TRI-BUILT™

Synthetic Roof Underlayment

TRI-BUILT® Synthetic Underlayment is designed to replace traditional felt paper for sloped roof applications. TRI-BUILT® Synthetic Underlayment has been engineered for maximum roofer comfort and productivity. With its lightweight 10 square rolls and slip resistant surface, TRI-BUILT® Synthetic Underlayment is easy to handle and fast to install. **Ask for it today!**

TRI-BUILT® Synthetic Underlayment Features & Benefits

- Meets ASTM D226 Types I & II and D4869 Types II & IV
- Durable, slip-resistant walking surface
- 60 days UV exposure
- Up to 12 times stronger than #15 felt*
- 6 squares more per roll than #15 felt**
- Easy to install – 42" wide lightweight rolls
- Synthetic construction is inert to mold growth
- Lays flat and does not absorb water and wrinkle
- Advanced backside non-slip coating
- Low temperature flexibility
- CAN/CSA A123.3
- CCRR-1067
- ASTM E108/UL790 Class A Fire Resistance (when installed under asphalt shingles)
- Texas Department of Insurance Listed
- Florida Building Code Approved (FL22259-R2)

TRI-BUILT® Synthetic Underlayment Roll & Pallet Specs

Length per Roll:	286' / 87 m
Width per Roll:	42" / 1.1 m
Nominal Weight per Roll:	23.5 lbs / 10.6 kg***
Roll Size:	10 sq / 93 m^2
Rolls per Pallet:	67
Pallet Weight:	1,626 lbs / 738 kg

*Test & Standard	TRI-BUILT® Synthetic Underlayment Typical Value
Permeability ASTM E96	.05 Perms
Liquid Water Transmission ASTM D4869	Pass
Tear Strength ASTM D4533	MD 33 lbs (15 kg) | CD 24 lbs (11 kg)
Tensile Strength ASTM D751	MD 88 lbs (40 kg) | CD 70 lbs (32 kg)
Burst Strength ASTM D751	158 psi (1089 kPa)
Elongation ASTM D751	MD 20% CD 20%
Weight per Square ASTM D5261	2.25 lbs (1 kg)
Nominal Thickness ASTM D1777	7 mils (0.18 mm)
Service Range	-40 °F to 240 °F (-40 °C to 115 °C)

* Test data is based on average of samples tested in accordance with ASTM D2261.
** Coverage per roll is 9.09 sq with a 4" horizontal overlap.
*** Includes core weight.

**** TRI-BUILT® Synthetic Underlayment is manufactured in accordance with national standards which allow for non-critical variances in weights and measurements. Test data is based on an average taken over several production runs and should not be considered or interpreted as maximum or minimum values. Values are typical data and not limiting specifications. All values ± 10%.

For use under Asphalt Shingles, Synthetic Shingles, Residential Metal Roofing and Cedar Shakes

TRI-BUILT® Synthetic Underlayment is a highly engineered, coated woven protective layer for sloped roofs. TRI-BUILT® Synthetic Underlayment has a high strength design and durable nonwoven walking surface that delivers a considerable improvement over felt paper. The durable nonwoven walking surface has clearly marked nail guides and can be chalked just like felt paper.

Gain an edge in productivity and help increase profits. TRI-BUILT® Synthetic Underlayment is lightweight, 42 inch width and 286 foot run length allows for fewer laps, cuts, and easier roll handling compared to felt. This means you can do more jobs in less time, use less labor, and inventory fewer rolls.

TRI-BUILT® Synthetic Underlayment is up to 12 times stronger than #15 felt. It offers exceptional wind resistance and durability through heavy roof traffic and adverse weather conditions. TRI-BUILT® Synthetic Underlayment can save you time and money with less material damage and fewer post-install repairs. Stay on track, take on more jobs, and sleep assured knowing your TRI-BUILT® Synthetic Underlayment projects will remain intact.

Unlike traditional asphalt-saturated felts, TRI-BUILT® Synthetic Underlayment can be used in extremely low temperatures without becoming stiff and difficult to unroll. It also does not dry out, crack, or leach oils in the heat like felt. TRI-BUILT® Synthetic Underlayment is 100% synthetic and will not absorb water or wrinkle like felt. It lays flat and does not support mold growth.

TRI-BUILT® Synthetic Underlayment can also be used in conjunction with Titanium® PSU30 self-adhered underlayments for ice damming protection along the eaves and in the valley areas.

TRI-BUILT® Synthetic Underlayment will continue to protect your primary roofing long after felt.

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Installation Instructions:

TRI-BUILT® Synthetic Underlayment is an air, water and vapor barrier and therefore must be installed above a properly ventilated space(s). Follow ALL building codes applicable to your geographical region and structure type as it is considered a vapor barrier.

DECK PREP: All protrusions from the deck area must be removed and ensure the deck has no voids, damaged or unsupported areas. Deck surface should be free of debris, dry and moisture-free.

USE: TRI-BUILT® Synthetic Underlayment must be covered by primary roofing within 60 days of application. TRI-BUILT® Synthetic Underlayment is designed for use under asphalt shingles, synthetic shingles, residential metal roofing and cedar shakes.

APPLICATION: For slopes from 2:12 and higher, TRI-BUILT® Synthetic Underlayment is to be laid out horizontally (parallel) to the eave with the printed side up. Horizontal laps should be 4 inches and vertical laps should be 6 inches and anchored approximately 1 inch in from the edge. For low slope applications, it is recommended to overlap 50% plus 1 inch, for complete definition of low slope and guidelines consult authorities having jurisdiction. TRI-BUILT® Synthetic Underlayment product is not recommended for slopes less than 2:12. The use of roofing hammers, pneumatic air or gas driven fastener tools are acceptable. The use of straight edge cutting knives is recommended.

FASTENERS: For **same day** coverage with primary roofing, TRI-BUILT® Synthetic Underlayment can be anchored with corrosive resistant 3/8 inch head x 1 inch leg roofing nails (ring shank preferred, smooth leg acceptable). The use of every other anchoring location printed on the product is also acceptable. If TRI-BUILT® Synthetic Underlayment will be left exposed for up to 60 days, the product must be anchored with 1 inch plastic or metal cap smooth or ring shank roofing nails and anchored in all locations printed on the facer. **DO NOT USE STAPLES:** the use of staples to penetrate TRI-BUILT® Synthetic Underlayment will void warranty.

ANCHORING: All anchoring nails must be flush, 90 degrees to the roof deck, and tight with the underlayment surface and the structural roof deck. Where seams and joints require sealant or adhesive, use a low solvent plastic roofing cement meeting ASTM D-4586 Type 1, or Federal Spec SS-153 Type 1. Acceptable alternatives are butyl rubber, urethane, and EDPM based caulk or tape sealant.

EXTENDED EXPOSURE: If TRI-BUILT® Synthetic Underlayment product will be exposed longer than 24 hours and up to 60 days then product must be attached to the structural roof deck using a minimum 1 inch diameter plastic or metal cap roofing nails (ring shank preferred but smooth leg acceptable). Miami-Dade approved tin tags or metal caps are also acceptable. It is recommended for best performance to use with the rough edge facing up. For extended exposure, it is always recommended to anchor on every printed position on the facer. TRI-BUILT® Synthetic Underlayment is not designed for indefinite outdoor exposure. For extended exposure conditions where driving rain or strong winds are expected, it is recommended to take additional precautions such as doubling the lap widths. Alternately or in addition to a compatible sealant could be used between the laps or a peel and stick tape could be applied to the overlaps.

CAUTION — READ GOOD SAFETY PRACTICES BELOW

Good safety practices should be followed on steep slope roofs, such as use of tie-offs, toe boards, ladders and/or safety ropes and personal body harnesses. Follow OSHA guidelines. Slip resistance may vary with surface conditions from debris that accumulates, weather, footwear and roof pitch. Failure to use proper safety gear can result in serious injury. Depending on roof pitch and surface conditions, blocking may be required to support materials on the roof and is good safety practice. Remember to seal the nail holes after removing blocking.