13"	9	10" 18"	
#	Pipe Size															
1	1/4" 2"															
3	2" 4"															
5	4" 7"															
6	5" 9"															
8	7" 13"															
9	10" 18"															

# METAL BUILDING ACCESSORIES

SIZES AVAILABLE

<b>Universal Closure</b> Polyurethane is a flexible semi-closed material for filling unusual gapping situations.	1" x 1" 1 1/2" x 1 1/2"	
<b>Skylight Ridgeroll</b> 5 oz. fiberglass panels used in place of standard T1 ridgeroll for extra light transmission.	5 oz 16 1/2" x 10' 2"	
<b>Skylight R Panel</b> 8 oz. fiberglass panels. Matches standard R panel profile for tight fit on roofs and sidewalls.	R Panel 3' coverage x 10' 8" x 12' 0" x 16' 0"	
<b>Flat Sheet</b> 26 gauge flat sheet available in a variety of colors. Stocked in white.	26 Gauge 41 15/16" wide x 10' 2" long	
<b>R, U, HR, 5V, C Panel Foam Closures</b> Polyurethane strips cut to either the inside or outside profile of "R" or "U" panel. All closure strips are available in bevel cut at any angle.	3' lengths	
<b>Mastic Tape</b> Butyl tape rolls. Use where metal sheets lap to reduce the possibility of leaks.	3/32" x 3/8" x 45' 3/32" x 1" x 45'	
<b>Ridge Cap</b> 26 gauge material. R panel formed to make the ridge cap. The stock pitch is 2/12.	2' 6" 3' 0"	
<b>14 Gauge Horse Stall Channel</b> 1 5/8" x 1 5/8" channel x 8' 1 5/8" x 1 5/8" channel x 10' 1 5/8" x 1 5/8" channel x 12' Clearance inside allows a 2 x 4 to slide inside channel. Inside measurement shown.		

## DOORS AND WINDOWS

<p><b>Pre Hung Personal Door</b> 3' x 6' 8" economy door. 9 pane window installation kit available.</p>	
<p><b>3070 Door With Half Window</b> 3' x 7' fully insulated door panel. 1 3/4" thick. Universal swing. Glass not included with door.</p>	
<p><b>3070 Door With Vertical Window</b> 3' x 7' fully insulated door panel. 1 3/4" thick. Universal swing. Glass not included with door.</p>	
<p><b>3070 "M" Leaf Door</b> 3' x 7' fully insulated door panel. 1 3/4" thick. Universal swing.</p>	
<p><b>Door Jam Pack</b> Includes white frame, sweep, lockset, threshold &amp; hinges. Available in 4 1/4", 6 1/4" or 8 1/4".</p>	
<p><b>Horizontal Slide Window</b> 3' x 3' horizontal window. Double insulated.</p>	

## ROLL-UP DOOR - STANDARD

### Roll Up Door 650 Series Curtain

Door features strong 26 gauge, deep ribbed corrugation available in 20 standard colors. Hard Grade E steel provides strength and durability. Each color comes with 20-year film integrity and an up to 20-year guarantee against chalking and fading.

### Stainless Steel Latch and Bolts

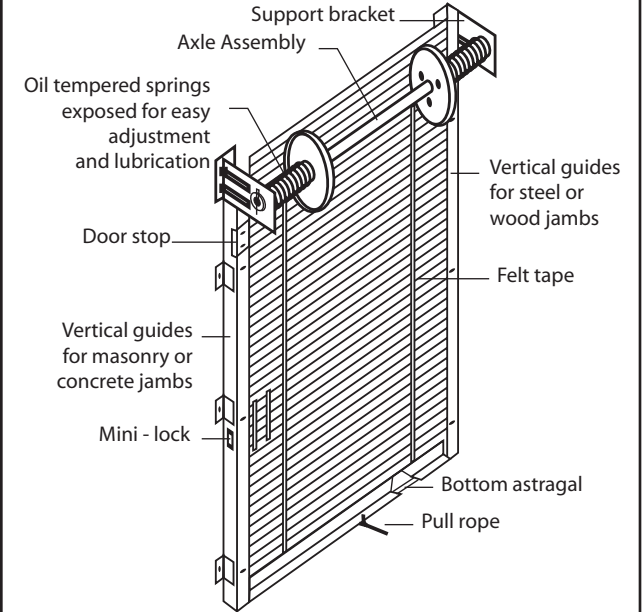
100% stainless steel latch and bolts.  
Double lock holes accept 7/16" shackles.

### Rain Lip Note

For proper door installation, a 1 1/2" deep rain lip must be formed in the concrete slab, extending a minimum of 3 1/2" from the interior of the face of the jamb.

### Guides

The 18 gauge steel guides attach easily to steel, wood or masonry jambs. The guides have pre-punched factory holes for anchors and latch slides. Replaceable polyethylene guide strips provide easy, quiet operation.



### Minimum Clearances

Opening Height	Head Room	Side Room
7' 4"	15 1/2"	3 1/4"
7' 4" - 8' 8"	16"	3 1/4"
8' 8" - 10' 0"	18"	3 1/2"

### Sizes Available

4' x 7'
8' x 8'
10' x 10'

Other sizes available in 10 - 15 days.

## ROLL-UP DOOR - COMMERCIAL

### Commercial Series 2000

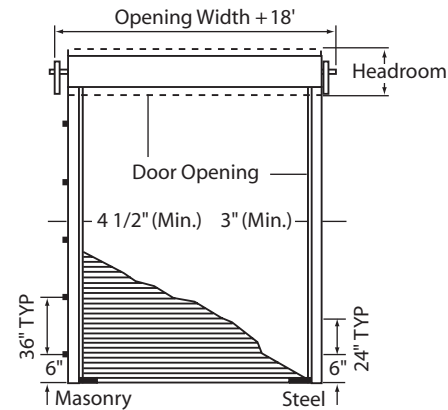
Door features strong 26 gauge, deep ribbed corrugation available in 20 standard colors. Hard Grade E steel provides strength and durability. Each color comes with 20-year film integrity and an up to 20-year guarantee against chalking and fading. Steel is painted with one coat of siliconized polyester paint over primer and a top coat over primer on reverse side. Flexible PVC wear strips are attached to curtain to reduce friction and ensure a quiet, smooth operation.

### Torque-Tube Assembly

Axles are 1 5/16" OD steel tubing. Springs are oil tempered torsion type. Drums are 16 gauge galvanized steel with 1 5/16" steel ball bearing stated in center. Top sheet is 26 gauge galvanized steel.

### Guides

Guides are constructed of formed 14 gauge galvanized steel. Polyethylene wear strips are attached to reduce friction and to ensure a quiet and smooth operation.



### Minimum Clearances

Opening Height	Head Room
8' 0" - 10' 0"	19"
over 10' 0" - 14' 0"	20"
over 14' 0" - 16' 0"	21"
over 16' 0" - 18' 0"	22"


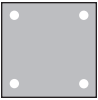


### Sizes Available

10' x 10'
12' x 12'

Other sizes available in 10 - 15 days.


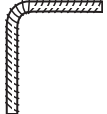
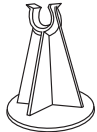
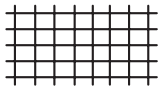

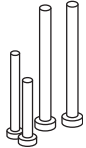
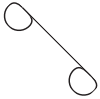
## BASE PLATES

ALSO SEE THE GATE AND FENCE HARDWARE SECTION

<p><b>Blanks (no holes)</b>          11 gauge x 4" x 4".          1/4" plate 6" x 6".          A36 material sheared into blanks.          Other sizes available.</p>	
<p><b>Blanks (punched holes)</b>          1/4" plate 6" x 6" blank with four 9/16" holes.          1/4" plate 8" x 8" blank with four 9/16" or 13/16" holes.          3/4" plate 12" x 12" blank with four 13/16" holes.          Other sizes available.</p>	
<p><b>Purlin Clips</b>          10 gauge 3" x 5" blank.          3/16" plate 3" x 5" blank.          3/16" plate 5" x 7" blank.</p>	
<p><b>Custom Blank Sizes</b>          We can produce custom size blanks.          Made from 16 gauge to 2" plate with or without holes.          Ask a Norton representative for availability and pricing.</p>	

## REBAR AND ACCESSORIES

ALSO SEE REBAR SECTION

<p><b>Roll Wire</b>          16 gauge wire roll.</p>	
<p><b>Rebar Corners</b>          5/8" rebar corners. 24" x 24".</p>	
<p><b>Plastic Chairs</b>          2 1/4" chair. 500 pcs. p/bag.          3 1/4" chair. 500 pcs. p/bag.</p>	
<p><b>6" x 6" Welded Wire Rolls</b>          6 x 6 x 5 x 150' rolls.</p>	
<p><b>Poly Rolls</b>          6 mil black poly roll. 20' x 100'.          4 mil black poly roll. 32' x 100'.</p>	
<p><b>Nelson Studs</b>          Sizes available: 3/8" x 2 1/2"; 3/8" x 3 1/2"; 1/2" x 5 1/2";          1/2" x 6 1/2"; 3/4" x 6 1/2"; 3/4" x 8 1/2"</p>	
<p><b>Wire Ties</b>          4 1/2" wire ties. 5000 ties per roll.          5 1/2" wire ties. 5000 ties per roll.</p>	

## ACETYLENE CUTTING TIP CHART

CUTTING TIP SERIES 1-101, 3-101, 5-101

METAL THICKNESS	TIP SIZE	CUTTING OXYGEN PRESSURE	PREHEAT OXYGEN (PISG)	ACETYLENE PRESSURE (PISG)	SPEED I.P.M.	KERF WIDTH
1/8"	000	20/25	3/5	3/5	20/30	.04
1/4"	00	20/25	3/5	3/5	2/28	.05
3/8"	0	25/30	3/5	3/5	18/26	.06
1/2"	0	30/35	3/6	3/5	16/22	.06
3/4"	1	30/35	4/7	3/5	15/20	.07
1"	2	35/40	4/8	3/6	13/18	.09
2"	3	40/45	5/10	4/8	10/12	.11

### 8 FACTORS TO CONSIDER IN SELECTING ARC WELDING ELECTRODES

**1. Base Metal Strength Properties** - Know and match mechanical properties.

Mild steel - generally E-60XX or E-70XX electrodes match base metal.

Low alloy steels - select electrodes that match base metal properties.

**2. Base Metal Composition** - Know and match composition.

Mild steel - any E-60XX or E-70XX electrode is satisfactory.

Low alloy steels - select electrode that most closely matches base metal composition.

**3. Welding Position** - Match electrode to welding position encountered.

**4. Welding Current** - Match power supply available. Some electrodes are designed for direct current (DC); others, alternating current (AC); some, either. Observe correct polarity.

**5. Joint Design and Fit-up** - Select for penetration characteristic - digging, medium, or light.

No beveling or tight fit-up - use digging. Thin material or wide root opening - light, soft arc.

**6. Thickness and Shape of Base Material** - To avoid weld cracking on thick and heavy material of complicated design, select electrode with maximum ductility. Low hydrogen processes or electrodes are recommended.

**7. Service Condition and /or Specifications** - Determine service conditions - match base metal composition, ductility and impact resistance. Use low hydrogen process. Also, check welding procedure or specification for electrode type.

**8. Production Efficiency and Job Conditions** - For high deposition and most efficient production under flat position requirements, select high iron powder types or large diameter wires: for other conditions you may need to experiment with various electrodes and sizes.

## CHEMISTRY OF ASTM A36 MATERIAL

GRADES		PLATES		BARS	
Thickness	All	To 3/4"	Over 3/4" - 1 1/2"	To 3/4"	Over 3/4" - 1 1/2"
Carbon % Max	0.26	0.25	0.25	0.26	0.27
Manganese %	-	-	80 - 1.20	-	-
Phosphorus Max %	0.04	0.04	0.04	0.04	0.04
Sulphur Max %	0.05	0.05	0.05	0.05	0.05
Tensile Strength Min. KSI / Max. KSI	58/80	58/80	58/80	58/80	58/80
Yield Point Min.	36	36	36	36	36
Elongation	20	20	20	20	20

**ASTM 570-33** Hot rolled carbon steel sheet and strip of structural quality. This material is intended for structural purposes where mechanical test values require a minimum yield of 33000 psi.

**A570** Has good weldability and can be formed and punched.

**ASTM A36** A structural quality carbon steel for general metal construction. A good weight to strength ratio engineered to a minimum yield of 36000 psi. A36 can be punched, sheared, formed and welded.

**ASTM 1018** Low carbon general purpose material.

**ASTM A500** Cold formed welded carbon steel in round, square and rectangular shapes for general structural purposes.

**ASTM A513** Electric resistance - welded carbon and alloy steel tubing for mechanical applications. Intended for use where close dimensional accuracy is necessary.

**ASTM 615** This specification covers plain rail - steel concrete reinforcement bar. Weldability of the steel is not part of the A615 specification.

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## How to Estimate 100 Square Feet of Concrete in Various Thickness

THICKNESS CONCRETE INCHES	AMOUNT OF CONCRETE CU. YARD	CEMENT SACKS	AGGREGATE 1:1 3/4:2 Mix		CEMENT SACKS	AGGREGATE 1:2 1/4:3 Mix		CEMENT SACKS	AGGREGATE 1:2 3/4:4 Mix	
			FINE Cu. Ft.	COURSE Cu. Ft.		FINE Cu. Ft.	COURSE Cu. Ft.		FINE Cu. Ft.	COURSE Cu. Ft.
3"	0.92	7.5	12.9	14.7	5.8	12.9	17.5	4.6	12.9	
4"	1.24	10	17.3	19.9	7.8	17.3	23.6	6.2	17.3	24.8
5"	1.56	12.5	21.9	25	9.8	21.7	29.6	7.8	21.8	31.2
6"	1.85	15	25.8	29.4	11.5	26.0	35.2	9.3	26.0	37
8"	2.46	20	34.6	39.8	15.4	34.4	46.8	12.3	34.4	49.3
10"	3.08	25	43.8	50	19.3	43.2	58.5	15.4	43.2	61.6
12"	3.70	30	51.6	58.8	23.1	51.8	70.4	18.5	51.8	74

## APPROXIMATE CAPACITY OF ROUND SILOS

(INSIDE DIAMETER IS SHOWN AT THE TOP OF THE COLUMNS AND DEPTH AT THE LEFT)

HEIGHT OF SILO IN FEET	10 Ft. TONS	12 Ft. TONS	14 Ft. TONS	16 Ft. TONS	18 Ft. TONS	20 Ft. TONS
20'	26					
22'	30					
24'	34	49				
26'	38	55				
28'	42	61	83			
30'	47	67	91			
32'	51	74	100	131		
34'	56	80	109	143		
36'	61	87	118	155	196	
38'	66	94	128	167	212	
40'	70	101	137	180	229	280
45'						330
50'						386

## CISTERN

For a circular cistern, take the diameter in feet, square that and multiply by .785398. That gives you the area in feet. Multiply this by 1.728 and divide by 231, and you will have the capacity in gallons of one foot in depth of the cistern. From this calculate the depth.

For a square cistern, multiply the length by the breadth, and proceed to multiply the results by 1.728 and divide by 231, as before, to calculate one foot of depth.

CIRCULAR CISTERN	BUSHELS	SQUARE CISTERN	BUSHELS
5' diameter holds	4.66	5' x 5' holds	5.92
6' diameter holds	6.71	6' x 6' holds	8.54
7' diameter holds	9.13	7' x 7' holds	11.63
8' diameter holds	11.93	8' x 8' holds	15.19
9' diameter holds	15.19	9' x 9' holds	19.38
10' diameter holds	18.65	10' x 10' holds	23.74

### USEFUL INFORMATION

- To find circumference of a circle, multiply diameter by 3.1416.
- To find the diameter of a circle, multiply circumference by .31831.
- To find the area of a circle, multiply square of diameter by .7854.
- The Area of a rectangle = length multiplied by breadth.
- Doubling the diameter of a circle increases its area four times.
- To find the area of a triangle, multiply base by 1/2 perpendicular height.
- The area of ellipse = product of both diameters x .7854.
- The area of a parallelogram = base x altitude.
- To find the side of an inscribed square, multiply the diameter by 0.7071 or multiply the circumference by 0.2251 or divide the circumference by 4.4428.
- The side of inscribed cube = radius of the sphere x 1.1547.
- To find the side of an equal square, multiply the diameter by .8862.
- Square: A side multiplied by 1.4142 = the diameter of its circumscribing circle.
- A side multiplied by 4.443 = the circumference of its circumscribing circle.
- A side multiplied by 1.128 = the diameter of an equal circle.
- A side multiplied by 3.547 = the circumference of an equal circle.
- To find cubic inches in a ball, multiply the cube of the diameter by .5236.
- To find the cube contents of a cone, multiply the area of the base by 1/3 the altitude.
- The square root. Add the 2 areas and multiply by 1/3 the altitude.
- Doubling the diameter of a pipe increases its capacity four times.
- OD Sq. - ID Sq. x .225 = wt. per inch x width of coil.

## STRUCTURAL STEEL LINTEL TABLE - 3" BRICK

HORIZONTAL LEG IN INCHES	ANGLE SIZE	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	14'	16'
3 1/2"	3 x 3 1/2 x 1/4	31'	17'	8'	4'	3'	2'	-	-	-	-	-	-
	3 x 3 1/2 x 5/16	-	21'	10'	6'	3'	2'	-	-	-	-	-	-
3 1/2"	3 x 3 1/2 x 3/8	-	-	12'	7'	4'	3'	2'	-	-	-	-	-
	3 1/2 x 3 1/2 x 1/4	-	-	13'	7'	4'	3'	2'	-	-	-	-	-
3 1/2"	3 1/2 x 3 1/2 x 5/16	-	-	16'	9'	6'	4'	2'	-	-	-	-	-
	3 1/2 x 3 1/2 x 3/8	-	-	19'	11'	7'	4'	3'	2'	-	-	-	-
3 1/2"	4 x 3 1/2 x 1/4	-	-	19'	11'	7'	4'	3'	2'	-	-	-	-
	4 x 3 1/2 x 5/16	-	-	24'	14'	8'	5'	4'	2'	2'	-	-	-
3 1/2"	4 x 3 1/2 x 3/8	-	-	-	16'	10'	6'	4'	3'	2'	-	-	-
	4 x 3 1/2 x 7/16	-	-	-	18'	11'	7'	5'	3'	2'	2'	-	-
4"	4 x 4 x 7/16	-	-	-	19'	12'	8'	5'	3'	2'	2'	-	-
	4 x 4 x 1/2	-	-	-	21'	13'	9'	6'	4'	3'	2'	-	-
3 1/2"	5 x 3 1/2 x 1/4	-	-	-	-	13'	8'	6'	4'	3'	2'	-	-
	5 x 3 1/2 x 5/16	-	-	-	-	16'	10'	7'	5'	4'	3'	1'	-
3 1/2"	5 x 3 1/2 x 7/16	-	-	-	-	21'	14'	10'	7'	5'	4'	1'	-
	5 x 3 1/2 x 1/2	-	-	-	-	-	16'	11'	8'	6'	4'	2'	-
3 1/2"	6 x 3 1/2 x 1/4	-	-	-	-	-	14'	10'	7'	5'	4'	2'	-
	6 x 3 1/2 x 5/16	-	-	-	-	-	17'	12'	9'	6'	5'	3'	-
3 1/2"	6 x 3 1/2 x 3/8	-	-	-	-	-	21'	14'	10'	7'	6'	3'	-
	6 x 3 1/2 x 1/2	-	-	-	-	-	27'	19'	13'	10'	7'	3'	-
4"	6 x 4 x 1/4	-	-	-	-	-	15'	10'	7'	5'	4'	3'	-
	6 x 4 x 5/16	-	-	-	-	-	18'	13'	9'	7'	5'	3'	-

*Table to be used to determine height of brick that an angle can support for different spans or openings.*

## STRUCTURAL STEEL LINTELS TABLE - 4" BRICK

HORIZONTAL LEG IN INCHES	ANGLE SIZE	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	14'	16'
3 1/2"	3 x 3 1/2 x 1/4	23'	12'	6'	3'	2'	1'	-	-	-	-	-	-
	3 x 3 1/2 x 5/16	-	15'	8'	4'	2'	1'	-	-	-	-	-	-
3 1/2"	3 x 3 1/2 x 3/8	-	18'	9'	5'	3'	2'	1'	-	-	-	-	-
	3 1/2 x 3 1/2 x 5/16	-	22'	12'	7'	4'	2'	2'	-	-	-	-	-
3 1/2"	3 1/2 x 3 1/2 x 3/8	-	-	14'	8'	5'	3'	2'	1'	-	-	-	-
	4 x 3 1/2 x 1/4	-	-	14'	8'	5'	3'	2'	1'	-	-	-	-
3 1/2"	4 x 3 1/2 x 5/16	-	-	18'	10'	6'	4'	2'	2'	1'	-	-	-
	4 x 3 1/2 x 3/8	-	-	21'	12'	7'	5'	3'	2'	1'	-	-	-
3 1/2"	4 x 3 1/2 x 7/16	-	-	-	14'	8'	5'	3'	2'	2'	1'	-	-
	4"	4 x 4 x 7/16	-	-	-	14'	9'	5'	4'	2'	2'	1'	-
3 1/2"	4 x 4 x 1/2	-	-	-	16'	10'	6'	4'	3'	2'	1'	-	-
	5 x 3 1/2 x 1/4	-	-	-	15'	9'	6'	4'	3'	2'	1'	-	-
3 1/2"	5 x 3 1/2 x 5/16	-	-	-	19'	12'	8'	5'	4'	2'	2'	1'	-
	5 x 3 1/2 x 7/16	-	-	-	26'	16'	10'	7'	5'	4'	3'	1'	-
3 1/2"	5 x 3 1/2 x 1/2	-	-	-	29'	18'	12'	8'	6'	4'	3'	2'	1'
	6 x 3 1/2 x 1/4	-	-	-	22'	16'	10'	7'	5'	4'	3'	2'	1'
3 1/2"	6 x 3 1/2 x 5/16	-	-	-	-	19'	13'	9'	6'	5'	3'	2'	1'
	6 x 3 1/2 x 3/8	-	-	-	-	23'	15'	11'	8'	5'	4'	2'	1'
3 1/2"	6 x 3 1/2 x 1/2	-	-	-	-	30'	20'	14'	10'	7'	5'	2'	1'
	4"	6 x 4 x 1/4	-	-	-	-	16'	11'	7'	5'	4'	3'	2'
3 1/2"	6 x 4 x 5/16	-	-	-	-	-	20'	14'	9'	7'	5'	3'	2'
	6 x 4 x 3/8	-	-	-	-	-	-	16'	11'	8'	6'	4'	2'

Table to be used to determine height of brick that an angle can support for different spans or openings.

## HEIGHT OF BRICK SUPPORTED

HORIZONTAL LEG IN INCHES	ANGLE SIZE	WEIGHT PER FT. (LBS.)	4'	6'	8'	10'	12'	14'	16'	18'	20'
3 1/2"	5 x 3 1/2 x 5/16	8.7	1770	779	324	161	90	53	30	–	–
	5 x 3 1/2 x 3/8	10.4	2089	918	381	190	106	63	36	–	–
3 1/2"	5 x 3 1/2 x 1/2	13.6	2727	1179	489	244	135	80	45	–	–
	6 x 3 1/2 x 5/16	9.8	2493	1102	539	271	153	93	54	30	–
4"	6 x 3 1/2 x 3/8	11.7	2958	1308	638	321	181	109	64	36	–
	6 x 4 x 3/8	12.3	–	1340	667	336	189	115	67	37	–
4"	6 x 4 x 1/2	16.2	–	1748	860	432	243	147	86	48	–
	7 x 4 x 3/8	13.6	–	1795	1004	517	294	180	108	62	36
4"	7 x 4 x 1/2	17.9	–	2349	1314	670	380	233	140	80	47
	8 x 4 x 1/2	19.6	–	–	1697	973	555	342	208	122	73
3 1/2"	MC 8 x 21.4	21.4	–	–	3080	1567	898	557	342	205	127
	MC 10 x 21.9	21.9	–	–	–	2517	1447	903	559	341	216
	MC 12 x 30.9	30.9	–	–	–	–	2699	1688	1049	643	411
4"	W 8 x 15	15	–	–	2401	1222	701	436	268	162	101
	W 10 x 19	19	–	–	–	2463	1418	886	549	336	214
	W 12 x 22	22	–	–	–	–	2305	1444	898	553	355

*This table indicates what height of brick that can be supported. The angles are designed to limit bending stress (FB=22,000 psi ASTM A36 steel). Maximum deflection limited to 1/600. Lateral support assumed in all cases. For angles not laterally supported allowable load must be reduced. For angles subjected to torsion make special investigation. Table produced per Brick Institute of American Technical Note 31B.*

**NORTON METALS, INC.**

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***FENCE, GATE, AND  
MISCELLANEOUS  
HARDWARE***



# FENCE HARDWARE - HINGES

NORTON METALS, INC.

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## STANDARD WEIGHT HINGE

No holes, durable, long lasting, weldable

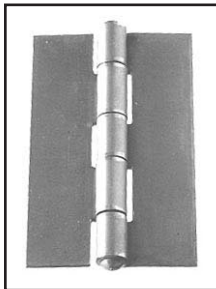
**FENHI4S** 4" x 4"  
**FECWBH3** 3" x 3"  
**FENHI2S** 4" x 4"



## HEAVY DUTY WEIGHT HINGE

No holes, durable, long lasting, weldable

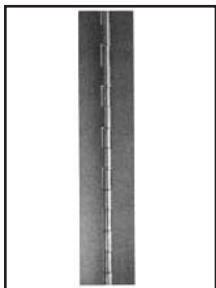
**FECHDBH6** 6" x 6"  
**FECHDBH5** 5" x 5"



## NARROW WIDTH HINGE

No hole hinge 2 1/4" x 3 1/2" x 12 gauge.  
 Economy price.  
 Fits 1" square tubing.

**FENNOHOLEHI100**



## CONTINUOUS HINGE

No holes Plain steel.

16 gauge 1 1/2" x 72"  
**FENHC72**

16 gauge 3" x 72"  
**FENHC372**

16 gauge 4" x 72"  
**FENHC472**



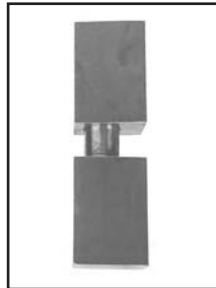
## BARREL HINGES

Machined from 5/8" round bar.  
 Designed for gates up to 75 lbs.

**FENBHXS** 2" barrel hinge

Machined from 3/4" round bar.  
 Designed for gates and doors up to 100 lbs.

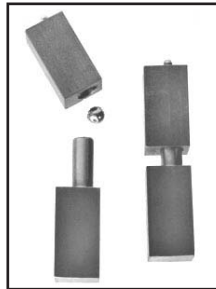
**FENBHS** 3" barrel hinge



## EXTRA LARGE BLOCK HINGE

Machined from cold finished steel.  
 Easy weld-on installation.  
 Ball bearing for smooth operation.  
 Up to 2500 lb. gate capacity

**FECBHL**



## SQUARE HINGE

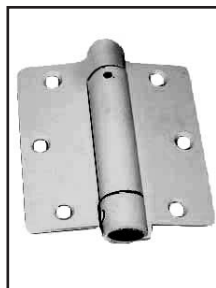
Machined from cold finished steel.  
 Grease fitting and ball bearing. Easy weld-on installation.

5" gate hinge 300lbs. gate capacity per set.

**FENBHM**

7" gate hinge 1000lbs. gate capacity per set.

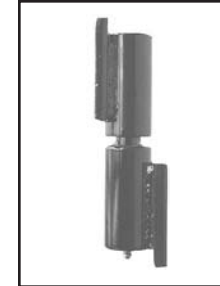
**FENBHL**



## HAGGER SPRING HINGE

Single acting, spring hinge for automatic closing of doors. Complete with adjusting pins 3 1/2" x 3 1/2".

**FENHI1250**



## BARREL HINGE

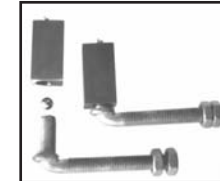
Barrel hinge with weld tabs and stainless steel pin. Grease fitting and ball bearing.

5" barrel hinge. 40 p/box / 54 lbs. p/box.

**FECBH5**

7" barrel hinge. 16 p/box / 51 lbs. p/box.

**FECBH7**

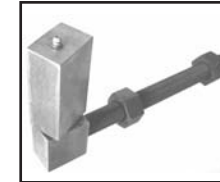


## ADJUSTABLE BLOCK HINGE

Medium adjustable hinge.

5/8" J-Rod provides 4" of adjustment.  
 Grease fitting.

**FENBHMADJ**



Large adjustable hinge.

7/8" J-Rod provides 7" of adjustment.  
 Grease fitting.

**FENBHLADJ**



## FEMALE BAT WING

1/2" hole.

For use with FECBWM or 1/2" rod.

**FECBWF**



## MALE BAT WING

Fits 1/2" hole.

For use with FECBWF or 1/2" SCH 40 pipe.

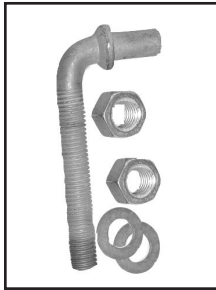
**FECBWM**

# FENCE HARDWARE - GATE CLOSER / HANGER - WHEELS

NORTON METALS, INC.  
817-232-0404 • 800-669-7883  
Fax 817-234-0101 • www.nortonmetals.com



**KANT SLAM GATE CLOSER**  
One year limited warranty hydraulic action, not on an air check. Easy installation. Adjusting screw on top regulates closing speeds of gate. Holds gate open if needed.  
**FENHA7**



**GATE HANGER**  
1/2" x 4 1/2" galvanized with two nuts threaded the full length.  
**FECGHB12412** 1/2" x 4 1/2"  
**FENHA258** 5/8" x 4 1/2"  
**FECGHB347** 3/4" x 7"



**GATE SPRING ROLLER**  
Heavy duty spring. Mill finished. Height 16 3/4" with 3" swivel caster with bearing.  
**FENGPR**



**FULL PNEUMATIC WHEEL CASTER**  
Wheel size 6" x 2 1/2".  
Plate size 4 1/2" x 4" x 1/4".  
Maximum protection of floors with good shock absorption. Available in swivel or rigid style.  
**FENHA27**



**"V" GROOVE CAST WHEEL**  
Cast iron body roller bearing for easy operation. Rolls smoothly on ordinary angle iron.  
4" x 1 1/2" cast iron wheel - 20 p/box.  
**FECIVGW4112**  
6" x 2" cast iron wheel - 20 p/box.  
**FECIVGW62**



**"V" GROOVE STEEL WHEEL**  
1 3/4" wide. All steel construction. Sealed bearing.  
4" wheel has a 3000 lb. cap. 1/2" bolt & nut.  
**FENHA40**  
6" wheel has a 5000 lb. cap. 5/8" bolt & nut. Maintenance free.  
**FENHA41**



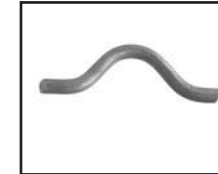
**"V" GROOVE WHEEL BOX**  
All steel construction.  
4" V- groove box wheel.  
2 1/2" wide x 5 1/4" long x 3" tall  
**FECVGB4**  
6" V- groove box wheel.  
2 7/8" wide x 7" long x 4" tall  
**FECVGB6**



**ROLLER GUIDE**  
Smooth rubber cylinder and sturdy metal bracket for smooth operation of sliding gates and doors.  
**FECRR12** 12" roller guide  
**FECRR6** 6" roller guide  
**FECRR3** 3" roller guide



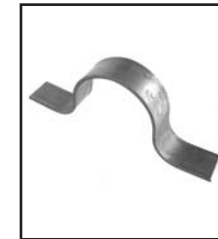
**GENERAL DUTY STEEL GATE ROLLER**  
For 1 5/8" O.D. pipe. 5" wheel and axle.  
**FENHA20**



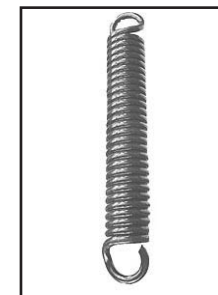
**CABLE CLIP**  
Standard 5/16" cable clip.  
**FENRRC516**  
Large 5/16" cable clip.  
**FENLLRCC516**



**CHAIN LATCH TAB**  
**FENCLT**



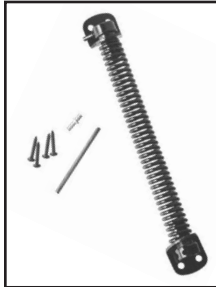
**CABLE CLIP FLAT**  
1/8" 1" x 2 3/4".  
**FENFC181238**



**CABLE SPRING**  
**FENC5**  
12" long.

# FENCE HARDWARE - SLIDE BOLTS - LATCHES - FASTENERS

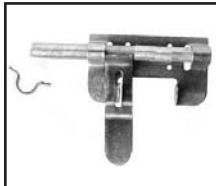
**NORTON METALS, INC.**  
 817-232-0404 • 800-669-7883  
 Fax 817-234-0101 • www.nortonmetals.com



**GATE SPRING**  
 9" spring. Standard duty adjustable black finish with screws.  
**FECSPR9**  
 12" spring. Heavy duty adjustable black finish with screws.  
**FECSPR12**



**HEAVY DUTY SLIDE BOLT**  
 Years of dependable service.  
**FENHA1**



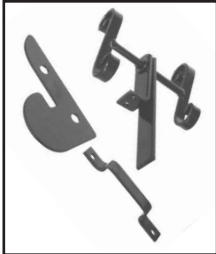
**EXTRA LARGE HEAVY DUTY SLIDE BOLT**  
 Zinc plated extra large bolt.  
**FENHA8**



**LOCKING CANE BOLT**  
 1/2" cane bolt 22".  
 Mill finish.  
**FENHA19CB**



**CANE BOLT**  
 Zinc plated round bar with mounting hardware.  
**FECCEB12** 1/2" X 12"  
**FECCEB18** 1/2" X 18"  
**FECCEB24** 1/2" X 24"



**FANCY LATCH**  
 Rugged weldable steel mounting bracket with a mill finish.  
 50 p/box. / 64 lbs p/box.  
**FECFGL**



**GRAVITY GATE LATCH**  
 Heavy duty. No screw holes.  
 Bar length 3 7/8" base 1"  
 100 p/box. / 37.5 lbs p/box.  
**FECNHGL**



**TORX TAMPER RESISTANT SCREWS**  
 Simple to install. TORX tamper resistant screws can only be removed with an installation tool. Threaded full length. Black finish.  
**FENTX14112** 1/4" X 1 1/2"  
**FENTX142** 1/4" X 2"  
**FENTX143** 1/4" X 3"



**SECURITY TORX DRIVER BIT**  
 Used for installation of TORX tamper resistant screws.  
**FENPBT40**



**ONE WAY LAG SCREWS**  
 Threaded the full length of the shaft. Hardened black finish. One way lag screws. Installed with a screwdriver or power bit.  
**FENOW14112** 1/4" X 1 1/2"  
**FENOW142** 1/4" X 2"  
**FENOW143** 1/4" X 3"



**ONE WAY DRIVER**  
 Used for installation of One Way lag screws.  
**FENPB14**



**MASONRY NAILS**  
 Used in concrete.  
 One piece.  
 No other fastener needed.  
**AGALV14114MNA** 1/4" x 1 1/4"

# FENCE HARDWARE - FASTENERS - LOCK BOXES - KNOBS - BASE PLATES

NORTON METALS, INC.  
 817-232-0404 • 800-669-7883  
 Fax 817-234-0101 • www.nortonmetals.com



## WEDGE ANCHORS

- AGALV516212WA** 5/8" x 2 1/2"
- AGALV38214WA** 3/8" x 2 1/4"
- AGALV38234WA** 3/8" x 2 3/4"
- AGALV38334WA** 3/8" x 3 3/4"
- AGALV12234WA** 1/2" x 2 3/4"
- AGALV12334WA** 1/2" x 3 3/4"



## J-BOLTS

- AGALV126AB** 1/2" x 6"
- AGALV3412AB** 3/4" x 12"
- AGALV3418AB** 3/4" x 18"
- AGALV124** 1" x 24"



## WELDABLE STEEL LOCK BOX

1" wide.  
 2 1/8" holes. Height 4 1/4" x 4 1/2" wide.  
 Special design fits flush on 1" frame.

- FENLB218T**  
Single thin.



## WELDABLE STEEL LOCK BOX

1" wide.  
 2 1/8" holes. Height 7 1/2" x 4 3/8".  
 Special design fits flush on 1" frame.

- FENLB218DT**  
Double Thin.



## WELDABLE STEEL LOCK BOX

1 5/16" wide. 2 1/8" hole.  
 Height 4 1/4" x 3 1/2" wide.

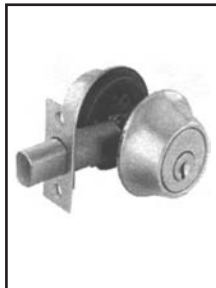
- FENLB218**  
Single thick.



## NON-LOCKING KNOB

Non-locking all steel latch. Polished brass.

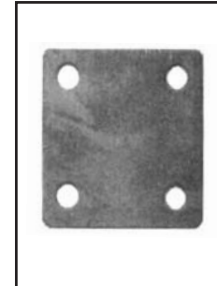
- FENKW200T3**



## DEAD BOLT LOCK

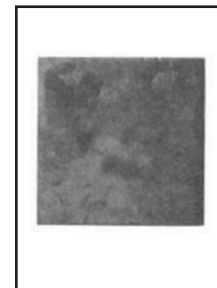
Standard 2 3/8" back set. Up to 6".  
 Available keyed alike. Full 1" bolt.

- FENKW6653**



## BASE PLATES WITH 4 HOLES

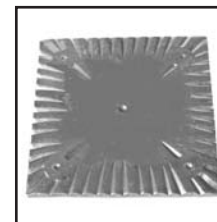
- FECWT113** 3/16" 3 x 3" 3/8" holes
- FECWT114** 3/16" 4 x 4" 3/8" holes
- FECWT115** 1/4" 5 x 5" 3/8" holes
- ASPBP6** 1/4" 6 x 6" 9/16" holes
- ASPBP8** 1/4" 8 x 8" 9/16" holes
- ASPBP812** 1/2" 8 x 8" 13/16" holes
- FECWT210** 5/16" 10 x 10" 1/2" holes
- ASPBP1212** 1/2" 12 x 12" 13/16" holes
- ASPBP12** 3/4" 12 x 12" 13/16" holes



## BASE PLATES

Steel blanks in a variety of sizes. No holes.

- PURCLIPBL3510** 3/16" 3" x 5"
- PURCLIPBL57316** 3/16" 5" x 7"
- ASPBPB** 1/4" 6" x 6"



## SHOE BASE PLATE

5/16" plate 4 3/4" x 4 3/4".  
 Weight 2 lbs.

- AMC1816**

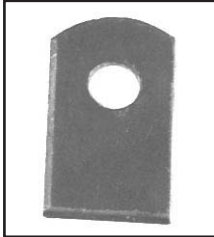


## RAISED STEEL BASE PLATE SHOE

- FECFSH41** Fits 1" square tube
- FECFSH4114** Fits 1 1/4" square tube
- FECFSH4112** Fits 1 1/2" square tube
- FECFSH42** Fits 2" square tube

# FENCE HARDWARE - TABS - PIPE & RAIL FITTINGS

**NORTON METALS, INC.**  
 817-232-0404 • 800-669-7883 • Fax 817-234-0101  
 www.nortonmetals.com



**STEEL FLAT TAB**  
 1/8" x 1 1/2" x 2 1/2" with 3/8" hole.  
**FENWT9**  
 1/8" x 1" x 2 1/4" with 3/8" hole.  
**FENWT2**  
 1/8" x 1" x 1 1/2" with 3/8" hole.  
**FENWT101**



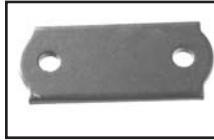
**STEEL TAB - L**  
 1/8" 1" wide x 3 1/2" high.  
 1 1/2" extension. 3/8" hole.  
**FENWT8**



**WELD TAB - FLAT**  
 1/8" x 2 x 3 3/8" with 3/8" hole.  
**FENWT106**



**WELD TAB - L**  
 L bracket for window guards and railing  
 3/16" x 1" w x 1 3/4" h x 3 1/2" long.  
 3/16" hole. 250 p/box / 59lbs p/box.  
**FENWT104**  
 L bracket for window guards and railing  
 3/16" x 1" w x 1 1/2" h x 3 1/2" long.  
 3/16" hole. 250 p/box / 59lbs p/box.  
**FENWT104S**



**WELD TAB - FLAT**  
 3/16" thick x 1 1/2" wide x 3 1/2".  
 250 p/box / 58 lbs p/box.  
**FENWT107**



1/8" thick x 1" wide x 3 1/4".  
 500 p/box / 48 lbs p/box.  
**FENWT108**



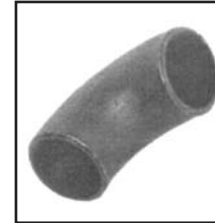
**STEEL CAPS - FLAT**  
**FENEC238** 3/16" x 2 3/8" OD  
**FENEC278** 3/16" x 2 7/8" OD



**STEEL TAB - FLAT**  
 3/16" thick x 1 1/2" wide x 3 7/16" long.  
 3/8" hole.  
**FENWT6**



**STEEL TAB - L**  
 3" wide x 3" high x 7/8" extension.  
 3/8" hole.  
**FENWT5**



**PIPE ELBOWS - STEEL**  
**90° ELBOW**  
 Grade A S.T.M. 234 WPB SCH 40.  
 Beveled edges for easy welding.  
 Many uses. Long radius carbon steel.

**FENEL690** 6"  
**FENEL490** 4"  
**FENEL31290** 3 1/2"  
**FENEL390** 3"  
**FENEL21290** 2 1/2"  
**FECE9020** 2"  
**FECE9012** 1 1/2"  
**FECE9014** 1 1/4"  
**FECE9010** 1"



**45° ELBOW**  
**FENEL545** 5"  
**FENEL445** 4"  
**FENEL345** 3"  
**FENEL245** 2"  
**FENEL11245** 1 1/2"  
**FENEL11445** 1 1/4"  
**FENEL145** 1"



**STEEL WELD-ON "T"'S**  
 Black finish SCH 40 Beveled edges.  
**FENELTE1** 1" TEE  
**FENELTE114** 1 1/4" TEE  
**FENELTE112** 1 1/2" TEE  
**FENELTE2** 2" TEE  
**FENELTE4** 4" TEE



**RAISED STEEL PIPE FLANGES**  
 3 3/4" O.D.  
**FECSPF1** Fits 1" pipe  
**FECSPF114** Fits 1 1/4" pipe  
**FECSPF112** Fits 1 1/2" pipe  
**FENSPF200** Fits 2" pipe

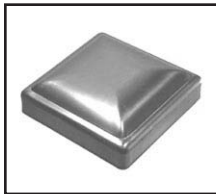
# FENCE HARDWARE - POST CAPS - BALL CAPS



## WELD-ON END CAPS

SCH 40 Beveled edges for easy welding.

- FENELCAP1** 1"
- FENELCAP114** 1 1/4"
- FENELCAP112** 1 1/2"
- FENELCAP2** 2"
- FENELCAP212** 2 1/2"
- FENELCAP3** 3"
- FENELCAP312** 3 1/2"
- FENELCAP4** 4"
- FENELCAP6** 6"



## PRESSED STEEL POST CAPS

No welding necessary - cap fits tight.

- FECPC34** 3/4" X 3/4"
- FECPC1** 1" X 1"
- FECPC114** 1 1/4" X 1 1/4"
- FECPC112** 1 1/2" X 1 1/2"
- FECPC2** 2" X 2"
- FECPC212** 2 1/2" X 2 1/2"
- FECPC3** 3" X 3"
- FECPC4** 4" X 4"



## NEWEL POST CAPS

Cast iron tops. Made to fit over tubing tops

- FECCE141** 1" X 1"
- FECCE146** 1 1/4" X 1 1/4"
- FECCE142** 1 1/2" X 1 1/2"
- FECCE143** 2" X 2"
- FECCE147** 2 1/2" X 2 1/2"
- FECCE144** 3" X 3"
- FECCE145** 4" X 4"
- FENCI810** 5" X 5"
- FECCE149** 6" X 6"



## PRESSED PIPE CAPS

- FENSC114RP** 1 1/4"
- FENSC112RP** 1 1/2"
- FENSC2RP** 2"
- FENSC212RP** 2 1/2"
- FENSC3RP** 3"
- FENSC4RP** 4"
- FENSC6RP** 6"



## NEWEL BALL CAPS

Cast iron fitting. Fits over square base.

- FECCE115** 1" x 1"
- FECCE117** 1 1/2" x 1 1/2"
- FECCE118** 2" x 2"
- FECCE120** 3" x 3"
- FECCE119** 4" x 4"
- FENCI125** 5" X 5"
- FENCI126** 6" x 6"



## CAST IRON BALL CAP

Fits on 1 1/4" square base.  
Ball diameter 1 1/2" x 2 1/2" high.  
25 p/box / 18 lbs p/box.

**FECCL7A**



## CAST IRON BALL CAP

Fits on 1" square base.  
Ball diameter 1 5/16" x 2 1/2" high.  
32 p/box / 20 lbs p/box.

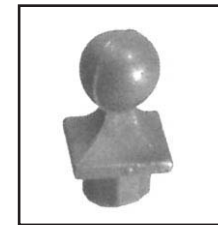
**FECCE2241**



## CAST IRON BALL CAPS

Fits on 1 1/2" square base.  
Ball diameter 1 1/2" x 2 1/2" high.  
25 p/box / 20 lbs p/box.

**FECCE224112**



## 1" POST BALL CAP

1" diameter. 1 1/2" high.  
Drive into 1" square tubing.

**FENCI7X**

# FENCE HARDWARE - SPEARS

NORTON METALS, INC.  
817-232-0404 • 800-669-7883 • Fax 817-234-0101  
www.nortonmetals.com



**CAST IRON POST TOP**  
3" Height. 1" square base.  
**FENC18010**

4" Height. 1 1/4" square base.  
**FECCE219**



**CAST IRON SPEAR**  
2 3/4" wide x 3 1/2" high.  
Fits 3/4" square base.

**FENC18020**



**CAST IRON SPEAR**  
2 1/2" wide x 4 5/8" high.  
Fits 1/2" square base.

**FENC17080**



**CAST IRON SPEAR**  
Fits over 3/4" square base.  
14 p/box / 17 lbs p/box.

**FECCE671AF**



**CAST IRON SPEAR**  
Fits over 1/2" square base.  
7" height.

**FECCL826**



**CAST IRON PINEAPPLE ROUND**  
4 1/2" High. 1 3/4" round base.  
16 p/box / 26 lbs p/box.  
**FECCE657**



**CAST IRON PINEAPPLE**

Fits 1/2" square. 1" w x 2" h.  
**FECCE812** 96 p/box / 21 lbs.

Fits 3/4" square. 2 1/4" w x 1 1/4" h.  
**FECCE834** 48 p/box / 18 lbs.

Fits 1" square. 1 1/2" w x 2 1/2" h.  
**FECCE810** 30 p/box / 18 lbs.



**CAST IRON SPEAR**

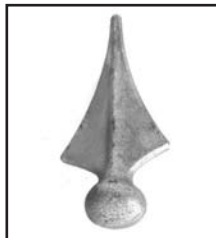
4 3/16" high. Fits 1/2" square tube.  
**FECCE21812** 50 p/box / 21 lbs.

4 1/8" high. Fits 3/4" square tube.  
**FECCE21834** 50 p/box / 21 lbs.



**CAST IRON SPEAR**

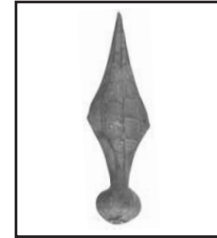
7 1/4" high. Fits over 1/2" square picket.  
**FECCL668**



**HAND FORGED SPEAR**  
1 3/8" base. 4 15/16" high.  
**AMC 1251**



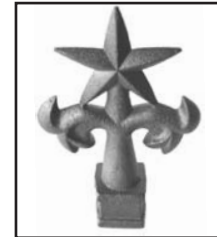
**HAND FORGED SPEAR**  
1 9/16" wide. 9 3/4" high. 1.4 lbs. ea.  
**AMC 1202**



**HAND FORGED SPEAR**  
1 3/16" base. 6 11/16" high. 0.6 lbs. ea.  
**AMC 1203**



**CAST IRON SPEAR**  
4" high. 5 1/4" wide.  
Fits over 1/2" round tube.  
**FECCL651**



**CAST IRON STAR**  
3 1/2" wide x 5" high.  
Fits over 1/2" square tube.  
**FEN659STAR**

4" wide x 6 1/4" high.  
Fits over 3/4" square tube.  
**FEN659YSTAR**



**CAST IRON SPEAR**  
2 5/8" wide. 4 5/8" high. Fits 1/2" square.  
**FENC18832**

3 5/8" wide. 6 1/8" high. Fits 3/4" square. **41**  
**FENC18832Y**  
4 1/2" wide. 7 5/8" high. Fits 1" square.  
**FENC18832Z**

# FENCE HARDWARE - SPEARS



**CAST IRON SPEAR**

5 5/16" High. Fits 1/2" square tube.  
30 p/box / 16 lbs.

**FECCE26012**

5 1/2" high. Fits 3/4" square tube.  
30 p/box.

**FECCE26034**



**CAST IRON SPEAR**

4 1/4" high. Fits 1/2" square tube.

**FECCE217B12**

4 1/8" high. Fits 3/4" square tube.

**FECCE217WB34**

7 7/8" high. Fits 1" square tube. 1 3/4" base.

**FECCE9Z**



**CAST IRON SPEAR**

4 1/4" high. Fits 1/2" square tube.  
50 p/box / 18 lbs.

**FECCE21512**

4 1/8" high. Fits 3/4" square tube.  
50 p/box / 18 lbs.

**FECCE21534**



**CAST IRON SPEAR**

2 3/4" w x 5" h. Fits 1/2" square tube.  
50 p/box

**FECCE22712**

3" w x 5 1/4" h. Fits 3/4" square tube.  
50 p/box

**FENC17090**



**CAST IRON SPEAR**

2 3/4" wide x 6" high.  
Fits 1/2" square tube.

**FECCE27012**

3" wide x 5 1/4" high.  
Fits 3/4" square tube.

**FECCE27034**



**CAST IRON SPEAR**

3 1/2" wide x 6 1/2" high.  
Fits 1/2" square tube.

**FENCI655**



**CAST IRON SPEAR**

2 3/4" wide x 8" high.  
Fits 1" square tube.

**FENCI8015**



**CAST IRON SPEAR**

1" wide x 4 5/8" high.  
Fits 3/4" square tube.

**FENCI954**



**CAST IRON SPEAR**

4 3/16" high. Fits 1/2" square tube.  
60 p/box / 17 lbs p/box.

**FECCE21712**



**CAST IRON SPEAR**

Fits 1/2" round tube.

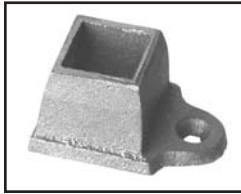
**FENCI9RS**

# FENCE HARDWARE - SHOES - COLLARS

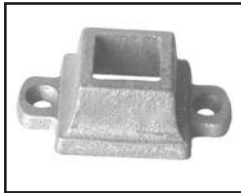
**NORTON METALS, INC.**  
 817-232-0404 • 800-669-7883 • Fax 817-234-0101  
 www.nortonmetals.com



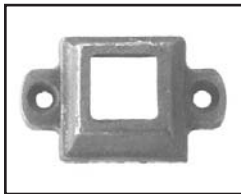
**1/2" CAST IRON SHOE**  
 1" deep collar.  
 Fits 1/2" square tubing.  
 120 p/box / 17 lbs.  
**FECCEEE**



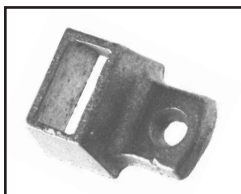
**CAST IRON SHOE**  
 1 3/8" deep collar. One ear.  
 Straight inside wall for 1" tube.  
 Fits 1" square tubing.  
**FECCELL**



**CAST IRON SHOE**  
 1 3/8" deep collar.  
 2 1/4" x 2 1/4".  
 Fits 1" square tubing.  
**FECCLBB**



**CAST IRON SHOE**  
 1 1/2" high.  
 Straight inside wall for 1" tube.  
 Fits 1" square tubing.  
**FECCEMM**



**CAST IRON CHANNEL SHOE**  
 2 1/8" high x 1 3/16" wide.  
 Fits 1" channel.  
**FENCI653**



**PLASTIC SHOES**  
**FENPS114** 1 1/4" two part shoe.  
**FENPS112** 1 1/2" two part shoe.  
**FENPS2** 2" two part shoe.



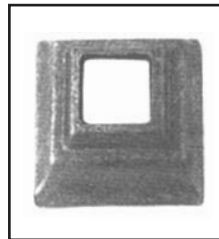
**1 1/4" CAST IRON SHOE**  
 Tapered I.W.  
 Fits 1 1/4" square tube.  
**FECCLRR**



**CAST IRON SHOE**  
 For molded cover rail and  
 tubular steel handrail.  
 3 3/4" high x 2 1/2" wide.  
 44 p/box / 22 lbs.  
**FECCE654**



**CAST IRON PITCH SHOE**  
 1/2" hole. (Pitch shoe)  
 1 1/4" square shoe.  
**AMC14911**  
 9/16" hole. (Pitch shoe)  
 1 1/4" square shoe.  
**AMCSHOEA196**



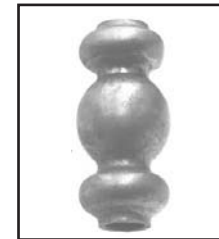
**CAST IRON SHOE**  
 1/2" square hole.  
 1 1/2" square.  
**AMCSHOE12**  
 5/8" square hole.  
 1 1/2" square.  
**AMCSHOE58**



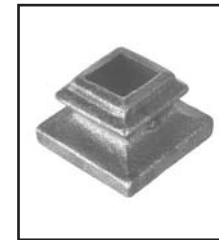
**CAST IRON SHOE**  
 3 3/4" x 3 3/4". 2" deep collar.  
 Fits 1 1/2" square tube.  
**FECCEHH**



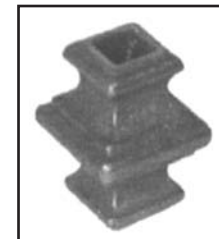
**BALUSTER COLLAR**  
 1 3/16" wide x 1 15/16" high  
 1/2" hole. Weight .15 lbs.  
**AMC1553**



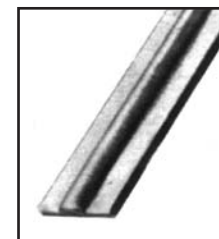
**BALUSTER COLLAR**  
 1 3/16" wide x 2 9/16" high  
 1/2" hole. Weight .15 lbs.  
**AMC1552**



**BALUSTER COLLAR**  
 Cast iron  
 1 1/4" wide x 1 1/16" high. 1/2" hole.  
**AMC14913**



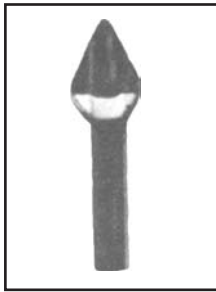
Cast iron  
 1 1/4" wide x 1 1/16" high. 9/16" hole.  
**AMCSHOER916**



**BALUSTER COLLAR**  
 Baluster fits over square tube or bar.  
 1 3/4" wide x 2" high.  
 Fits 1/2" baluster collar.  
**FENCI68312**  
 Fits 3/4" baluster collar.  
**FENCI68334**

**COLLAR (BANDING) MATERIAL**  
 9/16" wide x 5/32" high.  
 Approx. length 13'. Weight 2.4 lbs.  
**AMC1583**

# FENCE HARDWARE - PUNCHED CHANNELS - RINGS - POST COVERS



**PRESSED SPEAR POINT**  
 Tube pressed spear point picket.  
 3/4" square x 6 feet.  
 Red primer finish.  
**PSTP34016**  
 3/4" square x 8 feet.  
**PSTP3401696**



**Punched Channels 20'**  
 Punched channels with 9/16" hole. **SPACING**

<b>FENPBC1004</b>	1" x 1/2" x 1/8"	4"
<b>FENPBC1006</b>	1" x 1/2" x 1/8"	6"
<b>FENPBC1005</b>	1" x 1/2" x 1/8"	5"
<b>FENPBC1120412</b>	1 1/2" x 1/2" x 1/8"	4"
<b>FENPBC1120612</b>	1 1/2" x 1/2" x 1/8"	6"

Punched channels with 13/16" hole. **SPACING**

<b>FENPBC1120434</b>	1 1/2" x 1/2" x 1/8"	4"
<b>FENPBC1120634</b>	1 1/2" x 1/2" x 1/8"	6"
<b>FENPBC12118434</b>	2" x 1" x 1/8"	4"
<b>FENPBC12118634</b>	2" x 1" x 1/8"	6"



**SOLID STEEL SPHERES**  
 Smooth weldable spheres. Stamped.

<b>AMC116F1</b>	3/4" dia.	.08 lbs.
<b>AMC116F2</b>	1" dia.	.1 lbs.
<b>AMC116F4</b>	9/16" dia.	.6 lbs.
<b>AMC116F8</b>	3 1/8" dia.	3.3 lbs.

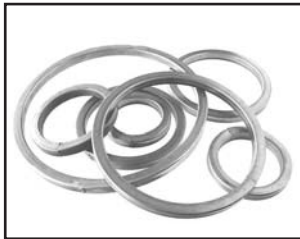


**LARGE HOLLOW SPHERES**  
 Smooth weldable finish.

<b>FENSFB4</b>	4" diameter
<b>FENSFB6</b>	6" diameter



**SOLID STEEL TWISTED RING**  
 3/16" thickness. 2 1/2" diameter.  
 Weight .11 lbs.  
**AMC156A6**



**STEEL TUBE RING**  
 1/2" rolled square tubing rings.

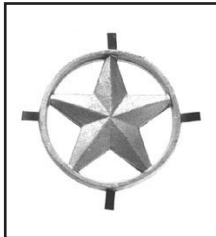
<b>FECSR315</b>	3 1/2"
<b>FECSR400</b>	4"
<b>FECSR415</b>	4 1/2"
<b>FECSR500</b>	5"
<b>FECSR515</b>	5 1/2"
<b>FECSR600</b>	6"
<b>FECSR900</b>	10"



**HAMMERED STEEL RING**  
 1/4" square bar hammered. 1" dia.  
**AMC156A1**  
 1/4" square bar hammered. 1 9/16" dia.  
**AMC156A3**  
 1/2" square bar hammered. 3 15/16" dia.  
**AMC4919**



**SOLID STEEL RING**  
 1/4" x 1/2" Rolled flat bar. 4" O.D.  
**AMC1571**



**ALUMINUM STAR IN CIRCLE**

<b>FNA9734</b>	3 1/2"
<b>FNA8442</b>	5 5/8"
<b>FNA711</b>	11 5/8"
<b>FNA0712</b>	24"



**SMALL CAST IRON HORSE HEAD**  
 9 1/2" high.  
 1 7/8" inside diameter fits  
 over 1 1/2" pipe.  
**FENCIHRSEHD2**



**LARGE CAST IRON HORSE HEAD**  
 11 3/4" high.  
 4 1/8" inside diameter fits  
 over 3 1/2" pipe.  
**FENCIHRSEHD4**



**ALUMINUM TEXAS LONGHORN**  
 27" wide x 14" high.  
**FENAC622**



**ALUMINUM POST CAP**  
 5 1/2" wide x 5" high.  
**FENAC998**



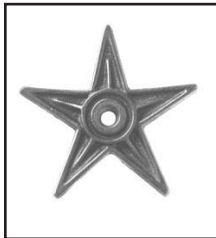
**ALUMINUM POST COVER**  
 (two halves)  
 7 1/4" wide x 26" high. Weight 5.0 lbs.  
**FENAC999**

# FENCE HARDWARE - STARS - ROSETTE - FLAME CUT IMAGES

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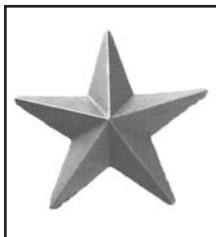
**CAST IRON STAR**  
 9" star with 1/2" hole.  
 Single faced.  
**FENC177**



**CAST IRON STAR**  
 6 1/2" star with 7/16" hole.  
 Single faced.  
**FENC178**



**CAST IRON STAR**  
 5 1/2" star. Single faced.  
**FENC173**  
 8 3/4" star. Single faced.  
**FENC174**



**CAST IRON STAR**  
 2" star. Single faced.  
**FENC176**  
 4 7/8" star. Single faced.  
**FENC175**



**STEEL CURTAIN RINGS**  
 1 7/8" O.D. Raw steel finish.  
**FENCICD880112**  
 2 3/8" O.D. Raw steel finish.  
**FENCICD8802**



**CAST IRON ROSETTE**  
 2 1/2". Single faced.  
**FECCL9052SF**  
 2 1/2". Double faced.  
**FECCL9052DF**



**CAST IRON ROSETTE**  
 3 1/2". Single faced with hole.  
**FECCL9053SF**  
 3 1/2". Double faced with hole.  
**FECCL9053DF**



**CAST IRON ROSETTE**  
 3 3/8" x 2". Single faced.  
**FECCL9054SF**  
 3 3/8" x 2". Double faced.  
**FECCL9054DF**



**CAST IRON ROSETTE**  
 4" diameter. Single faced.  
**FECCL681SF**  
 4" diameter. Double faced.  
**FECCL681DF**

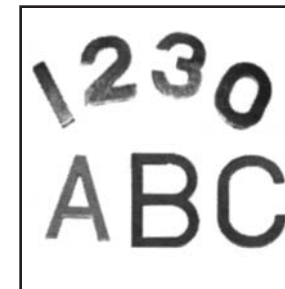


**CAST IRON ROSETTE**  
 3 1/2". Single faced.  
**FECCL9050SF**  
 3 1/2". Double faced.  
**FECCL9050DF**

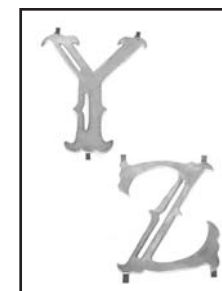


**FLAME CUT STEEL IMAGES**  
 12 gauge, hot rolled steel.  
 Flame cut images including letters and numbers.  
 Black primer finish.  
 Other sizes available.

- EAGLE** 12"
- BASS** 12"
- BRONC RIDER** 12"
- DUCK** 12"
- CRANE** 12"
- WAGON WHEEL** 20"
- SQUIRREL** 6", 12"
- WOLF** 12"
- LETTERS A-Z** 8"
- NUMBERS 0-9** 8"



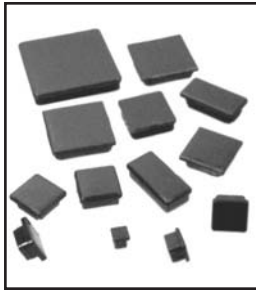
**CAST IRON LETTERS AND NUMBERS**  
 Cast iron 5".  
**Letters A-Z**  
 Cast iron 5".  
**Numbers 0-9**



**ALUMINUM LETTERS**  
 10" letters with steel weld tabs.  
**Letters A-Z**

Other letters and styles available.

# FENCE HARDWARE - PLASTIC SPEARS/CAPS



## PLASTIC SQUARE TUBE PLUGS

- 16 Gauge plugs.
- FENPP12** 1/2"
  - FENPP34** 3/4"
  - FENPP116** 1"
  - FENPP11416** 1 1/4"
  - FENPP11216** 1 1/2"
  - FENPP216** 2"

- 11 Gauge plugs.
- FENPP111** 1"
  - FENPP11411** 1 1/4"
  - FENPP11211** 1 1/2"
  - FENPP211** 2"

- 14 Gauge plugs.
- FECPLSCAP3** 3"

Black finish. Provides a clean finish to tubing ends. Protects against injury from sharp tubing edges. Keeps dirt and moisture from inside tubing.



## RECTANGULAR PLASTIC TUBE PLUGS

- 2" x 1" 16 gauge plug.
- FENPP2116**

- 2" x 1" 11 gauge plug.
- FENPP2111**



## PLASTIC SPEAR

3 3/8" wide x 5 1/2" high. Fits over 1/2" square pickets. Also fits into 1" square tubing 16 or 14 gauge.

**FENPSM40**



## PLASTIC SPEARS

Will not rust or deteriorate. Molded from high grade plastic. Fits 1/2" or 3/4" square tubing. 4 1/4" high.

- FENPSM30** 1/2"
- FENPSM34** 3/4"



## PLASTIC SPEARS

Will not rust or deteriorate. Molded from high grade plastics. Fits 1/2" or 3/4" square tubing. 4 1/4" high.

- FENPSM25** 1/2"
- FENPSM2534** 3/4"



## PLASTIC NEWEL CAPS

Will not rust or deteriorate. Molded from high grade plastic.

- FENPS807B** 2"
- FENPS808B** 3"



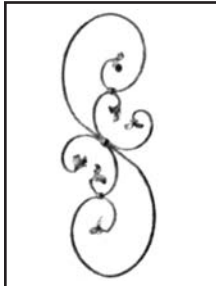
## PLASTIC DECORATIVE CAP

For 1/2" square tubing. Provides extra protection from sharp edges.

**FENPB12**

# FENCE HARDWARE - SCROLLS

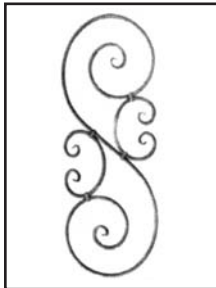
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[www.nortonmetals.com](http://www.nortonmetals.com)



**STAIR PANEL SCROLL**

1/2" x 1/4" flat.  
 13 3/4" wide x 34 1/4" high.  
 Weight 5.5 lbs.

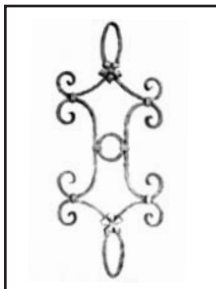
**AMC521**



**STAIR PANEL SCROLL**

9 1/16" dia. x 13 3/4" wide x 34 1/4" high.  
 Weight 12.0 lbs. Meets 4" code.

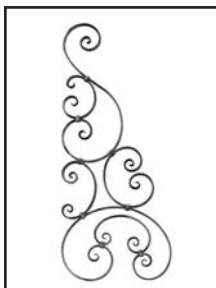
**AMC5412**



**STAIR PANEL SCROLL**

1/2" square bar.  
 15 1/8" wide x 35 7/16" high.  
 Ring is 4" I.D. 5" O.D.

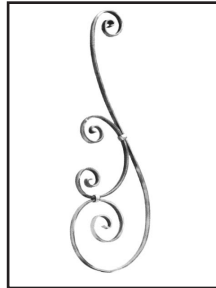
**AMC4792**



**SCROLL**

5/16" x 5/8"  
 13 3/8" wide x 51 3/16" high.  
 Large scrolls are great for gate tops.

**AMC12811**



**SCROLL**

5/16" x 5/8"  
 13 3/8" wide x 32 5/8" high.  
 Large scrolls are great for gate tops.

**AMC12813**



**SCROLL**

1/2" square bar.  
 9 7/16" wide x 17 1/8" high.  
 Weight 4.1 lbs.

**AMC10463**



**SCROLL**

1/2" square bar.  
 7 9/32" wide x 12 5/8" high.

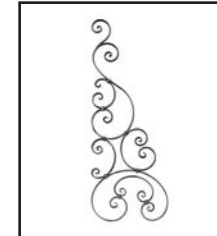
**AMC10464**



**SCROLL**

1/2" square bar.  
 7 1/16" wide x 17 1/2" high.

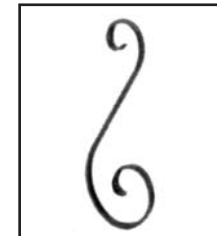
**AMC10465**



**STEEL SCROLL**

5/16" x 5/8"  
 13 3/8" wide x 51 3/16" high.  
 These large scrolls are great for gate tops.

**AMC12812**



**STEEL SCROLL**

1/2" x 1/4" flat.  
 4 5/16" wide x 10 5/8" high.  
 Weight .75 lbs.

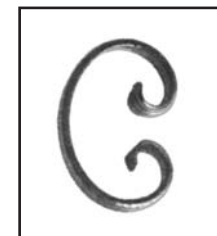
**AMC80A1**



**STEEL SCROLL**

1/2" x 1/4" flat.  
 2 3/8" wide x 4 5/16" high.  
 Weight .3 lbs.  
 Hammer matches AMC80A1 (above).

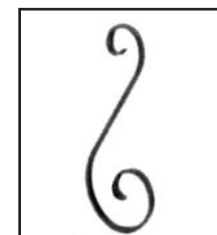
**AMC80A3**



**STEEL SCROLL**

1/2" x 1/4" flat.  
 2 3/4" wide x 4 1/8" high.

**AMC80A9**

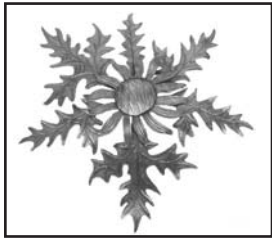


**SCROLL**

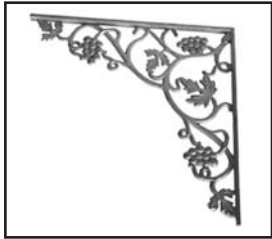
1/2" x 1/4" flat.  
 2 9/16" wide x 5 7/8" high.  
 Weight .75 lbs.

**AMC80A11**

# FENCE HARDWARE - SCROLLS - FLOWERS - LEAVES - BASKETS



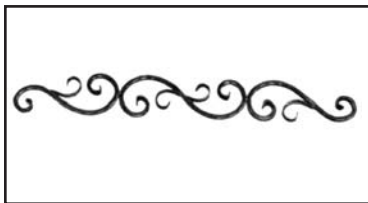
**FORGED FLOWER PANEL**  
 17 5/16"  
 Weight 3.8 lbs.  
**AMC6962**



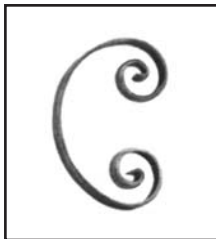
**CAST IRON PANEL**  
 17 3/4" x 17 3/4"  
**FENC110AF**



**STEEL SCROLL**  
 9/16" round.  
 6 1/2" wide x 8 7/8" high.  
 Weight 1.6 lbs.  
**AMC6348**



**SCROLL**  
 1/2" square bar.  
 35 7/16" w x 4 5/16" h.  
**AMC5111**



**STEEL SCROLL**  
 1/4" x 3/4".  
 5 15/16" wide x 8 7/8" high.  
**AMC847**



**STAMPED FLOWER**  
 1/8" x 2 9/16" diameter. With hole.  
 Weight .31 lbs.  
**AMC116A4**



**STAMPED FLOWER**  
 1/8" x 2 9/16" diameter.  
 Weight .31 lbs.  
**AMC6974**



**STAMPED LEAF**  
 3/16" x 2 3/4" x 2 3/8".  
 Weight .15 lbs.  
**AMC1363** Right hand  
**AMC1364** Left hand



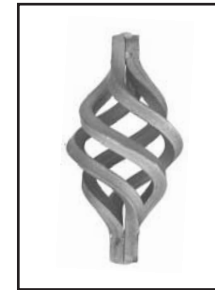
**STAMPED LEAF**  
 3/16" x 1 9/16" x 4 5/16".  
 Weight .15 lbs.  
**AMC1361** Right hand  
**AMC1362** Left hand



**STAMPED FLOWER**  
 1/8" x 3 3/4" diameter. With hole.  
 Weight .37 lbs.  
**AMC116A3**



**BASKET**  
 3/16" material.  
 2 1/8" wide x 5 1/8" high.  
 Weight .4 lbs.  
 9 filament.  
**AMC158B1**



**BASKET**  
 2 3/8" wide x 5 1/8" high.  
 Weight .46 lbs. 4 filament.  
 Fits 1/2" square.  
**AMC1593**  
 3 1/8" wide x 6 1/2" high.  
 4 filament.  
 Fits 3/4" square.  
**AMC1596**



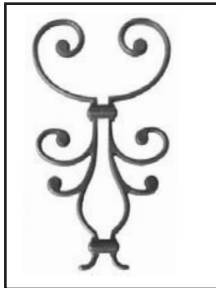
**BASKET**  
 1/4" square.  
 2 3/4" diameter.  
**AMC158B7**



**TWISTED STEEL CHAIN**  
 3/16" thickness.  
 Each link is 19/32" x 2 5/32".  
 Total chain length is 32' 8".  
**AMC156A10**

# FENCE HARDWARE - PICKET CASTING

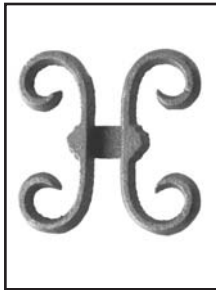
NORTON METALS, INC.  
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 www.nortonmetals.com



**CAST IRON PICKET CASTING**

7 1/2" wide x 13 1/2" high.  
 Fits 1/2" picket.

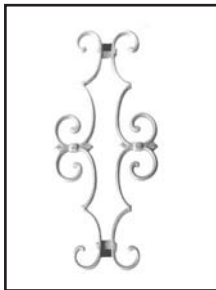
**FENC13**



**CAST IRON PICKET CASTING**

3 3/4" wide x 3 3/4" high.  
 Fits 1/2" picket.

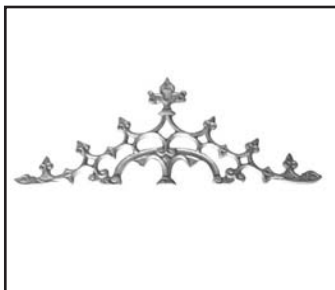
**FENCCE6714**



**ALUMINUM PICKET CASTING**

1/2" x 1/4" flat.  
 8 1/16" wide x 17 1/2" high.  
 Weight 2.7 lbs..

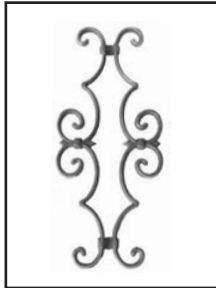
**AMC351**  
 Snap On



**SCALLOPED CRESTING**

Cast iron.  
 31 1/4" wide x 12" high.

**FENC15095**



**CAST IRON - STD. CASTING**

7 1/2" wide x 16 1/2" high.  
 Fits 1/2".

**FENC12**

7 1/2" wide x 16 1/2" high.  
 Fits 3/4".

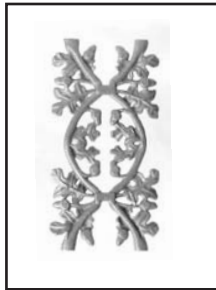
**FENC164IXLF**



**CAST IRON - ROSE CASTING**

7 3/4" wide x 17 1/2" high with roses.  
 Double faced.

**FENC122**



**CAST IRON - OAK CASTING**

3/4" thickness.  
 8 1/4" wide x 13 7/8" high.  
 Aluminum ornamental caster.  
 Double faced.

**FENC121**



**CAST IRON - GRAPE CASTING**

7 1/2" wide x 16 1/2" high with grapes.

**FENC123**

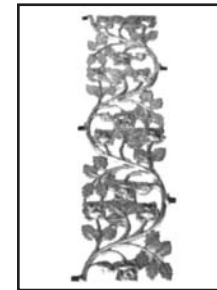


**ALUMINUM - GRAPE CASTING**

7 7/8" wide x 16 1/2" high with grapes.

**FECCE2312 = 1/2**

**FECCE2334 = 3/4**



**ALUMINUM - ROSE CASTING**

8" wide x 31 1/4" high with roses.  
 Double faced.  
 Weight 4.25 lbs.

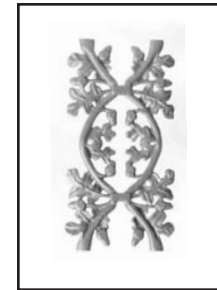
**FENAC709**



**ALUMINUM - ROSE CASTING**

7 1/4" wide x 16 1/4" high with roses.  
 Double faced.  
 Weight 1.5 lbs.

**FENAC22**

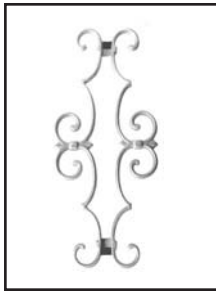


**ALUMINUM - OAK CASTING**

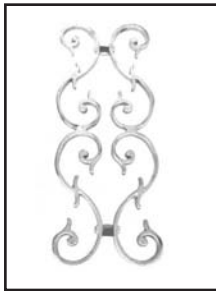
3/4" thickness.  
 8 1/4" wide x 13 7/8" high.  
 Double faced.

**FENAC21**

# FENCE HARDWARE - PICKET CASTING - ROSETTES - HAMMERED BARS



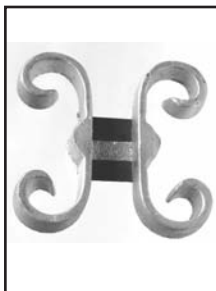
**ALUMINUM - PICKET CASTING**  
 7 3/4" wide x 17 7/8" high.  
 Fits 1/2".  
**FENAC2**  
 7 3/4" wide x 16 7/8" high.  
 Fits 3/4".  
**FENAC234**



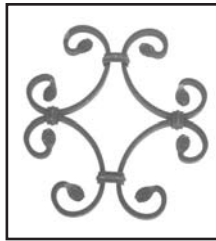
**ALUMINUM - PICKET CASTING**  
 7 1/8" wide x 18 1/4" high.  
 Steel weld tabs.  
 Single faced.  
**FENAC18**



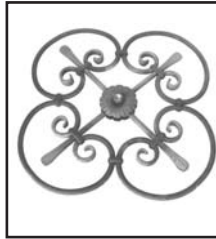
**ALUMINUM - PICKET CASTING**  
 3/4" thick x 3 3/4" wide x 3 3/4" high.  
 Single faced.  
 1/2" Aluminum ornamental casting.  
**FENAC10A**



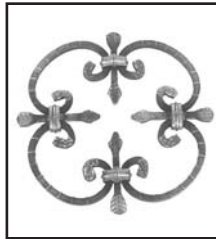
3/4" Aluminum ornamental casting.  
**FENAC10A34**



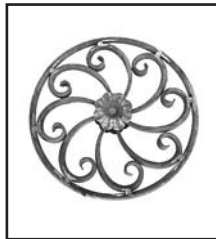
**ROSETTE**  
 1/2" x 1/4".  
 8 11/16" wide x 9 13/16" high.  
 Unbreakable "snap-ons" fit  
 1/2" square bar or tube.  
 Weight 1.7 lbs.  
**AMC361**



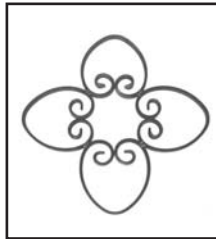
**ROSETTE**  
 9/16" round bar.  
 22 1/4" diameter.  
 Weight 1.7 lbs.  
**AMC4464**



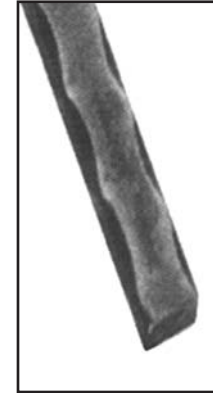
**ROSETTE**  
 5/16" square.  
 9 13/16" diameter.  
 Weight 2.0 lbs.  
**AMC171**



**ROSETTE**  
 1/2" thick.  
 11 1/2" diameter.  
**AMC10131**



**ROSETTE**  
 1/2" square bar.  
 17 1/2" diameter.  
 Weight 6.6 lbs.  
**AMC10102**



**HAMMERED SQUARE BAR 20'**  
**AMC1181** 1/2" bar  
**AMC1183** 5/8" bar  
**AMC1185** 3/4" bar  
**AMC1186** 1" bar



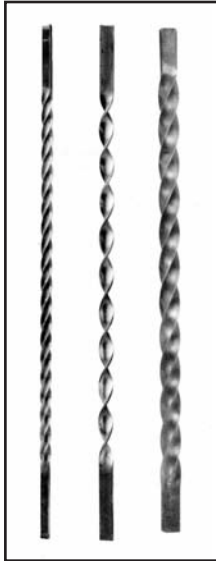
**HAMMERED ROUND BAR**  
 Approximate length 118".  
**AMC6003** 3/8" round bar  
**AMC6004** 1/2" round bar  
**AMC34TB** 3/4" round bar



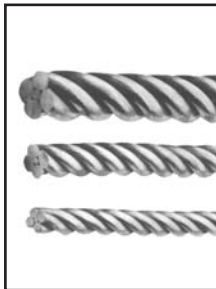
**HAMMERED SQUARE TUBE 20'**  
**AMC137419** 1/2" square  
**AMC118E1** 3/4" square  
**AMC118E9** 1" square  
**AMC118E3** 1 1/4" square  
**AMCHT101** 1 1/2" square  
**AMCHT103** 2" square

# FENCE HARDWARE - TWISTED BAR - HANDRAIL ENDS

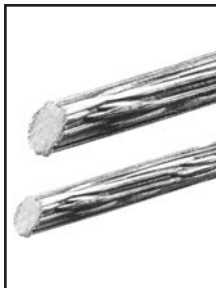
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 www.nortonmetals.com



**TWISTED SQUARE BAR 20'**  
 3/8" steel square bar.  
**AMC1138T**  
 1/2" steel square bar.  
**AMC1112T**  
 3/4" steel square bar.  
**AMC1134240**



**TWISTED ROUND BAR ROPE**  
 Approximate length 106 1/4"  
**AMC1191** 5/8" diameter  
**AMC1192** 3/4" diameter  
**AMC1193** 1 3/16" diameter



**VINEYARD EFFECT ROUND BAR**  
 Approximate length 120"  
**AMC59811** 5/16" diameter  
**AMC59813** 1/2" diameter  
**AMC59816** 11/16" diameter



**HANDRAIL END**  
 Fits standard handrail.  
**FENCI5**  
 Fits extra-wide handrail.  
**FENCI5112**



**HANDRAIL END**  
 To be used with AMC114A13 (next page)  
 Weight 5.0 lbs.  
**AMC114B13**



**HANDRAIL END**  
 Fits standard handrail.  
**FENCI6**  
 Fits extra-wide handrail.  
**FENCI6112**



**HANDRAIL END**  
 To be used with AMC1145 (next page).  
 Weight 5.0 lbs.  
**AMC11610**



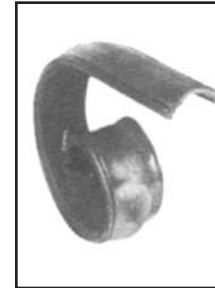
**CHANNEL (FOR HANDRAIL)**  
 Fits standard rail.  
**FENCI7MCR** Right hand  
**FENCI7MCL** Left hand  
 Fits extra-wide rail.  
**FENCI7112MCR** Right hand  
**FENCI7112MCL** Left hand



**CAST IRON LATERALS (FOR HANDRAIL)**  
 Fits standard rail.  
**FENCI7MLR** Right hand  
**FENCI7MLL** Left hand  
 Fits extra-wide rail.  
**FENCI7112MLR** Right hand  
**FENCI7112MLL** Left hand

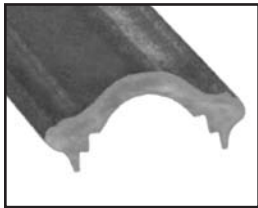


**CAST IRON VOLUTE**  
 Fits standard handrail.  
**FENCI4X**  
 Fits extra-wide handrail.  
**FENCI4X112**



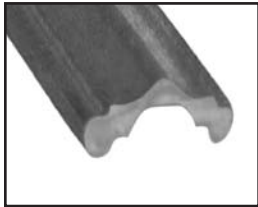
**HANDRAIL ENDS**  
 To be used with AMC MCR112 (next page).  
**AMC81212**

# FENCE HARDWARE - HANDRAILS - BALUSTERS



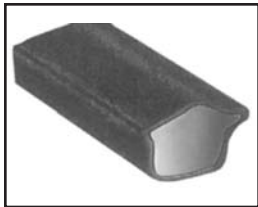
**WIDE STEEL HANDRAIL**  
Wide series for 1 1/2" channel.  
Flat or tube. 20' length.  
Weight 42.0 lbs.

**AMCMCR112**



**STANDARD STEEL HANDRAIL**  
Fits 1" channel or tubing.  
20' length.  
Weight 25.4 lbs.

**AMCMCR**

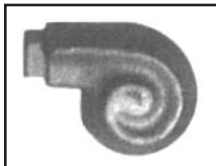


**STEEL TUBULAR HANDRAIL**  
Conforms in shape to convention  
with 1" channel.  
20' length.

**FENMCRMTH1420**



**FENCI902**  
Cast Iron straight fitting.



**FENCI900**  
Cast Iron volute.



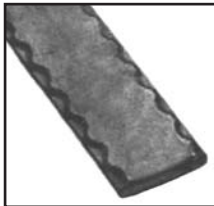
**HANDRAIL**  
1 7/16" x 5/8"  
Approximate length 120"  
Weight 29.0 lbs

**AMC114A3**



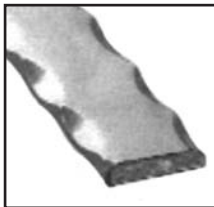
**HANDRAIL**  
5/16" x 1 9/16" flat.  
118 1/8" length.  
Weight 16.5 lbs

**AMC1145**



**HANDRAIL**  
5/16" x 1 9/16" flat.  
Approximate length 120"  
Weight 16.5 lbs

**AMC1148**



**HANDRAIL**  
5/16" x 1 3/16" flat.  
Approximate length 120"  
Weight 12.8 lbs

**AMC1149**



**WALL BRACKETS**  
2 3/4" round. 7/16" hole.  
2 15/16" from wall to rail center.  
For round or square handrail.

**FENSC35B**



Cast iron wall mount bracket.  
2 1/2" wide x 2 3/4" high.  
Extends 2 1/2" from wall.  
For square tubing.

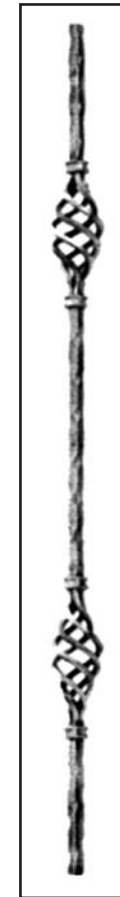
**FENCI3A**



**AMC481**  
1/2" Square  
2 3/16" wide  
35 7/16" high  
Weight 2.5 lbs.



**AMC482**  
1/2" Square  
2 3/16" wide  
35 7/16" high  
Weight 2.4 lbs.



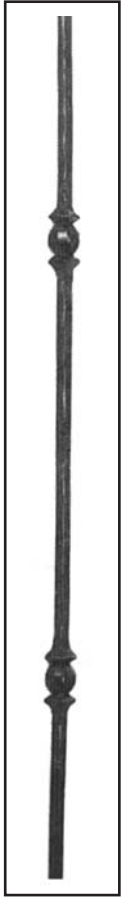
**AMC483**  
1/2" Square  
2 3/16" wide  
35 7/16" high  
Weight 2.6 lbs.  
Hammered



**AMC484**  
1/2" Square  
2 3/16" wide  
35 7/16" high  
Weight 2.4 lbs.  
Hammered

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**AMC1051**  
 9/16" Square  
 35 7/16" high  
 Weight 3.3 lbs.  
 Hammered



**AMC1052**  
 9/16" Square  
 35 7/16" high  
 Weight 0.00 lbs.  
 Hammered



**AMC981**  
 1 3/4" Square  
 35 7/16" high  
 Weight 4.1 lbs.



**AMC4991**  
 1/2" Round  
 35 7/16" high  
 Weight 3.0 lbs.



**AMC1482**  
 1 3/16" dia.  
 35 7/16" high  
 Weight 2.1 lbs.



**AMC1491**  
 1 3/16" dia.  
 35 7/16" high  
 Weight 2.1 lbs.



**AMC7972**  
 1 3/16" dia.  
 47" high  
 Weight 2.1 lbs.  
 Matches 499/1



**AMC12312**  
 1 3/16" dia.  
 39 3/8" high  
 Weight 2.21 lbs.



**AMC10912**  
 1/2" square  
 39 3/8" high  
 Weight 3.7 lbs.



**AMC10911**  
 1/2" square  
 39 3/8" high  
 Weight 3.1 lbs.



**AMC10903**  
 1/2" square  
 39 3/8" high  
 Weight 3.1 lbs.



**AMC10904**  
 1/2" square  
 39 3/8" high  
 Weight 3.62 lbs.

# FENCE HARDWARE - BALUSTERS (CONTINUED)



**AMC6411**  
1" Square

47 1/4" high  
Weight 13 lbs.



**AMC6412**  
9/16" Square

35 7/16" high  
Weight 3.6 lbs.



**AMC6413**  
9/16" Square

35 7/16" high  
Weight 3.3 lbs.



**AMC11844**  
1/2" Round

39 3/8" high  
Weight 2.2 lbs.



**AMC70D5**  
9/16" square

35 7/16" high  
Weight 3.4 lbs.



**AMC4412**  
1 9/16" x 5/16"

39 3/8" high  
Weight 7.7 lbs.



**AMC621**  
3/4" x 1/4" flat

9 1/4" wide  
28 3/8" high  
Weight 5.2 lbs.



**AMC52A3**  
1/2" square

6 11/16" wide  
35 7/16" high  
Weight 3.5 lbs.



**AMC1132**  
1 3/16" square

2 3/8" wide  
43 5/16" high  
Weight 17.6 lbs.



**AMC64F1**  
1" square

47 1/4" high  
Weight 13.0 lbs.  
Hammered



**AMC4711**  
9/16" square

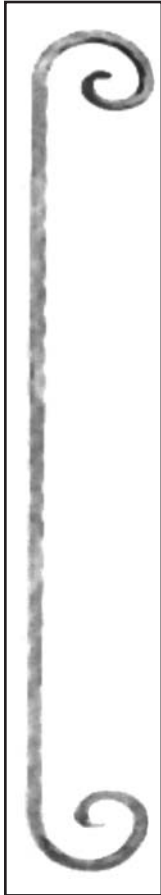
8 1/2" deep  
35 1/2" high  
Weight 3.3 lbs.  
Hammered

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**AMC70D1**  
 9/16" square  
 35 7/16" high  
 Weight 3.7 lbs.



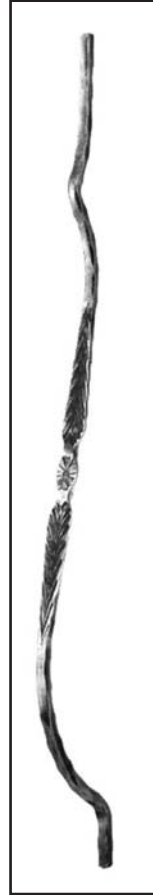
**AMC4791**  
 1/2" square  
 4 5/16" wide  
 35 7/16" high  
 Weight 3.1 lbs.  
 Hammered



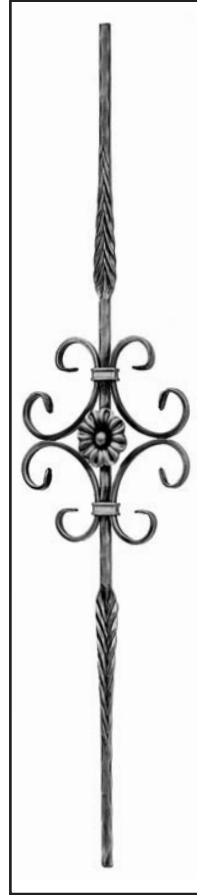
**AMC1125**  
 1" square  
 47 1/4" high  
 Weight 3.1 lbs.  
 Hand forged



**AMC1127**  
 1" square  
 47 1/4" high  
 Weight 3.62 lbs.  
 Hand forged



**AMC64H10**  
 9/16" square  
 1 3/16" wide  
 35 7/16" high  
 Weight 3.1 lbs.



**AMC5616**  
 9/16" square  
 8 1/4" wide  
 35 7/16" high  
 Weight 4.2 lbs.



**AMC64F5**  
 9/16" square  
 35 7/16" high  
 Weight 3.0 lbs.  
 Hammered/Stamped



**AMC64F3**  
 9/16" square  
 35 7/16" high  
 Weight 3.0 lbs.  
 Hammered/Stamped





