

Tapping Screws — 300 Series
Stainless Steel

Stainless self-tapping — Type A, AB, B
For metal to metal

- Stainless steel zinc-plated self-tapping fasteners are designed for attaching metal to metal and metal to wood.
- Type B have wax surface treatment for added lubricity.

- Stainless tappers are used in high corrosive environments or where corrosion-free performance is required to meet the design life of the project.

Application

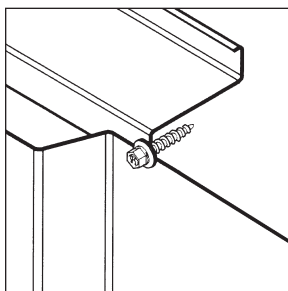
#14 Type A
304 Stainless

Assembled stainless
bondSeal
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 304 Stainless Hex Head
Thread Major Dia: .254 – .248
Thread Minor Dia: .185 – .178

Strength (lbs ult.):
Tensile: 3370
Torsional: 125 in-lbs
Shear: 1520

Pull-out (lbs ult.):
14 ga (.075): 1232
16 ga (.060): 1110

Pull-over (lbs ult.):
22 ga (.030): 1237
24 ga (.024): 790
26 ga (.018): 647

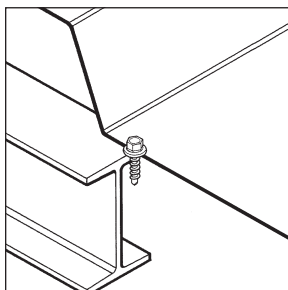
1/4-14 Type AB and B
304 Stainless

Assembled stainless
bondSeal
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 – .104	#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 304 Stainless Hex Head
Thread Major Dia: .246 – .240
Thread Minor Dia: .192 – .185

Strength (lbs ult.):
Tensile: 3800
Torsional: 142 in-lbs
Shear: 2350

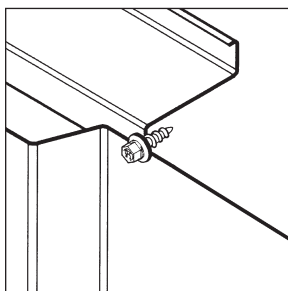
Pull-out (lbs ult.):
12 ga (.105): 2310
14 ga (.075): 1394
16 ga (.060): 1250

Pull-over (lbs ult.):
22 ga (.030): 1237
24 ga (.024): 790
26 ga (.018): 647

#17 Type AB
304 Stainless

Strip-out Repair
Assembled stainless
bondSeal
Metal to metal

Min projection: 3/8" of threads below substrate



3/8" 304 Stainless AF Hex Head
Thread Major Dia: .295 – .285
Thread Minor Dia: .220 – .214

Strength (lbs ult.):
Tensile: 5709
Torsional: 180 in-lbs
Shear: 3906

Pull-out (lbs ult.):
12 ga (.105): 2375
14 ga (.075): 939

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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Selection

		Example Code					
		TA-	S3-	#14x	1-1/2-	H3/8-	SB19/32
Description	Available Lengths (L)	Type	Material	Diameter	Length	Head Style	Washer
#14 Type A 304SS bondSeal	3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 5", 6", 7", 8"	TA-	S3-	#14x	L-	H3/8-	SB19/32
1/4-14 Type AB 304SS bondSeal	3/4", 1", 1-1/4", 1-1/2"	TAB-	S3-	#14x	L-	H3/8-	SB19/32
1/4-14 Type B 304SS bondSeal	3/4", 1", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 5", 6", 7", 8"	TB-	S3-	#14x	L-	H3/8-	SB19/32
#17 Type AB 304SS bondSeal	3/4", 1", 1-1/2"	TAB-	S3-	#17x	L-	H3/8-	SB19/32

Installation

Tools: 0 – 1000 rpm screw gun equipped with depth sensing nose piece.
Use of impact guns or hammer drills is not recommended.

Options

Painted

