

TRI-BUILT® Synthetic Felt

OVERVIEW

TRI-BUILT® Synthetic Felt is a high strength woven synthetic roof underlayment that can save you 50% in labor & time expense. TRI-BUILT® Synthetic Felt is faster, stronger and more durable than Type 30 felt.

SYNTHETIC FELT ADVANTAGES

- The most slip resistant underlayment in the industry.
- Approved for use with 3/8" head roofing nails or plastic cap roofing nails.
- 20 times stronger than felt; won't tear-off or buckle when wet.
- 10x lighter per square and 20x stronger than 30# felt.
- 10 squares per roll weighing only 30 lbs.
- UV resistant and can be exposed for up to 6 months.
- Light gray color reduces heat and provides cooler working surface.
- Pre-printed nailing pattern speeds installation.
- We will custom print your logo, company name and phone in full color, with only a 18 roll min. order!

COMPARISON

| | TRI-BUILT® Synthetic Felt | #30 Felt |
|-----------------------------|-----------------------------|--|
| Composite Material | Polypropylene | Asphalt and Paper (337 m x 1000 mm) |
| Weight per roll | 30 lbs. | 60 lbs. |
| UV-Resistant | Up to 6 months | No |
| Anti-Slip Surface | Engineered textured surface | No |
| Tear-Resistant | 20x that of 30# felt | No |
| Limited Warranty | 30 Years | No |
| Class A Fire Rated | For better roof protection | No |
| Pre-Printed Nailing Pattern | YES | No |
| Roll Length | 250 ft. | 72 ft. |
| Roll Width | 48 in. | 36 in. |
| Tensile Strength | 120 lbs" (MD) 80 lbs" (CD) | 40 lbs" (MD) 20 lbs" (CD) |

CODE COMPLIANCE

ASTM D 226, Type II Standard specification for asphalt-saturated organic felt used in roofing and waterproofing.

ASTM D 2626 Standard specification for asphalt-saturated and coated organic felt base sheet used in roofing.

ICC-ES AC 207 Acceptance criteria for polypropylene underlayments.

CSA A 220.1 - 06 Installation of concrete roof tile.

CSA A 123.3 - 98 Asphalt saturated organic roofing felt.

ASTM E 108/UL 790 – Class A Standard test methods for fire tests of roof coverings.

Miami-Dade NOA No. NOA 06-0919.01

APPLICATION GUIDELINES

Before Installing TRI-BUILT® Synthetic Felt

Ensure the roof deck or substrate is properly fastened, has no significant delamination, warpage, bowing or separation from the rafters, trusses or support structures and is free of debris, clean and smooth before the underlayment is applied.

TRI-BUILT® Synthetic Felt shall be installed using compatible materials and conform to best building practices. Verify the application is compliant with applicable building codes.

TRI-BUILT® Synthetic Felt is not designed or intended to be the final or primary roof. Consult with your local sales representative for further information.

As with all roofing materials, always observe safe roofing practices (OSHA) and local building and safety codes. Use caution when walking or standing on TRI-BUILT® Synthetic Felt. Moisture, dust, snow, ice, debris and other job site conditions may change the coefficient of friction of TRI-BUILT® Synthetic Felt. Failure to use proper safety equipment and footwear can result in serious injury or death.

Installation – General

Fastening methods and materials should conform to best building practices and local job site conditions. Verify final application to be compliant with the requirements of applicable building codes.

Verify compatibility according to geographical region, structure type and roof specification with applicable building codes and/or by review of a building professional.

Install TRI-BUILT® Synthetic Felt print side up, horizontal (parallel) to the eave, with minimum 4" (102 mm) horizontal laps and 6" (152 mm) vertical laps. Overlaps shall run with the flow of water in a shingling fashion.

Minimum finished roof slope is 2:12 (17%). For roof slopes greater than 2:12 (17%) and less than 4:12 (33%), laps shall be increased to 25" (635 mm).

Fasteners shall either be corrosive-resistant roofing nails with a minimum head diameter of 3/8" or plastic capped roofing nails with a minimum plastic cap diameter of 1". Fasteners shall be 90° to the roof deck and shall not be under or over driven.

For other installation considerations, including concrete and/or clay tile installation without the use of battens or counter battens, roof claddings with exposed mechanical fasteners, fire classification and application in high velocity hurricane zones, please contact TRI-BUILT® for details.

Short-Term Exposure

For short-term exposure (less than 24 hrs. before primary roof installation is completed) without exposure to precipitation or high wind (any signs of underlayment uplifting), corrosive-resistant fasteners may be used to nominally attach underlayment as necessary to prevent distortion around fasteners in high traffic areas. The final roof covering will permanently affix underlayment in place.

2 – 29 Day Exposure

Applications that are not immediately covered (within 24 hours) by the primary roof covering or are subject to basic wind speeds (fastest mile) in excess of 90 miles per hour (145 km/hour, Uniform Building Code) or basic wind speeds (3-second gust) in excess of 110 miles per hour (177 km/hour, International Residential Code and International Building Code) shall be attached using corrosive resistant mechanical fasteners, spaced 12" (304 mm) on center along both horizontal and vertical laps and 24" (610 mm) on center along the center of the roll in the field of the roof.

30 – 180 Day Exposure

For underlayment applications that are not covered by the primary roof covering within 30 days and/or for applications in high wind (any signs of underlayment uplifting) zones, lap widths shall be doubled and fastening frequency increased to 6" (15.5 cm) on center for horizontal and vertical laps and 12" (30.5 cm) on center along the center of the roll.

Additionally, it is recommended that a caulk or sealant material be applied between laps before fastening to prevent moisture ingress in areas of high wind.

For a primary roof covering requiring attachment through a batten system, the underlayment need only be preliminarily attached pending attachment of battens or counter battens. Battens or counter battens shall not be secured directly over raised fasteners, including plastic capped roofing nails.

Repairs

Repair damage to the underlayment with caulk or sealant material maintaining a water-tight seal around the damaged area and proper overlaps to run with the flow of water in a shingling fashion. Ensure any incorrectly applied fasteners are caulked and/or sealed to prevent possible moisture ingress.

Precautions

TRI-BUILT® Synthetic Felt can be exposed to ultraviolet conditions for up to 6 months. Severe weather and/or local job site conditions may require a shorter exposure period. Please contact TRI-BUILT® for further information. TRI-BUILT® Synthetic Felt is not designed to function as the primary roof covering and is intended to function as a secondary water shedding layer under most steep-sloped roofing materials. Verify compatibility with applicable roof cladding manufacturer's published installation instructions.

As with any roofing product, always be careful to observe safe roofing codes and practices as by OSHA Regulation Standard 29CFR and Fall Protection Systems Criteria and Practices - 1926.502.

Verify final application to be compliant with applicable building codes.

NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN AS TO THE MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR OTHERWISE FOR APPLICATIONS OUTSIDE THE SCOPE OF THESE INSTALLATION GUIDELINES.