

#14 HD Roofing Fasteners

PRODUCT DESCRIPTION

TRUFAST® #14 HD Fastener is engineered to secure insulation, coverboards, base sheets and single-ply roof membrane systems to corrugated steel (16 - 22 ga.), wood, and concrete substrates. Featuring a #2 double flute self-drilling point and exclusive tapered entry thread design, they penetrate steel quickly and offer exceptional back-out resistance.

APPROPRIATE ACCESSORIES

Use with TRUFAST® MP-2000, MPB-2000, MPB-2400 Seam Plates; MP-3000 and MPR-3000 Insulation Plates; and BB-18F and BB-18R Batten Bar.

CODE APPROVALS & LISTINGS



State of Florida - FL#: 4500



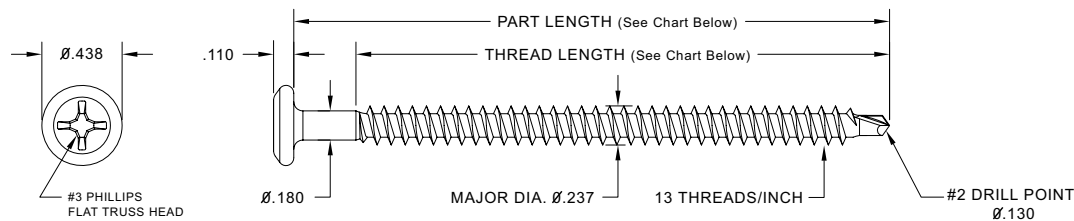
CE European Technical Approval ETA 09/0375

MATERIAL SPECIFICATIONS

Material: SAE C1022, heat treated
Coating: Tru-Kote™ Epoxy E-Coat

Manufacturing Location: Bryan, OH USA
LEED® Eligible Recycled Content: 20%

PRODUCT SPECIFICATIONS



PRODUCT SELECTION

Part No.	Part Length		Thread Length		Pkg. Qty.	Pkg. Wt.	Pallet Qty.
HD-1500	1-1/2"	38.1 mm	1-1/2" (Full)	38.1 mm	1000/Bucket	12.9 lbs.	80,000
HD-2000	2"	50.8 mm	2" (Full)	50.8 mm	1000/Bucket	15.5 lbs.	80,000
HD-2500	2-1/2"	63.5 mm	2-1/2" (Full)	63.5 mm	1000/Bucket	19.4 lbs.	80,000
HD-3000	3"	76.2 mm	2-7/8"	73 mm	1000/Bucket	23.7 lbs.	80,000
HD-3500	3-1/2"	88.9 mm	2-7/8"	73 mm	1000/Bucket	26.4 lbs.	80,000
HD-4000	4"	101.6 mm	3-7/8"	98.4 mm	1000/Bucket	30.9 lbs.	80,000
HD-4500	4-1/2"	114.3 mm	3-7/8"	98.4 mm	1000/Bucket	33.6 lbs.	60,000
HD-5000	5"	127.0 mm	3-7/8"	98.4 mm	1000/Bucket	37.3 lbs.	60,000
HD-5500	5-1/2"	139.7 mm	3-7/8"	98.4 mm	1000/Bucket	40.8 lbs.	60,000
HD-6000	6"	152.4 mm	3-7/8"	98.4 mm	1000/Bucket	44.0 lbs.	60,000
HD-7000	7"	177.8 mm	3-7/8"	98.4 mm	500/Bucket	25.9 lbs.	40,000
HD-8000	8"	203.2 mm	3-7/8"	98.4 mm	500/Bucket	29.7 lbs.	40,000
HD-9000	9"	228.6 mm	3-7/8"	98.4 mm	250/Bucket	16.6 lbs.	15,000
HD-10000	10"	254.0 mm	3-7/8"	98.4 mm	250/Bucket	18.5 lbs.	15,000
HD-11000	11"	279.4 mm	3-7/8"	98.4 mm	250/Bucket	20.1 lbs.	15,000
HD-12000	12"	304.8 mm	3-7/8"	98.4 mm	250/Bucket	22.0 lbs.	15,000



Enlarged to show detail.

PERFORMANCE DATA

Property	Standard	Average Ultimate Value
Tensile Strength:	ASTM F606-10	3200 lbf.
Shear Strength:	NASM 1312-20	2200 lbf. (thread zone)
Corrosion Resistance:	FM 4470, ASTM D6294, DIN 50018	< 15% Red Rust after 30 cycles

Average Ultimate Pullout Values in Corrugated Steel Deck Substrates

Thickness	24 ga.			22 ga.			20 ga.			18 ga.			16 ga.		
Yield Strength	36.5 ksi	33.0 ksi	30.0 ksi	80.0 ksi	102.0 ksi	102.0 ksi	33.0 ksi	80.0 ksi	102.0 ksi	33.0 ksi	80.0 ksi	102.0 ksi	33.0 ksi	80.0 ksi	102.0 ksi
Pullout (lbf.)	255	315	480	480	560	710	420	615	710	675	885	985	850	1115	1240

Average Ultimate Pullout Values in Wood Substrates

Thickness	APA Rated OSB				APA Rated Plywood			SPF #2
	7/16"	15/32"	19/32"	23/32"	15/32"	19/32"	23/32"	
Pullout (lbf.)	270	290	310	410	360	410	730	795*

* lbf./in. of thread penetration, including tip.

Average Ultimate Pullout Values in 3000 psi. Concrete

Pullout (lbf.)	450*
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* lbf./in. of thread penetration, including tip.

INSTALLATION GUIDELINES

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 $\frac{3}{4}$ " 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.

For Concrete Decks: Pre-drill a $\frac{3}{16}$ " diameter hole using a drill bit that meets the requirement of ANSI Standard B212.15. The hole must be a minimum of $\frac{1}{2}$ " deeper than the fastener embedment. Using the #3 Phillips drive bit provided and a 0-1500 rpm screw gun, install the fastener to a minimum embedment of 1" until the head of the fastener is properly seated in the plate or bar. 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.

DISCLAIMER

The performance specifications published in this TRUFAST product literature are based on controlled laboratory tests and are intended as a guideline only. They are not guaranteed in any way by the ALTENLOH, BRINCK & CO. U.S., INC. (the manufacturer), since building design, engineering, and construction, including workmanship and materials, are beyond the control of the manufacturer. The manufacturer recommends that pull-out tests be conducted to verify the substrate provides adequate pull-out values.

TRUFAST® #14 HD Roofing Fasteners are manufactured by the ALTENLOH, BRINCK & CO. U.S., INC. and are sold through leading roofing and building material distributors across the U.S. and Canada.



ALTENLOH, BRINCK & CO. U.S., INC.

02105 Williams County Rd. 12-C • Bryan, OH 43506
 Phone: 419-636-6715 or 800-443-9602 • Fax: 419-636-1784
 Email: sales@trufast.com • www.trufast.com