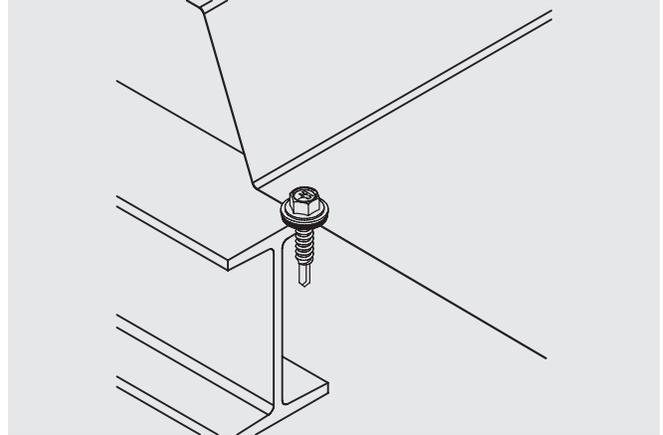# #12-24 Impax SD4.5 Metal to Metal Fastener

Features and Benefits

- Precision cold forged point assuring superior strength and the fastest drilling time performance
- Designed to have low driving and thread engagement torque and provide maximum clamp load
- Available with no sealing washer or with bond seal washer
- VistaCoat® premium coating system
- VistaCoat® limited warranty

Application

Metal panel to medium and heavy gauge metal application

Product Selection

Material No.	Fastener Length		Thread Length*	Load Bearing Length		Description	Carton Wt. (lbs.)	Carton Qty.
	(in)	(mm)		(in)	(mm)			
795491	1-1/4"	32	Full	0.53"	13	SD45-#12x1-1/4-HW5/16-GB19/32	40	2,500

Plain product bagged 250 pieces, unless otherwise noted.

*Note – Thread length measured from underneath head to end of fully developed threads.

Metric values are approximate conversions.

#12-24 Impax SD4.5 Metal to Metal Fastener
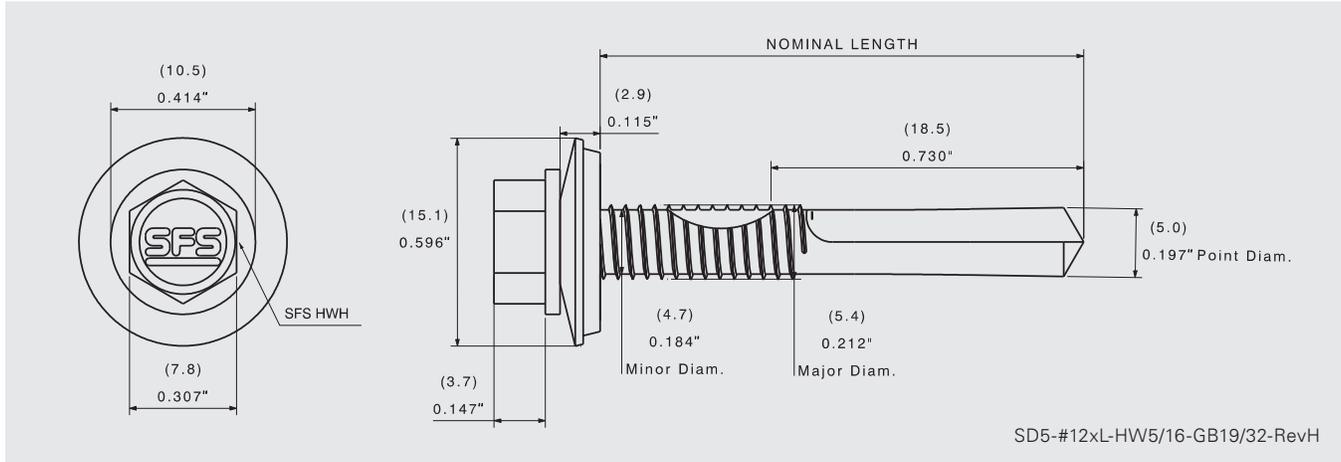
Product Specifications

Diameter:	#12 (5.4 mm)
Threads Per Inch:	24
Head Style:	5/16" dia. HWH AF (7.8 mm)
Washer:	19/32" galvanized and EPDM bond seal (15.1 mm)

Drill Point:	SD4.5
Drill Capacity:	0.075"–0.375" (1.91 mm–9.53 mm)
Thread Major Dia:	0.212" (5.4 mm)
Thread Minor Dia:	0.184" (4.7 mm)

Performance Data[1, 2, 3]

Material Strength

Tensile	3450 lbf / 15346 N
Shear	2420 lbf / 10765 N
Torsional	100 lbf·in / 11.30 N·m

Pull Out Strength Steel

	ICC protocol	SFS testing 56 ksi
12 Ga (2.7 mm)	1260 lbf[A] / 5604 N	1378 lbf / 6130 N
3/16" (4.7 mm)	2989 lbf[B] / 13295 N	Exceeds tensile
1/4" (6.4 mm)	Exceeds tensile	Exceeds tensile

Note A: 45 ksi. Note B: 58 ksi.

Pull Over Strength Steel

26 Ga (0.5 mm)	584 lbf / 2598 N
24 Ga (0.6 mm)	861 lbf / 3830 N
22 Ga (0.8 mm)	1049 lbf / 4666 N

[1] SFS [5509.18]
[2] STQA50573
[3] PLK 10303

Installation and Application Considerations

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

Use of impact guns or hammer drills is not recommended.

Fastener length should provide for a minimum of 3/16" penetration of fully developed threads into metal substrate.

Metric values are approximate conversions.