

MAC™ Impax™ —
Stainless Capped Self-Drill

MAC stainless capped drill screws
For metal to metal

• MAC has a stainless capped, integral cupped Hex Washer Head configuration that can never red rust.

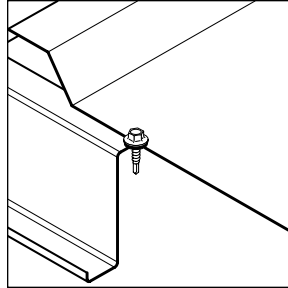
• Designed and engineered to have low driving and thread engagement torque and provide maximum clamp load.

Application

12-14 MAC

Assembled with 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, as in overlapped or nested purlin construction.
Min projection: 3/16" of threads below substrate



5/16" AF Stainless 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

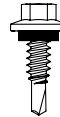
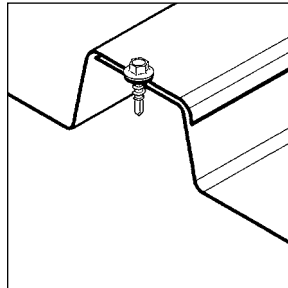
Pull-out (lbs ult.):
12 ga (.105): 1539
14 ga (.075): 1010
16 ga (.060): 724

Pull-over (lbs ult.):
22 ga (.030): 1298
24 ga (.024): 1102
26 ga (.018): 692

1/4-14 MAC Lap

Assembled with 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.



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

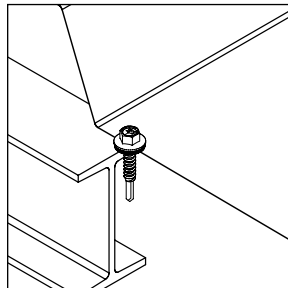
Strength (lbs ult.):
Tensile: 3800
Torsional: 150 in-lbs
Shear: 2850

Pull-out (lbs ult.):
22 ga (.030): 379
24 ga (.024): 304
26 ga (.018): 204

12-24 MAC 4.5

Assembled with EPDM washer
Metal to metal

Drilling capacity: .075 – .375
Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total.
Nominal thread length: 12-24 x 1-1/4": .650
Min projection: 3/16" of threads below substrate



5/16" AF Stainless Capped Hex Washer Head
Thread Major Dia: .216 – .210
Thread Minor Dia: .186 – .181

Strength (lbs ult.):
Tensile: 3450
Torsional: 100 in-lbs
Shear: 2420

Pull-out (lbs ult.):
12 ga (.105): 1378
3/16" (.187): Exceeds tensile value
1/4" (.250): Exceeds tensile value

Pull-over (lbs ult.):
22 ga (.030): 1049
24 ga (.024): 861
26 ga (.018): 584

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

Length	Part No. 12-14 MAC	Part No. 1/4-14 MAC	Part No. 12-24 MAC
12-14 x 1"	S4530-FAF	—	—
12-14 x 1-1/4"	S4650-FAF	—	—
12-14 x 1-1/2"	S4690-FAF	—	—
12-14 x 2"	S4770-FAF	—	—
1/4-14 x 7/8"	—	S5100-GGF	—
12-24 x 1-1/4" (4.5)	—	—	S4672-FAF

Installation

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

Options

VistaCoat™



Painted

