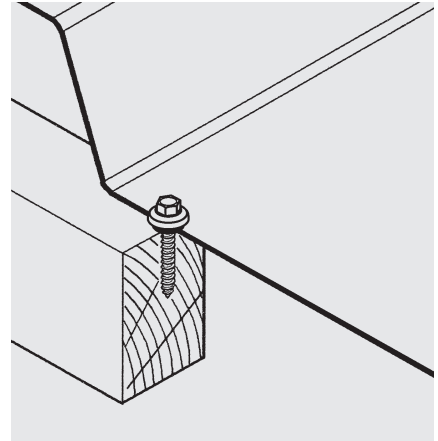
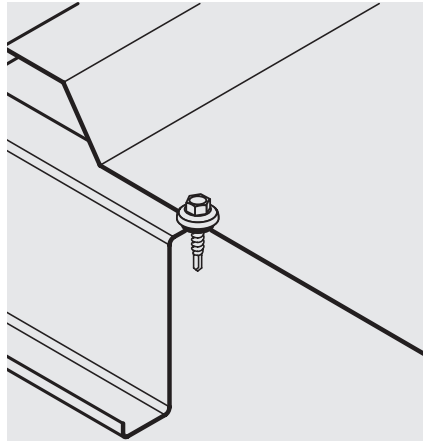


1/4-14 ZAC[®] Type AB Self-Tapping Metal to Wood or Metal Fastener



Features and Benefits

- Zinc alloy cap head that will never red rust
- Assembled EPDM sealing washer for a consistent weather tight seal
- Long life fastener limited warranty

Application

Metal panel to medium metal applications or metal panel to wood applications

Product Selection

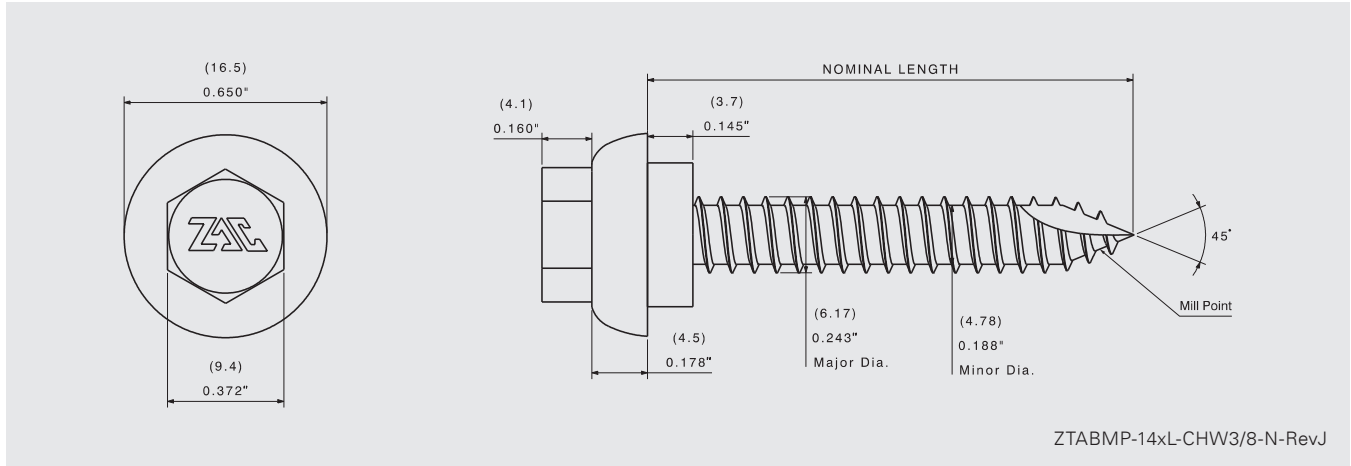
Material No.	Fastener Length		Thread Length*	Metal to Metal Load Bearing Length		Description	Carton Wt. (lbs.)	Carton Qty.
	(in)	(mm)		(in)	(mm)			
784403	1"	25	Full	0.57"	15	ZTABMP-#14x1-CHW3/8-N	44	2,000
784552	1-1/2"	38	Full	1.07"	27	ZTABMP-#14x1-1/2-CHW3/8-N	42	1,500
784691	2"	51	Full	1.57"	40	ZTABMP-#14x2-CHW3/8-N	33	1,000
784654	2-1/2"	64	Full	2.07"	53	ZTABMP-#14x2-1/2-CHW3/8-N	38	1,000

Plain product bagged 250 pieces, unless otherwise noted.

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



1/4-14 ZAC[®] Type AB Self-Tapping Metal to Wood or Metal Fastener



Product Specifications

Diameter:	1/4" (6.17 mm)	Drill Point:	Type AB Milled Point
Threads Per Inch:	14	Drill Capacity:	0.044"–0.110" (1.12 mm - 2.79 mm)
Head Style:	3/8" dia. HH AF (9.4 mm)	Thread Major Dia:	0.243" (6.17 mm)
Washer:	EPDM sealing washer	Thread Minor Dia:	0.188" (4.78 mm)

Performance Data^{1,2,3}

Material Strength

Tensile	3800 lbf / 16903 N
Shear	2560 lbf / 11387 N
Torsional	142 lbf-in / 16.04 N-m

Pull Out Strength Steel

16 Ga (1.5 mm):	879 lbf / 3910 N
14 Ga (1.9 mm):	1277 lbf / 5680 N
12 Ga (2.7 mm):	2185 lbf / 9719 N

Pull Out Strength Wood

SPF 1" penetration	697 lbf / 3100 N
SPF 1-1/2" penetration	1038 lbf / 4617 N

Pull Over Strength Steel

26 Ga (0.5 mm):	616 lbf / 2740 N
24 Ga (0.6 mm):	884 lbf / 3932 N
22 Ga (0.8 mm):	1079 lbf / 4799 N

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

² SFS 5625.19, 4812.11, 4381.07, 5057.19

³ S-120, SB3

Installation and Application Considerations

Tools: Metal to metal application: 0–1000 rpm screw gun equipped with depth sensing nose piece. Metal to wood application: 0–2500 rpm screw gun equipped with depth sensing nose piece.

Use of impact guns or hammer drills is not recommended.

Self-drilling metal thickness: sheet 0.018"–0.030" (0.46 mm–0.72 mm)

Special care needs to be taken when installing #14 ZAC Type AB fasteners into wood substrate less than 1" in thickness. Stripping or partially stripping the fastener out during installation compromises the clamp load and can affect the performance of the fastener.

Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total. Minimum depth penetration into wood substructure: 1" (25.4 mm)

Metal thickness	Drill bit size
0.021"–0.026" (0.53 mm–0.66 mm)	1/8" (3.18 mm)
0.027"–0.050" (0.69 mm–1.27 mm)	5/32" (3.97 mm)
0.051"–0.075" (1.29 mm–1.9 mm)	#8 (5.05 mm)
0.075"–0.110" (1.9 mm–2.79 mm)	#7 (5.11 mm)

The hole size determines installation performance and pull out strength.

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Metric values are approximate conversions.

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes. (07/2021, V1.01)