

# #15 EHD FASTENER

Extra Heavy-Duty Roofing Fastener

## DESCRIPTION

#15 EHD Fastener is engineered to secure insulation, coverboards and base sheets to corrugated steel and wood substrates.

## ADVANTAGES

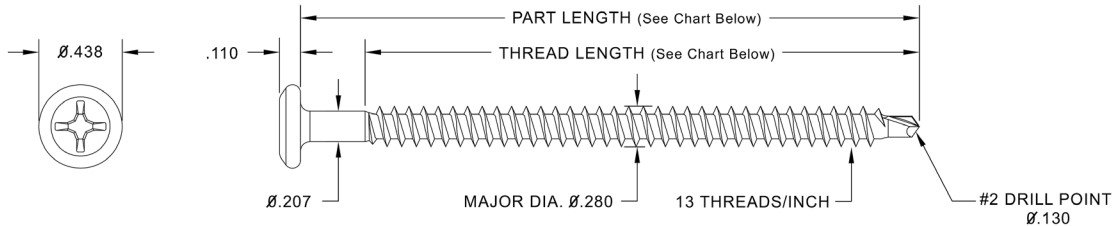
- ▶ Heavier shank and buttress thread diameter for increased pullout resistance and shear strength
- ▶ Zinc-coated stainless steel provides long-term protection against red rust
- ▶ Our exclusive double fluted self-drilling point with tapered entry thread design, quickly penetrates for superior drill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

## TYPICAL PROPERTIES\*

PROPERTY	VALUE
<b>Material</b>	SAE C1022, heat treated
<b>Coating</b>	Epoxy E-Coat
<b>Fastener Head</b>	#3 Phillips flat truss head
<b>Fastener Tip</b>	#2 Double flute self-drilling point
<b>Thread Size</b>	.280 in
<b>Thread/Inch</b>	13
<b>Tensile Strength</b>	4,200 lbf
<b>Shear Strength</b>	2,400 lbf (thread zone)
<b>Corrosion Resistance</b>	<15% Red rust after 30 cycles
<b>Recycled content</b>	20%

\* 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)	
EHD-1250	1 1/4	31.8	Full	31.8	1,000	12.6	80,000
EHD-2000	2	50.8	Full	50.8	1,000	19.5	80,000
EHD-3000	3	76.2	Full	76.2	1,000	28.2	80,000
EHD-4000	4	101.6	3	76.2	1,000	37.8	60,000
EHD-5000	5	127.0	4	101.6	1,000	48.1	60,000
EHD-6000	6	152.4	4	101.6	500	27.9	40,000
EHD-7000	7	177.8	4	101.6	500	33.6	40,000
EHD-8000	8	203.2	4	101.6	500	37.3	40,000
EHD-9000	9	228.6	4	101.6	250	20.7	15,000
EHD-10000	10	254.0	4	101.6	250	23.7	15,000
EHD-11000	11	279.4	4	101.6	250	25.3	15,000
EHD-12000	12	304.8	4	101.6	250	28.9	15,000
EHD-14000	14	355.6	4	101.6	250	33.1	7,500
EHD-16000	16	406.4	4	101.6	250	36.9	7,500
EHD-18000	18	457.2	4	101.6	250	41.7	7,500
EHD-20000	20	508.0	4	101.6	250	46.7	7,500
EHD-22000	22	558.8	4	101.6	250	51.1	7,500
EHD-24000	24	609.6	4	101.6	250	56.1	7,500

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



Enlarged to show detail

## #15 EHD FASTENER

Extra Heavy-Duty, Roofing Fastener

## AVERAGE ULTIMATE PULLOUT VALUES\*

For Wood Substrates

SUBSTRATE	THICKNESS (Inches)			
	7/16	1/2	5/8	3/4
OSB	295	300	310	515
Plywood	—	400	525	685

SPF #2*	
Including Tip	Excluding Tip
1,165	—

\* 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
16 Gauge	1,175	—	1,370	1,460
18 Gauge	925	—	1,125	1,215
20 Gauge	605	—	855	970
22 Gauge	465	—	695	805
24 Gauge	—	390	—	—

\* 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  $\geq 3.0$  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



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ROOF SYSTEMS**  
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