#12 irius® SX3 Bi-Met 300®
Metal to Metal / Facade Attachment

Features and Benefits
• Corrosion resistant 304 series stainless
• irius® low profile head for aesthetic installed appearance
• Precision cold forged carbon steel point assures point strength and fast drilling performance through high strength steel and nested purlins
• Available with no sealing washer or stainless bond seal washer
• Color matched Vista spray available

Application
• Light and medium gauge metal connections
• Dissimilar metal connections
• Facade panel to metal

Product Selection

<table>
<thead>
<tr>
<th>Material No.</th>
<th>Fastener Length</th>
<th>Load Bearing Length</th>
<th>Description</th>
<th>Carton Wt. (lbs.)</th>
<th>Carton Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1399025</td>
<td>1-1/4”</td>
<td>32</td>
<td>SX3/15-L12-S12-5,5x32</td>
<td>3</td>
<td>250</td>
</tr>
</tbody>
</table>

Dimensions in inches are approximate conversions.

The details stated are results of tests and/or calculations and therefore are non-binding and do not represent guarantees or warranted characteristics for not specified applications. All calculations therefore have to be checked and approved by the responsible planner ahead of execution. The user is responsible to assure compliance with all applicable laws and regulations.
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**Product Specifications**

- **Diameter:** Nominal #12 (5.3 mm)
- **Threads Per Inch:** 11
- **Head Style:** 0.472" irius® head (12.0 mm)
- **Washer:** 15/32" stainless and EPDM bond seal (12 mm)

- **Drive:** E420 irius®
- **Drill Point:** SD2
- **Drill Capacity:** 0.060"–0.118" (1.5 mm–3.0 mm)
- **Thread Major Dia:** 0.209" (5.3 mm)
- **Thread Minor Dia:** 0.161" (4.1 mm)

**Performance Data**

<table>
<thead>
<tr>
<th>Material Strength</th>
<th>Pull Out Strength Steel</th>
<th>Pull Out Strength Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile</td>
<td>2442 lbf / 10863 N</td>
<td>2.2 mm L or T Rail (0.087&quot;)*</td>
</tr>
<tr>
<td>Shear</td>
<td>1620 lbf / 7206 N</td>
<td>2.4 mm Omega or Zed Rail (0.094&quot;)*</td>
</tr>
<tr>
<td>Torsional</td>
<td>80 lbf-in / 9.04 N-m</td>
<td>2.5 mm L or T Rail (0.098&quot;)*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/8&quot; 6063-T5 (3.2 mm)</td>
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* SFS 5473.17
*Values are only valid for aluminum rails supplied by SFS

**Installation and Application Considerations**

- Fasteners should provide for a minimum of 3 fully developed threads through the metal substrates.

- Tools: 0–2000 rpm screw gun equipped with depth sensing nose piece.

- The E420 irius® drive socket (part # 973316) is required.

- Use of impact guns or hammer drills is not recommended.

**How to use the E420 socket for irius® fasteners**

- a) Pull out the jaws of the socket
- b) Insert the irius® (L12) head style fastener
- c) Setting process
- d) Pull back tool to open socket chaws

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