

HG SteelBinder®



- Fastener lengths over 1-1/4" are designed to penetrate steel thickness up to .500".
- Thread to point ratio engineered to provide maximum pull out strength in heavy gauge steel.
- EPDM rubber is vulcanized to steel washer. Moisture has no place to penetrate. The washer provides a secure seal even when driven at an angle.
- Applications include metal deck to structural steel or bar joists, & retrofit clips to structural steel.
- Fastener is also available without a bonded sealing washer.

SIZE	HEAD STYLE	CARTON QTY.	WEIGHT/M
12-24 x 1-1/4"	HWH	2500	12.6
12-24 x 1-1/2"	HWH	2000	16.2
12-24 x 2"	HWH	1500	22.1

LENGTHS LONGER THAN 2 INCHES ARE AVAILABLE BUT NON-STANDARD. CALL FOR PRICE AND AVAILABILITY.

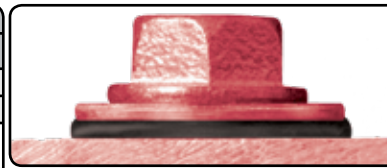
FOR PROPER INSTALLATION, THE USE OF IMPACT DRIVERS ARE NOT RECOMMENDED FOR POWDER COATED OR ANY WET PAINTED FASTENER.

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
#12-24	.199/.195	.215/.209	.164 REF	.432/.398	NOM .312"	2803 LBS.	100 IN.-LBS.	1999 LBS.

PULL OUT STRENGTH VALUE (LBS. ULT.)	MATERIAL															
		HRS PRIMED ONLY					AZ55 GALVALUME				G-90 GALVANIZED				HRS. PLATE	
		NOM. GAUGE	16	14	12	26	24	22	18	20	18	16	14	12	3/16"	1/4"
#12-24		N/A	924	1627	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2556	3298

PULL OVER STRENGTH VALUE (LBS. ULT.)	DESIGNATION	MATERIAL						
		AZ55 GALVALUME				690	ALUMINUM	SLOT EDGE PANEL
		NOM. GAUGE	29	26	24	22	20	21
#12-24 W/ 14 MM BONDED WASHER		N/A	801	996	1258	N/A	N/A	N/A
(.398/.432 HWH DIA.)		N/A	775	956	1078	N/A	N/A	N/A



HWH with EPDM bonded washer provides a secure seal to prevent leaks.



Sharp drill point & long flute length assures proper clearance of heavy gauge metal before any thread engagement begins.

- NOTES: 1. HRS (Hot Rolled Steel)
2. All strength values shown are ultimate values, expressed in LBS. Apply an appropriate safety factor to obtain design limits.

ZXL HG SteelBinder®



- Fastener is designed to attach long-life metal roof panels such as GALVALUME to structural steel joists up to .500" thick.
- 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.
- For structural steel applications, a screwgun with RPM under 2000 is recommended for best performance.

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

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.

SIZE	HEAD STYLE	CARTON QTY.	WEIGHT/M
12-24 x 1-1/4"	5/16" CHWH	2000	25.8/M

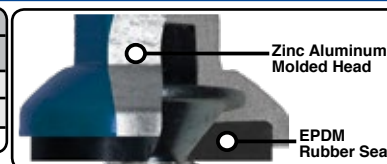


No Red-Rust Guaranteed!

TECHNICAL INFORMATION	DRILL POINT (DIA)	MAJOR DIAMETER	MINOR DIAMETER	WASHER FACE DIAMETER	HEAD ACROSS FLATS	NOM. TENSILE STRENGTH	MIN. TORSIONAL STRENGTH	NOM. SHEAR STRENGTH
12-24	.199/.195	.215/.209	.164 REF.	.630	NOM .312"	1525** LBS.	100 IN.-LBS.	1999 LBS.

PULL OUT STRENGTH VALUE (LBS. ULT.)	MATERIAL															
		HRS PRIMED ONLY					AZ55 GALVALUME				G-90 GALVANIZED				HRS. PLATE	
		NOM. GAUGE	16	14	12	26	24	22	18	20	18	16	14	12	3/16"	1/4"
12-24		N/A	924	1525**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1525**LBS	

PULL OVER STRENGTH VALUE (LBS. ULT.)	DESIGNATION	MATERIAL						
		AZ55 GALVALUME				690	ALUMINUM	SLOT EDGE PANEL
		NOM. GAUGE	29	26	24	22	20	21
12-24		637	1045	1303	1525**	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.



Sharp drill point & long flute length assures proper clearance of heavy gauge metal before any thread engagement begins.

- NOTES: 1. HRS (Hot Rolled Steel)
2. Pull over values calculated with EPDM rubber washer assembled to cupped head screw with .555" washer face.
3. All strength values shown are ultimate values, expressed in LBS. Apply an appropriate safety factor to obtain design limits.
4. ** The value tabulated is the force at which the ZXL head breaks from the carbon steel body.