



EL30

Synthetic Underlayment

Top Shield EL30 is a synthetic roof underlayment that provides resistance to the elements. The material consists of a woven polymeric scrim that imparts strength, and a textured fabric on the upper surface that provides walkability.

USAGE

Top Shield EL30 is designed as an alternative to asphalt saturated felt and can be used in conjunction with shingles, shakes, slate and metal. It can be mechanically attached to several substrates, and used in new and re-roofing applications.

FEATURES AND BENEFITS

- Lightweight; Less than 2.5 lbs per square
- More coverage per roll than traditional felt
- Good pliability and low temperature flexibility
- Pre-printed lay lines for easy installation
- Can be left exposed for up to 90 days
- Algae, fungi, and mold resistant; does not rot or decay
- 100% recyclable
- Meets and/or exceeds ASTM D226 Type I and II

STORAGE

- Top Shield EL30 must be stored in a dry location.
- Rolls must be stored on pallets and not more than one pallet high.
- Do not store rolls in direct sunlight.

GENERAL PRECAUTIONS

- Top Shield EL30 shall be installed in strict compliance with applicable Building Code.
- Follow Occupational Safety and Health Administration (OSHA) safety standards; use common sense measures and adequate precautions to prevent accidents.
- Top Shield EL30 is considered a vapor barrier. Proper ventilation is critical. Ensure installation does not interfere with existing ventilation.
- Top Shield EL30 shall not be torched or hot mopped to.
- On slopes less than 4:12, a double layer of Top Shield EL30 is recommended. Double layer application is best achieved by using 24" side laps, making sure the side laps are "shingled in" to shed water.
- Ensure that sharp objects such as debris, stones, bricks, etc. are not dropped on to the Top Shield EL30 surface so as to avoid possible cuts or tears.
- When tin tags/caps are used to secure Top Shield EL30, the material shall be covered immediately after application with an approved underlayment or a suitable roof covering.
- The use of staples to attach Top Shield EL30 is not permitted.
- Apply a thin coat of asphalt-based roofing cement to areas of Top Shield EL30 with any cuts or tears.
- Top Shield EL30 is not intended to be used as the primary weather resistant roof covering.

SURFACE

PREPARATION

- The substrate shall be clean and dry prior to installing Top Shield EL30.
- For re-roofing, all old roofing and other loose materials must be removed prior to installation.



APPLICATION GUIDELINES

- Place a full width piece of Top Shield EL30, parallel to the eave (low) edge of the roof.
- Unroll the material 2 to 3 feet and position the end of it to the edge of the eave and rake.
- Install a few fasteners near the rake and roll out the sheet to a manageable length.
- Straighten and align the sheet to eliminate any wrinkles.
- Fasten the sheet using 3/8" headed roofing nails or 1" plastic capped nails, spaced 9" o.c. at all laps and two staggered rows fastened 12" o.c. in the field, or as per applicable Building Code. In HVHZ jurisdictions, the sheet shall be fastened 6" o.c. at all laps and three staggered rows fastened 12" o.c. in the field of the sheet.
- When using 1" diameter nails, apply such that the head of the nail is flush with the sheet surface, without cutting into the sheet.
- Fasten the sheet from the top edge to avoid walking or kneeling on the unsecured portion.
- Align the next sheet over the preceding sheet so as to form a minimum 4" side lap and 8" end lap or as per applicable Building Code.
- Then install the sheet as per instructions above. Install such that the bottom of the second course is over the top of the first course so that any water will flow over the underlayment.
- Stagger the end laps a minimum of 36" (3 feet) from the preceding course.
- Install Top Shield EL30 a minimum of 6" up any vertical surfaces.
- Top Shield EL30 used in valley areas must be covered with metal or other valley liners.
- Seams or joints that require adhesive or sealant can be treated with plastic cement.
- Flash vent pipes, stacks, chimneys, and penetrations in compliance with applicable codes.

| PROPERTY | TYPICAL VALUES | REF TEST |
|---------------------------------------|-----------------------|-----------------|
| Tensile strength, lbf | 70 | ASTM D1682 |
| Tear resistance, lbf | 25 | ASTM D1922 |
| Pliability at 23°C | Pass | ASTM D226 |
| Liquid water transmission | Pass | ASTM D4869 |
| Water vapor transmission, perms | 0.10 | ASTM E96 |
| Algae & Fungus resistance, Rank 0 – 4 | 0 (no growth) | ASTM G21/D3273 |

PRODUCT DATA

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| Width | 48 in (1.22 m) |
| Length | 250 ft (76.2 m) |
| Thickness | 8 mil (nominal) |
| Gross Coverage | 1,000 sq ft (10 sq) |
| Weight | 22 lb (nominal) |
| Rolls per Pallet | 56 |
| Item # | TOPLB730350 |

WARRANTY: TopShield® offers a 30-year Limited Material Warranty.

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