

**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



Material No.	Description	Code	Drill Capacity	Max Material Attachment	Carton Quantity	Carton Weight
SX3 - 316 SS Bi-metal Self-drill with stainless bondSeal washer, 5/16" AF HWH						
1183164	14-11 x 1-1/8"	SX3/9-S16-6X29-A4	.035-.098"	.354"	500	7.7
SX5 - 316 SS Bi-metal Self-drill with stainless bondSeal washer, 5/16" AF HWH						
1183165	12-14 x 1-1/4"	SX5/8-S16-5,5X31-A4	.060-.157"	.314"	500	8.2
SX5-L12 irius® - 316 SS Bi-metal Self-drill with stainless bondSeal washer						
1256219	12-14 x 1-1/2"	SX5/12-L12-S16-5,5X35-A4	.060-.157"	.472"	500	7.3
SX5-D12 TORX® T25 - 316 SS Bi-metal Self-drill with stainless bondSeal washer						
1247116	12-14 x 1-1/2"	SX5/12-D12-S16-5,5X35-A4	.060-.157"	.472"	500	6.4
SX14 - 316 SS Bi-metal Self-drill with stainless bondSeal washer, 5/16" AF HWH						
1183162	12-14 x 1-9/16"	SX14/12-S16-5,5X40-A4	.157-.550"	.472"	500	9.2

**Technical advice and sales service**

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