

Impax™ — Heavy Metal Thickness — Structural Drill Screws

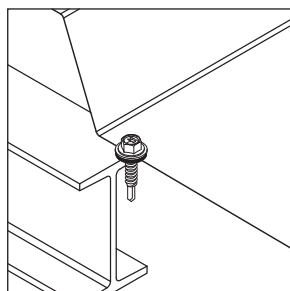
12-24 Impax 4.5 and 5 self-drill
For metal to metal

- Precision cold forged assuring superior point strength and the fastest drilling time performance through high strength steel and nested purlins.
- 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.

Application

12-24 Impax SD4.5 Assembled bondSeal Metal to metal

Drilling capacity: .075 – .375"
Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total.
Full Diameter Thread length: 12-24 x 1-1/4": .520
Min projection: 3/16" of threads below substrate

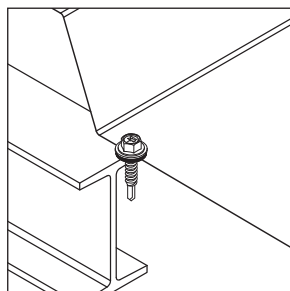


5/16" AF Hex Washer Head
Thread Major Dia: .216 – .210
Thread Minor Dia: .186 – .181

Strength (lbs ult.):
Tensile: 3450
Torsional: 100 in-lbs
Shear: 2420
Pull-out (lbs ult.):
12 ga (.105): 1378
3/16" (.187): Exceeds tensile value
1/4" (.250): Exceeds tensile value
Pull-over with Bond Seal (lbs ult.):
22 ga (.030): 1049
24 ga (.024): 861
26 ga (.018): 584

12-24 Impax SD5 Assembled bondSeal Metal to metal

Drilling capacity: .075 – .500"
Thickness is based on normal, single thickness purlin/girt or multiple material thickness.
Full Diameter Thread length: 12-24 x 1-1/4": .520
12-24 x 1-1/2": .770
12-24 x 2": 1.020
Min projection: 3/16" of threads below substrate



5/16" AF Hex Washer Head
Thread Major Dia: .216 – .210
Thread Minor Dia: .186 – .181

Strength (lbs ult.):
Tensile: 3450
Torsional: 100 in-lbs
Shear: 2420
Pull-out (lbs ult.):
12 ga (.105): 1378
3/16" (.187): Exceeds tensile value
1/4" (.250): Exceeds tensile value
Pull-over with Bond Seal (lbs ult.):
22 ga (.030): 1049
24 ga (.024): 861
26 ga (.018): 584

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.

Selection

Description	Available Lengths (L)	Example Code				
		SD5	#12x	1-1/2-	HW5/16-	GB19/32
Description	Available Lengths (L)	Type	Diameter	Length	Head Style	Washer
#12-24 Impax SD4.5 bondSeal	1-1/4"	SD45-	#12x	L-	HW5/16-	GB19/32
#12-24 Impax SD4.5 No Washer	1-1/4"	SD45-	#12x	L-	HW5/16-	–
#12-24 Impax SD5 bondSeal	1-1/4", 1-1/2", 2"	SD5-	#12x	L-	HW5/16-	GB19/32
#12-24 Impax SD5 No Washer	1-1/4", 1-1/2", 2"	SD5-	#12x	L-	HW5/16-	–

Installation

Tools: 0 – 2000 rpm screw gun equipped with depth sensing nose piece.
Use of impact guns or hammer drills is not recommended.

Painted

