

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.

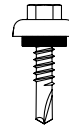
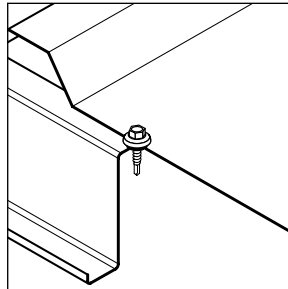
- Integral cupped Hex Washer Head can never red rust.
- Designed and engineered to have low driving and thread engagement torque while providing maximum clamp load.

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): 1539  
14 ga (.075): 1010  
16 ga (.060): 724

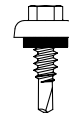
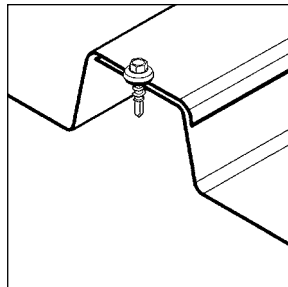
**Pull-over (lbs ult.):**

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
<b>5/16" AF Hex Washer Head ZAC</b>		
12-14 x 1"	S4591-FLF	
12-14 x 1-1/4"	X4646-FLF	—
12-14 x 1-1/2"	X4731-FLF	—
12-14 x 2"	S4761-FLF	—
1/4-14 x 7/8"	—	S5031-FMF

Installation

Tools: 0 – 2000 rpm screwdriver equipped with depth sensing nosepiece.

Options

Painted

