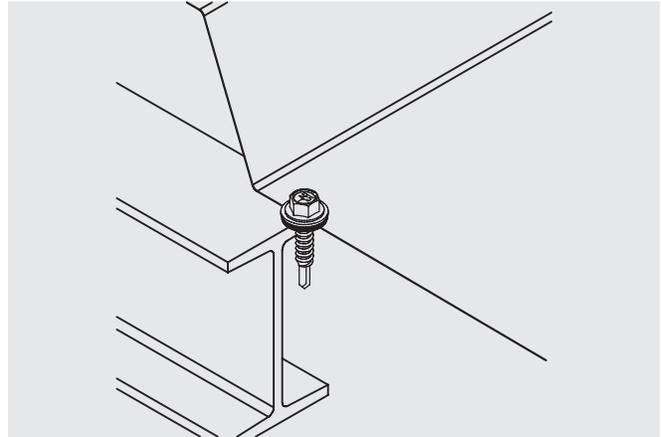


#12-24 ZAC[®] Impax SD4.5 & SD5 Metal to Metal Fastener



Features and Benefits

- Zinc alloy cap head that will never red rust
- Precision cold forged assuring superior strength and the fastest drilling time performance
- Designed to have low driving and thread engagement torque and provide maximum clamp load
- Special long pilot lengths to accommodate nested purlins
- Assembled EPDM sealing washer for a consistent weather tight seal
- Long life fastener limited warranty

Application

Metal panel and insulated metal panel to medium and heavy gauge metal application

Product Selection

Self-Drill 4.5

Material No.	Fastener Length		Thread Length*	Load Bearing Length		Description	Carton Wt. (lbs.)	Carton Qty.
	(in)	(mm)		(in)	(mm)			
795668	1-1/4"	32	0.52"	0.40"	10	ZSD45-#12x1-1/4-CHW3/8-N	49	2,000

Self-Drill 5

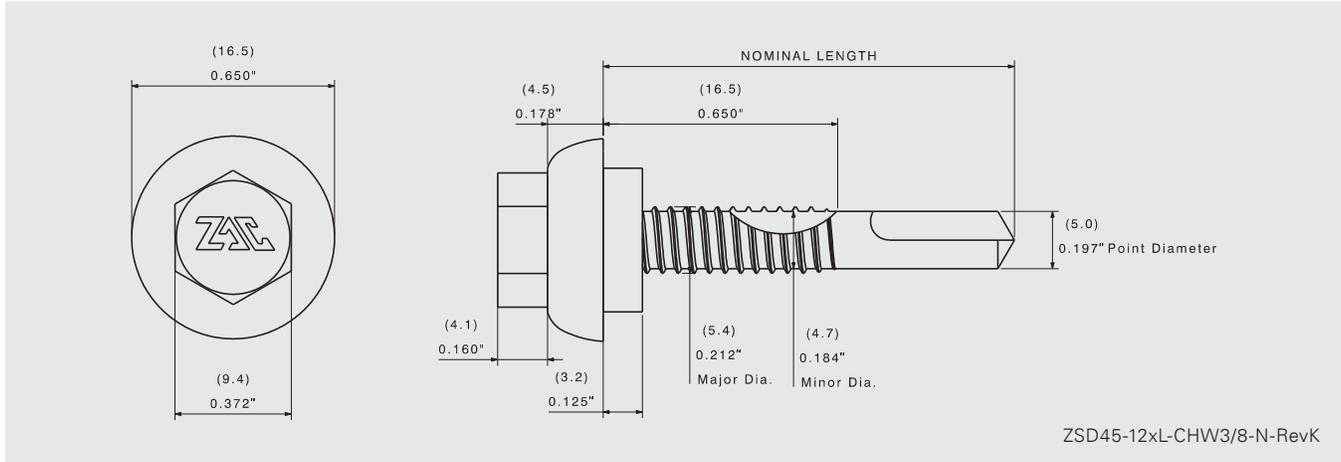
Material No.	Fastener Length		Thread Length*	Load Bearing Length		Description	Carton Wt. (lbs.)	Carton Qty.
	(in)	(mm)		(in)	(mm)			
795842	1-1/4"	32	0.52"	0.40"	10	ZSD5-#12x1-1/4-CHW3/8-N	40	1,500
796622	1-1/2"	38	0.77"	0.65"	16	ZSD5-#12x1-1/2-CHW3/8-N	42	1,500

Plain product bagged 250 pieces, unless otherwise noted.

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



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Product Specifications

Diameter: #12 (5.4 mm)

Threads Per Inch: 24

Head Style: 3/8" dia. Zinc aluminum capped HWH

Washer: AF (9.4 mm)

Washer: EPDM sealing washer

Drill Point: SD4.5 or SD5

Drill Capacity SD4.5: 0.075"–0.375" (1.91–9.5 mm)

SD5: 0.075–0.500" (1.91–12.7 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 ^B	Exceeds tensile

Pull Over Strength Steel

26 Ga (0.5 mm)	794 lbf / 3532 N
24 Ga (0.6 mm)	1310 lbf / 5827 N
22 Ga (0.8 mm)	1647 lbf / 7326 N

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

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.

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.