

ABRASIVES

CUT-OFF WHEELS

Blacksmith brand products are manufactured in the U.S.A. and throughout the world by manufacturers known for consistent high quality at affordable prices. Check price sheet for quantity discounts.

Catalog Number	Size
PA BL14	14+ x 3/32+ x 1+ Arbor

GRINDING WHEELS

All purpose steel. Grit A 24R

Catalog Number	Size	For Use On
PA BL4	4+ x 1/4+ x 5/8+	Makita 9501
PA BL412	4 - 1/2+ x 1/4+ x 7/8+	B&D 2750 and most 4 1/2+ Grinders

GRINDING WHEELS WITH QUICK CHANGE METAL HUBS

Catalog Number	Size
PA BL7	7+ x 1/4+ x 5/8+ - 11

SANDING DISCS FOR POWER SANDERS & GRINDERS

Available in 24, 26, and 60 Grit. Please specify. Quality resin bond aluminum oxide. Ideal for light weld removal, surface cleaning and finishing and general purpose sanding.

Catalog Number	Size
PA WS4SD	4+ x 5/8+
PA WS412SD	4 - 1/2+ x 7/8+
PA WS7SD	7+ x 7/8+

ABRASIVE FLAP DISCS

The combination grinding, sanding and polishing wheel for right angle grinders. The combination of a strong aluminum back-up plate and many flaps will ensure high performance without overheating and a life of 6 to 8 times longer than depressed center wheels. Also, as special application, these products are suitable for the grinding of surfaces which are adverse to overheating.

Catalog Number	Size	Grit
PA WS4 AFD-40	4+	40
PA WS4 AFD-60	4+	60
PA WS4 12AFD-40	4 - 1/2+	40
PA WS4 12AFD-60	4 - 1/2+	60
PA WS7 AFD-40	4+	40
PA WS7 AFD-60	4+	60

PAINT

SATIN SEMI-GLOSS PAINT

- Primer and finish in one coat
- Built-in rust inhibitors
- Air dries in minutes
- Attractive low sheen
- In stock colors available in 1 gallon cans and some in 5 gallon buckets.



Satin semi-gloss finish is a remarkable primer and finish in one coat. Built-in rust inhibitor and modified vinyl liquid reduce under-the-finish rusting. Controlled sheen polishes rather than chips when subjected to abrasion or abuse.

It contains a solvent, which is easier on the eyes, nose, and throat than comparable competitive paints. It is completely lead free, in black and white.

It may be handled by spray, brush, roller or dip. Dries quickly and may be handled in minutes. When used around swimming pools and in coastal regions, a primer is recommended.

Catalog Number

SP 2109 White

SP 2181 Brilliant White

SP 2100 Black

SP 3879 Flat Black

XYLENE THINNER

Recommended thinner for Blacksmith brand paints

Catalog Number

SP XL 1 Gal. Can



TUBING CLEANER & DEGREASER

Makes up to 30 or more gallons of cleaner from 1 gallon of concentrate. Safely cleans oil and grease from tubing and other surfaces. Environmentally friendly, non-solvent based solution.

Catalog Number

SPTC 1000

PAINT

SHOP COAT PRIMERS

Economically priced, fast drying, and provides good coverage. Spray or brush application.

Catalog Number	SP 2712	Red 1 Gallon
	SP 27125	Red 5 Gallon
	SP 2700	Grey 1 Gallon
	SP 27005	Grey 5 Gallon

SPRAY PAINT

Ideal for touch-up and available in same colors as gallon paint for exact color match. Stocked individually or in 12-can boxes. Stocked in black, brilliant white, white and flat black. Other colors may be available.

Catalog Number	SP SP2100	Black
	SP SP2181	Brilliant White
	SP SP2109	White
	SP SP3879	Flat Black

ALL PURPOSE SPRAY PAINT AND PRIMERS

Great for small jobs and affordably priced 12 oz. cans. Fast drying and stocked individually or in 12-can boxes. Available in a variety of colors

Catalog Number	SP 100	White Gloss	SP 130	Red
	SP 101	Flat White	SP 1402	High Heat Aluminum
	SP 110	Black Gloss	SP 151	Yellow
	SP 117	Flat Black	SP 160	Blue
	SP 140	Green	SP 180	Brown
	SP 120	Silver	SP 203	Grey Primer
	SP 113	Grey	SP 205	Red Primer
	SP 1614	High Heat Black		

FASTENERS

RAWL ZAMAC NAILIN

Use in: Concrete, black, brick, stone
Use with: No other fastener needed
Made of: Zinc with steel nail with no hole spotting

Catalog Number	RA 2808	1/4+ x 1+
	RA 2814	1/4+ x 1 - 1/4+
	RA 2820	1/4+ x 1 - 1/2+
	RA 2826	1/4+ x 2+

TEK SCREWS

Teks are threaded fasteners with drill points. They drill, tap and fasten in one operation to structural steel, galvanized steel, aluminum and other metal for numerous, fastening-to-metal applications.

Catalog Number	Size	Head	Rubber Washer
RA 101634	#10 x 3/4+	5/16+	No
RA 10161	#10 x 1+	5/16+	No
RA 1016112	#10 x 1 - 1/2+	5/16+	No
RA 2241	#12 x 3/4+	5/16+	Yes
RA 2244	#12 x 1+	5/16+	Yes

RAWL LOK BOLT

GSA Specification FF-S-325, Group II Type 3, Class 3

Use in: Concrete, block, brick, stone Use with: No other fastener needed Made of: Steel

- No hole spotting
- Extenders for extra length
- FM approved, UL Listed
- One-piece assembly
- Thread diameter is less than anchor diameter

The Rawl Lok/Bolt is an all-steel multi-purpose anchor bolt intended for use in a wide range of masonry materials. Installation is fast and easy. Drill hole of same diameter as Lok/Bolt with fixture in place. Insert Lok/Bolt, tap into hole until flush with fixture and tighten with wrench or screwdriver until hand-tight. Under load, the specially tapered bolt is drawn further into the expansion sleeve to develop greater locking action against the walls of the hole.

The all-steel construction meets fire and general building code requirements.

Catalog Number	Size
RA 5005	5/16+ x 1 - 1/2+
RA 5010	5/16+x 2 - 1/2+
RA 5015	3/8+ x 1 - 7/8+
RA 5020	3/8+ x 3+
RA 5025	1/2+ x 2 - 1/4+
RA 5030	1/2+ x 3+
RA 5034	1/2+ x 4+

Position fixture, drill hole. Insert Lok/Bolt, tap flush with fixture, and tighten.

CONCRETE FASTENERS

RAWL STUD - Carbon Steel Rawl-Stud

GSA Specification FF-S-325, Group II, Type 4, Class 1

Use in: Concrete, brick, stone Use With: No other fastener needed Made of: Steel

Size Range: 1/4+x 1 - 3/4+to 5/8+x 8 - 1/2+

The Rawl-Stud is a one piece anchor bolt available in either standard low carbon steel or in stainless steel for installations in highly corrosive environments.

- No hole spotting
- Patented inter-locking wedges
- UL listed
- 17 diameters and lengths, other sizes on special order

Catalog Number

RA 7410	3/8+ x 2 - 1/4+	<i>Position fixture, drill hole. Drive Rawl-Stud into hole until nut and washer are flush with fixture, and tighten.</i>
RA 7412	3/8+ x 2 - 3/4+	
RA 7414	3/8+ x 3 - 1/2+	
RA 7416	3/8+ x 5+	
RA 7420	1/2+ x 2 - 3/4+	
RA 7422	1/2+ x 3 - 3/4+	
RA 7423	1/2+ x 4 - 1/2+	
RA 7424	1/2+ x 5 - 1/2+	
RA 7426	1/2+ x 7+	
RA 7430	5/8+ x 3 - 1/2+	
RA 7434	5/8+ x 6+	

LAG-SHIELD

GSA Specification FF-S-325, Group II, Type 1, Class 1 and 2

Use In: Mortar joint, concrete Use with: Lag bolt Made of: Zinc alloy

Size range: 1/4+short to 3/4+long

In mortar joints, install the anchor to expand against the brick or block. Drill hole, insert anchor until flush with surface. Position fixture, insert lag bolt and tighten.

- Hole spotting required
- Rustproof
- Short style for hard masonry
- Long style for soft masonry

Catalog Number

RA 1055	1/4+Short
RA 1151	3/8+Short
RA 1155	3/8+Long

LAG SCREWS, BITS & DRIVERS

ONE WAY LAG SCREWS

- Threaded full length
- Hardened
- Type A
- Black finish

Can be installed with screwdriver or power bit.

Catalog Number	Size (Inches)
OW 141	1/4+x 1+
OW 14112	1/4+x 1 - 1/2+
OW 142	1/4+x 2+
OW 14212	1/4+x 2 - 1/2+
OW 143	1/4+x 3+
OW 5162	5/16+x 2+
OW 5163	5/16+x 3+

TORX TAMPER RESISTANT SCREWS

- Simple to install
- Can only be removed with installation tool
- Threaded full length
- Black finish

Catalog Number	Size
TX 14112	1/4+x 1 - 1/2+
TX 142	1/4+x 2+
TX 143	1/4+x 3+

SECURITY TORX DRIVER BIT

Catalog Number	Size
PB T40	

STEEL WELD TABS AND BASE PLATES

*All sizes are approximate

<p>Catalog Number WT 3</p> <ul style="list-style-type: none"> • 2 - 5/8+high • 2+wide • 1/8+thick • 1+base • 3/8+hole 	<p>Catalog Number WT 5</p> <ul style="list-style-type: none"> • 3+high • 3+wide • 7/8 %extension • 3/8+hole 														
<p>Catalog Number WT 9</p> <ul style="list-style-type: none"> • 2 - 1/2+high • 1 - 1/2+wide • 1/8+thick • 3/8+hole 	<p>Catalog Number WT 4</p> <ul style="list-style-type: none"> • 1 - 5/8+high • 1+wide • 1/8+thick • 3/8+hole 														
<p>Catalog Number WT 2</p> <ul style="list-style-type: none"> • 2 - 1/4+high • 1+wide • 1/8+thick • 3/8+hole 	<table border="0"> <thead> <tr> <th>Catalog Number</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>WT 6B</td> <td>3+x 3+</td> </tr> <tr> <td>WT 7</td> <td>4+x 4+</td> </tr> <tr> <td>WT 5B</td> <td>5+x 5+</td> </tr> <tr> <td>WT 13</td> <td>6+x 6+</td> </tr> <tr> <td>WT 118</td> <td>8+x 8+</td> </tr> <tr> <td>WT 210</td> <td>10+x 10+</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • 3/16+thick • 3/8+hole 	Catalog Number	Size	WT 6B	3+x 3+	WT 7	4+x 4+	WT 5B	5+x 5+	WT 13	6+x 6+	WT 118	8+x 8+	WT 210	10+x 10+
Catalog Number	Size														
WT 6B	3+x 3+														
WT 7	4+x 4+														
WT 5B	5+x 5+														
WT 13	6+x 6+														
WT 118	8+x 8+														
WT 210	10+x 10+														
<p>Catalog Number WT 6</p> <ul style="list-style-type: none"> • 3 - 7/16+long • 1 - 1/2+wide • 3/16+thick 	<p>Catalog Number WT 8</p> <ul style="list-style-type: none"> • 3 - 1/2+high • 1 - 1/2+extension • 1+wide • 1/8+thick • 3/8+hole 														

GATE HARDWARE

HEAVY DUTY SLIDE BOLT

Catalog Number HA 1

WELDABLE GATE SPRING CLOSER

Catalog Number HA 12S - 12+

GRAVITY GATE LATCH (SELF-LATCHING)

No holes . weldable

Catalog Number HA 4

CANE BOLTS

1/2+diameter plated round bar

Catalog Number HA 18 Size 18+

BAT WING CLIP – FEMALE

Catalog Number HA 5

BAT WING CLIP – MALE

Catalog Number HA 5M

GATE HANGER BOLT (WITH TWO NUTS)

Catalog Number HA 2
Size 1/2+x 4 - 1/2+

KANT SLAM GATE CLOSER

Catalog Number HA 7

- One year limited warranty
- Hydraulic action . not on air check
- Easy installation
- Adjusting screw on top regulates closing speeds of gate
- Holds gate open when wanted

HINGES

HINGES - NARROW WIDTH

Catalog Number HI 100

- Narrow width
- Blank (no holes)
- Tight pin
- Size 2 - 1/4+x 3 - 1/2+(.098 gauge)
- Economy priced
- For 1+square tubing

HINGES - EXTRA HEAVY

Catalog Number	Size
HI 3H	3+x 3+
HI 4H	4+x 4+
HI 6H	6+x 6+

HINGES - STANDARD WEIGHT

Catalog Number	Size
HI 2S	2+x 2+
HI 3S	3+x 3+
HI 312S	3 - 1/2+x 3 - 1/2+
HI 4S	4+x 4+

ADJUSTABLE HINGE

- Block is machined from cold finish steel bar
- Grease fitting for easy lubrication
- Ball bearing for smooth operation
- Sold in sets of two

Catalog Number

BH MADJ	Medium Adjustable Hinge 5/8+J-Rod provides 4+of gate adjustability
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BH LADJ	Large Adjustable Hinge 7/8+Dia alloy threaded rod provides up to 7+of gate adjustability
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SPRING HINGE FOR AUTOMATIC CLOSING OF DOORS

(SINGLE ACTING)

Complete with adjustment pins

Catalog Number	Size
HI 1250	3 - 1/2+x 3 - 1/2+

CONTINUOUS HINGE (PIANO HINGES) PLAIN STEEL

Catalog Number	Size
HI C72	1 1/2+x 72+
HI C372	3+x 72+Heavy Gauge

HEAVY DUTY GATE HINGES

7" GATE HINGE

#BHL

- Machined from cold finish steel bar
- Grease fitting for easy lubrication
- Ball bearing for smooth operation
- Easy weld-on installation
- Up to 1000 lb. gate capacity per set

5" GATE HINGE

#BHM

- Machined from cold finish steel bar
- Grease fitting for easy lubrication
- Ball bearing for smooth operation
- Easy weld-on installation
- Up to 300 lb. gate capacity per set

3" BARREL HINGE

#BH-S

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

2" BARREL HINGE

#BH-XS

- Machined from 5/8+round bar
- Designed for gates and doors up to 75 lbs.

5" BARREL HINGE – STYLE 2

#HB-5

- Weld plates are 3/8+thick
- Diam: 1+ H: 5+ Pin: 5/8+
- Plate = Wide: 1+ L: 2+ Gap: 1 . 3/4+

7" BARREL HINGE – STYLE 2

#HB-7

- Weld plates are 3/8+thick
- Diam: 1 - 3/8+ H: 7+ Pin: 3/4+
- Plate = Wide: 1 - 1/2+ L: 3+ Gap: 2 - 1/8+

"H" Hinge

#HI-H

- Black hammered finish
- Fasteners not included
- Neoprene washers for smooth operation
- Sold by the pair . Size: 7+H x 2 - 1/2+W

MULTI-PURPOSE CASTERS & GATE AND SLIDING DOOR HARDWARE

“V” GROOVE WHEEL CASTERS

- Cast iron body
- Grease fitting for easy lubrication
- Roller bearings for easy operation
- Rolls smoothly on ordinary angle iron
- Complete with mounting bolt

Catalog Number HA 21 - Diameter 4+

STEEL “V” GROOVE WHEEL CASTERS

- 4+diameter 1 - 3/4+wide
- All steel construction
- Sealed bearings (no grease fittings)
- 3000 lbs. capacity
- Includes bolt and nut
- Gold / zinc plating
- Maintenance free

Catalog Number HA 40

BOX FOR “V” GROOVE WHEEL CASTERS

All steel construction for easy welding. Fits 4+groove wheel only.
Dimensions: 2 - 1/4+wide x 5 - 1/4+long x 3+tall

Catalog Number HA 21B

ROLLER GUIDE FOR SLIDING DOOR HARDWARE

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

Catalog Number HA 34 Size - 3+

HA 35 Size - 6+

GENERAL DUTY STEEL GATE ROLLER

For 1 5/8+O.D. pipe 5+Wheel & Axle

Catalog Number HA 20

PIPE AND TUBE FITTINGS

SEAMLESS WELD ON PIPE ELBOWS

Carbon steel, sch. 40, long radius, beveled edges ready for easy welding. Many uses such as structural pipe fabrication handrail, bumpers, maintenance

90°		45°	Pipe Size
Catalog Number		Catalog Number	
EL 1290		EL 1245.....	1/2+
EL 3490		EL 3445.....	3/4+
EL 190		EL 145.....	1+
EL 11490.....		EL 11445.....	1 - 1/4+
EL 11290.....		EL 11245.....	1 - 1/2+
EL 290		EL 245.....	2+
EL 21290.....		EL 21245.....	2 - 1/2+
EL 390		EL 345.....	3+
EL 490		EL 445.....	4+
EL 690		EL 645.....	6+

90 DEGREE PIPE RAILING ELBOWS WITH SEAM

- Made from mild steel
- More economical than seamless elbows
- Great for handrails and other nonfluid, nonpressure applications

Catalog Number	Pipe Size
EL 11490S	1 - 1/4+
EL 11290S	1 - 1/2+

WELD ON PIPE END CAPS

- Sch. 40
- Beveled edges for easy welding
- Carbon steel
- For use on fences, bumpers and repair

Catalog Number	Pipe Size
EL CAP1	1+
EL CAP114	1 - 1/4+
EL CAP112	1 - 1/2+
EL CAP2	2+
EL CAP212	2 - 1/2+
EL CAP3	3+
EL CAP4	4+
EL CAP6	6+

STAMPED STEEL PIPE END CAPS

- Stamped from heavy gauge steel
- Butt welds to pipe for railing ends, etc.
- A low cost alternative to forged pipe fittings in non-fluid and non-pressure related applications

Catalog Number	Pipe O.D.
SC 114RP	1 - 5/8+
SC 112RP	1 - 7/8+
SC 2RP	2 - 3/8+

HANDRAIL AND FITTINGS

STRAIGHT

5 - 3/4+tip to tip molded Lambs Tongue

Catalog Number	Description	Size
CI 5	Straight	Fits MCR
CI 5112	Straight	Fits MCR112

BEVELED

6 - 1/2+tip to tip molded Lambs Tongue

Catalog Number	Description	Size
CI 6	Beveled	Fits MCR
CI 6112	Beveled	Fits MCR112

MOLDED VOLUTE

Height 1 - 1/4+, Width 4 - 1/2+

Catalog Number	Description	Size
CI 4X112	Molded Volute	2 - 1/4+

STEEL HANDRAIL

Commercial Quality Steel to fit 1+channel or tubing. 20 ft. length.

Catalog Number MCR

WIDE STEEL HANDRAIL

Commercial Quality Steel to fit 1 - 1/2+channel or tubing. 20 ft. length.

Catalog Number MCR 112

FOR TUBULAR HANDRAIL

Conforms in shape to conventional 1 - 3/4+wide molded cover rail combined with 1+channel. Stock length 20 ft. Time, labor and money savings.

Catalog Number	MTH 1420	TUBULAR HANDRAIL
	CI 902	STRAIGHT FITTING
	CI 901	BEVELED FITTING
	CI 900	VOLUTE FITTING

HANDRAIL BRACKETS

CAST IRON

For square tubing 2 - 3/4+high x 2 - 1/2+wide.

Catalog Number	CI 3A	Extends 2 1/2+from wall.
	CI 3ALG	Extends 3+from wall.

STEEL FOR ROUND PIPE HANDRAIL

3/8+hole, 2 - 3/4+round, 2 - 1/2+from wall to rail center

Catalog Number SC 35BRP

PRE-PUNCHED BAR CHANNEL

PRE-PUNCHED BAR CHANNEL - NEW SIZE RANGE IN STOCK

- Economically priced
- Great for window guards and fences
- Stocked in 20qlengths. Some sizes available in 24qlengths. Please inquire
- NEW automated punching technique
- Every hole home exactly on center
- Provide extra security for doors & window guards and fencing

Now Punched from Structural Bar Channel

1+Bar Channel 1+ x 1/2+ x 1/8+ 20 ft. long

1 1/2+Bar Channel 1 - 1/2+ x 1/2+ x 1/8+ 20 ft. long

Catalog Number	Channel Size	Square Hole Hole Size	Square Picket Picket Size	Hole Spacing On Center
1004.....	1+x 1/2+x 1/8+.....	9/16+.....	1/2+.....	4+
1005.....	1+x 1/2+x 1/8+.....	9/16+.....	1/2+.....	5+
1006.....	1+x 1/2+x 1/8+.....	9/16+.....	1/2+.....	6+
11206.....	1 - 1/2+x 1/2+x 1/8+.....	9/16+.....	1/2+.....	6+
1120434.....	1 - 1/2+x 1/2+x 1/8+.....	13/16+.....	3/4+.....	4+
1120534.....	1 - 1/2+x 1/2+x 1/8+.....	13/16+.....	3/4+.....	5+
1120634.....	1 - 1/2+x 1/2+x 1/8+.....	13/16+.....	3/4+.....	6+

Custom Punching Available. Please inquire for sizes not listed

EXPANDED AND PERFORATED METALS

PERFORATED METAL SCREEN

- Stocked in 3x7 sheets
- Many uses in doors, grills, and manufacturing
- Made from 24 ga. either cold rolled steel

3/32+Hole - 23% Open Area

Catalog Number PS 22332

STAIR COMPONENTS

CUSTOM STEEL STAIR PANS

A. Ready to weld and add concrete. Made from 16 gauge steel plate

Catalog Number	Size
ST SP36	11+x 36+. 2+High . 1/2+Lip
ST SP40	11+x 40+. 2+High . 1/2+Lip

B. Made from 1/8" thick non-skid floor plate

Catalog Number	Size
ST SP36F	11+x 36+. 2+Lip Down . 1+Lip Up
ST SP40F	11+x 40+. 2+Lip Down . 1+Lip Up

Many custom sizes fabricated on site – please inquire

DECORATIVE CAST IRON SPEARS

5/8" – 4 - 1/4" HIGH

Fits 5/8+Square

Catalog Number CI 9X58**3/4" – 4 - 1/4" HIGH**

Fits 3/4+Square

Catalog Number CI 9X34**3/4" - EXTRA LARGE 6" HIGH**

Fits 3/4 Square

Catalog Number CI 9Y**1" - 8" HIGH**

Fits over 1+Square

Catalog Number CI 9Z**1/2" – 4 - 1/2" HIGH**

Fits 1/2+Square

Catalog Number CI 649**5/8" – 4 - 1/2" HIGH**

Fits 5/8+Square

Catalog Number CI 64958**3/4" – 4 - 1/2" HIGH**

Fits 3/4+Square

Catalog Number CI 649S**3/4" - EXTRA LARGE 5 - 1/2" HIGH**

Fits 3/4+Square

Catalog Number CI 64934**1/2" – 5 - 1/2" HIGH X 3 - 1/2" WIDE**

Fits 1/2+Square

Catalog Number CI 656**3/4" - 7" HIGH X 4 1/4" WIDE**

Fits 3/4+Square

Catalog Number CI 65634**1/2" – 4 - 1/4" HIGH**

Fits 1/2+Square

Catalog Number CI 9A**3/4" - 5" HIGH X 2" WIDE**

4 Sided Spire Fits 3/4+Square

Catalog Number CI 671

DECORATIVE CAST IRON SPEARS - CONTINUED**3/4" - 4 - 5/8" High x 1" Wide**

Fits 3/4+Square

Catalog Number CI 954**1/2" - 4 - 1/2" HIGH**

Fits 1/2+Square

Catalog Number CI 667**1/2" - 4" HIGH**

Fits over 1/2+Round

Catalog Number CI 9R**1/2" - 4 3/4" HIGH X 2 - 1/4" WIDE**

Fits 1/2+Square

Catalog Number CI 659**1/2" - 6 - 1/2" HIGH X 3 - 1/2" WIDE**

Fits 1/2+Square

Catalog Number CI 655**1/2" - 3 - 7/8" HIGH**

Fits over 1/2+Round

Catalog Number CI 9RS**1/2" - 6" HIGH X 1/2" WIDE**

Fits 1/2+Square

Catalog Number CI 66**1" - HEIGHT 4 - 1/2"**

Plugs into 1+square tube

Catalog Number CI 649X

DECORATIVE CAST IRON FITTINGS

NEWEL POST BALLS

Made to fit over tubing

Catalog Number	Tubing Size	Height
CI 118	2+	3 - 3/4+
CI 121	2 - 1/2+	4 - 1/2+
CI 120	3+	5+
CI 119	4+	5 - 1/2+

1" BALL

1+diameter. Plugs into 1+square tubing. 1 - 1/2+High

Catalog Number CI 7X

1 - 1/4" BALL

1 - 1/2+diameter. Drives in 1 - 1/4+square tubing. 3 - 1/2+High

Catalog Number CI 7XL

1 - 1/2" BALL

1 - 1/2+diameter. 1 - 1/2+square base. 2 - 1/2+tall

Catalog Number CI 116

1" LEMON DROP TOP

For 1+square tubing. 2+High

Catalog Number CI 117

NEWEL POST CAPS, PYRAMID STYLE

Catalog Number	Size
CI 805	1+x 1+
CI 806	1 - 1/2+x 1 - 1/2+
CI 807	2+x 2+
CI 8075	2 - 1/2+x 2 - 1/2+
CI 808	3+x 3+
CI 809	4+x 4+
CI 811	6+x 6+

1 - 3/4" PINEAPPLE

4 - 3/8+Tall, 1 - 3/4+Round Base

Catalog Number CI 657

CAST IRON FITTINGS AND SHOES

1 X 1/2"

For 1+Channel

Height 2 - 1/8+, Width 1 - 3/16+

Catalog Number CI 653

1" SHOE

For 1+tubing. One ear, 1 - 3/8+deep

Catalog Number CI LL

1/2" SHOE

Extra tall. Height 1 - 5/16+, for 1/2+square

Catalog Number CI SS

1 - 1/4" FLANGE SHOE

For 1 - 1/4+square tubing

Catalog Number CI RR

CAST IRON COLLARS

1/2" BALUSTER COLLAR. FITS OVER 1/2" SQUARE

1 - 3/4+Wide x 2+High

Catalog Number CI 68312

5/8" BALUSTER COLLAR. FITS OVER 5/8" SQUARE

2+Wide x 2+High

Catalog Number CI 68358

3/4" BALUSTER COLLAR. FITS OVER 3/4" SQUARE

2+Wide x 2+High

Catalog Number CI 68334

1" BALUSTER COLLAR. FITS OVER 1" SQUARE

2+Wide x 2+High

Catalog Number CI 68310

PLASTIC TUBING PLUGS AND PRESSED STEEL POST CAPS

PLASTIC TUBING PLUGS

- High grade plastic
- Black finish
- Provides a clean finish to tubing ends
- Protects against injury from sharp tubing edges
- Keeps dirt and moisture out from inside tubing

Catalog Number	Size	Gauge
PP 12	1/2+x 1/2+	16
PP 34	3/4+x 3/4+	16
PP 116	1+x 1+	16
PP 11416	1 - 1/4+x 1 - 1/4+	16
PP 11216	1 - 1/2+x 1 - 1/2+	16
PP 11211	1 - 1/2+x 1 - 1/2+	11
PP 216	2+x 2+	16
PP 211	2+x 2+	11
PP 2116	2+x 1+	16

PRESSED STEEL POST CAPS for Square Tubing

- **No welding necessary – cap fits tight**

Catalog Number	For these sizes of Tubing Post
SC 112	1 - 1/2+
SC 2	2+
SC 212	2 - 1/2+
SC 3	3+
SC 4	4+