

#14 HDB-SS FASTENER

Heavy-Duty, Stainless Steel Bi-Metal Roofing Fastener

DESCRIPTION

#14 HD Stainless Steel Bi-Metal roofing fastener manufactured from 316 stainless steel alloy with a hardened carbon steel drill point. This all purpose roofing fastener is engineered to secure insulation, coverboards and base sheets to corrugated steel and wood substrates.

ADVANTAGES

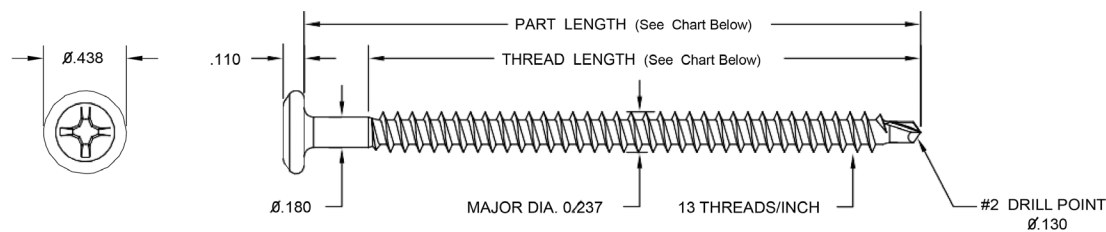
- Heavier shank and buttress thread diameter for increased pullout resistance and shear strength
- Zinc-coated stainless steel provides long-term protection against red rust
- Our exclusive double fluted self-drilling point with tapered entry thread design, quickly penetrates for superior drill speeds

TYPICAL PROPERTIES*

PROPERTY	VALUE
Material	316 Stainless steel with hardened carbon steel drill point
Coating	Electro-zinc
Fastener Head	#3 Phillips flat truss head
Fastener Tip	#2 Double flute self-drilling point
Thread Size	.237 in
Thread/Inch	13
Tensile Strength	2,000 lbf
Shear Strength	1,400 lbf (thread zone)
Corrosion Resistance	<15% Red rust after 30 cycles
Recycled content	95%

* All values shown are nominal.

PRODUCT SPECIFICATIONS



PRODUCT PACKAGING

PART #	PART LENGTH		THREAD LENGTH*		PACKAGING		QTY/ PALLET
	Inches	MM	Inches	MM	QTY/Bucket	Weight (lb)	
HDB-1500-SS	1 1/2	38.1	Full	38.1	1,000	12.9	80,000
HDB-2000-SS	2	50.8	Full	50.8	1,000	15.5	80,000
HDB-3000-SS	3	76.2	2 7/8	73.0	1,000	23.7	80,000
HDB-4000-SS	4	101.6	3 7/8	98.4	1,000	30.9	80,000
HDB-5000-SS	5	127.0	3 7/8	98.4	1,000	37.3	60,000
HDB-6000-SS	6	152.4	3 7/8	98.4	1,000	44.0	60,000
HDB-7000-SS	7	177.8	3 7/8	98.4	500	25.9	40,000
HDB-8000-SS	8	203.2	3 7/8	98.4	500	29.7	40,000
HDB-9000-SS	9	228.6	3 7/8	98.4	250	16.0	15,000
HDB-10000-SS	10	254.0	3 7/8	98.4	250	17.6	15,000
HDB-12000-SS	12	304.8	3 7/8	98.4	250	21.3	15,000

* All values shown are nominal. Thread length measured from tip of the drill point to end of the threads



Enlarged to show detail

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AVERAGE ULTIMATE PULLOUT VALUES*

For Wood Substrates

SUBSTRATE	THICKNESS (Inches)			
	7/16	1/2	5/8	3/4
OSB	270	290	310	410
Plywood	—	360	410	730

SPF #2*	
Including Tip	Excluding Tip
600	795

* lbf/inch of thread penetration

For Corrugated Steel Decks at Various Yield Strengths

THICKNESS	YIELD STRENGTH (ksi)			
	33.0	36.5	80.0	102.0
18 Gauge	675	—	885	985
20 Gauge	420	—	615	710
22 Gauge	315	—	480	560
24 Gauge	—	255	—	—

* NOTE: The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Ultimate Pullout values must be reduced by a minimum safety factor of ≥ 3.0 to determine allowable working load.

INSTALLATION

For Steel and Wood Decks: Using the #3 Phillips drive bit provided and a 0-2500 rpm screw gun, install the fastener into the deck. The fastener must penetrate the deck a minimum of $\frac{3}{4}$ inch, as measured from the underside of the deck to the fastener tip. Care should be taken to orient the fastener perpendicular to the deck and not to overdrive the fastener to prevent damage to the insulation or membrane.

PULLOUT TESTING

The strength of different roof decks can vary widely and can be adversely affected by moisture and other conditions. Therefore, it is recommended that a fastener pull test be conducted to help evaluate deck condition and fastener suitability. Contact Performance Roof Systems Technical Services to schedule testing.

APPROVED ACCESSORIES

- 3" Metal Insulation Plate
- 2" and 2.4" Barbed Metal Seam Plates
- 3" Recessed Metal Insulation Plate
- Flat and Recessed Batten Bars