



NORTON METALS

a division of JMS Russel Metals Corp.

PRODUCT CATALOG

Volume 16
Revised 01/25

Steel Sales & Service for Over 70 Years



NORTON METALS
a division of JMS Russel Metals Corp.

• 817-232-0404 • 800-669-7883 • Fax 817-234-0101



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

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"One-stop" supplier of quality steel products. • One of the area's **largest and most diverse inventories.**

• In business for **over 70 years** – same location for over 50 years.

Tubing & Pipe

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

Structural Steel

Angles
Channels
Beams

Stainless Steel

Sheet & Plate
SS Gauer Bar
SS Rd Bar
Pipe & Tube
Angle

Sheets & Plate

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

Metal Building Products

Panels (Roof & Siding)
Trim Screws &
Fasteners Purlins

Fence Products

Tubing & Pipe
Pickets
Fence Hardware

Expanded Metal & Grating

Expanded Metal Grating
Expanded Metal Grip
Strut
Bar Grating

Bars

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

Aluminum

Sheet & Plate
Round & Flat Bar
Pipe & Tube
Channel

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Please call us when you need steel.

WE APPRECIATE THE OPPORTUNITY TO SERVE YOU.

Open Monday – Friday 8:00 am to 5:00 pm

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Delivery Available

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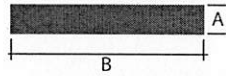
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**STEEL PRODUCTS,
ALUMINUM, STAINLESS
STEEL AND METAL
BUILDING COMPONENTS**

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

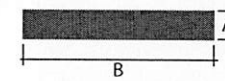
FLAT BARS (CONTINUED)

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

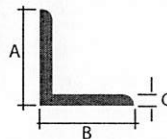
ASTM A570-33



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

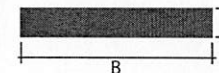
ASTM A36



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	N/A
1"	1"	3/16"	1.16	23.20	N/A
1"	1"	1/4"	1.49	29.80	N/A
1 1/4"	1 1/4"	1/8"	1.01	20.20	N/A
1 1/4"	1 1/4"	3/16"	1.48	29.60	N/A
1 1/4"	1 1/4"	1/4"	1.92	38.40	N/A
1 1/2"	1 1/2"	1/8"	1.23	24.60	N/A
1 1/2"	1 1/2"	3/16"	1.80	36.00	N/A
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	N/A
1 3/4"	1 3/4"	3/16"	2.12	42.40	N/A
1 3/4"	1 3/4"	1/4"	2.77	55.40	N/A
2"	1 1/2"	1/8"	1.44	28.80	N/A
2"	1 1/2"	3/16"	2.12	42.40	N/A
2"	1 1/2"	1/4"	2.77	55.40	N/A
2"	2"	1/8"	1.65	33.00	N/A
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

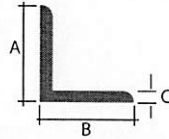
ASTM A36



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"	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
8"	4"	1/2"	19.6	392.00	784.00



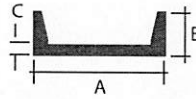
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STRUCTURAL CHANNEL

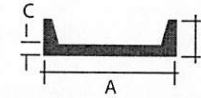
ASTM A36



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/MISC

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
12"	2.125"	.250"	14.300	286.00	572.00

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 A615

GRADES IN STOCK		DIAMETER	WEIGHT PER FOOT	WEIGHT PER 20'
GRADE 60	BAR #			
Y	#3	3/8"	0.376	7.52
Y	#4	1/2"	0.668	13.36
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



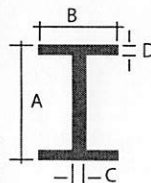
ASTM A36

DESCRIPTION 'A'	WEIGHT PER FOOT	WEIGHT PER 20'
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

A992/A572-50 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)

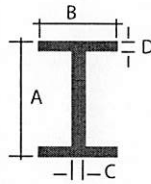
A992/A572-50 AVAILABLE IN 20', 25', 30', 40', 50', 60' LENGTHS

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)

A992/A572-50 AVAILABLE IN 20', 25', 30', 40', 50', 60' LENGTHS

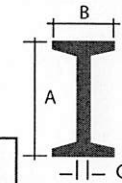
SIZE DEPTH & FLANGE	WEIGHT PER FOOT	DEPTH IN INCHES	FLANGE WIDTH INCHES	WEB THICKNESS INCHES	FLANGE THICKNESS INCHES
		'A'	'B'	'C'	'D'
14" x 10"	82	14.310	10.130	0.510	.855
16" x 5 1/2"	26	15.690	5.500	0.250	.345
16" x 5 1/2"	31	15.880	5.255	0.275	.440
16" x 7"	36	15.860	6.985	0.295	.430
16" x 7"	40	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)

A992/A572-50

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



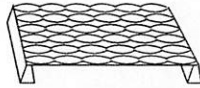
GRIP STRUT

PRE-GALVANIZED

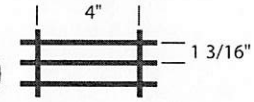
DIAMOND ACROSS WEB	WEB WIDTH 'A'	LEG HEIGHT 'B'	THICKNESS 'C'	WEIGHT PER FOOT	LENGTH
2	4 3/4"	1 1/2"	14GA	2.30	120"
3	7"	1 1/2"	14GA	3.00	120"
4	9 1/2"	1 1/2"	14GA	3.60	144"
4	9 1/2"	1 1/2"	14GA	3.60	120"
4	9 1/2"	1 1/2"	14GA	3.60	144"
4	9 1/2"	1 1/2"	14GA	3.60	120"
5	11 3/4"	1 1/2"	14GA	4.11	144"
5	11 3/4"	2"	14GA	4.40	120"
8	18 3/4"	1 1/2"	14GA	6.10	144"
8	18 3/4"	1 1/2"	14GA	6.10	120"

P&O MATERIALS

DIAMOND ACROSS WEB	WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS 'C'	WEIGHT PER FOOT	LENGTH
4	9 1/2"	1 1/2"	14GA	3.60	144"
4	9 1/2"	1 1/2"	14GA	3.60	120"
4	9 1/2"	2"	14GA	4.40	144"
4	9 1/2"	2"	14GA	4.40	120"
5	11 3/4"	1 1/2"	14GA	4.11	120/144"
5	11 3/4"	2"	14GA	4.40	144"
8	18 3/4"	2"	14GA	6.10	144"
8	18 3/4"	2"	14GA	6.10	120"
12	24"	2"	14GA	8.09	144"



BAR GRATING (GALV. & BARE)



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	240	300.00
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	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
1/4 x 1"	1 3/16 x 4"	9.20	36	240	552.00

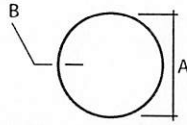
SOME 24' LENGTHS AVAILABLE

LADDER RUNGS 16730

	WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS 'C'	WEIGHT PER FOOT	LENGTH
LADDER RUNGS	1 5/8"	1 5/8"	14GA	0.99	60 3/4"

PIPE

ASTM A53 / A500 * AVAILABLE IN BARE A500

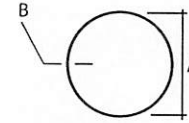


INSIDE DIMENSION 'A'	OD	WALL THICKNESS DECIMAL 'B'	SCH.	WEIGHT PER FOOT	WEIGHT PER 21'	WEIGHT PER 42'
1/4"	0.540	0.0800	40	0.420	8.82	N/A
3/8"	0.675	0.0910	40	0.570	11.97	N/A
1/2" *	0.840	0.1090	40	0.850	17.85	N/A
3/4" *	1.050	0.1130	40	1.130	23.73	N/A
3/4"	1.050	0.1540	80	1.470	30.87	N/A
1" *	1.315	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	STD	49.560	1040.76	2081.52

Some sizes available in schedule 10

FENCE PIPE

ASTM 513

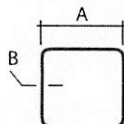


INSIDE DIMENSION 'A'	OD	WALL THICKNESS DECIMAL 'B'	SCH.	WEIGHT PER FOOT	WEIGHT PER 21'	WEIGHT PER 32'	WEIGHT PER 42'
6"	6 5/8"	3/16	—	12.925	271.43	—	542.86

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"	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
	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
	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	N/A
	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	N/A
R	3"	11	0.120	4.700	94.00	112.80	188.00
	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

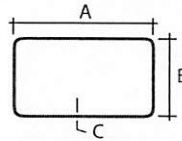
R = RED PRIMER

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	N/A
R	4"	11	0.120	6.460	129.20	155.04	258.40
	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

RECTANGULAR TUBING

ASTM A500

R = RED PRIMER



PRIMED	DIMENSION 'A' 'B'		THICKNESS GAUGE 'C'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER 20' 24' 40'		
	1"	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
	4"	2"	3/16"	0.188	6.870	137.40	164.88	274.80
	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

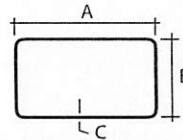
R = RED PRIMER

PRIMED	DIMENSION 'A' 'B'		THICKNESS GAUGE 'C'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER 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
	6"	2"	3/16"	0.188	9.420	188.40	226.08	376.80
	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

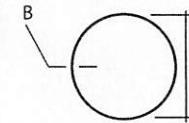
R = RED PRIMER



PRIMED	DIMENSION 'A'	DIMENSION 'B'	THICKNESS GAUGE 'C'	THICKNESS DECIMAL	WEIGHT PER FOOT	WEIGHT PER		
						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

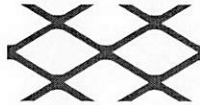
ROUND TUBING

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"	11	0.112	1.1280	22.56	27.07
1 1/4"	14	0.083	1.0340	20.68	24.81
1 1/4"	11	0.120	1.4400	28.80	34.56
1 1/2"	14	0.083	1.2600	25.20	30.24
1 1/2"	11	0.125	1.7690	35.38	44.06
1.66"	14	0.083	1.3980	N/A	33.55
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"	14	0.083	2.0320	40.64	48.77
2 3/8"	11	0.120	2.9000	—	69.60
2 7/8"	14	0.083	2.4750	49.50	59.40
2 7/8"	12	0.110	3.0900	—	74.60

STANDARD EXPANDED METAL



STYLE	WEIGHT PER SQ. FT.	OPENING SHORT WAY	OPENING LONG WAY	STRAND THICKNESS	SIZE WIDTH	OVERALL THICKNESS	SHEET SIZE
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
1/2 #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	.250	1.000	.050	.103	.050	48 x 96
1/2 #16	.860	.250	1.000	.050	.103	.050	48 x 120
1/2 #16	.860	.250	1.000	.050	.103	.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

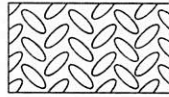
U-Edge

(FOR FLAT EX METAL 12 FT)

#25161

FLOOR PLATE (DIAMOND PLATE)

ASTM 786



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 786

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

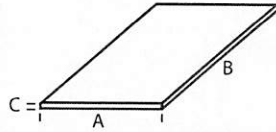
FLOOR PLATE (CONTINUED) (DIAMOND PLATE)

ASTM 786

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
1/2"	21.45	48"	96"	686.41
1/2"	21.45	48"	120"	858.01

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

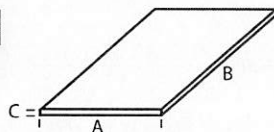
HOT ROLLED SHEET (CONTINUED)

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

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



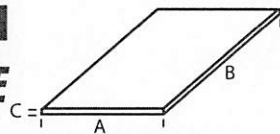
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MILL ROLLED PLATE

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	96"	240"	2041.60
3/8"	15.32	96"	240"	2451.20
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
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



MILL ROLLED PLATE (CONTINUED)

ASTM A36

THICKNESS 'C'	WEIGHT PER SQ. FOOT	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
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

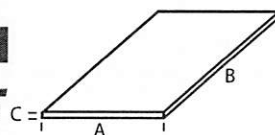
MILL ROLLED PLATE

ASTM A572, GR50

THICKNESS 'C'	WEIGHT PER SQ. FOOT	WIDTH 'A'	LENGTH 'B'	WEIGHT PER SHEET
3/8"	15.32	96"	240"	2451.20
1/2"	20.42	96"	240"	3267.20
5/8"	25.52	96"	240"	4083.20
3/4"	30.63	96"	240"	4900.80
1"	40.84	96"	240"	6534.40
1 1/4"	51.05	96"	240"	8168.00

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"	
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	570-33
3/16"	Y	Y	Y	A36
1/4"	Y	Y	Y	A36
5/16"	Y	Y	Y	A36
3/8"	Y	Y	Y	A36
1/2"	Y	Y	Y	A36

FLOOR PLATE COILS

COIL SHEET THICKNESS GRADE	WIDTHS AVAILABLE			ASTM
	48"	60"	72"	
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

ALUMINUM ROUND BAR**Grade 6061 - T6511**

DIAMETER	WEIGHT PER FOOT	12' LENGTHS
5/32	0.0226	Y
3/16	0.0324	Y
1/4	0.0577	Y
5/16	0.0901	Y
3/8	0.1297	Y
1/2	0.2306	Y
9/16	0.2919	Y
5/8	0.3604	Y
3/4	0.519	Y
7/8	0.7064	Y
15/16	0.811	Y
1	0.9227	Y
1 1/16	1.042	Y
1 1/8	1.168	Y
1 1/4	1.442	Y
1 5/16	1.59	Y
1 3/8	1.745	Y
1 1/2	2.076	Y
1 5/8	2.436	Y
1 3/4	2.826	Y
1 7/8	3.244	Y
2	3.691	Y
2 1/8	4.166	Y
2 1/4	4.671	Y
2 3/8	5.205	Y

ALUMINUM ROUND BAR**Grade 6061 - T6511**

DIAMETER	WEIGHT PER FOOT	12' LENGTHS
2 1/2	5.767	Y
2 5/8	6.358	Y
2 3/4	6.978	Y
2 7/8	7.634	Y
3	8.304	Y
3 1/8	9.011	Y
3 1/4	9.746	Y
3 3/8	10.52	Y
3 1/2	11.3	Y
3 5/8	12.14	Y
3 3/4	12.98	Y
4	14.76	Y
4 1/8	15.72	Y
4 1/4	16.67	Y
4 1/2	18.68	Y
4 5/8	19.74	Y
4 3/4	20.82	Y
5	23.07	Y
5 1/8	24.26	Y
5 1/4	25.43	Y
5 1/2	28	Y
5 3/4	30.51	Y
6	33.22	Y
6 1/8	34.65	Y
6 1/4	36.04	Y

ALUMINUM ROUND BAR**Grade 6061 - T6511**

DIAMETER	WEIGHT PER FOOT	12' LENGTHS
6 1/2	38.98	Y
6 3/4	42.04	Y
7	45.21	Y
7 1/2	51.9	Y
8	59.05	Y
8 1/8	60.97	Y
8 1/2	66.66	Y

Also available in 6063

ALUMINUM CHANNEL

GRADE 6061 - T6

DEPTH IN INCH.	WEB THICK. IN INCH.	FLANGE WIDTH IN INCH.	FLANG THICK. IN INCH.	APPROX. WT PER FT. IN LBS.
2	0.13	1	0.13	0.577
2	0.17	1.25	0.26	1.07
3	0.13	1.5	0.2	1.14
3	0.17	1.75	0.26	1.6
4	0.15	2	0.23	1.74
4	0.19	2.25	0.29	2.33
5	0.15	2.25	0.26	2.21
5	0.19	2.75	0.32	3.09
6	0.17	2.5	0.29	2.83
6	0.21	3.25	0.35	4.03
7	0.17	2.75	0.29	3.21
7	0.21	3.5	0.38	4.72
8	0.19	3	0.35	4.15
8	0.25	3.75	0.41	5.79
9	0.23	3.25	0.35	4.98
10	0.25	3.5	0.41	6.14
10	0.31	4.25	0.5	8.36
12	0.29	4	0.47	8.27
12	0.35	5	0.62	11.82

Also available in 6063

ALUMINUM PIPE

GRADE 6061 - T6

NOM. PIPE SIZE IN INCHES	SCH	APPROX. WT. PER FT. IN LBS.	O.D. IN INCHES	I.D. IN INCHES	AVG. WALL THICKNESS IN INCHES
1/8	40	0.085	0.405	0.269	0.068
1/4	40	0.147	0.54	0.364	0.088
1/2	40	0.293	0.84	0.622	0.109
3/4	40	0.391	1.05	0.824	0.113
1	40	0.581	1.315	1.049	0.133
1	80	0.7513	1.315	0.957	0.179
1 1/4	40	0.786	1.66	1.38	0.14
1 1/4	80	1.037	1.66	1.278	0.191
1 1/2	40	0.94	1.9	1.61	0.145
1 1/2	80	1.256	1.9	1.5	0.2
2	40	1.264	2.375	2.067	0.154
2	80	1.737	2.375	1.939	0.218
2 1/2	40	2.004	2.875	2.469	0.203
2 1/2	80	2.65	2.875	2.323	0.276
3	40	2.621	3.5	3.068	0.216
3	80	3.547	3.5	2.9	0.3
3 1/2	40	3.151	4	3.548	0.226
4	40	3.733	4.5	4.026	0.237
4	80	5.183	4.5	3.826	0.337
5	40	5.057	5.563	5.047	0.258
6	40	6.654	6.625	6.065	0.28
8	40	9.878	8.625	7.981	0.322
10	40	14	10.75	10.02	0.365
12	40	18.52	12.75	11.938	0.406

Also available in 6063



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ALUMINUM ANGLE

GRADE 6061 - T6

DIMENSION 'A'	DIMENSION 'B'	THICKNESS	APPROX. WT. PER FT. IN LBS.
3/4	3/4	1/8	0.201
1	1	1/8	0.275
1	1	3/16	0.4
1	1	1/4	0.514
1 1/4	1 1/4	1/8	0.343
1 1/4	1 1/4	3/16	0.51
1 1/4	1 1/4	1/4	0.656
1 1/2	1 1/4	1/8	0.387
1 1/2	1 1/4	3/16	0.566
1 1/2	1 1/2	1/8	0.423
1 1/2	1 1/2	3/16	0.619
1 1/2	1 1/2	1/4	0.809
1 3/4	1 1/4	1/8	0.421
1 3/4	1 1/4	3/16	0.621
1 3/4	1 3/4	1/8	0.497
1 3/4	1 3/4	3/16	0.731
1 3/4	1 3/4	1/4	0.956
2	1	1/8	0.431
2	1 1/2	1/8	0.496
2	1 1/2	3/16	0.731
2	1 1/2	1/4	0.956
2	2	1/8	0.577
2	2	3/16	0.85
2	2	1/4	1.11
2	2	5/16	1.364
2	2	3/8	1.606
2 1/2	1 1/2	3/16	0.805
2 1/2	2	3/16	0.961
2 1/2	2	1/4	1.257

ALUMINUM ANGLE

GRADE 6061 - T6

DIMENSION 'A'	DIMENSION 'B'	THICKNESS	APPROX. WT. PER FT. IN LBS.
2 1/2	2 1/2	3/16	1.07
2 1/2	2 1/2	1/4	1.404
2 1/2	2 1/2	5/16	1.729
2 1/2	2 1/2	3/8	2.047
3	1	1/8	0.581
3	2	3/16	1.071
3	2	1/4	1.403
3	2	3/8	2.046
3	2 1/2	1/4	1.537
3	3	3/16	1.275
3	3	1/4	1.684
3	3	5/16	2.082
3	3	3/8	2.474
3	3	1/2	3.227
3 1/2	2 1/2	1/4	1.684
3 1/2	3 1/2	1/4	1.989
3 1/2	3 1/2	3/8	2.926
3 1/2	3 1/2	1/2	3.826
4	3	1/4	1.988
4	3	3/8	2.926
4	4	1/4	2.283
4	4	3/8	3.366
4	4	1/2	4.414
5	3	1/4	2.292
5	3	3/8	3.349
5	5	3/8	4.237
6	4	1/2	5.578
6	4	3/8	5.119
6	6	1/2	6.754
8	8	1/2	9.141

Also available in 6063

ALUMINUM SHEET/ PLATE

Grade 5052- H32

Thickness	Wt/ SQ. Ft	Width 'A'	Width 'B'	Wt/ Sheet
0.063	0.887	48	120	35.482
0.090	1.282	48	120	51.264
0.125	1.763	48	120	70.502
0.125	1.763	60	120	88.128
0.190	2.710	48	120	108.403
0.190	2.710	60	120	135.504
0.250	3.521	48	96	112.666
0.250	3.521	48	120	140.832
0.250	3.521	60	120	175.040

Aluminum Tread Plate

Grade 3003- H22

Thickness	Wt/ SQ. Ft	Width 'A'	Width 'B'	Wt/ Sheet
0.063	1.010	48	96	32.36
0.063	1.010	48	120	40.40
0.125	1.925	48	96	61.60
0.125	1.925	48	120	77.00
0.125	1.925	48	144	92.40
0.125	1.925	60	96	77.00

***Also available in 6063"**



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ALUMINUM FLAT BAR

GRADE 6061-T6511

THICKNES S	DIMENSION 'A'	APPROX. WT. PER FT. IN LBS.	Lengths 12'
1/8	1	0.147	Y
1/8	1 1/2	0.22	Y
1/8	2	0.294	Y
1/8	3	0.456	Y
1/8	4	0.608	Y
3/16	1 1/2	0.331	Y
3/16	2 1/2	0.553	Y
3/16	3	0.663	Y
1/4	1	0.294	Y
1/4	2	0.587	Y
1/4	3	0.881	Y
1/4	4	1.175	Y
3/8	1	0.441	Y
3/8	2	0.881	Y
3/8	3	1.322	Y
3/8	4	1.762	Y

ALUMINUM SQUARE TUBE

GRADE 6063-T52

DIMENSIO N 'A'	THICKNES S	APPROX. WT. PER FT. IN LBS.	Lengths 24'
1 SQ	1/8	0.512	Y
1 1/4 SQ	1/8	0.675	Y
1 1/2 SQ	1/8	0.825	Y
2 SQ	1/8	1.126	Y
2 SQ	1/4	2.1	Y
2 1/2 SQ	1/8	1.426	Y
3 SQ	1/8	1.725	Y
3 SQ	1/4	3.3	Y
4 SQ	1/8	2.326	Y
4 SQ	3/16	3.4	Y
4 SQ	1/4	4.5	Y
4 1/2 SQ	3/16	3.892	Y
5 SQ	1/8	2.926	Y
5 SQ	3/16	4.342	Y
6 SQ	1/8	3.53	Y
6 SQ	3/16	5.24	Y
6 SQ	1/4	6.76	Y

Also available in 6063

SS GAUER BAR

Grade 304L

Thickness	Width	Weight Per Foot	Length 12'
1/8	1	0.438	Y
1/8	1 1/2	0.656	Y
1/8	2	0.875	Y
1/8	3	1.313	Y
1/8	4	2.000	Y
1/8	6	2.625	Y
3/16	1	0.715	Y
3/16	1 1/2	1.072	Y
3/16	2	1.430	Y
3/16	3	2.145	Y
3/16	4	2.860	Y
3/16	6	4.290	Y
1/4	1	0.930	Y
1/4	1 1/2	1.395	Y
1/4	2	1.860	Y
1/4	3	2.791	Y
1/4	4	3.721	Y
1/4	6	5.581	Y
3/8	1	1.375	Y
3/8	1 1/2	2.062	Y
3/8	2	2.749	Y
3/8	3	4.124	Y
3/8	4	5.499	Y
3/8	6	8.248	Y
1/2	1	1.805	Y
1/2	1 1/2	2.708	Y
1/2	2	3.611	Y
1/2	3	5.416	Y
1/2	4	7.211	Y
1/2	6	10.832	Y

SS ROUND BAR

Grade 304L

Diameter 'A'	Weight Per Foot	Length 12'
1/4	0.167	Y
3/8	0.376	Y
1/2	0.668	Y
5/8	1.042	Y
3/4	1.502	Y
1	2.670	Y
1 1/4	4.172	Y
1 1/2	6.008	Y

Also available in 316L


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METAL BUILDING SHEETS

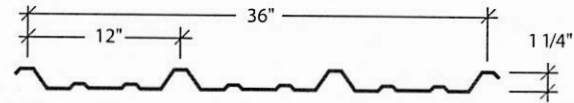
R PANEL

26 gauge material, 36" wide sheet coverage.

Available in stock lengths to 6' to 20' (2' increments).

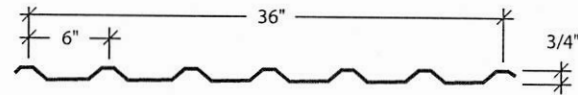
STOCK COLORS: White, Light Stone, Galvalume.

Other colors and lengths available upon request.



U PANEL

26 gauge material, 36" wide sheet coverage.

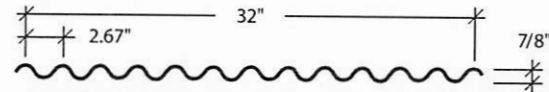


SPECIAL ORDER

C PANEL

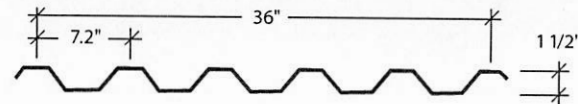
26 gauge material, 32" wide sheet coverage.

STOCK COLORS: White, Galvalume.



HR 36 PANEL

26 gauge material, 36" wide sheet coverage.



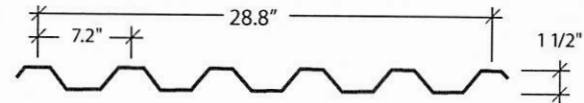
SPECIAL ORDER

HR 288 PANEL

26 gauge material, 28.8" wide sheet coverage.

28.8" coverage panels are available in limited colors.

SPECIAL ORDER

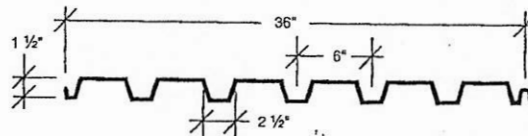


B-DECK

22 gauge material, 36" wide sheet coverage.

STOCK LENGTH: 25' 2"

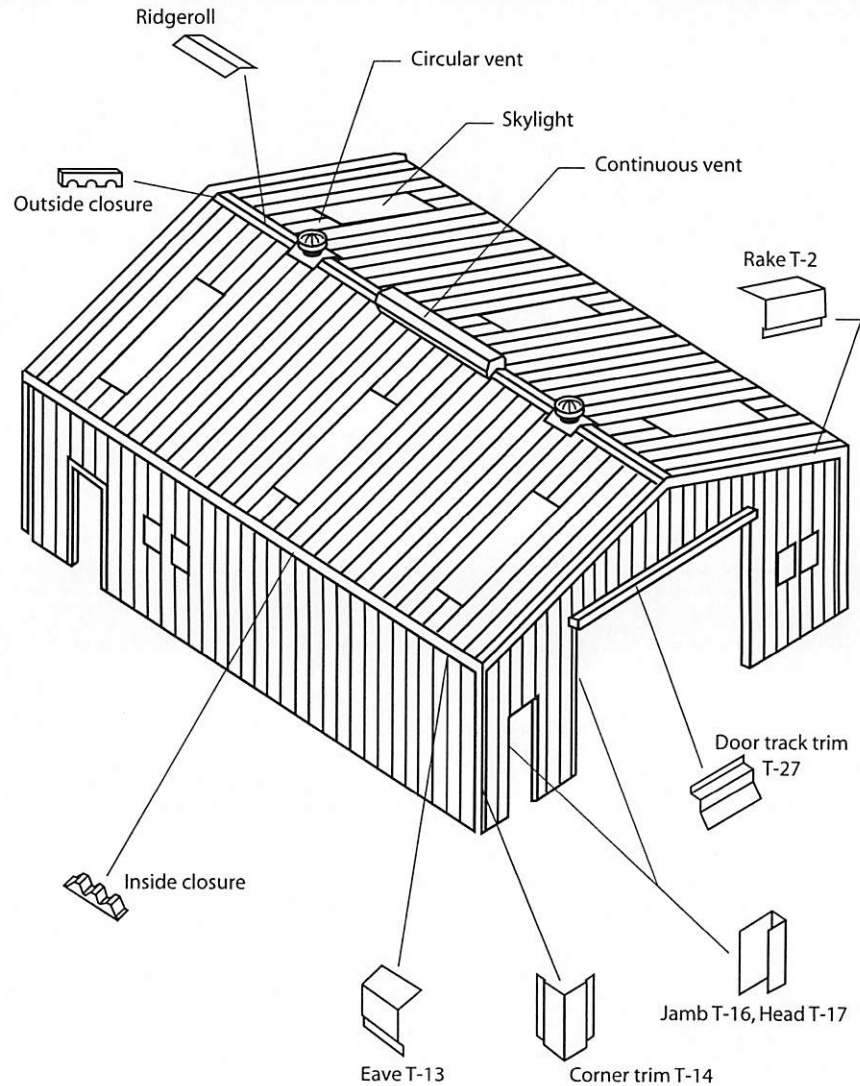
STOCK COLORS: Galvalume.



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 Box
T9	10' 2"	Downspout w/Kickout
T10	10' 2"	Downspout
T11	—	45 Degree Elbow
T12	—	90 Degree Elbow
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"
T18A	10' 2"	"U" Jamb
T18B	10' 2"	"U" Header
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

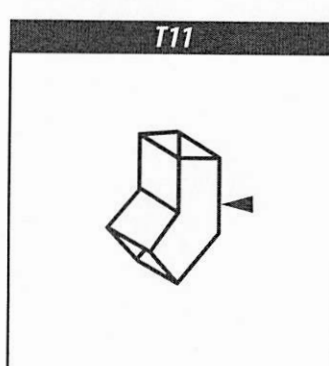
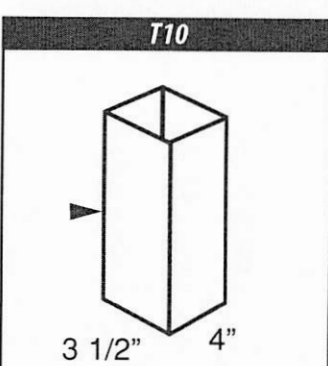
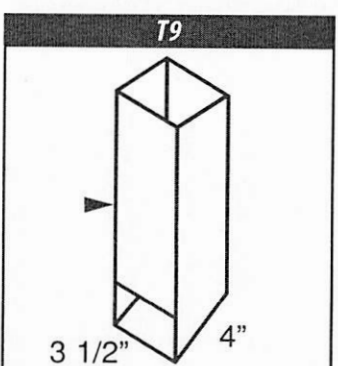
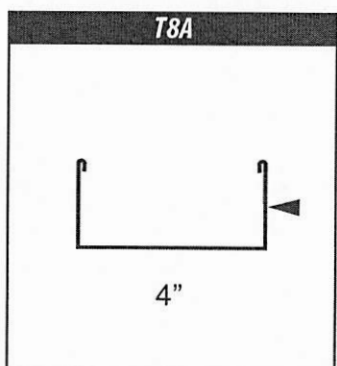
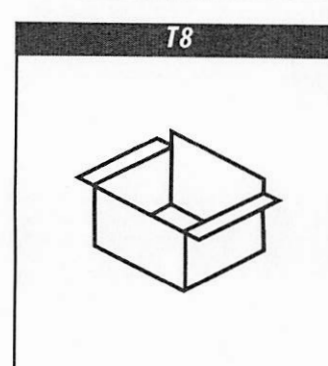
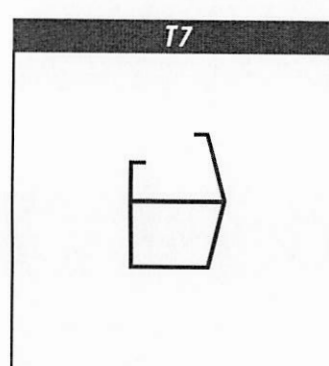
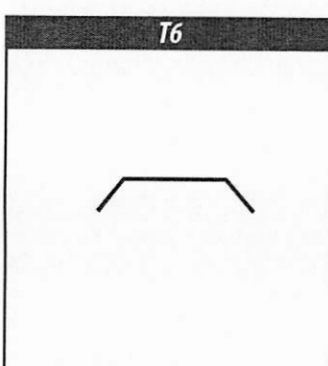
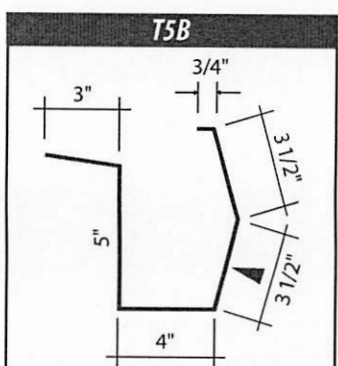
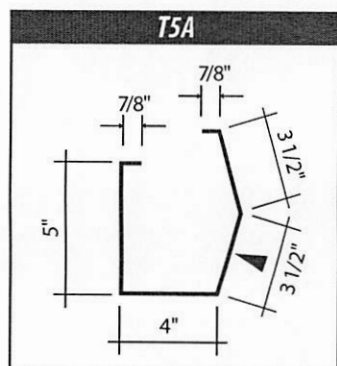
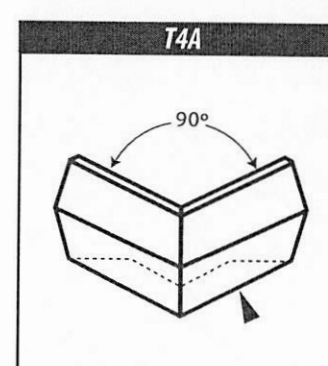
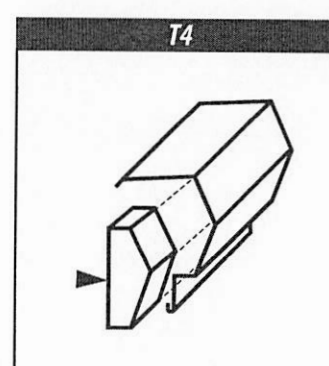
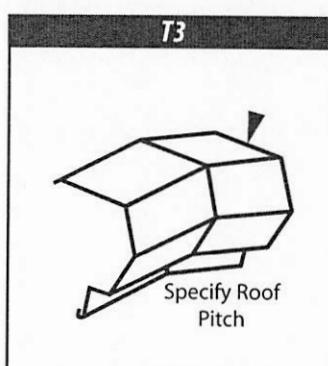
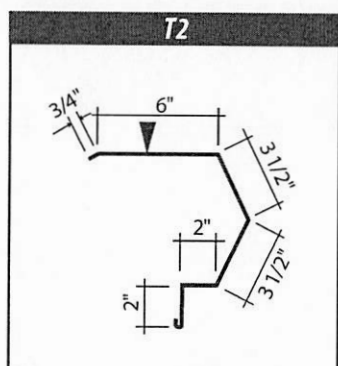
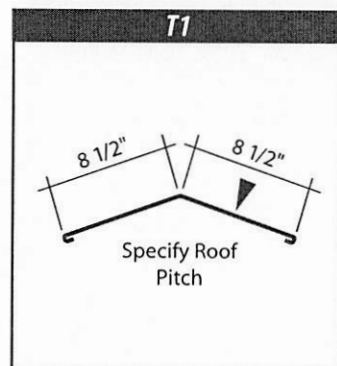
PART NUMBER	STOCK LENGTH	DESCRIPTION OF MATERIAL
T24	10' 2"	Outside Angle 2 x 2
T25	10' 2"	Inside Angle 2 x 2
T26	10' 2"	8" Cap Channel
T27	10' 2"	Slide Door Hood Trim
T28	10' 2"	"R" Transition Trim
T33	10' 2"	Canopy Trim
T34R	10' 2"	Special Rake
T35	10' 2"	"R" Outside Corner
T40	10' 2"	Outside Angle 4 x 4
T41	10' 2"	Inside Angle 4 x 4
T43	10' 2"	J Trim (HR288, HR36 Panels)
T44	10' 2"	Outside Corner (HR36)
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

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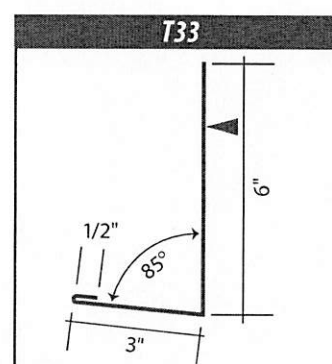
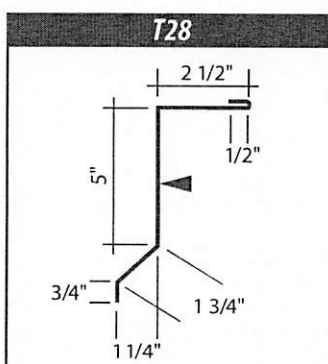
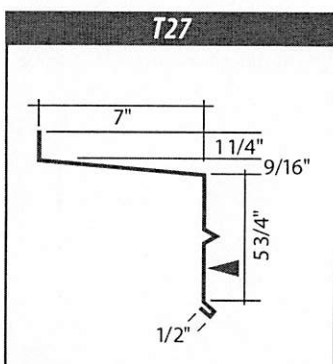
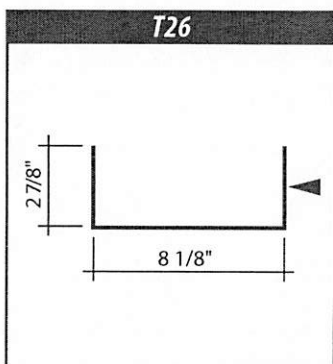
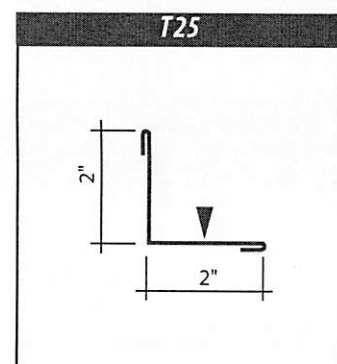
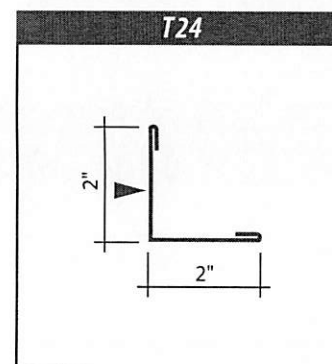
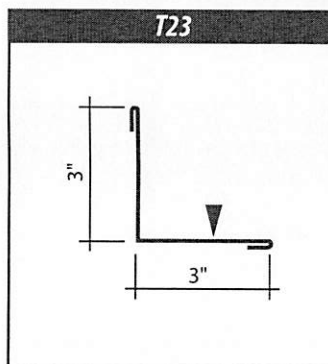
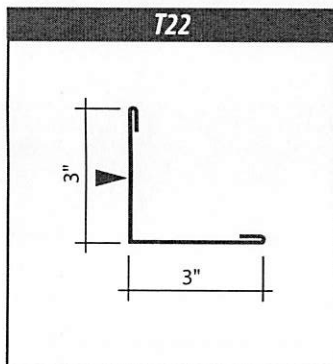
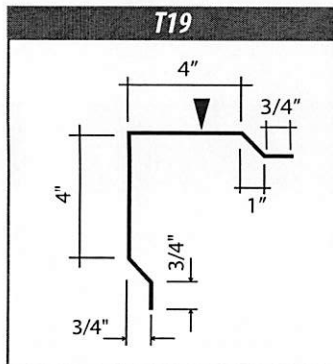
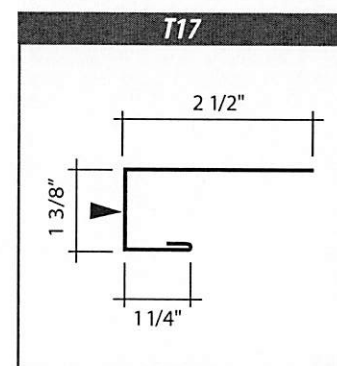
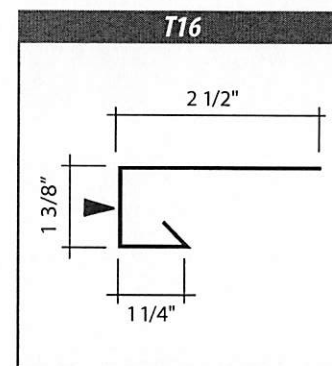
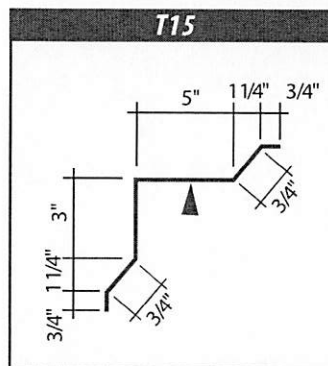
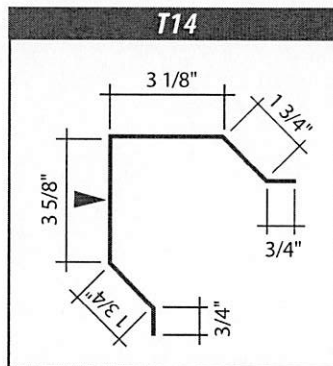
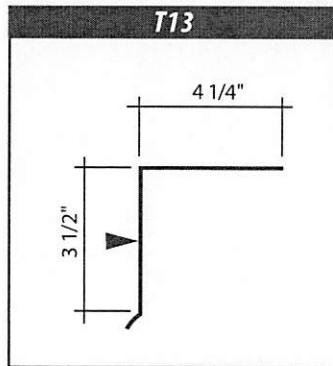
T-11 45°

T-12 90°

NORTON METALS
a division of JMS Russel Metals Corp.
817-232-0404 • 800-669-7883

METAL BUILDING TRIM (CONTINUED)

See color chart for available colors



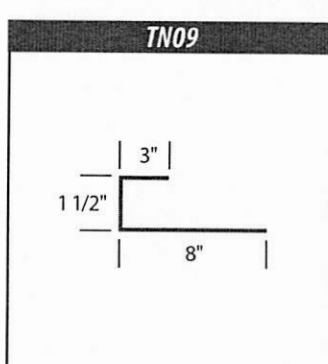
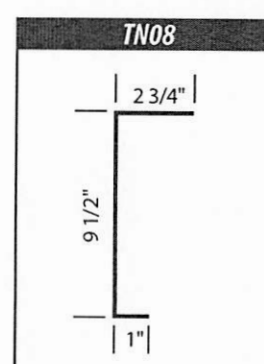
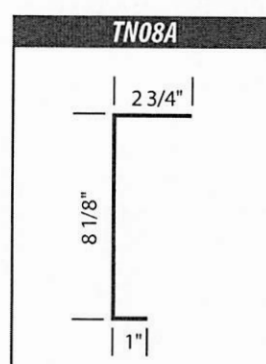
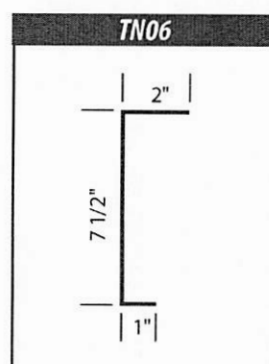
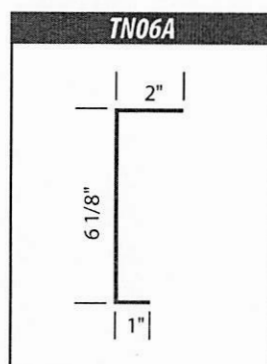
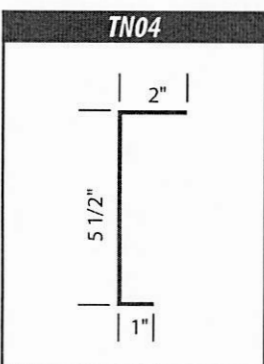
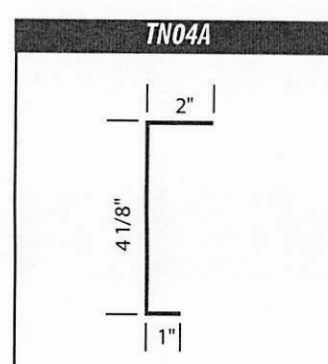
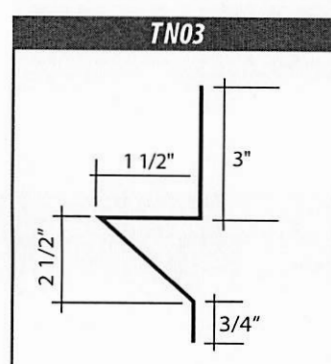
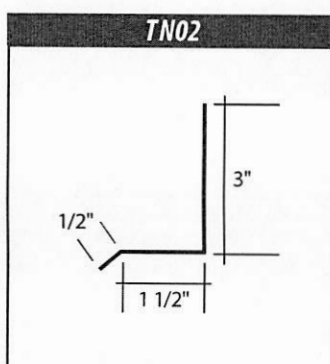
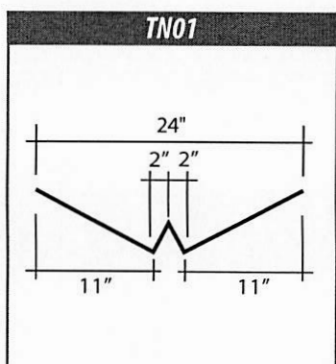
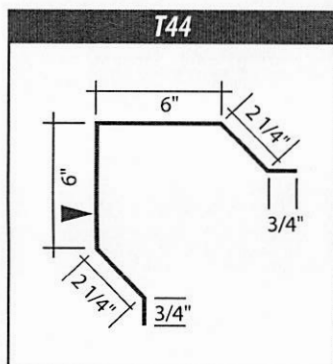
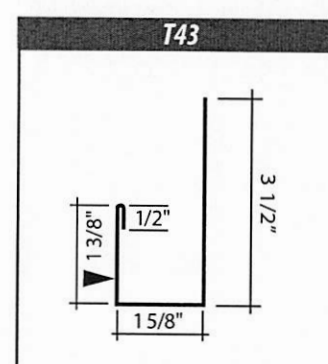
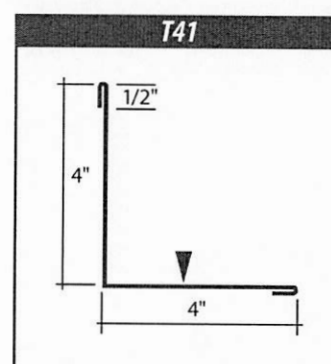
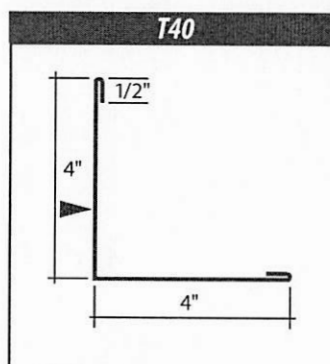
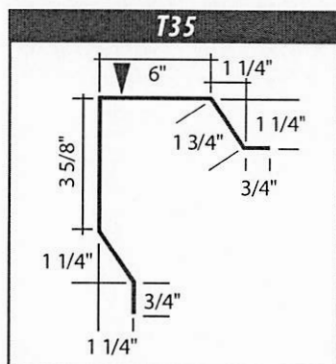
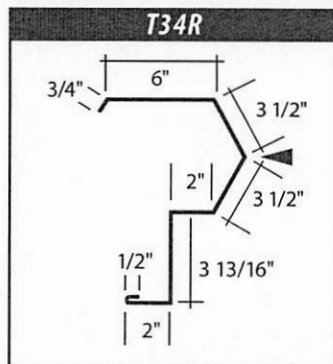
METAL BUILDING TRIM (CONTINUED)

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.

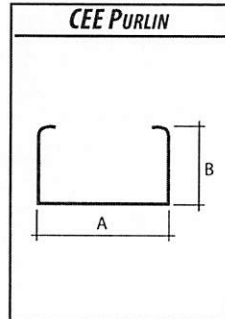
All trim is available in a wide selection of colors.

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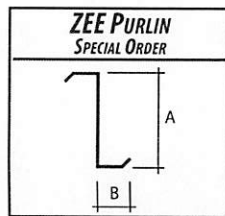


PURLIN, RECEIVER CHANNELS, BASE ANGLE

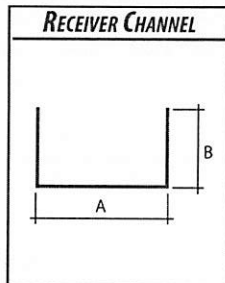
ALL MATERIAL HAS A RED OXIDE PRIMER.



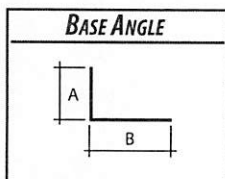
WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS OF WEB (GAUGE)	WEIGHT PER FOOT	LENGTH AND WEIGHT		
				20'	25'	30'
3"	1 5/8"	14	1.61	32.20	40.25	48.30
4"	1 5/8"	14	2.16	43.20	54.00	64.80
4"	2"	14	2.34	46.80	58.50	70.20
6"	2"	14	2.70	54.00	67.50	81.00
8"	2 1/2"	14	3.51	70.20	87.75	105.30
10"	2 3/4"	14	4.05	81.00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

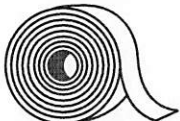
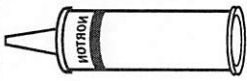


WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS OF WEB (GAUGE)	WEIGHT PER FOOT	LENGTH AND WEIGHT	
				20'	25'
4 1/8"	2"	14	2.07	41.00	51.75
6 1/8"	2"	14	2.61	52.20	65.25
8 1/8"	2"	14	3.16	63.20	79.00
4 1/8"	3"	14	2.64	52.80	66.00
6 1/8"	3"	14	3.16	63.20	79.00
8 1/8"	3"	14	3.65	73.00	91.25

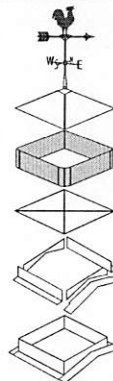
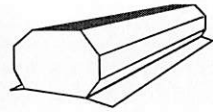
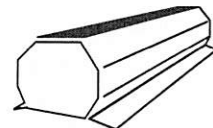


WEB HEIGHT 'A'	LEG HEIGHT 'B'	THICKNESS OF WEB (GAUGE)	WEIGHT PER FOOT	LENGTH AND WEIGHT	
				20'	25'
4"	2"	14	1.5625	31.25	39.06
3"	2"	14	1.3000	26.04	32.05
2 1/2"	2"	14	1.0400	20.83	26.00

INSULATION PRODUCTS

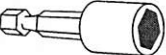
26781 3" x 72" x 100' Insulation Roll Vinyl Reinforced Facing. R10. Energy value. Other sizes available	
26788 Insulation Patch Tape 3" x 150' rolls.	
26787 Double Sided Insulation Tape 1 1/2" x 180' rolls.	
34205 Sealant White Roof Sealant Silicone	

VENTILATION PRODUCTS SPECIAL ORDER

Cupola Available in 24", 36" or 48". Weathervane sold separately.	
27025 Ridge Vent 9 1/2" x 120". 27024 Galvalume With damper and bird screen. Flat or corrugated skirt. White.	
Low Profile Vent Flat skirt, bird screen. Standard color white. No damper. Available in 10' or 6' sections. 26652 For R-Panel 26657 For U-Panel	

FASTENERS

SIZES AVAILABLE

Self-driller TEK Screws 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.	12 x 3/4" 12 x 1 1/4" 12 x 1 1/2" 12 x 2"	
Self-driller Lap Screws Primarily used for attaching two light gauge metal sheet. 5/16" hex head. Galvanized steel and EPDM sealing washer.	14 x 7/8"	
Self-driller MAXX 45 Heavy Gauge Screws 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.	12-24 x 1 1/4" 12-24 x 1 1/2"	
Woodbinders Primarily used for attaching light gauge metal to wood. 1/4" hex head. Galvanized steel shaft and washer with EPDM sealing washer.	10 x 1" 10 x 1 1/2" 10 x 2"	
Hex Head Magnetic Driver Magnetic end saves hours of labor.	26906 26905 1/4" 5/16"	

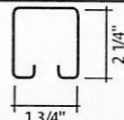
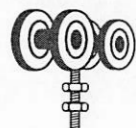
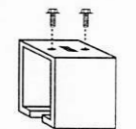
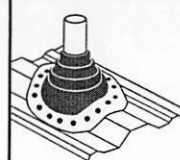
FASTENERS (CONTINUED)

SIZES AVAILABLE

Foundation Anchor Bolts (with Nut) Full Range of Sizes Available.		
Wedge Anchor Bolts Full Range of Sizes Available.		
Nail In Anchors 26815	1/4" x 1 1/4"	

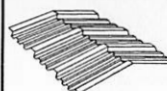
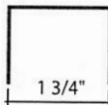
METAL BUILDING ACCESSORIES

SIZES AVAILABLE

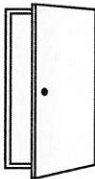
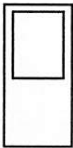
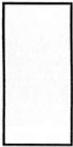
Square Track 16 gauge galvanized material.	27057	24'	
27058 – Heavy Duty Square Track Trolleys All metal construction.			
27054 Square Track Splice Bracket (rail bracket) 16 gauge galvanized track connection channel.			
33291 Track Bracket (hanger angle) Single or double track brackets.			
Pipe Flashing High temperature silicone pipe flashing. -- Special Order--	26758 26760 26761 26762 26763 26766	# Pipe size 1 1/4" – 2" 3 2" – 4" 4 3" – 6" 5 4" – 7" 6 5" – 9" 8 7" – 13"	

METAL BUILDING ACCESSORIES

SIZES AVAILABLE

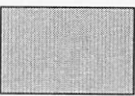
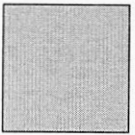
Skylight R Panel 8 oz. fiberglass panels. Matches standard R + C panel profile for tight fit on roofs and sidewalls. 3' coverage.	R; 10' 8", 12' C; 12'		
Flat Sheet 26 gauge flat sheet available in a variety of colors. Stocked in white, light stone and galvalume.	26 Gauge 41 15/16" wide x 10' 2" long		
R, U, HR, C Panel Foam Closures 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		
Mastic Tape (Tacky Tape) Butyl tape rolls. Use where metal sheets lap to reduce the possibility of leaks.	(40) 26792 (24) 26791 (20) 26789	3/32" x 3/8" x 45' 3/32" x 3/4" x 45' 3/32" x 1" x 45'	
Ridge Cap 26 gauge material. R panel formed to make the ridge cap. The stock pitch is 2/12. Stocked in white, light stone and galvalume.	3' 0"		
14 Gauge Horse Stall Channel 26780 1 5/8" x 1 5/8" channel x 8' 26770 1 5/8" x 1 5/8" channel x 10' 26779 1 5/8" x 1 5/8" channel x 12' Clearance inside allows a 2 x 4 to slide inside channel. Inside measurement shown. Bare			

DOORS

26748 Pre Hung Personnel Door 3' x 6' 8" economy door. 9 pane window installation kit available.	
26750 3070 Door With Half Window 3' x 7' fully insulated door panel. 1 3/4" thick. Universal swing. Glass included with door.	
26752 3070 "M" Leaf Door 3' x 7' fully insulated door panel. 1 3/4" thick. Universal swing. 26751 with Deadbolt	
Door Jam Pack Includes white frame, sweep, lockset, threshold & hinges. Available in 4 1/4", 6 1/4" or 8 1/4".	3070 4 1/4" – 26703 6 1/4" – 26705 8 1/4" – 26706

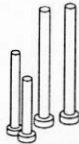
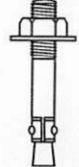
BASE PLATES

ALSO SEE THE GATE AND FENCE HARDWARE SECTION

Blanks (no holes) 11 gauge x 4" x 4". 1/4" plate x 4" x 4". 1/4" plate x 6" x 6". A36 material sheared into blanks. Other sizes available.	
Blanks (punched holes) 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. 1/2" plate x 8" x 8" with four 13/16" holes. 1/2" plate x 12" x 12" with four 13/16" holes. 3/4" plate 12" x 12" blank with four 13/16" holes. Other sizes available.	
Purlin Clips 3/16" plate 3" x 5" blank. 3/16" plate 5" x 7" blank.	
Custom Blank Sizes 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.	

CONCRETE ACCESSORIES

ALSO SEE REBAR SECTION

Nelson Studs Full range of sizes available.	
Foundation Anchor Bolts (with nut) Full range of sizes available.	
Wedge Anchor Bolts Full range of sizes available.	

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

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	BUSHEL	SQUARE CISTERN	BUSHEL
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

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 .8662.
- 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.

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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 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 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'	-	-	-	-
	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'	-	-	-
	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'	-
	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'	-
	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 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 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'	-	-	-	-
	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'	-	-	-
	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'	-	-
	4 x 4 x 1/2	-	-	-	16'	10'	6'	4'	3'	2'	1'	-	-
3 1/2"	5 x 3 1/2 x 1/4	-	-	-	15'	9'	6'	4'	3'	2'	1'	-	-
	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'	-
	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'
	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'
	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'	1'
	6 x 4 x 5/16	-	-	-	-	20'	14'	9'	7'	5'	3'	2'	1'
	6 x 4 x 3/8	-	-	-	-	16'	11'	8'	6'	4'	2'	1'	-

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	—	—
	5 x 3 1/2 x 1/2	13.6	2727	1179	489	244	135	80	45	—	—
3 1/2"	6 x 3 1/2 x 5/16	9.8	2493	1102	539	271	153	93	54	30	—
	6 x 3 1/2 x 3/8	11.7	2958	1308	638	321	181	109	64	36	—
4"	6 x 4 x 3/8	12.3	—	1340	667	336	189	115	67	37	—
	6 x 4 x 1/2	16.2	—	1748	860	432	243	147	86	48	—
4"	7 x 4 x 3/8	13.6	—	1795	1004	517	294	180	108	62	36
	7 x 4 x 1/2	17.9	—	2349	1314	670	380	233	140	80	47
4"	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.



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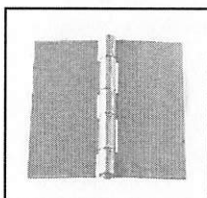
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***FENCE, GATE, AND
MISCELLANEOUS
HARDWARE***

FENCE HARDWARE - HINGES

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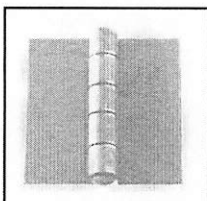
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STANDARD WEIGHT HINGE

No holes, durable, long lasting, weldable
Sold by pair.

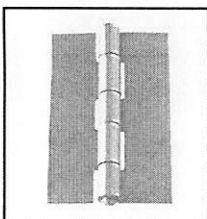
25266 3" x 3"
25587 2" x 2"



HEAVY DUTY WEIGHT HINGE

No holes, durable, long lasting, weldable
Sold by pair.

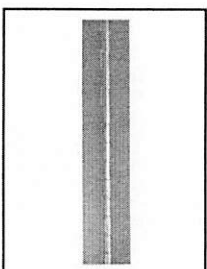
25269 6" x 6"
25268 5" x 5"
25573 4" x 4"



NARROW WIDTH HINGE

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

25584

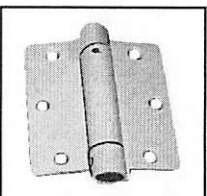


CONTINUOUS HINGE (PIANO HINGE)

No holes Plain steel.

16 gauge 1 1/2" x 72"
25575

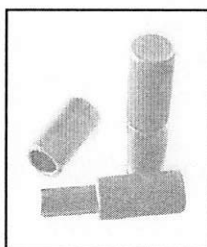
16 gauge 4" x 72"
25578



HANGER SPRING HINGE

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

25579

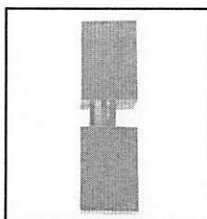


BARREL HINGES

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

25588 2" barrel hinge
Sold by pair.

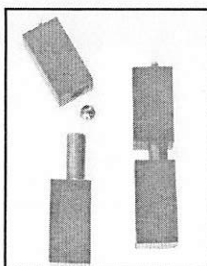
Machined from 3/4" round bar.
Designed for gates and doors up to 100 lbs.
25589 3" barrel hinge



EXTRA LARGE BLOCK HINGE

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

25572

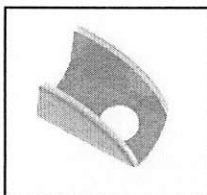


BLOCK HINGE

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

5" gate hinge 300lbs. gate capacity per set.
25571

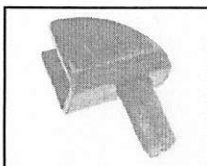
7" gate hinge 1000lbs. gate capacity per set.
25569



FEMALE BAT WING

1/2" hole.
For use with FECBWM or 1/2" rod.

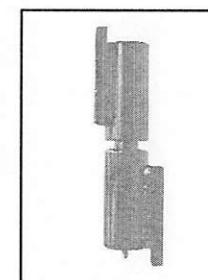
25245



MALE BAT WING

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

25246

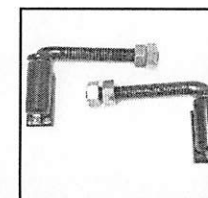


BARREL HINGE

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

5" barrel hinge.
25262

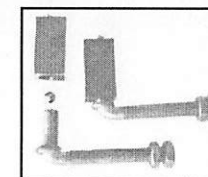
7" barrel hinge.
25264



ADJUSTABLE BARREL HINGE

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

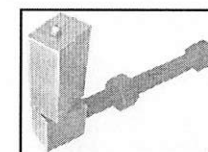
25263 Small (5") 250 lbs.
25265 Large (7") 500 lbs.



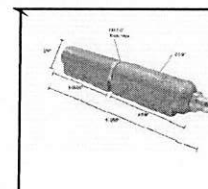
ADJUSTABLE BLOCK HINGE

Medium adjustable hinge. Sold by pair.

5/8" J-Rod provides 4" of adjustment.
Grease fitting.
25570



Large adjustable hinge.
7/8" J-Rod provides 7" of adjustment.
Grease fitting.
25567



Bullet Hinge

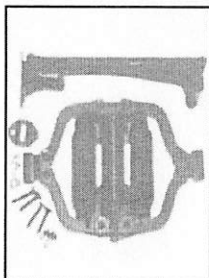
33832

Sold by Pair

FENCE HARDWARE - GATE CLOSER / HANGER - WHEELS

NORTON METALS
a division of JMS Russel Metals Corp.

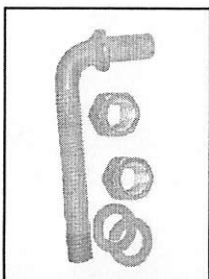
817-232-0404 • 800-669-7883



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.

25700



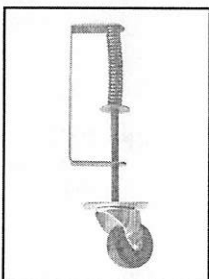
GATE HANGER

1/2" x 4 1/2" galvanized with two nuts threaded the full length.

25250 1/2" x 4 1/2"

25556 5/8" x 5 3/16"

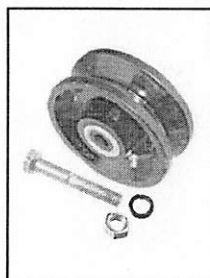
25251 3/4" x 7"



GATE SPRING ROLLER

Heavy duty spring. Mill finished. Height 16 3/4" with 3" swivel caster with bearing.

25727



"V" GROOVE CAST WHEEL

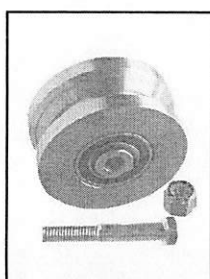
Cast iron body roller bearing for easy operation. Rolls smoothly on ordinary angle iron.

4" x 1 1/2" cast iron wheel.

25371

6" x 2" cast iron wheel.

25372



"V" GROOVE STEEL WHEEL

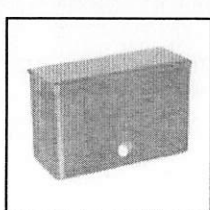
1 3/4" wide. All steel construction. Sealed bearing.

4" wheel has a 3000 lb. cap. 1/2" bolt & nut.

26220

6" wheel has a 5000 lb. cap. 5/8" bolt & nut. Maintenance free.

26231



"V" GROOVE WHEEL BOX

All steel construction.

4" V-groove box wheel.

2 1/2" wide x 5 1/4" long x 3" tall

25369

6" V-groove box wheel.

2 7/8" wide x 7" long x 4" tall

25370

4" Premium Box

26215



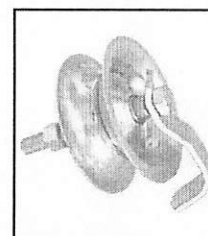
ROLLER GUIDE

Smooth rubber cylinder and sturdy metal bracket for smooth operation of sliding gates and doors.

25316 12" roller guide

25315 6" roller guide

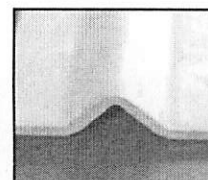
25314 3" roller guide



GENERAL DUTY STEEL GATE ROLLER

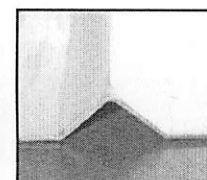
For 1 5/8" O.D. pipe. 5" wheel and axle.

26233



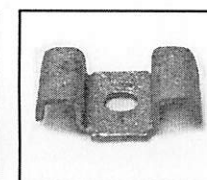
TRACK 4" WIDE V-GROOVE SLIDE GATE

26168



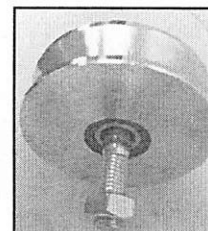
TRACK 4" EXTRA WIDE V-GROOVE SLIDE GATE

28772



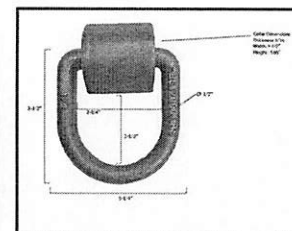
GALV SADDLE CLIP

27200



PREMIUM 4" WHEEL

26223



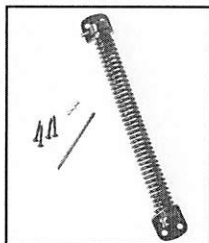
D Ring

33830

FENCE HARDWARE - SLIDE BOLTS - LATCHES - FASTENERS

NORTON METALS
a division of JMS Russel Metals Corp.

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GATE SPRING

9" spring. Standard duty adjustable black finish with screws. **25368**

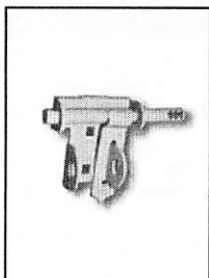
12" spring. Heavy duty adjustable black finish with screws. **25367**



HEAVY DUTY SLIDE BOLT

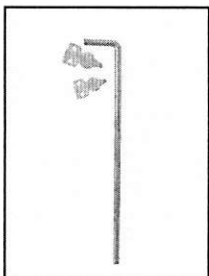
Years of dependable service.

XL Heavy Duty Slide
25252



HEAVY DUTY SLIDE BOLT

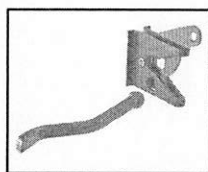
25558



CANE BOLT

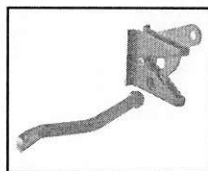
Zinc plated round bar with mounting hardware.

25249 5/8" X 24"



UNIVERSAL GRAVITY GATE LATCH WITH HOLE

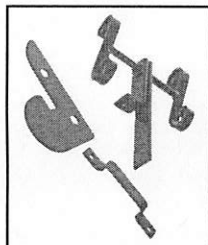
25272



GRAVITY GATE LATCH

Heavy duty. No screw holes. Bar length 3 7/8" base 1"

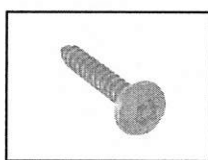
25271



FANCY LATCH

Rugged weldable steel mounting bracket with a mill finish.

25270



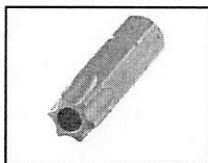
TORX TAMPER RESISTANT SCREWS

Simple to install. TORX tamper resistant screws can only be removed with an installation tool. Threaded full length. Black finish.

26153 1/4" X 1 1/2"

26154 1/4" X 2"

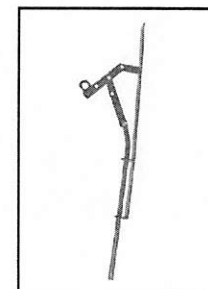
26156 1/4" X 3"



SECURITY TORX DRIVER BIT

Used for installation of TORX tamper resistant screws.

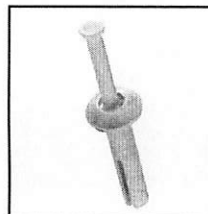
26164



LOCKING CANE BOLT

1/2" cane bolt 22"
Mill finish.

25562



MASONRY NAILS

Used in concrete.
One piece.
No other fastener needed.

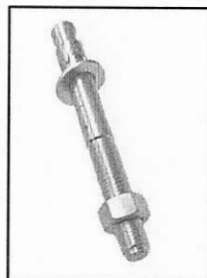
AGALV14114MNA 4" x 1 1/4"

26815

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

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WEDGE ANCHORS

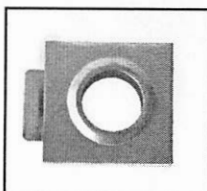
Full Range of Sizes Available.

26985	3/8" x 2-3/4"
26984	3/8" x 3-3/4"
26810	1/2" x 2-3/4"
26811	1/2" x 3-3/4"
26987	3/4" x 5-1/2"
26988	3/4" x 7"



J-BOLTS (ANCHOR)

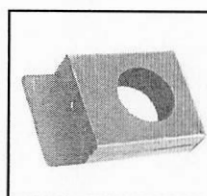
26808	1/2" x 6"
26975	3/4" x 12"
26977	3/4" x 18"
26804	1" x 24"
26809	1/2" x 12"



WELDABLE STEEL LOCK BOX

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

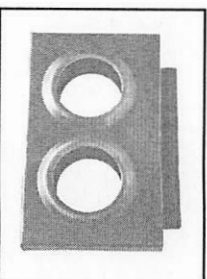
25818
Single.



WELDABLE STEEL LOCK BOX

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

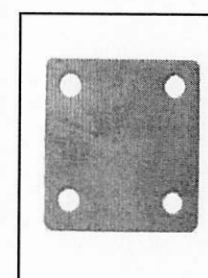
25817
Single.



WELDABLE STEEL LOCK BOX

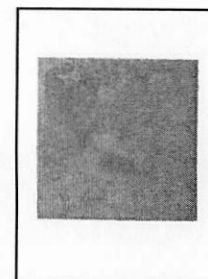
1" thick.
2 1/8" holes. Height 7 1/2" x 4 3/8".
Special design fits flush on 1" frame.

25816
Double.



BASE PLATES WITH 4 HOLES

25237	3/16"	3 x 3"	3/8" holes
25238	3/16"	4 x 4"	3/8" holes
25239	1/4"	5 x 5"	3/8" holes
27009	1/4"	6 x 6"	9/16" holes
27012	1/4"	8 x 8"	9/16" holes
27010	1/2"	8 x 8"	13/16" holes
25240	5/16"	10 x 10"	1/2" holes
27006	1/2"	12 x 12"	13/16" holes
27007	3/4"	12 x 12"	13/16" holes



BASE PLATES

Steel blanks in a variety of sizes. No holes.

27075	3/16"	3" x 5"
27076	3/16"	5" x 7"
27018	1/4"	6" x 6"
27013	1/2"	12" x 12"
27014	1/4"	12" x 12"
28318	1/4"	4" x 4"
27017	11 ga	4" x 4"

FENCE HARDWARE - TABS - PIPE & RAIL FITTINGS

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STEEL FLAT TAB

1/8" x 1 1/2" x 2 1/2" with 3/8" hole.

26214 T-9

1/8" x 1" x 2 1/4" with 3/8" hole.

26212 T-2

1/8" x 1" x 1 1/2" with 3/8" hole.

26211 T-101



STEEL TAB - L

3" wide x 3" high x 7/8 extension.

3/8 hole

26187



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.

26209

L bracket for window guards and railing

1 1/2" x 1 1/2" w x 1 1/2" h x 1 1/2"

long. 3/16" hole.

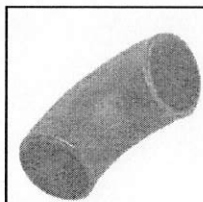
26210



STEEL TAB - FLAT

3/16" thick x 1 1/2" wide x 3 7/16" long.
3/8" hole.

26198



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.

25640 6"

25637 4"

25633 3 1/2"

25635 3"

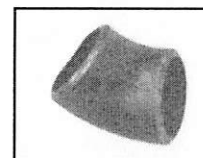
25631 2 1/2"

25260 2"

25258 1 1/2"

25259 1 1/4"

25630 1"



45° ELBOW

25638 5"

25636 4"

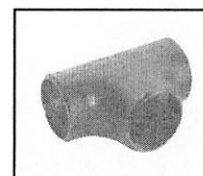
25634 3"

25632 2"

25627 1 1/2"

25628 1 1/4"

25629 1"



STEEL WELD-ON "T's"

Black finish SCH 40 Beveled edges.

26174 1" TEE

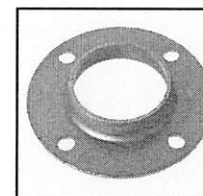
26177 1 1/4" TEE

26179 1 1/2" TEE

26181 2" TEE

26182 2 1/2" TEE

26184 4" TEE



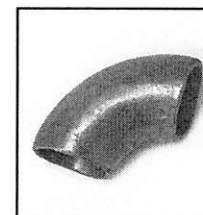
RAISED STEEL PIPE FLANGES

3 3/4" O.D.

25282 Fits 1 1/4" pipe

25283 Fits 1 1/2" pipe

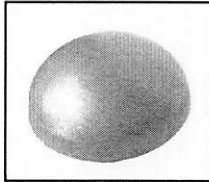
25887 Fits 2" pipe



ELBOWS W/SEAM 1 1/4" 90° LR STEEL

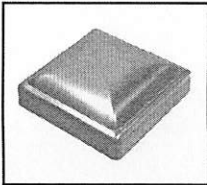
25644

FENCE HARDWARE - POST CAPS - BALL CAPS PUNCHED - CHANNELS - RINGS - POST COVERS



PRESSED PIPE CAPS

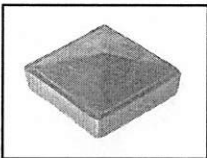
25684	1 1/4"
25685	1 1/2"
25687	2"
25688	2 1/2"
25689	3"
25691	3 1/2"
25690	4"
25692	5"
25693	6"



PRESSED STEEL POST CAPS

No welding necessary - cap fits tight.

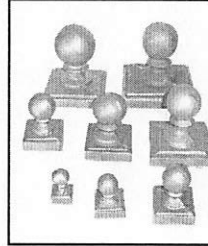
25295	3/4" X 3/4"
25296	1" X 1"
25297	1 1/4" X 1 1/4"
25298	1 1/2" X 1 1/2"
25299	2" X 2"
25300	2 1/2" X 2 1/2"
25301	3" X 3"
25302	4" X 4"
25303	6" X 6"



NEWEL POST CAPS

Cast iron tops. Made to fit over tubing tops

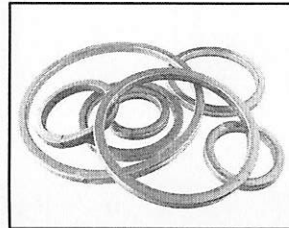
25273	1" X 1"
25274	1 1/4" X 1 1/4"
25275	1 1/2" X 1 1/2"
25276	2" X 2"
25277	2 1/2" X 2 1/2"
25278	3" X 3"
25279	4" X 4"
25821	5" X 5"
25280	6" X 6"



NEWEL BALL CAPS

Cast iron fitting. Fits over square base.

25287	1" X 1"
25289	1 1/2" X 1 1/2"
25292	2" X 2"
25293	3" X 3"
25294	4" X 4"
28304	5" X 5"
25553	6" X 6"
25291	2 1/2"



STEEL TUBE RING

1/2" rolled square tubing rings.

25305	3 1/2"
25307	4"
25309	4 1/2"
25308	5"
25310	5 1/2"
25311	6"
25312	8"
25313	10"

Outside
Size



Punched Channels 20'

Punched channels with 9/16" hole.

25937 4"

Punched channels with 13/16" hole.

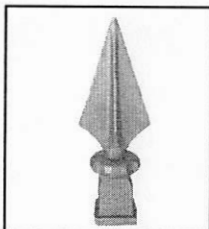
25939 4"

Inquire on Spacing and Sizes.

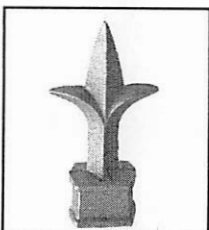
FENCE HARDWARE - SPEARS CAST IRON / PLASTIC

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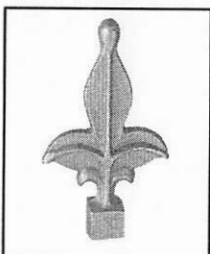
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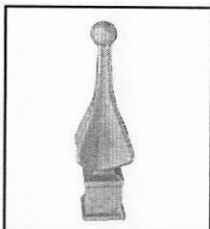
CAST IRON SPEAR
2 3/4" wide x 8" high.
Fits 1" square tube.
25952



CAST IRON SPEAR
4 1/4" high. Fits 1/2" square tube.
25342 Fits 3/4" square tube.
25362 Fits 3/4" - Econo 3/4"



CAST IRON SPEAR
5 5/16" High. Fits 1/2" square tube.
26695
25353-Econo 1/2"
25364- Econo 3/4"

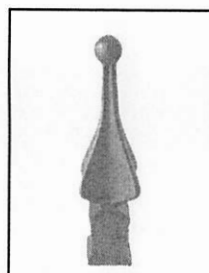


CAST IRON SPEAR
25343 - 4 1/8" high. Fits 1/2" square tube

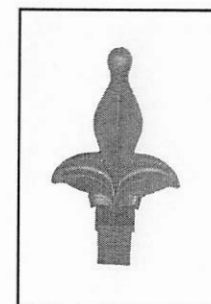
25356 - 4 1/8" high. Fits 3/4" square tube.



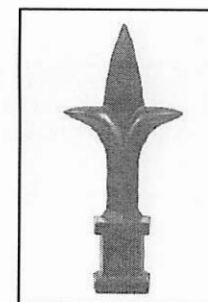
CAST IRON SPEAR
4 1/8" high. Fits 3/4" square tube.
25357 50p/box



PLASTIC SPEARS
Will not rust or deteriorate.
Molded from high grade plastic.
Fits 1/2" or 3/4" square tubing.
4 1/4" high.
26136 - 1/2"
26139 - 3/4"



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.
26138

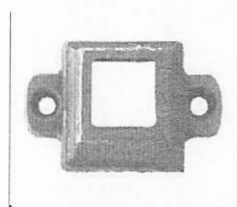


PLASTIC SPEARS
Will not rust or deteriorate.
Molded from high grade plastics.
Fits 1/2" or 3/4" square tubing.
4 1/4" high.
26137 - 1/2"
26140 - 3/4"

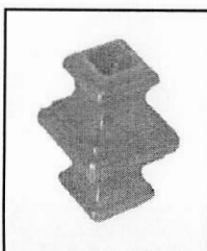
Other Spear Styles Available
Ask Sales Representative

FENCE HARDWARE - SHOES - COLLARS- PLASTIC CAPS

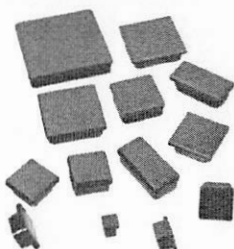
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CAST IRON SHOE
1 1/2" high.
Straight inside wall for 1"
tube. Fits 1" square tubing.
25329



BALUSTER COLLAR
Baluster fits over square tube or bar.
1 3/4" wide x 2" high.
Fits 1/2" baluster collar.
25616
Fits 3/4" baluster collar.
25617



PLASTIC SQUARE TUBE PLUGS

16 Gauge plugs.

25894	1/2"
25895	3/4"
25896	1"
25899	1 1/4"
25900	1 1/2"
25903	2"

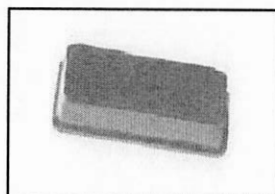
11 Gauge plugs.

25901	1 1/2"
25902	2"

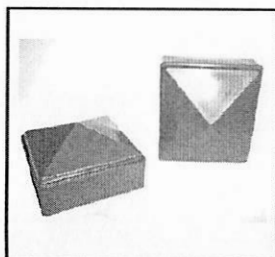
14 Gauge plugs.

25285	3"
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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.
25905

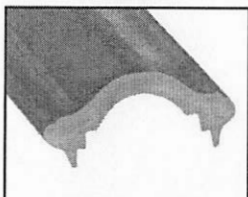


PLASTIC NEWEL CAPS
Will not rust or deteriorate.
Molded from high grade plastic.
25832 - 2"
25834 - 3"



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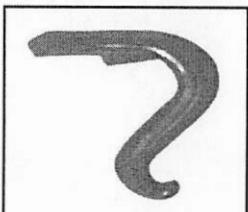
FENCE HARDWARE - HANDRAILS - HANDRAIL ENDS - STEEL SCROLL



WIDE STEEL HANDRAIL

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

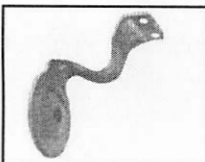
25668



HANDRAIL END

Fits extra-wide handrail.

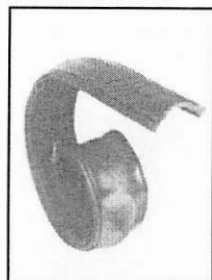
25748



WALL BRACKETS

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

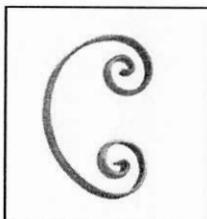
26173



HANDRAIL ENDS

To be used with 25668.

27202



STEEL SCROLL

1/4" x 3/4"
5 15/16" wide x 8 7/8" high.

25798

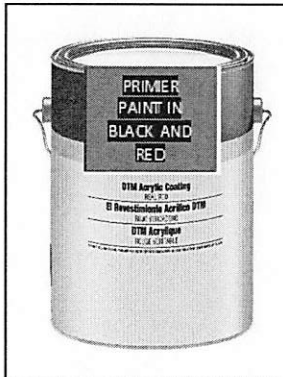
FENCE HARDWARE - ACCESSORIES

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817-232-0404 • 800-669-7883



PIPE GUIDE

26897 2-3/8"

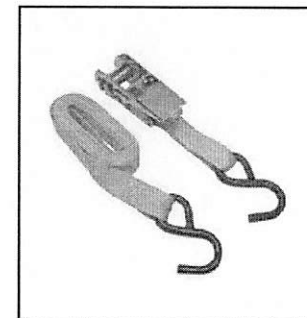


DTM PRIMER PAINT

1 gallon

26895 Black

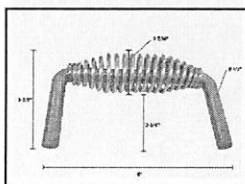
26893 Red



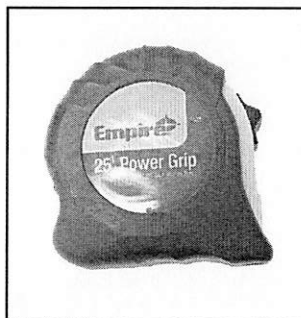
RATCHET STRAP

33943 1" x 12'

26900 2" x 27'



33831
Spring Handel



MEASURING TAPE

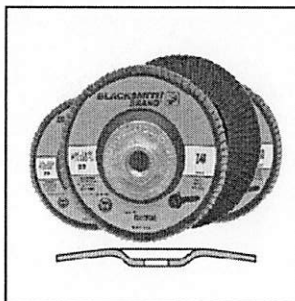
26887 25'

26888 30'

ACCESSORIES

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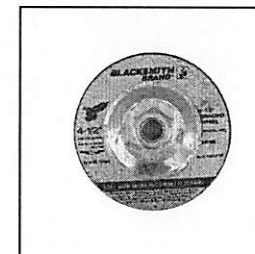
**PREMIUM FLAP
DISC 4.5"**

33469



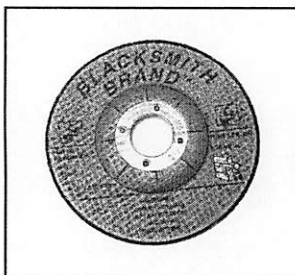
**14" 66 TEETH CUT
OFF BLADE**

28531



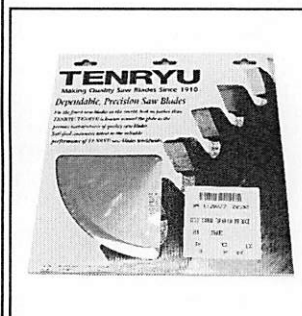
32100

4-1/2" x 1/4" Grind Wheel QC HuB



4-1/2" CUT OFF WHEEL

26885



12" 60 CUT OFF BLADE

28532

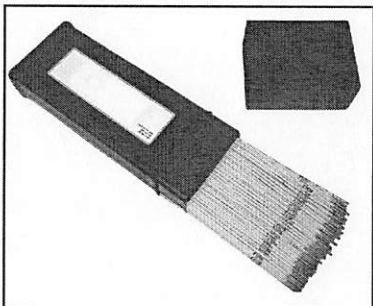


**14" CUT OFF
WHEEL LARGE**

26884

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32054

E6011 AC/DC 3/32
diameter (10 lbs)

32056

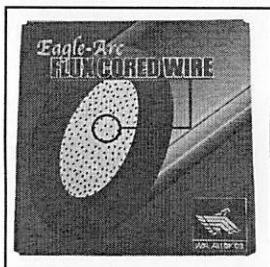
E6011 AC/DC 1/8
diameter (10 lbs)

32058

E7018 AC/DC 3/32
diameter (10 lbs)

32060

E7018 AC/DC 1/8
diameter (10 lbs)



32066

71-T11 No Shielding Gas
.035 10 lbs



32062

MIG Wire E70S6
GMAW .030 (10 lbs)

32063

MIG Wire E70S-6
GMAW .030 (30 lbs)

32064

MIG Wire E70S-6
GMAW .035 (10 lbs)

32065

MIG Wire E70S-6
GMAW .035 (33 lbs)

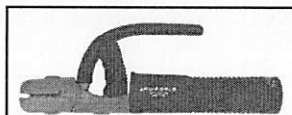


32083

Welding Gloves - Large

32084

Welding Gloves - Extra Large



32081

Electrode Holder
250 AMP