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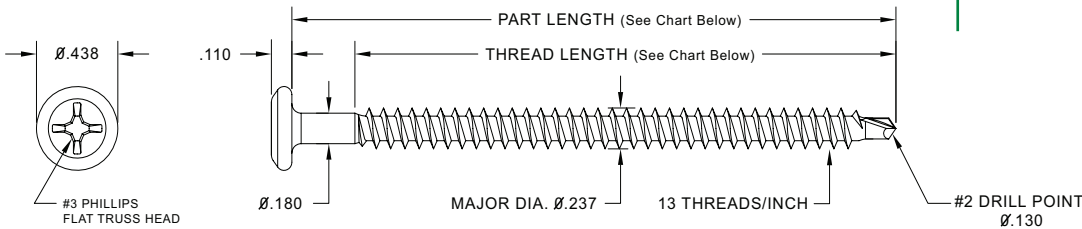
PRODUCT DESCRIPTION

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.

PRODUCT SPECIFICATIONS



CODE APPROVALS & LISTINGS

FM Global



Miami-Dade County



Florida Building Code

FL#: 4500

2809

European Technical Assessment
ETA 19/0616
DOP No. DoPTru02-2022-01-03



MATERIAL SPECIFICATIONS

Material: SAE C1022, heat treated

Coating: Tru-Kote™ Epoxy E-Coat

PRODUCT SELECTION

| Part No. | Part Length | Thread Length | Pkg. Qty. | Pkg. Wt. | Pallet Qty. |
|----------|-------------------|-------------------------|-------------|-----------|-------------|
| HD-1250 | 1-1/4" (25.4 mm) | 1-1/4" (25.4 mm) | 1000/Bucket | 12.4 lbs. | 80,000 |
| HD-1500 | 1-1/2" (38.1 mm) | 1-1/2" (Full) (38.1 mm) | 1000/Bucket | 14.2 lbs. | 80,000 |
| HD-2000 | 2" (50.8 mm) | 2" (Full) (50.8 mm) | 1000/Bucket | 16.8 lbs. | 80,000 |
| HD-2500 | 2-1/2" (63.5 mm) | 2-1/2" (Full) (63.5 mm) | 1000/Bucket | 20.7 lbs. | 80,000 |
| HD-3000 | 3" (76.2 mm) | 2-7/8" (73 mm) | 1000/Bucket | 25.0 lbs. | 80,000 |
| HD-3500 | 3-1/2" (88.9 mm) | 2-7/8" (73 mm) | 1000/Bucket | 29.5 lbs. | 80,000 |
| HD-4000 | 4" (101.6 mm) | 3-7/8" (98.4 mm) | 1000/Bucket | 31.8 lbs. | 80,000 |
| HD-4500 | 4-1/2" (114.3 mm) | 3-7/8" (98.4 mm) | 1000/Bucket | 35.7 lbs. | 60,000 |
| HD-5000 | 5" (127.0 mm) | 3-7/8" (98.4 mm) | 1000/Bucket | 38.7 lbs. | 60,000 |
| HD-5500 | 5-1/2" (139.7 mm) | 3-7/8" (98.4 mm) | 1000/Bucket | 43.6 lbs. | 60,000 |
| HD-6000 | 6" (152.4 mm) | 3-7/8" (98.4 mm) | 1000/Bucket | 45.7 lbs. | 60,000 |
| HD-7000 | 7" (177.8 mm) | 3-7/8" (98.4 mm) | 500/Bucket | 26.9 lbs. | 40,000 |
| HD-8000 | 8" (203.2 mm) | 3-7/8" (98.4 mm) | 500/Bucket | 30.3 lbs. | 40,000 |
| HD-9000 | 9" (228.6 mm) | 3-7/8" (98.4 mm) | 250/Bucket | 18.3 lbs. | 15,000 |
| HD-10000 | 10" (254.0 mm) | 3-7/8" (98.4 mm) | 250/Bucket | 19.4 lbs. | 15,000 |
| HD-11000 | 11" (279.4 mm) | 3-7/8" (98.4 mm) | 250/Bucket | 21.9 lbs. | 15,000 |
| HD-12000 | 12" (304.8 mm) | 3-7/8" (98.4 mm) | 250/Bucket | 23.7 lbs. | 15,000 |

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, 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 | 80.0 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 | 33.0 ksi | 80.0 ksi | 102.0 ksi |
| Pullout (lbf.) | 255 | 315 | 480 | 560 | 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* |
|----------------|------|

* 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 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 3/16" diameter hole using a drill bit that meets the requirements of ANSI Standard B212.15. The hole must be a minimum of 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.

Bulletin No. TF-22072

DISCLAIMER

The information provided here is subject to change without notice. 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. US, INC., 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.