

TAPPING SteelBinder®



- Tapping screws that are designed to be used in light gauge metal or light gauge metal in a pre-drilled hole. See Fastener Selection Guide on page 1 for proper drill bit sizes.
- Screws can be used as replacements for screws that have loosened from steel.
- 5/16" HWH with EPDM bonded sealing washer provides maximum pull over strength in high wind uplift applications.
- EPDM rubber & HH with EPDM bonded sealing is vulcanized to a steel washer to form an excellent seal & will cover any existing hole to prevent leaks from re-occurring.

FOR PROPER INSTALLATION, THE USE OF IMPACT DRIVERS ARE NOT RECOMMENDED FOR POWDER COATED OR ANY WET PAINTED FASTENER

SIZE	POINT STYLE	HEAD STYLE	CARTON QTY.	WEIGHT /M
17 x 3/4"	TYPE AB	5/16" HWH	2000	14.0
17 x 1"	TYPE AB	5/16" HWH	2000	18.0
17 x 1-1/4"	TYPE AB	5/16" HWH	2000	22.0
17 x 1-1/2"	TYPE AB	5/16" HWH	1500	25.9

PULLOUT & PULLOVER VALUES ARE DETERMINED IN THE ST FASTENING SYSTEMS ENGINEERING LABORATORY USING STEEL PANELS/FRAMING & WOOD DENSITIES WHOSE STRUCTURAL PROPERTIES ARE FOUND IN PRESENT DAY PRODUCTS.

TECHNICAL INFORMATION	DRILL POINT (DIA)	MAJOR DIAMETER	MINOR DIAMETER	WASHER FACE DIAMETER	HEAD ACROSS FLATS	NOM. TENSILE STRENGTH	MIN. TORSIONAL STRENGTH	NOM. SHEAR STRENGTH
17-14	45° Sharp Point	.280/.273	NOM .220"	N/A	NOM .375"	5160 LBS.	220 MIN.	3952 LBS.

PULL OUT STRENGTH VALUE (LBS. ULT.)	NOM. GAUGE	MATERIAL													
		HRS PRIMED ONLY				AZ55 GALVALUME				G-90 GALVANIZED				HRS. PLATE	
		16	14	12	26	24	22	18	20	18	16	14	12	3/16"	1/4"
17-14	THICKNESS	.060	.075	.105	.018	.024	.030	.048	.036	.048	.060	.075	.105	.187	.250
17-14		1409	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1119	N/A	N/A	N/A	N/A	N/A

PULL OVER STRENGTH VALUE (LBS. ULT.)	DESIGNATION	MATERIAL						
		AZ55 GALVALUME				G90	ALUMINUM	SLOT EDGE PANEL
		29	26	24	22	20	21	29
17-14	THICKNESS	.014	.018	.024	.030	.036	.028	.014
17-14		556	890	1197	1290	N/A	N/A	N/A

NOTES: 1. For metal to wood tapping screws refer to page 12.

ZXL™ TAPPING SteelBinder®



- Type AB fasteners are designed to attach long-life roof panels such as GALVALUME that are used in pre-engineered metal building application. Type A fasteners are designed for use in wood framed buildings.
- Fasteners are also used in retrofit applications in which existing screws have stripped/backed out & need to be replaced with a larger diameter.
- 5/16" Cupped HWH ZAMAC Zinc-Aluminum Alloy provides lifetime protection against red rust on the head & washer face. A written warranty is available upon request.
- The head & washer face captures the rubber EPDM washer even when driven at an angle & are designed to maximize Pull over strength.

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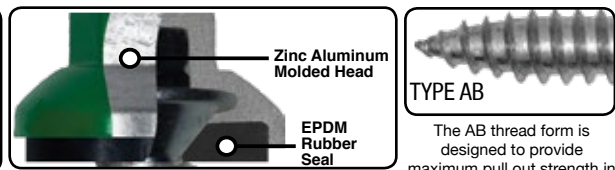
SIZE	HEAD STYLE	CARTON QTY.	WEIGHT/M
1/4-14 x 3/4" AB	5/16" CHWH	2000	18.2
1/4-14 x 1" AB	5/16" CHWH	2000	19.6
1/4-14 x 1-1/4" AB	5/16" CHWH	2000	21.0
17-14 x 1" AB	5/16" CHWH	1500	23.0



TECHNICAL INFORMATION	DRILL POINT (DIA)	MAJOR DIAMETER	MINOR DIAMETER	WASHER FACE DIAMETER	HEAD ACROSS FLATS	NOM. TENSILE STRENGTH	MIN. TORSIONAL STRENGTH	NOM. SHEAR STRENGTH
1/4-14	30° Sharp Point	.246/.240	.192/.185	.630	NOM .312"	1525** LBS.	150 MIN.	2850 LBS.
17-14	45° Sharp Point	.282/.273	.220 NOM.	.630	NOM .312"	1525** LBS.	220 MIN.	3952 LBS.

PULL OUT STRENGTH VALUE (LBS. ULT.)	NOM. GAUGE	MATERIAL													
		HRS PRIMED ONLY				AZ55 GALVALUME				G-90 GALVANIZED				HRS. PLATE	
		16	14	12	26	24	22	18	20	18	16	14	12	3/16"	1/4"
1/4-14	THICKNESS	.060	.075	.105	.018	.024	.030	.048	.036	.048	.060	.075	.105	.187	.250
1/4-14		1181	1265	1525**	N/A	N/A	N/A	N/A	N/A	1055	1073	1396	1525**	N/A	N/A
17-14		1409	1429	1525**	N/A	N/A	N/A	N/A	N/A	1119	N/A	N/A	N/A	N/A	N/A

PULL OVER STRENGTH VALUE (LBS. ULT.)	DESIGNATION	MATERIAL						
		AZ55 GALVALUME				G90	ALUMINUM	SLOT EDGE PANEL
		29	26	24	22	20	21	29
1/4-14 (.630 DIA)	THICKNESS	.014	.018	.024	.030	.036	.028	.014
17-14 (.630 DIA)		696	1101	1205	1446	N/A	N/A	N/A



The Zinc-Aluminum alloy HWH prevents red rust from ever starting. ST Fastening Systems spring retainer sockets are recommended. ST Fastening Systems sockets are designed to allow for the added thickness of the powder coat.

TYPE AB
The AB thread form is designed to provide maximum pull out strength in steel in a pre-drilled hole. See Catalog page 1 for proper drill bit sizes.

- NOTES: 1. HRS* (Hot Rolled Steel)
2. Pull over values calculated with EPDM rubber washer assembled to cupped head screw with .630" washer face.
3. All strength values shown are ultimate values, express in LBS. Apply an appropriate safety factor to obtain design limits.
4. ** Ultimate tensile strength value calculated at the point where the ZXL head breaks from the carbon steel body.