Impax[™] – 1/4" Drill Screws

1/4-14 and 1/4-20 Impax self-drill For metal to metal

- Precision cold forged assuring superior point strength and the fastest drilling time performance through high strength steel and nested purlins.
- Impax #2 point is designed with a reduced drill point diameter to provide higher pullout in single purlin attachment.
- Delivers ultimate performance in medium and heavy gage applications.
- Designed and engineered to have low driving and thread engagement torque and provide maximum clamp load.
- Corrosion resistant coating system.
- Designed for insulated metal panel application

Application

1/4-14 Impax SD2 & SD3

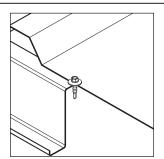
Assembled bondSeal Metal to metal

Drilling capacity: #2 point: .050 - .150" #3 point: .050 - .210"

Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total.

Min projection: 3/16" of threads

below substrate





#2 – 5/16" AF Hex Washer Head #3 – 3/8" AF Hex Washer Head Thread Major Dia: .246 – .240 Thread Minor Dia: .192 – .185

Strength (lbs ult.):

Tensile: 3800 Torsional: 150 in-lbs Shear: 2850

#2 Point Pull-out (lbs ult.):

12 ga (.105): 2088 14 ga (.075): 1312 16 ga (.060): 903

#3 Point Pull-out (lbs ult.):

12 ga (.105): 1697 14 ga (.075): 1151 16 ga (.060): 687

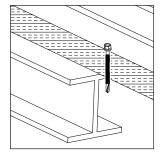
Pull-over with Bond Seal (lbs ult.):

22 ga (.030): 1079 24 ga (.024): 884 26 ga (.018): 616

1/4-20 Impax SD5 Assembled bondSeal Metal to metal

Drilling capacity: .105 – .500" Thickness is based on normal, single thickness girt or multiple material thickness combined for total

Min projection: 3/16" of threads below substrate





3/8" AF Hex Washer Head Thread Major Dia: .249 – .241 Thread Minor Dia: .200 – .184

Strength (lbs ult.):

Tensile: 4200 Torsional: 156 in-lbs Shear: 2920

Pull-out (lbs ult.):

12 ga (.105): 1532

1/4" (.250): Exceeds tensile value 3/8" (.375): Exceeds tensile value 1/2" (.500): Exceeds tensile value

Pull-over with Bond Seal (lbs ult.):

22 ga (.030): 1117 24 ga (.024): 988 26 ga (.018): 629

Test values obtained from lab report

#5006.13

Notes

Dimensions are nominal inches unless noted. Self-drill pull-out values (pounds ultimate) are based on 57,000 psi hot rolled steel material. Ultimate values listed are the result of laboratory testing. The specific job conditions should be considered and appropriate safety factors applied when specifying the proper fasteners.

 $Impax^{m} - 1/4$ " Drill Screws

1/4-14 and 1/4-20 Impax self-drill

Selection		Example Code				
		SD5-	#14x	3-	HW3/8-	GB19/32
Description	Available Lengths (L)	Туре	Diameter	Length	Head Style	Washer
1/4-20 Impax SD5 bondSeal	3", 4", 5", 6", 7", 8"	SD5-	#14x	L-	HW3/8-	GB19/32
1/4-20 Impax SD5 No Washer	3", 4", 5", 6", 7", 8"	SD5-	#14x	L-	HW3/8-	_
1/4-14 Impax SD3 bondSeal	3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"	SD3-	#14x	L-	HW3/8-	GB19/32
1/4-14 Impax SD3 No Washer	3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"	SD3-	#14x	L-	HW3/8-	-
1/4-14 Impax SD2, 5/16" HWH bondSeal	1-1/4", 1-1/2"	SD2-	#14x	L-	HW5/16-	GB19/32
1/4-14 Impax SD2, 5/16" HWH No Washer	1-1/4", 1-1/2"	SD2-	#14x	L-	HW5/16-	_
1/4-14 Impax SD2, 3/8" HWH bondSeal	1"	SD2-	#14x	L-	HW3/8-	GB19/32
1/4-14 Impax SD2, 3/8" HWH No Washer	1"	SD2-	#14x	L-	HW3/8-	_

Installation

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

Use of impact guns or hammer drills is not recommended.

Options

Painted

