HANDRAIL COMPONENTS

COPED/DRIVE-ON PIPE WELDING CONNECTORS

A - For Level Railing
B - For Level Railing
C - For Level Railing
D & E - For Bevel Railing
H - For Level Railing, Extra Heavy Pipe

Sizes: 1-1/4", 1-1/2" and 2"
Material: Aluminum, Steel, Stainless Steel

SPLICE LOCK CONNECTORS

Unique field connector for final railing assembly. For use with both round pipe and O.D. tubing and square tube. Internal expansion easily performed by set screw. Clean, smooth railing connection is made without welding or threading.

Available for Most Pipe and Tubing Sizes
Material: Steel, Aluminum, Stainless Steel
Splice Locks Either 3 3/4" or 6" Long
Insert Coupling

ALUMINUM AND STAINLESS STEEL EXTRUDED HANDRAIL BRACKETS

Square Base
Round Base
Round Top
2-1/2" or 3" Projection to center of rail

CAST HANDRAIL WALL BRACKETS

Cast Handrail Bracket
Flat or Round Tops
Light Weight Cast Handrail Bracket
Flat or Round Tops

Material: Malleable, Aluminum, Stainless Steel, Brass, Bronze

HANDRAIL & GRAB RAIL WALL BRACKETS AND FILLERS

Material: Steel, Stainless Steel, Brass, Bronze
Can Be Furnished with 1-1/2" Clear to Wall per ADA Code on Request.

BAR STYLE HANDRAIL BRACKET

Material: Malleable, Aluminum, Brass, Bronze

SQUARE TUBE SOCKET FLANGES

Square: 1", 1-1/4" and 1-1/2"

A - Plain Flange w/4 Corner Holes
B - Anchor Plate w/4 Corner Holes and 4 Holes

Material: Steel, Aluminum, Stainless Steel

1/4" FORMED HANDRAIL BRACKETS

Bracket With Concealing Cover
Filler
Round Top
Flat Top
Square Style

Available With: 1, 2 or 3 Mounting Holes
Material: Steel, Stainless Steel, Aluminum, Brass, Bronze
Sized to Meet ADA Specifications

WEDGE-LOCK WELDING CONNECTORS

Unique welding connector accurately holds flush weld fittings and railing together with 1/8" gap for welded assemblies. Drive in wedge expands connector to hold all flush weld tees, elbows and caps while assembling railing. Use with pipe and O.D. tubing sizes.

Sizes:
Pipe: 3/4", 1", 1-1/4", 1-1/2" and 2"
O.D. Tube: 1", 1-1/4", 1-1/2" and 2"
Material: Steel, Aluminum, Stainless Steel

A SMALL SAMPLING OF OUR MANY STOCK ITEMS - ASK YOUR DIRECT METALS SALESPERSON FOR MORE COMPLETE LITERATURE.

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800.711.4939
**HANDRAIL COMPONENTS**

**CAST BRACKETS**

Typical Filler Use

- **Style U Cast Bracket with one 3/8” tapped hole**
  - Universal saddle fits most round and flat materials.
  - Countersunk for 1/4” Screws

- **Cast Bracket Round Saddle with one 7/16” hole**
  - Clear hole for 3/8” mounting Bolt

- **Cast Bracket Flat Saddle with one 7/16” hole**
  - Clear hole for 3/8” mounting Bolt

<table>
<thead>
<tr>
<th>Material</th>
<th>Diameter</th>
<th>Malleable Iron</th>
<th>Satin Aluminum</th>
<th>Satin Anodized Aluminum</th>
<th>Satin Stainless</th>
<th>Satin Bronze</th>
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</thead>
<tbody>
<tr>
<td>2-1/2”</td>
<td>1-1/4”</td>
<td>1701-2</td>
<td>1715-2</td>
<td>1715-2AN</td>
<td>1729-2</td>
<td>1740-2</td>
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<tr>
<td>3”</td>
<td>1-1/2”</td>
<td>1701</td>
<td>1715</td>
<td>1715AN</td>
<td>1729</td>
<td>1740</td>
</tr>
</tbody>
</table>

**EXTRUDED HANDRAIL BRACKETS**

New extruded handrail bracket meets codes requiring a 1-1/2” minimum clearance between the handrail and the wall and the underside of the handrail and horizontal bracket arm.

**FILLERS**

For use with one hole or three hole Style U brackets only.

- **1721 Filler** has 7/16” diameter center hole for use in plaster.
- **1722 Filler** has one 7/16” diameter center hole and three tapped holes with matching 1/4” x 3/8” round head screws. For use with 5/8” drywall.

**STYLE F FILLER**

Use with traditional cast brackets shown above. 1-5/8” diameter x 7/8” deep with one 7/16” hole.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8”</td>
<td>3545B</td>
</tr>
<tr>
<td>7/8”</td>
<td>3545</td>
</tr>
</tbody>
</table>
These components provide the necessary elements to fabricate brackets for your unique requirements. Weld the bracket arm directly to your post or attach to a bracket base to make a wall mount handrail bracket. Trim the bracket arm as needed to match your projection requirements.

**BRACKET BASE**

3” diameter x 1/4” thick

Available mill finish with or without holes. Custom hole sizes, configurations and finishes are available upon request.

<table>
<thead>
<tr>
<th>Hole Size</th>
<th>Steel</th>
<th>5052</th>
<th>305</th>
<th>304</th>
<th>Stainless</th>
<th>C26000</th>
<th>C28000</th>
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</thead>
<tbody>
<tr>
<td>No Hole</td>
<td>D143</td>
<td>D144</td>
<td>D145</td>
<td>D146</td>
<td>D146M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/8”</td>
<td>D143C5</td>
<td>D144C5</td>
<td>D145C6</td>
<td>D146C5</td>
<td>D146MC5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8”</td>
<td>D143C6</td>
<td>D144C6</td>
<td>D145C6</td>
<td>D146C6</td>
<td>D146MC6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4”</td>
<td>D143C7</td>
<td>D144C7</td>
<td>D145C7</td>
<td>D146C7</td>
<td>D146MC7</td>
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<td></td>
</tr>
</tbody>
</table>

**BRACKET ARM**

Inside Radius = Bar Diameter x 1.50”

Ends untrimmed with no holes. Mill finish.

<table>
<thead>
<tr>
<th>Bar Dia.</th>
<th>Steel</th>
<th>6063</th>
<th>304</th>
<th>304</th>
<th>Stainless</th>
<th>C36000</th>
<th>C38500</th>
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</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>R110</td>
<td>R240</td>
<td>R120</td>
<td>R130</td>
<td>R210</td>
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<td></td>
</tr>
<tr>
<td>5/8”</td>
<td>R140</td>
<td>R250</td>
<td>R150</td>
<td>R160</td>
<td>R220</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4”</td>
<td>R170</td>
<td>R260</td>
<td>R180</td>
<td>R190</td>
<td>R230</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BRACKET SADDLE**

2-1/2” long x 1” wide x 12 ga.

With two 1/4” holes and one 3/8” center hole for 1.50” to 2.00” OD. Mill finish.

<table>
<thead>
<tr>
<th>Steel</th>
<th>3003</th>
<th>304</th>
<th>Stainless</th>
<th>C26000</th>
<th>C28000</th>
</tr>
</thead>
<tbody>
<tr>
<td>S101</td>
<td>S102</td>
<td>S103</td>
<td>S104</td>
<td>S105</td>
<td></td>
</tr>
</tbody>
</table>

**BAR BRACKET SYSTEM**

The components on this page can be provided pre-assembled and finished to your specifications. Custom designs are also available.

**COPED DRIVE-ON CONNECTORS**

90° TEE CONNECTOR - TYPE A

Unique drive-on and weld design eliminates pipe coping and saves time spent on cutting and alignment. Mill finish.

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Tube OD (in)</th>
<th>Sch. 40 Steel</th>
<th>Sch. 40 Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/4”</td>
<td>1.660”</td>
<td>1822</td>
<td>1823</td>
</tr>
<tr>
<td>1-1/2”</td>
<td>1.900”</td>
<td>1834</td>
<td>1835</td>
</tr>
</tbody>
</table>

**FLUSH WELDING TEES, ELBOWS & CROSSES**

90° ELBOW

Wall thickness is compatible with schedule 40 pipe. May be used with wedge-lock connectors shown here. Mill finish. Others available upon request.

**WEDGE-LOCK™ WELDING CONNECTORS**

For pipe and round tubing. Wagner’s original, patented connector simplifies alignment prior to welding. Wedge-Locks™ will take more than 100# of tension.

**INSERT COUPLING**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Tube OD</th>
<th>a (in)</th>
<th>14 Ga. Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/4”</td>
<td>1.66”</td>
<td>5”</td>
<td>1220</td>
</tr>
<tr>
<td>1-1/2”</td>
<td>1.90”</td>
<td>5”</td>
<td>1222</td>
</tr>
</tbody>
</table>

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