

Tremco/ES Products Twin Loc-Nail

Pre-Assembled Corrosion Resistant Fastener and Plate Assembly for Cement Wood Fiber and Poured Gypsum Roof Decks

FEATURES

- Galvalume coated steel
- Pre-assembled fastener and plate
- Available in 4 lengths
- Factory Mutual Approved
- Greater holding power than competitive designs

BENEFITS

- Corrosion resistant
- Ready to use
- Reduces installation time and labor cost
- Used to secure base sheet or insulation to roof deck
- Wind uplift protection
- Less fasteners required for FM I-90 Approval

DESCRIPTION

The Tremco/ES Products Twin Loc-Nail is a single piece pre-assembled fastening unit consisting of a tube, disc and locking staple. The tube is formed from Galvanized coated steel and is available in four different lengths. The disc is formed from Galvalume coated steel and is securely clamped to the tube. The locking staple is formed from high tensile steel wire that is coated to prevent corrosion. The locking staple is preloaded into the tube and is set when the Twin Loc-Nail is driven.

BASIC USES

The Tremco/ES Products Twin Loc-Nail is designed to secure asphalt coated base sheets and insulation boards to new and existing cement wood fiber decking (Tectum) and poured gypsum decking. In addition, The Tremco/ES Products Twin Loc-Nail may also be used as a roof fastener for lightweight insulating concrete substrates. After the Twin Loc-Nail is set into the roof deck, the two locking staples at the point of the fastener are driven further and spread out into the deck. This action anchors the fastener and provides superior uplift resistance.

SIZES/ PACKAGING

Each fastener is pre-assembled with a 2.7" (68.6 mm) diameter disc. Available in full cases only.

LENGTH	QUANTITY/BOX	SHIPPING WEIGHT
1.8" (45.7 mm)	500	28 lbs.
2.8" (71.1 mm)	500	45 lbs.
3.8" (96.5 mm)	250	23 lbs.
4.8" (121.9 mm)	250	27 lbs.

REFERENCES

Factory Mutual Loss Prevention Data Sheets:

- 1-28 Design Wind Loads
- 1-29 Above Deck Roof Components

PULLOUT TESTS

When reproofing a structure, one method for determining the integrity of the existing roof deck is by measuring the pullout resistance strength of a fastener. Contact your Tremco Representative for further information and to schedule a pullout test.

PRECAUTIONS

Working on any roof can be dangerous. Every necessary precaution and safety guideline should be observed in accordance with proper roofing trade practice.

FASTENER SELECTION

The Tremco/ES Products Twin Loc-Driver must be embedded into the structural deck to a depth of 1" (25.4 mm) minimum. Specify a fastener length which will secure the insulation and provide a minimum 1" fastener embedment.

APPLICATION

The ES Products' Twin Loc Driver (approx length 1 meter) must be used to properly install the Tremco/ES Products Twin Loc-Nail. The Twin Loc-Driver is exclusively designed to position the exposed staple into the slot on the driver face. Competitive magnetic drivers for installing lightweight concrete fasteners cannot be used because they do not have a slotted face. Two impacts with the Twin Loc-Driver are re-quired in order to properly set the Twin Loc-Nail.

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APPLICATION CONTINUED

1. Pickup or place the Twin Loc-Nail onto the magnetic head on the Twin Loc-Driver and
2. Drive the fastener through the roof component to be attached (insulation or base sheet) using a vertical motion to seat the fastener cap flush with the roof surface. (This will attach the roof component to the substrate).
3. Finally, lift the magnetic head of the Twin Loc-Driver and turn slightly to remove the staple from the driver head slot and drive the staple through the fastener with a second impact until the top of the staple is flush with the cap.

When the locking staple is driven, the dual wire staples are pushed into the deck. The wire staples curve outward into the deck and anchor the fastener securely into place. Uplift and pullout resistance may vary depending on the density and integrity of the substrate.

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Fastener Tube Length:	1.8" (45.7 mm), 2.8" (71.1 mm), 3.8" (96.5 mm), 4.8" (121.9 mm)
Disc Diameter:	2.7" (68.6 mm)
Disc Thickness:	0.018" (0.45 mm)
Fastener Tube Material Type	Galvanized steel
Disc Material Type:	Galvalume (AZ-55)
Locking Staple Diameter:	0.080" (2.0 mm)
Locking Staple Material Type:	Corrosion resistant high tensile steel wire
Pullout Strength:	
Lightweight Insulating Concrete:	100 lbf minimum
Gypsum	200 lbf typical

MAINTENANCE

Your local Tremco Roofing representative can provide you with effective maintenance procedures, which may vary depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the service of the Tremco Service Staff.



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