

FEATURES & BENEFITS

ALCO Shield 15 Synthetic is a high-strength, light weight, engineered synthetic roofing underlayment that saves labor, time, and installed costs, when compared to Standard No. 15 Saturated Felt underlayments.

FOR USE UNDER ASPHALT SHINGLES ONLY

- Less than 1/3 the weight, per square, of current Standard No.15 Saturated Felt (ALCO Shield 15 Synthetic weighs only 2 lbs. per square)
- Reinforced nail-strip is engineered to speed installation and protect against tearing away
- Unique surface construction is engineered for durability and walkability for the installer
- Resists damage from weather exposure better than standard No. 15 felt (30 days maximum exposure, not a permanent “Dry-In” product)
- 25% of the number of rolls to carry onto the roof - with 2-1/2 times the coverage per roll
- Full ALCO Products Warranty

Improved Overall Performance

Providing better water penetration resistance, fastener holdout and overall durability than traditional Asphalt Saturated Felt, ALCO Shield 15 Synthetic underlayment is measurably stronger than traditional Asphalt Saturated Felt. ALCO Shield Synthetic is designed to resist tearing and blow-offs. The lightweight ALCO Shield 15 Synthetic physical properties also provide for easier installation. The ALCO Shield 1,000 SF of material per roll provides measurable cost savings in both material and labor, and is a superior installation as compared to Asphalt Saturated Felt underlayment products.

Compare the distinct difference for yourself:



NEW
Patent-Pending
Process

The ALCO Shield 15 Synthetic underlayment product offers installers ease of installation because of weight, roll width and its non-slip properties. The unique stitched pattern provides strength not found in felt paper.

Visit our Website for more information

Comparison: ALCO Shield 15 Synthetic vs. Standard No. 15 Felt Paper

	ALCO Shield 15 Synthetic	Standard No. 15 Felt Paper
Inorganic Material	YES	Asphalt Saturant Only
Weight per Roll	20 lbs.	40 lbs.
Resists weather damage	YES - Strong in wet conditions	No - Tears easily when wet
Anti-slip Surface	YES	No
Tear-Resistant	YES	No
Warranty	YES	No
Material Per Roll	1000 sq. ft.	432 sq. ft.
Pre-stitched Nail Pattern	YES	No
Roll Width	42 in.	36 in.
Roll Length	286 linear feet	144 linear feet

ALCO Products offer installers a complete line of roof protection products.

Your Second Line of Defense™

800.323.0029 | www.alco-products.com

ALCO Shield 15 Synthetic is engineered for installation under asphalt shingles only.

Assure that all possible safety measures and practices are followed in all roofing installations.

Prior to installation: Ensure that the roof deck is solid, clean, smooth, and dry before beginning installation.

Fastening methods and material should conform to best roofing practices, local building code and jobsite conditions. Verify final application to be compliant with the requirements of all applicable building codes.

ALCO Shield 15 Synthetic is laid out horizontally (parallel) to the eave with the reinforced nail lanes side up, with 4" (101 mm) horizontal laps and 6" (152 mm) vertical laps.

On roof slopes less than 3/12, ALCO Shield 15 Synthetic should be lapped at 22" (56 cm), or to the center, over the underlying course, all the way up the deck, providing a "double coverage" installation.

ALCO Shield 15 Synthetic should be attached to the roof using min. 1" length, standard roofing nails having a (1" (25 mm) diameter plastic cap. Spacing should be at 8" (20 cm) on center at both horizontal and vertical lap joints for normal wind zones. **In high wind zones and coastal areas:** ALCO Shield 15 Synthetic should be fastened at 4" (101 mm) at both horizontal and vertical laps. In all cases fasten at 22" (56 cm) on center at 12" fastener spacing along the center of the roll in the field of the roof.

On roof slopes less than 3" in 12", ALCO Shield Synthetic 15 should be lapped at 22" (56 cm), or to the center, over the underlying course, all the way up the deck, providing a "double coverage" installation.

The use of staples and 3/8" head diameter EG smooth shank roofing nails (without plastic caps) to attach ALCO Shield 15 Synthetic **is permitted only when the final roof covering is to be installed the same day.**

Pneumatic staple guns are not recommended as they may penetrate through the materials.

Where seams and joints require the use of sealant or adhesives, use one of ALCO PRODUCTS asbestos free roof cements, (ALCO 24/7 Flashing Cement, ALCO Wet Bond Roof Cement or ALCO Plastic Roof Cement meeting ASTM D-4586 Type 1, Federal Spec SS-153 Type 1. (Please go to www.alco-products.com for coverage's and application methods or call 800.323.0029 for recommendations).

It is the responsibility of the installer to ensure installation is completed according to directions, and that all construction by-laws and codes are met. Verify compatibility according to geographical region, structure type and roof specifications with applicable building codes and/or by review of a building professional.

Depending on roof pitch and surface conditions, it is recommended that roof jacks, toe-boards or a storage platform be secured to support additional roofing materials placed on roof.

ALCO Shield 15 Synthetic is not designed for indefinite outdoor exposure as a "Dry-In" roof covering material. ALCO recommends installation of the final roof covering to take place within 30 days using cap fasteners, if using standard uncapped fasteners, install the final roof covering within 24 hours. As with any roofing product, always be careful to observe safe roofing codes and practices as outlined by OSHA Regulation Standard - 29CFR and Fall Protection Systems Criteria and practices - 1926.502 or your local regulations.

Made in USA

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ALCO Shield 15 Synthetic underlayment has a unique patent pending stitched pattern and manufacturing process offering both strength and lightweight handling characteristics.

ALCO 15 Synthetic Test Results

Test	ASTM Test Method	Requirements	Test Results
D226 Requirements (Type I)			
Tensile Breaking Strength (lb/in)	D146 sec 13	MD 30 CD 15	PASS
Pliability - 90 degree bend (77° F, 1/2" radius)	D146 sec 14	No Cracking	PASS
Loss on Heating	D146 sec 15	< 4%	PASS
Ease of Unrolling at 50° F and 140° F	D226 sec 6.2	Pass	PASS
D4869 Requirements (Types I and II)			
Tensile Breaking Strength (lb/in)	D882	MD 30 CD 15	PASS
Tear Propagation (Elmendorf)	D288 sec 13 (D1922)	MD/CD > 0.45 lb _f	PASS
Pliability - 90 degree bend (73° F, 1/2" radius)	D146 sec 14	No Cracking	PASS
Loss on Heating	D146 sec 14	< 6%	PASS
Liquid Water Transmission (Shower Test)	D4869 sec 8.3	No water passes through material	PASS
Dimensional Stability MD/CD	D4869 sec 8.4	< 2% change	PASS

Compliance study by third party testing laboratory.

Always refer to our Website for updates.



We warrant our materials to be of good quality and will replace materials found defective. CONTACT YOUR SALES REPRESENTATIVE OR SEE OUR WEB SITE FOR COMPLETE DETAILS.

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