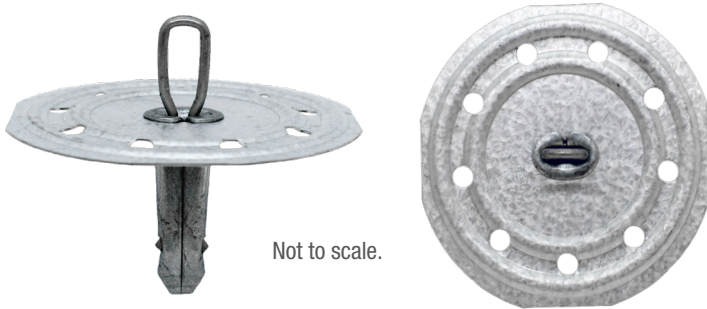
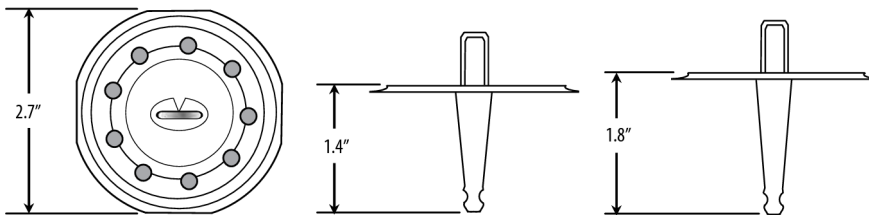




PRODUCT DESCRIPTION

TRUFast[®] Twin Loc-Nail fasteners are specifically engineered to secure base sheet, recovery board, and insulation to lightweight insulating concrete, structural woodfiber, and poured gypsum. The tapered tube is designed to easily penetrate decking and existing membranes. The disk is securely clamped to the tube and is rib reinforced to resist cupping.

PRODUCT SPECIFICATIONS



PRODUCT SELECTION

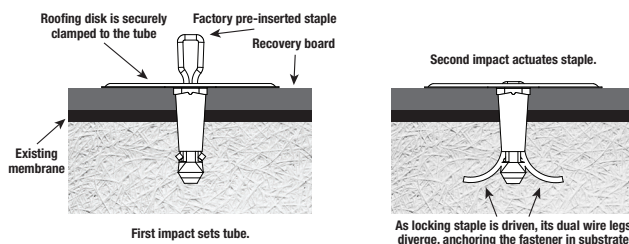
Fastener Part No.	Part Length	Pkg. Qty.	Pkg. Wt.	Pallet Qty.
TWL-1400	Twin Loc-Nail, 1.4" (35.6 mm)	500	24.6 lbs.	15,000
TWL-1800	Twin Loc-Nail, 1.8" (45.7 mm)	500	26.8 lbs.	15,000

Tool Part No.	Part Description	Dia. of Driving Plate	Pkg. Wt.
A-ES-TWL	Twin Loc Driver - 39" overall length	3"	6 lbs.

INSTALLATION

Always use a Twin Loc Driver or Twin Loc Insulation Driver to install Twin Loc-Nail fasteners.

- Drive Twin Loc-Nail fastener perpendicular to roof deck, seating the fastener disk flush with the roofing surface.
- Once tube is set, drive the locking staple into the tube/disk unit until the top of the staple is flush with the cap.
- When the locking staple is driven, its dual wire legs diverge, anchoring the fastener in place. Uplift resistance may vary depending on the density and integrity of the substrate.



CODE APPROVALS & LISTINGS

FM Global



Miami-Dade
County



Florida Building
Code

FL#: 4500

MATERIAL SPECIFICATIONS

Tube: Precision formed from coated steel to prevent corrosion.

Disk: Precision formed from coated steel to prevent corrosion, 2.7" diameter.

Locking Staple: Precision formed from stainless steel wire.



Twin Loc
Driver

USING THE TWIN LOC-NAIL

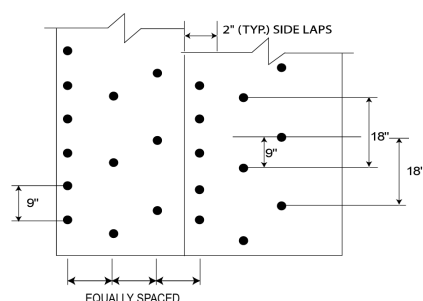
Fastener density and spacing vary depending on applicable uplift requirements. Local codes, governing approval bodies, membrane manufacturers, and individual roofdeck manufacturers all have specific requirements that need to be addressed prior to beginning any roofing project. Consult FM Global or Miami-Dade County requirements for recommended pattern in normal, exposed, and hurricane areas.

On-site withdrawal testing should always be performed to evaluate the ability of the roofing substrate to satisfactorily accept and retain fasteners.

Such testing may alter fastener selection and modify applicable fastening patterns.

The Twin Loc-Nail should always be embedded into the structural roofdeck to a depth of at least 1". The following illustrates typical FM Global recommended fastening patterns widely accepted by membrane and roofdeck manufacturers.

SAMPLE FASTENING PATTERN I

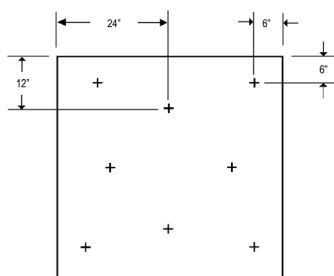


Base sheet attachment for built-up or modified bitumen roof covers class I-90 windstorm classification

An FM approved base sheet is fastened in the field on the roof with Twin Loc-Nails installed 9" on center in 2" wide base sheet side laps and 18" on center staggered in 2 rows, equally spaced, between the base sheet side laps.

When fastening meter-wide material with this pattern, expect to use approximately 86 fasteners per square (100 ft²).

SAMPLE FASTENING PATTERN II

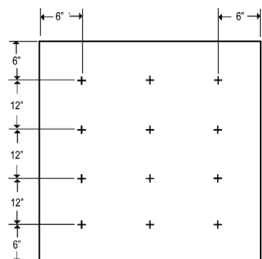


Recovery board and insulation attachment under built-up and modified bitumen roof covers, class I-90 windstorm classification

An FM approved recovery board/insulation, suitable for use with minimum 3-ply built-up or modified membranes, is fastened with 8 Twin Loc-Nail fasteners per 4' x 4' board in a diamond in a box pattern (1 fastener per 2 ft²).

Consult Factory Mutual Research Corporation (FMRC) for a complete listing of approved recovery boards/insulations.

SAMPLE FASTENING PATTERN III



Recovery board and insulation attachment under fully adhered single ply membranes, class I-90 windstorm classification

An FM approved recovery board/insulation, suitable for use with fully adhered single-ply membranes, is fastened with 12 Twin Loc-Nail fasteners per 4' x 4' board in 4 rows of 3 fasteners per row (1 fastener per 1.33 ft²).

Consult FMRC for a complete listing of approved recovery boards/insulations.

Bulletin No. TF-22079

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.