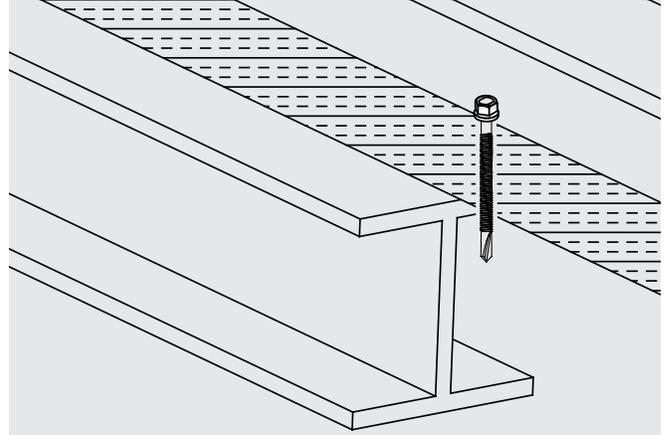


# 1/4-20 Impax SD5 Metal to Metal Fastener



## 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
- Corrosion resistant coating system

## Application

Insulated metal panel to medium and heavy gauge metal application

## Product Selection

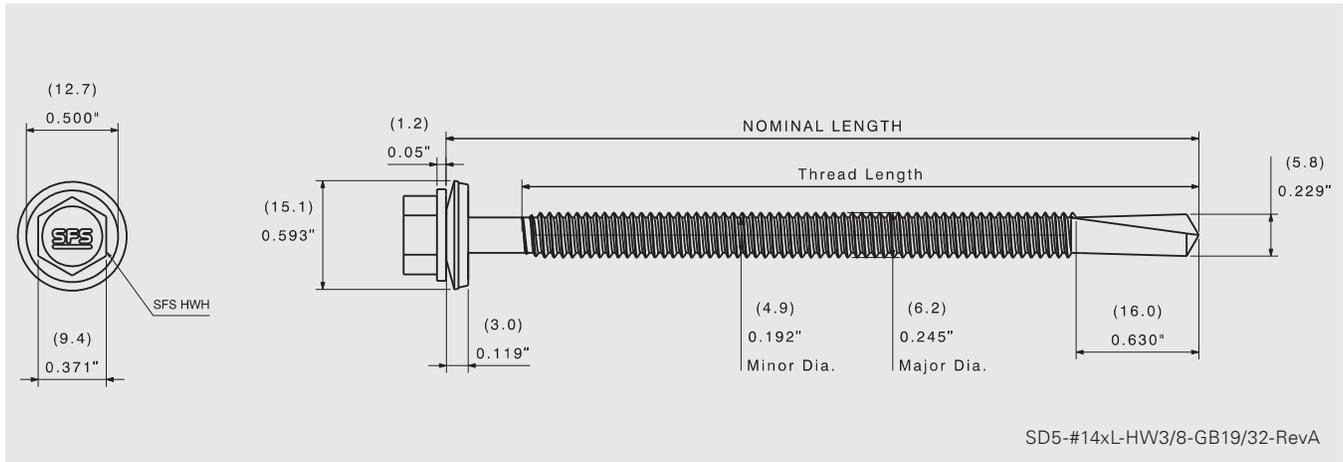
Material No.	Fastener Length		Thread Length*	Min Load Bearing Length		Max Load Bearing Length		Description	Carton Wt. (lbs.)	Carton Qty.
	(in)	(mm)		(in)	(mm)	(in)	(mm)			
1356420	3"	76	Full	0.15"	4	2.22"	56	SD5-#14x3-HW3/8-GB19/32	38	1,000
1356421	4"	102	Full	0.15"	4	3.22"	82	SD5-#14x4-HW3/8-GB19/32	24	500
1356422	5"	127	3.63"	0.89"	23	4.22"	107	SD5-#14x5-HW3/8-GB19/32	29	500
1356423	6"	152	3.63"	1.89"	48	5.22"	133	SD5-#14x6-HW3/8-GB19/32	36	500
1356424	7"	178	3.63"	2.89"	73	6.22"	158	SD5-#14x7-HW3/8-GB19/32	20	250
1356425	8"	203	3.63"	3.89"	99	7.22"	184	SD5-#14x8-HW3/8-GB19/32	23	250

Plain product bulk carton packed.

\*Note – Thread length measured from end of pilot length to end of the threads.



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## Product Specifications

Diameter: 1/4" (6.2 mm)  
 Threads Per Inch: 20  
 Head Style: 3/8" dia. HWH AF (9.4 mm)  
 Washer: 19/32" galvanized and EPDM bond seal (15.1 mm)

Drill Point: SD5  
 Drill Capacity: 0.105"–0.500" (2.7 mm–12.7 mm)  
 Thread Major Dia: 0.245" (6.2 mm)  
 Thread Minor Dia: 0.192" (4.9 mm)

## Performance Data<sup>1,2,3</sup>

### Material Strength

Tensile	4200 lbf / 18683 N
Shear	2920 lbf / 12989 N
Torsional	156 lbf-in / 17.63 N-m

### Pull Out Strength Steel

	ICC protocol	SFS testing 56 ksi
<b>12 Ga (2.7 mm)</b>	1133 lbf <sup>A</sup> / 5039 N	1532 lbf / 6815 N
<b>1/4" (6.3 mm)</b>	Exceeds tensile <sup>B</sup>	Exceeds tensile
<b>3/8" (9.5 mm)</b>	Exceeds tensile <sup>B</sup>	Exceeds tensile
<b>1/2 (12.7 mm)</b>	Exceeds tensile <sup>B</sup>	Exceeds tensile

### Pull Over Strength Steel

<b>26 Ga (0.5 mm)</b>	629 lbf / 2728 N
<b>24 Ga (0.6 mm)</b>	988 lbf / 4395 N
<b>22 Ga (0.8 mm)</b>	1117 lbf / 4969 N

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

<sup>1</sup> SFS [5509.18, 5006.13]

<sup>2</sup> STQA50573

<sup>3</sup> PLK 17312

## Installation and Application Considerations

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

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

**Use of impact guns or hammer drills is not recommended.**