SX 316 Stainless Steel
Bi-metal self-drill fasteners for high corrosive environments
Life expectancy of the fastening elements need to be equal to or longer than the life expectancy of the facility.

The specification of the fastener, despite being such a small component, is critical to the performance of a building's life cycle. Corrosion resistance of the fastener and the building's environment are two major performance criteria that need to be addressed at early detail design of the project to enable the completed roof or building envelope to perform its required function throughout the full term of the system's intended service and design life.

Typical high-corrosive environments:

- **Marine**: up to 1.25 miles; high levels of chlorides
- **Coastal**: between 1.25 miles and 6 miles from the sea. Sea fogs or mists might linger within several miles of coasts. Particular consideration should be given to wind-blown salt atmosphere and how far inland this will impact the design specification
- **Industrial**: Atmosphere heavily polluted by sulphur dioxide and other pollutants, typically nitric oxides, chlorine, hydrogen chloride, formic acid, acetic acid all in the vicinity of corresponding industrial plants
- **Urban**: Densely populated and polluted by sulphur dioxide; also properties adjoining busy motorway junctions or elevated sections which can be exposed to road salt spray in winter

**316 Stainless Steel provides the maximum corrosion resistance and should be used:**

- To achieve maximum building life cycles
- In re-roofing applications
- When permanent relative humidity is more than 70%
- In coastal, marine, urban and industrial environments
- For sufficient protection of goods, equipment, structures of high value and the protection of human life

**Selection**

SFS intec fastener solutions for high corrosive environments - 316 Stainless Steel Bi-metal Self-drill Fastener

<table>
<thead>
<tr>
<th>Material No.</th>
<th>Description</th>
<th>Code</th>
<th>Drill Capacity</th>
<th>Max Material Attachment</th>
<th>Carton Quantity</th>
<th>Carton Weight</th>
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</thead>
<tbody>
<tr>
<td>SX3 - 316 SS Bi-metal Self-drill with stainless bondSeal washer, 5/16” AF HWH</td>
<td>SX3/9-S16-6X29-A4</td>
<td>.035-.098”</td>
<td>500</td>
<td>7.7</td>
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<tr>
<td>SX5 - 316 SS Bi-metal Self-drill with stainless bondSeal washer, 5/16” AF HWH</td>
<td>SX5/8-S16-5,5X31-A4</td>
<td>.060-.157”</td>
<td>500</td>
<td>8.2</td>
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<tr>
<td>SX5-L12 irius® - 316 SS Bi-metal Self-drill with stainless bondSeal washer</td>
<td>SX5/12-L12-S16-5,5X35-A4</td>
<td>.060-.157”</td>
<td>500</td>
<td>7.3</td>
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<tr>
<td>SX5-D12 TORX® T25 - 316 SS Bi-metal Self-drill with stainless bondSeal washer</td>
<td>SX5/12-D12-S16-5,5X35-A4</td>
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<td>6.4</td>
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<td>SX14 - 316 SS Bi-metal Self-drill with stainless bondSeal washer, 5/16” AF HWH</td>
<td>SX14/12-S16-5,5X40-A4</td>
<td>.157-.550”</td>
<td>500</td>
<td>9.2</td>
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</tbody>
</table>

**Technical advice and sales service**

SFS intec, Inc. 800 234 4533  
Division Construction T +1 610 376 5751  
1045 Spring Street F +1 610 376 8551  
PO Box 6326 us.construction@sfsintec.biz  
US-Wyomissing, PA 19610 www.sfsintecusa.com

SFS intec, Inc. - Canada  
40 Innovation Drive T +1 905 689 5401  
Dundas, ON L9H 7P3 ca.info@sfsintec.biz  
www.sfsintec.ca

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