

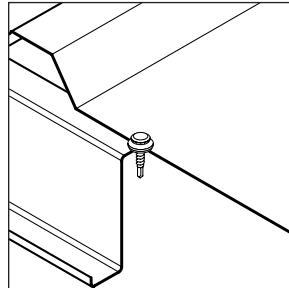


- 304 austenitic stainless steel fastener provides maximum corrosion resistance for attaching steel, stainless or aluminum panels.
- Attractive, low-profile design is ideal for design-conscious applications
- Self-drilling point design assures superior point strength and excellent drill performance through high strength steel
- Engineered to have low driving torque and provide maximum clamp load
- Fastening system drive socket ensures positive engagement and prevents damage to a painted fastener head.
- Available painted to match any panel

Application

SX 3-L12 irius Self-Drill 1/2" O.D Aluminum Bond Seal Metal to metal

Drill capacity: .035 – .098"



irus low profile and drive system
Dia: Nominal #14

Strength (ult.):

Tensile:	11282 N	(2535 lbs)
Torsional:	7.9 N-m	(70 in-lbs)
Shear:	8293 N	(1864 lbs)

Pull-out (ult.):

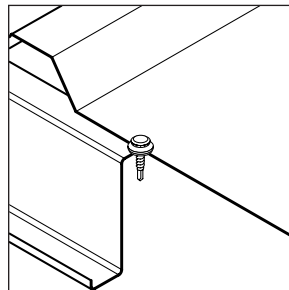
12 ga (.105):	8968 N	(2016 lbs)
14 ga (.075):	6553 N	(1473 lbs)
16 ga (.060):	4539 N	(1020 lbs)

Pull-over (ult.):

24 ga (.024):	5494 N	(1235 lbs)
26 ga (.018):	4165 N	(936 lbs)

SX 5-L12 irius Self-Drill 1/2" O.D Aluminum Bond Seal Metal to metal

Drill capacity: .060 – .157"



irus low profile and drive system
Dia: Nominal #12

Strength (ult.):

Tensile:	12203 N	(2743 lbs)
Torsional:	7.9 N-m	(70 in-lbs)
Shear:	9558 N	(2149 lbs)

Pull-out (ult.):

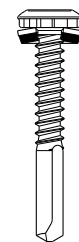
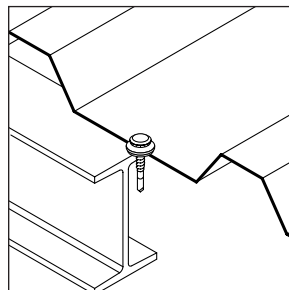
12 ga (.105):	5704 N	(1282 lbs)
14 ga (.075):	4037 N	(908 lbs)
16 ga (.060):	3128 N	(703 lbs)

Pull-over (ult.):

24 ga (.024):	6317 N	(1420 lbs)
26 ga (.018):	5077 N	(1141 lbs)

SX 14-L12 irius Self-Drill 5/8" O.D Stainless Bond Seal Metal to metal

Drill capacity: .157 – .550"



irus low profile and drive system
Dia: Nominal #12

Strength (ult.):

Tensile:	12385 N	(2784 lbs)
Torsional:	7.9 N-m	(70 in-lbs)
Shear:	9385 N	(2110 lbs)

Pull-out (ult.):

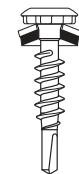
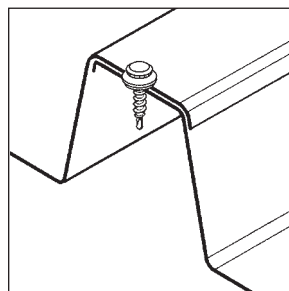
12 ga (.105):	5426 N	(1220 lbs)
3/16" (.187):	9747 N	(2191 lbs)
1/4" (.250):	Exceeds tensile value	

Pull-over (ult.):

24 ga (.024):	6317 N	(1420 lbs)
26 ga (.018):	5077 N	(1141 lbs)

SL2-S-L12 irius Free Spin Lap Self-Drill 1/2" or 5/8" O.D Stainless Bond Seal Metal to metal

Drill capacity: .031 – .079"



irus low profile and drive system
Dia: Nominal #12

Strength (ult.):

Tensile:	7420 N	(1670 lbs)
Torsional:	5.6 N-m	(50 in-lbs)
Shear:	6103 N	(1370 lbs)

Notes: Dimensions are nominal unless noted. The specific job conditions should be considered and appropriate safety factors applied when specifying the proper fasteners.

Selection

Description	Part No.	Global Code
SX3-L12 irius® with Bond Seal Washer		
14 x 1-1/8 SD	1142002	SX3/9-L12-A12-6X29
14 x 1-1/2 SD	1196328	SX3/15-L12-A12-6X40
SX3-L12 irius® No Washer		
14 x 1/1/8 SD	1142001	SX3/9-L12-6X29
14 x 1-1/2 SD	1142030	SX3/15-L12-6X40
SX5-L12 irius® with Bond Seal Washer		
12-14 x 1-1/4 SD	1134345	SX5/8-L12-A12-5,5X33
12-14 x 1-1/2 SD	1134359	SX5/12-L12-A12-5,5X37
12-14 x 1-5/8 SD	1135437	SX5/18-L12-A12-5,5X43
12-14 x 2-1/8 SD	1144693	SX5/20-30-L12-S16-5,5X54
SX5-L12 irius® No Washer		
12-14 x 1-1/4 SD	1134342	SX5/8-L12-5,5X33
12-14 x 1-1/2 SD	1134355	SX5/12-L12-5,5X37
12-14 x 1-5/8 SD	1135452	SX5/18-L12-5,5X43
12-14 x 2-1/8 SD	1241511	SX5/20-30-L12-5,5X54
SX14-L12 irius® with Bond Seal Washer		
12-14 x 1-9/16 SD	0776328	SX14/12-L12-S16-5,5X40
SX14-L12 irius® No Washer		
12-14 X 1-9/16 SD	0776332	SX14/12-L12-5,5X40
SL2-L12 irius® Free Spin Lap with Bond Seal Washer		
1/4-14 X 1 Lap SD 14mm SS Bond Seal	1135477	SL2-S-L12-S14-6,3X28
1/4-14 X 1 Lap SD 16mm SS Bond Seal	1147314	SL2-S-L12-S16-6,3X28



E420 irius drive socket

Installation

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

- The E420 irius drive socket (part #0973316) is required for installing irius SX Self-Drilling Fastener.
- Install fasteners with 0-2000 rpm screwdriver equipped with depth sensing nosepiece.