

PLYFAST™ DOUBLE-LOCK NAIL

Product Data Sheet

Product Name: PLYFAST™ Double-Lock Nail

Product Description: Factory preassembled components consisting of: **Tube:** Precision formed from galvanized (G-90) coated steel to prevent corrosion. The tube is shaped to easily penetrate decking and existing membranes. **Disk:** Precision formed from Galvalume (AZ-55) coated steel to prevent corrosion. Securely clamped to the tube, 2.7" diameter, rib reinforced to resist cupping. **Locking Staple:** Precision formed from high tensile steel wire, coated to prevent corrosion.

Use: PlyFast™ Double-Lock Nails are designed to attach base sheets, recovery boards and insulation to lightweight insulating concrete, cementitious wood fiber and poured gypsum roof decks.

Approvals: PlyFast™ Double-Lock Nail is listed or approved with Factory Mutual (FM). Contact U.S. Ply, Inc. for specific/applicable codes.

Fastening Pattern: Consult Factory Mutual requirements for recommended patterns in normal, exposed, and high wind velocity areas.

Field Testing: 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 Double-Lock Nail should always be embedded into the structural roof deck to a depth of at least 1".

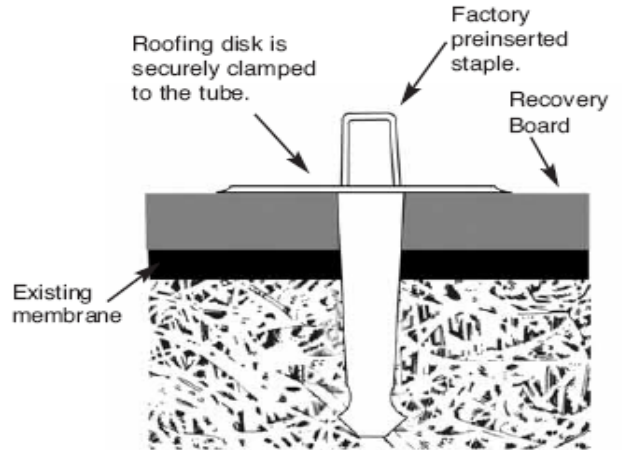
INSTALLATION:

Equipment: Always use PlyFast™ Double-Lock Drivers. Consult manufacturer for the specific driver for your application. **Method:** Drive fastener perpendicular to roof deck seating cap flush with roofing surface. Once tube is set, drive the locking staple thru the tube/disk unit into the deck until the top of the staple is flush with the cap (see illustration). **Operation:** When locking staple is driven, its dual wire legs diverge anchoring the fastener in place (see illustration). Uplift resistance may vary depending on the density and integrity of the substrate.

Packaging:

1.4", 1.8", 2.8" and 3.8" PlyFast™ Double-Lock Nails are packaged 500 per carton. 4.8" PlyFast™ Double-Lock Nails are packaged 250 per carton.

Limited Warranty: U.S. Ply, Inc. warrants this product for one year from date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. U.S. Ply, Inc. is not responsible for any failure attributable to improper use or installation in any manner inconsistent with manufacturer's specifications. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE. This warranty provides specific legal rights and remedies which may vary from state to state.



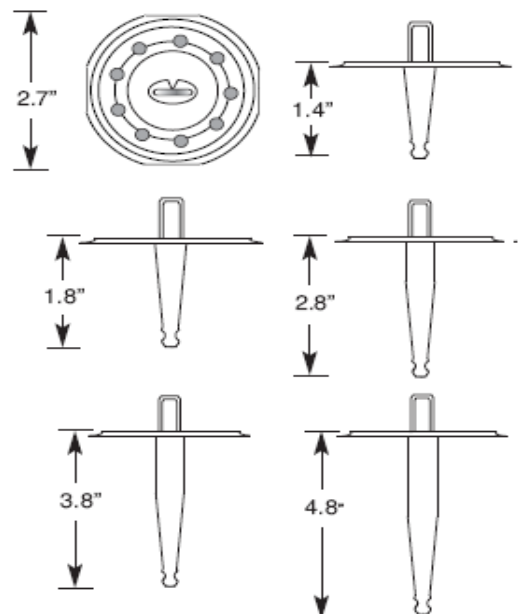
First impact sets tube.

Second impact actuates staple.



As locking staple is driven, its dual wire legs diverge anchoring the fastener in place.

5 LENGTHS



U.S. PLY, INC.

A DANNY ADAIR COMPANY

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USING THE PLYFAST™ DOUBLE-LOCK NAIL:

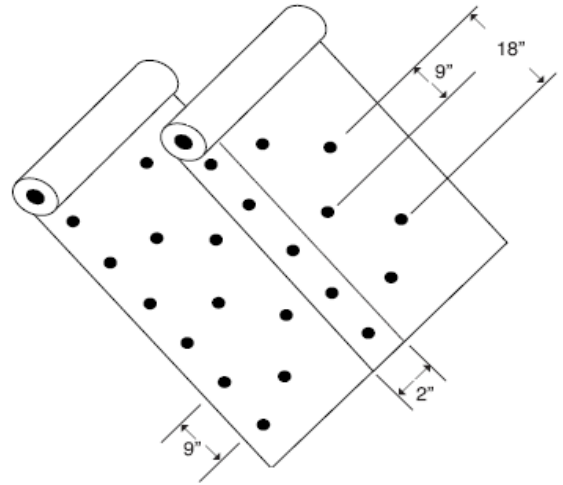
Fastener density and spacing vary depending on applicable uplift requirements. Local codes, governing Approval bodies, membrane manufacturers, and individual roof deck manufacturers all may have specific requirements that need to be addressed prior to beginning any roofing project. **The Double-Lock Nail should always be embedded into the structural roof deck to a depth of at least 1".** The following illustrates typical Factory Mutual recommended fastening patterns widely accepted by membrane and roof deck manufacturers.

Fastening Guide 1

Base Ply Attachment for Built-Up or Modified Bitumen Roof Covers. Class I-60, I-75, or I-90 Windstorm Classification.

An FMRC Approved base ply is fastened in the field of the roof with Double-Lock Nails installed 9" on center in the 2" wide base ply side laps and 18" on center staggered in 2 rows, equally spaced, between the base ply side laps.

When fastening English wide material with this pattern, expect to use approximately 100 fasteners per square (100 FT²).



Fastening Guide 2

Recovery Board and Insulation Attachment under Built-Up and Modified Bitumen Roof Covers. Class I-90 Windstorm Classification.

An FMRC Approved Recovery Board/ Insulation suitable for use with minimum 3 ply built-up or modified membranes is fastened with 8 Double-Lock Nails per 4' x 4' board in a diamond in a box pattern. (1 fastener per 2 ft.²).

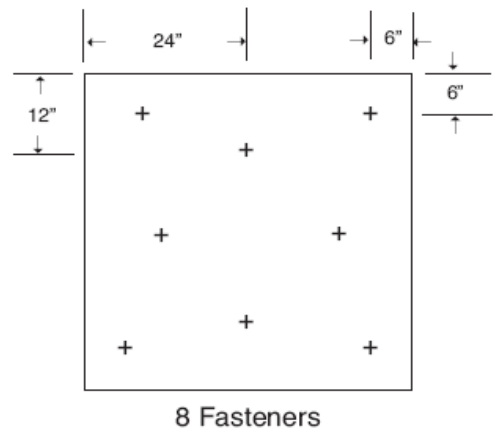
Consult FMRC for a complete listing of Approved recovery boards/insulations.

Fastening Guide 3

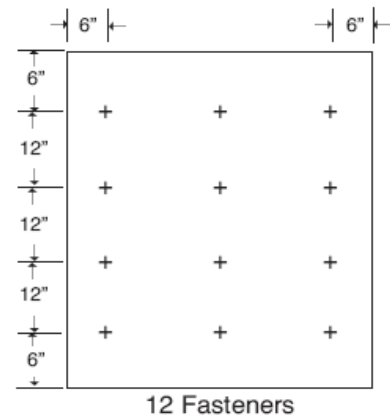
Recovery Board and Insulation Attachment under Fully Adhered Single Ply Membranes. Class I-90 Windstorm Classification.

An FMRC Approved Recovery Board/ Insulation suitable for use with fully adhered single ply membranes is fastened with 12 Double-Lock Nails per 4' x 4' board in 4 rows of 3 fasteners per row. (1 fastener per 1.33 ft.²).

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



8 Fasteners



12 Fasteners

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