

ZAC® Impax™

ZAC 3/8" or 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

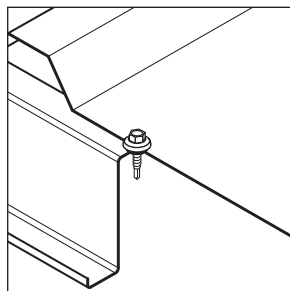
12-14 ZAC Impax SD3 (3/8" or 5/16")

Assembled EPDM washer 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.



3/8" or 5/16" AF Zinc Aluminum Capped
Hex Washer Head
Head Dia: .650"
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): 1524
14 ga (.075): 901
16 ga (.060): 665

Pull-over (lbs ult.):

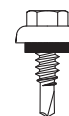
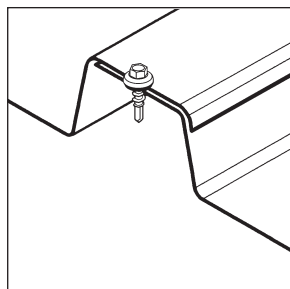
22 ga (.030): 1647
24 ga (.024): 1310
26 ga (.018): 794

1/4-14 ZAC Impax Lap (3/8" or 5/16")

Assembled EPDM washer 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.



3/8" or 5/16" AF Zinc Aluminum Capped
Hex Washer Head
Head Dia: .650"
Thread Major Dia: .246 – .240
Thread Minor Dia: .192 – .185

Strength (lbs ult.):

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

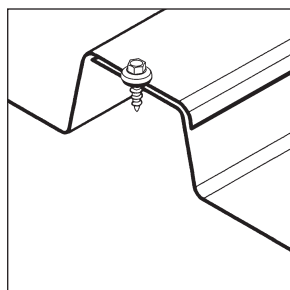
Pull-out (lbs ult.):

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

12-14 ZAC Lap (3/8") SP Assembled EPDM washer Panel to panel side lap

Drilling capacity .030 – .060"

Self-piercing points are not designed for attaching light gage (24 – 26 ga) to sub-structural member.



3/8" AF Zinc Aluminum Capped
Hex Washer Head
Head Dia: .650"
Thread Major Dia: .215 – .208
Thread Minor Dia: .164 – .157

Strength (lbs ult.):

Tensile: 2100
Torsional: 92 in-lbs
Shear: 1800

Pull-out (lbs ult.):

22 ga (.030): 538
24 ga (.024): 430
26 ga (.018): 330

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 (5083.14). 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.

Continued on following page

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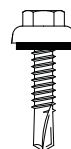
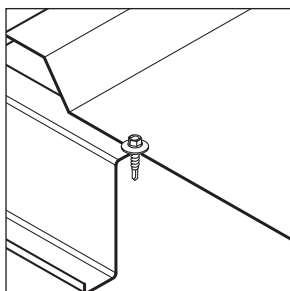
ZAC 3/8" or 5/16" HWH
Zinc aluminum capped drill screws
For metal to metal

Application

1/4-14 ZAC Impax SD2 & SD3

Assembled EPDM Washer Metal to metal

Drilling capacity:
#2 point: .050 – .150"
#3 point: .050 – .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



#2 – 3/8" AF Hex Washer Head
#3 – 5/16" AF Hex Washer Head
Head Dia: .650"
Thread Major Dia: .246 – .240
Thread Minor Dia: .192 – .185

Strength (lbs ult.):
Tensile: 3800
Torsional: 150 in-lbs
Shear: 2850

#2 Point Pull-out (lbs ult.):
12 ga (.105): 2088
14 ga (.075): 1312
16 ga (.060): 903

#3 Point Pull-out (lbs ult.):
12 ga (.105): 1697
14 ga (.075): 1151
16 ga (.060): 687

Pull-over with assembled seal washer (lbs ult.):
22 ga (.030): 1079
24 ga (.024): 884
26 ga (.018): 616

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. 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

Description	Available Lengths (L)	ExampleCode				
		Type	Diameter	Length	Head Style	Washer
#12-14 ZAC Impax 3/8" AF CHWH EPDM washer	1", 1-1/4", 1-1/2", 2", 2-1/2", 3"	ZSD3-	#12x	L-	CHW3/8-	N
1/4-14 ZAC Impax Lap 3/8" AF CHWH EPDM washer	7/8"	ZSDL-	#14x	L-	CHW3/8-	N
#12-14 ZAC Lap Sharp Pt. 3/8" AF CHWH EPDM washer	3/4"	ZSDL-	#12x	L-	CHW3/8-	N
1/4-14 ZAC Impax SD2, 3/8" AF CHWH EPDM washer	1-1/4", 1-1/2"	ZSD2-	#14x	L-	CHW3/8-	N
#12-14 ZAC Impax 5/16" AF CHWH EPDM washer	1", 1-1/4", 1-1/2", 2"	ZSD3-	#12x	L-	CHW5/16-	N
1/4-14 ZAC Impax Lap 5/16" AF CHWH EPDM washer	7/8"	ZSDL-	#14x	L-	CHW5/16-	N
1/4-14 ZAC Impax SD3, 5/16" AF CHWH EPDM washer	1-1/4"	ZSD3-	#14x	L-	CHW5/16-	N

Installation

Tools: 0 – 2000 rpm screw gun equipped with depth sensing nose piece.

Use of impact guns or hammer drills is not recommended.

Options

vistaCoat®

Painted

