

ZAC® Impax™ —
5/16" HWH Alloy Capped

ZAC 5/16" HWH
Zinc aluminum capped drill screws
For metal to metal

- ZAC: the most widely used zinc aluminum capped fastener in the industry.
- Precision cold forged assuring superior point strength and the fastest drilling time performance through high strength steel and nested purlins.

- Integral cupped Hex Washer Head can never red rust.
- Designed and engineered to have low driving and thread engagement torque while providing maximum clamp load.

Application

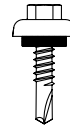
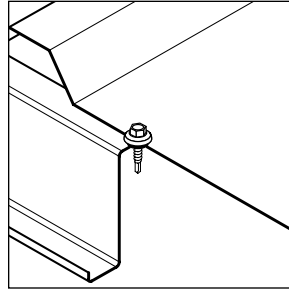
12-14 ZAC (5/16")

Metal to metal

Drilling capacity: .035 – .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



5/16" AF Zinc Aluminum Capped Hex Washer Head
Thread Major Dia: .215 – .209
Thread Minor Dia: .164 – .157

Strength (lbs ult.):

Tensile: 2900
Torsional: 92 in-lbs
Shear: 2050

Pull-out (lbs ult.):

12 ga (.105): 1965
14 ga (.075): 1174
16 ga (.060): 841

Pull-over (lbs ult.):

22 ga (.030): 1647
24 ga (.024): 1310
26 ga (.018): 794

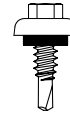
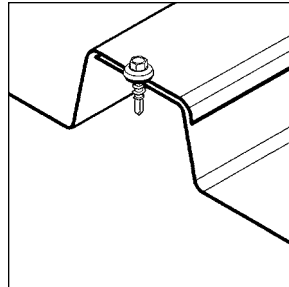
1/4-14 ZAC Lap (5/16")

Panel to panel side lap

Drilling capacity: .030 – .095

Some applications may require attaching light gage (24 – 26 ga) to sub-structural member.

Composite thickness should not exceed .095 thickness.



5/16" AF Zinc Aluminum Capped Hex Washer Head
Thread Major Dia: .246 – .240
Thread Minor Dia: .192 – .185

Strength (lbs ult.):

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

Pull-out (lbs ult.):

22 ga (.030): 379
24 ga (.024): 304
26 ga (.018): 204

Notes

Dimensions are nominal inches unless noted. Self-drill pull-out values (pounds ultimate) are based on 57,000 psi hot rolled steel material. Lap self-drill pull-out values are based on 40,000 psi AZ55 Galvalume steel sheet material. Ultimate values listed are the result of laboratory testing and we believe typical. The specific job conditions should be considered and appropriate safety factors applied when specifying the proper fasteners. #12 fasteners 1" and longer have special long pilot lengths to accommodate nested purlins.

Selection

Length	Part No. 12-14 ZAC	Part No. 1/4-14 ZAC Lap
5/16" AF Hex Washer Head ZAC		
12-14 x 1"	S4591-FL	
12-14 x 1-1/4"	S4646-FL	—
12-14 x 1-1/2"	S4731-FL	—
12-14 x 2"	S4761-FL	—
1/4-14 x 7/8"	—	S5031-FM

Installation

Tools: 2000 – 2500 rpm screwdriver equipped with depth sensing nosepiece.

Options

Painted

