

Tapping Screws—CARBON STEEL

CARBON STEEL Self-tapping — Type A & 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



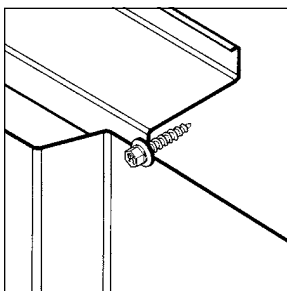
#14 Type A  
Metal to metal

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 B  
Metal to metal

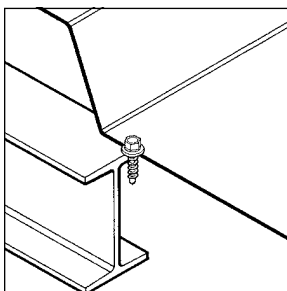
Attachment thickness: .044 – .500

Metal thickness	Drill bit size
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

Notes

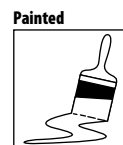
Dimensions are nominal inches unless noted. Pull-out values (pounds ultimate) are based on 50,000 psi hot rolled steel sheet material. Ultimate values listed are the result of laboratory testing. The specific job conditions should be considered and appropriate safety factors applied when specifying the proper fasteners.

Selection

Length*	Part No.	Part No.	Part No.
	#14 A Bond Seal	1/4 AB & #17 AB Bond Seal	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

Options



Installation

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



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