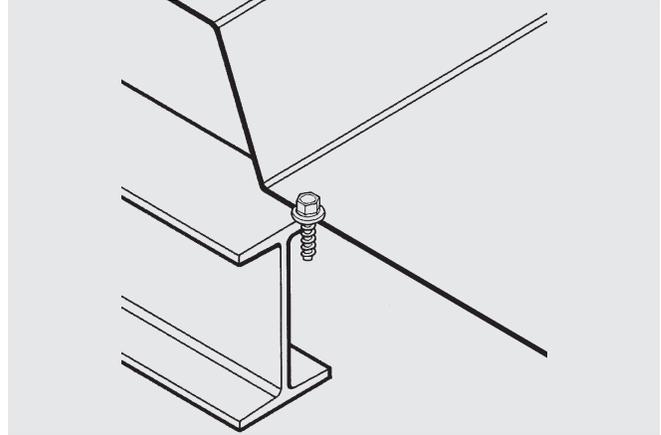


1/4-14 Type B 304SS Self-tapping Metal to Metal Fastener



Features and Benefits

- Zinc plated 304 stainless steel for lubricity
- Available with no sealing washer or with stainless bond seal washer
- Wax surface treatment for added lubricity
- Long lengths available for specialty applications

Application

Metal panel to medium and heavy gauge metal application for use in highly corrosive environments

Approvals



Product Selection

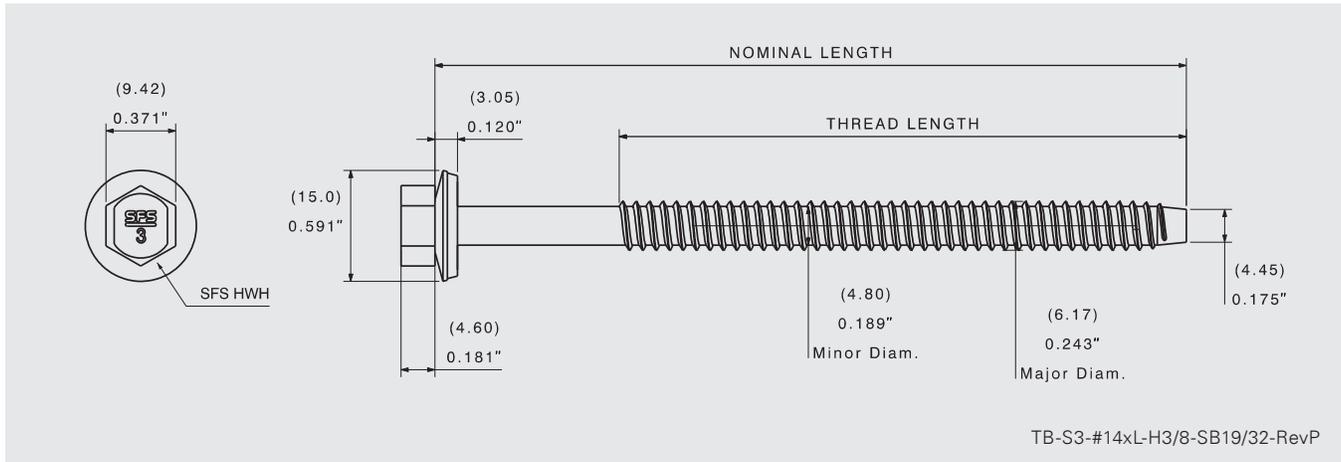
Material No.		Fastener Length		Thread Length*	Min Load Bearing Length		Max Load Bearing Length		Description	Ctn Wt. (lbs.)	Ctn Qty.	
No washer	W/washer	in	mm		in	mm	in	mm				
1305045	1297746	3/4"	19	Full	n/a	n/a	0.39"	10	TB-S3-#14x3/4-H3/8	SB19/32	39	2,500
1297772	1297754	1"	25	Full	n/a	n/a	0.64"	16	TB-S3-#14x1-H3/8	SB19/32	44	2,500
1297791	1297779	1-1/2"	38	Full	n/a	n/a	1.14"	29	TB-S3-#14x1-1/2-H3/8	SB19/32	44	2,000
1297805	1297799	2"	51	Full	n/a	n/a	1.64"	42	TB-S3-#14x2-H3/8	SB19/32	38	1,500
1297816	1297811	2-1/2"	64	Full	n/a	n/a	2.14"	54	TB-S3-#14x2-1/2-H3/8	SB19/32	45	1,000
1297825	1382358	3"	76	Full	n/a	n/a	2.64"	67	TB-S3-#14x3-H3/8	SB19/32	27	1,000
1297831	1297829	3-1/2"	89	3"	0.71"	18	3.14"	80	TB-S3-#14x3-1/2-H3/8	SB19/32	46	750
1297836	1297832	4"	102	3"	1.21"	31	3.64"	93	TB-S3-#14x4-H3/8	SB19/32	44	500
1487418	1771541	5"	127	3"	2.21"	56	4.64"	118	TB-S3-#14x5-H3/8	SB19/32	28	500
1638569	1297843	6"	152	3"	3.21"	82	5.64"	143	TB-S3-#14x6-H3/8	SB19/32	28	500

Plain product bulk carton packed.

*Note – Thread length measured from tip of point to top of the threads.



1/4-14 Type B 304SS Self-tapping Metal to Metal Fastener



Product Specifications

Diameter: 1/4" (6.17 mm)
 Threads Per Inch: 14
 Head Style: 3/8" dia. HH AF (9.42 mm)
 Washer: 19/32" stainless and EPDM bond seal (15 mm)

Drill Point: Type B
 Drill Capacity: 0.065"–0.500" (1.65 mm–12.7 mm)
 Thread Major Dia: 0.243" (6.17 mm)
 Thread Minor Dia: 0.189" (4.80 mm)

Performance Data^{1,2,3}

Material Strength

Tensile	3600 lbf / 16020 N
Shear	2330 lbf / 10369 N
Torsional	150 lbf·in / 17.0 N·m

Pull Out Strength Steel

16 Ga (1.5 mm)	699 lbf / 3109 N
14 Ga (1.9 mm)	1083 lbf / 4817 N
12 Ga (2.7 mm)	2119 lbf / 9425 N

Pull Over Strength Steel

26 Ga (0.5 mm)	648 lbf / 2882 N
24 Ga (0.6 mm)	908 lbf / 4038 N
22 Ga (0.8 mm)	1258 lbf / 5595 N

¹ Pull out values based on 45 ksi cold formed sheet steel.

² SFS [5008.13]

³ PLK 10803

Installation and Application Considerations

Tools: 0–1000 rpm screw gun equipped with depth sensing nose piece.

The hole size determines installation performance and pull out strength. Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total.

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.

Metal thickness	Drill bit size
0.065"–0.085" (1.65 mm–2.16 mm)	#8 (5.05 mm)
0.085"–0.115" (2.16 mm–2.92 mm)	#7 (5.11 mm)
0.115"–0.375" (2.92 mm–9.53 mm)	#1 (5.79 mm)
0.375"–0.500" (9.53 mm–12.7 mm)	#1 or larger depending on hardness of steel