

Tapping Screws — Carbon Steel

Self-tapping — Type A, AB, B
For metal to metal

- Carbon steel zinc-plated self-tapping fasteners are the original metal construction fastener that can be used in metal to metal and metal to wood applications.
- Tapping screws are available in long lengths for specialty applications.

Application

#14 Type A**Metal to metal**

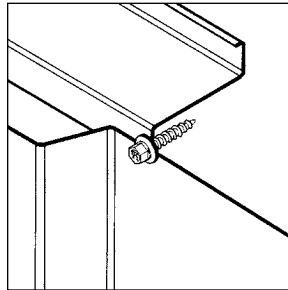
Attachment thickness: .044 – .075

Metal thickness	Drill bit size
.021 – .026	1/8 (.125)
.027 – .050	3/16 (.187)
.051 – .075	#8 (.199)

The hole size determines installation performance and pullout strength.

Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total.

Min projection: 3/8" of threads below substrate



3/8" AF Hex Head
Thread Major Dia: .254 – .248
Thread Minor Dia: .185 – .178

Strength (lbs ult.):
Tensile: 3500
Torsional: 125 in-lbs
Shear: 2400

Pull-out (lbs ult.):
14 ga (.075): 1318
16 ga (.060): 958
18 ga (.048): 605

Pull-over (lbs ult.):
22 ga (.030): 1097
24 ga (.024): 810
26 ga (.018): 564

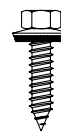
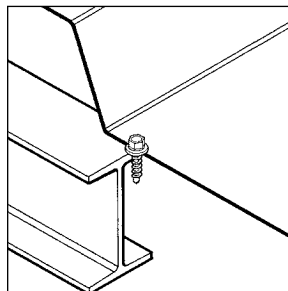
1/4 Type AB and B**Metal to metal**

Attachment thickness: .044 – .500

Metal thickness	Drill bit size
AB .021 – .026	1/8 (.125)
AB .027 – .050	5/32 (.156)
AB .051 – .075	#8 (.199)
AB .075 – .110	#7 (.201)
B .065 – .085	#8 (.199)
B .085 – .115	#7 (.201)
B .115 – .375	#1 (.228)
B .375 – .500	#1 or larger, depending on hardness of steel

Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total.

Min projection: 3/8" of threads below substrate



3/8" AF Hex Head
Thread Major Dia: .246 – .240
Thread Minor Dia: .192 – .185

Strength (lbs ult.):
Tensile: 3800
Torsional: 142 in-lbs
Shear: 2560

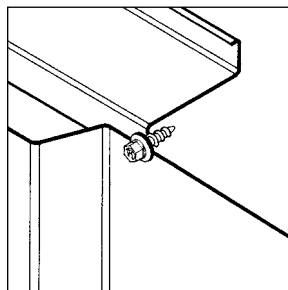
Pull-out (lbs ult.):
12 ga (.105): 2185
14 ga (.075): 1277
16 ga (.060): 879

Pull-over (lbs ult.):
22 ga (.030): 1094
24 ga (.024): 866
26 ga (.018): 600

#17 Type AB**Strip out repair Type A or AB
Metal to metal**

Attachment thickness: .036 – .060

Min projection: 3/8" of threads below substrate



3/8" AF Hex Head
Thread Major Dia: .295 – .285
Thread Minor Dia: .220 – .214

Notes

Dimensions are nominal inches unless noted. Pull-out values (pounds ultimate) are based on 50,000 psi hot rolled 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.

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Ph: 800-474-7570, 602-272-8128 Fx: 602-272-8014
www.BestMaterials.com Email: Sales@BestMaterials.com

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Selection

Length*	Part No. #14 A Bond Seal	Part No. 1/4 AB & #17 AB Bond Seal	Part No. 1/4 B Bond Seal
3/4"	A2980-GB	A4320-GB	A3800-GB
1"	A3240-GB	A4420-GB	A3860-GB
1-1/4"	A3420-GB	A4440-GB	—
1-1/2"	A3460-GB	A4500-GB	A3920-GB
2"	A3520-GB	—	A4000-GB
2-1/2"	A3580-GB	—	A4040-GB
3"	A3620-GB	—	A4080-GB
3-1/2"	A3640-GB	—	A4140-GB
4"	A3680-GB	—	A4220-GB
5"	A3720-GB	—	A4260-GB
6"	A3740-GB	—	A4280-GB
#17 x 3/4"	—	A6020-KJ	—
#17 x 1"	—	A6040-KJ	—
#17 x 1-1/2"	—	A6060-KJ	—

*Longer lengths available upon request

Installation

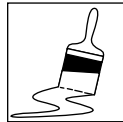
Tools: 0 – 1000 rpm on type B screwdriver equipped with depth sensing nosepiece.

Options

VistaCoat™



Painted



ZAC®



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