

# TRI-BUILT® HIGH PERFORMANCE UNDERLAYMENT

## OVERVIEW

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

## SYNTHETIC FELT ADVANTAGES

- The most slip resistant underlayment in the industry.
- Approved for 6 months UV exposure using either 3/8" head roofing nails or plastic cap roofing nails.
- Won't tear-off or buckle when wet.
- 20x stronger than 30# felt.
- 10x lighter than 30# felt, 10 squares per roll weighing only 32 lbs.
- UV resistant, 6 month exposure rating.
- 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	32 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	Lifetime	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	126 lbs" (MD) 92 lbs" (CD)	40 lbs" (MD) 20 lbs" (CD)
Class 4 Hail Rating	YES	NO

## CODE COMPLIANCE

- ICC-ES AC188 (ESR-1293)
- ASTM D226 Type I & II
- ASTM D4869 • CSA A 123.3 Type 1 & 2
- FBC FL 17873
- Texas Dept. of Insurance (TDI)

## APPLICATION GUIDELINES

### BEFORE INSTALLING TRI-BUILT® High Performance Underlayment

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® High Performance Underlayment shall be installed using compatible materials and conform to best building practices. Verify the application is compliant with applicable building codes. 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® High Performance Underlayment. Moisture, dust, snow, ice, debris and other jobsite conditions may change the coefficient of friction of TRI-BUILT® High Performance Underlayment. 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 jobsite 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® High Performance Underlayment print side up, horizontal (parallel) to the eave, with minimum 3 inch (76 mm) horizontal laps and 6 inch (152 mm) vertical laps. Overlaps shall run with the flow of water in a shingling fashion.

### INSTALLATION GUIDELINES & LIMITED LIFETIME WARRANTY

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 22 inches (560 mm).

In jurisdictions where the use of TRI-BUILT® High Performance Underlayment in valley applications is permitted by local building codes TRI-BUILT® Materials Group recommends that TRI-BUILT® High Performance Underlayment be applied as valley liner in accordance with applicable building codes and industry standards/guidelines. Woven or closed-cut valleys are not recommended.

### INSTALLATION GUIDELINES

**24 Hour Exposure:** For short-term exposure (less than 24 hours before the primary roof installation is completed) without exposure to precipitation or high wind (any signs of underlayment uplifting), corrosive-resistant roofing nails may be used to nominally attach the underlayment only as necessary to prevent distortion around fasteners in high traffic areas. The final roof covering will permanently affix the 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 roofing nails with a minimum head diameter of 3/8 inches or plastic capped roofing nails or staples with a minimum plastic cap diameter of 1 inch, spaced 24 inches (203 mm) on center along both horizontal and vertical laps and 36 inches (610 mm) on center along the center of the roll in the field of the roof. Fasteners shall be 90° to the roof deck and shall not be under or over driven.

**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 12 inches (10.2 cm) on center for horizontal and vertical laps and 18 inches (61 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 damaged to the underlayment with asbestos free, low solvent, plastic roofing cement, sealant conforming to ASTM D 4586, Type 1, Federal Spec SS153 Type 1 or butyl, urethane, or EPDM caulk. Ensure any incorrectly applied fasteners are caulked and/or sealed to prevent possible moisture ingress.

### PRECAUTIONS

TRI-BUILT® High Performance Underlayment can be exposed to ultraviolet conditions for up to 180 days. Severe weather and/or local jobsite conditions may require a shorter exposure period. Please contact TRI-BUILT® Materials Group, LLC for further information.

TRI-BUILT® High Performance Underlayment is not designed to function as the primary roof covering and is intended to function as a secondary water shedding layer under code-compliant exterior roof claddings. Verify final application to be compliant with applicable building codes.

A LIMITED LIFETIME WARRANTY APPLIES TO TRI-BUILT® HIGH PERFORMANCE UNDERLAYMENT. NO OTHER 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 AND THE PUBLISHED LIFETIME LIMITED WARRANTY.