

4SQ. UNDERLAYMENT

ASTM D4869

Description

An asphalt roofing felt made of a specially formulated organic sheet, which has been fully saturated with waterproofing asphalt. This product is strong, flexible and impervious to water penetration, but will allow water vapour to pass through at a restricted rate. Preconditioned to help it lay flat and remain stable after installation on a roof deck. Guidelines are provided at 2", 8 1/2", 11 5/16" and 17" measured from each edge.

Uses

Underlayment asphalt felt is designed to be used as an all-purpose protective waterproof sheet in construction projects. Can be installed as a temporary roof cover during house construction and then serve as a permanent shingle underlayment after shingles are installed. As a shingle underlayment, it functions to restrict vapour movement from the wood deck and attic to the underside of the shingles thus preventing condensation and as a barrier to wind-driven moisture which may get past the shingle. Can also act as temporary protection if shingle blow-off occurs. May also be used as a waterproof breather sheet on side-walls beneath outer finish (check local building codes).

Physical Test Parameters

Conforms to:	ASTM D4869
Average Breaking Strength:	
Along fibre grain, kN/m (lb/in) of width	10 (57)
Across fibre grain, kN/m (lb/in) of width	3.5 (20)

Packaging

Roll width:	36" (0.9 m)
Roll Contents:	432 sq. ft. (40 sq. m.)
Rolls per pallet:	30
Weight per roll:	42 lbs. approx.
Pallets size:	40" x 48"

Installation

- 1) Temporary Roof Cover - Always run felt horizontally beginning at bottom edge of roof. Use broad headed roofing nails to secure felt to the roof deck. Stretch felt as tightly as possible to keep it flat, then install two rows of nails; one along bottom edge and one at centre. Lap each run 2" over previous sheet. If felt is installed parallel to bottom edge of roof deck, the guidelines will be useful for shingle alignment later.
- 2) Shingle Underlayment - If the felt has been installed several days in advance of shingle application, it may have some minor buckles and wrinkles due to moisture pick-up. This will not cause problems since nailing of the shingles will force the felt to lay flat.

Continued on next page

4SQ. UNDERLAYMENT *Cont'd*

Deck Preparation

- 1) Always ensure that the deck lumber is nailed tightly and all rotted or broken boards have been replaced.
- 2) If new plywood or O.S.B. sheathing is being installed on the roof deck be aware that expansion of these sheets may take place within 3 to 4 months of completion. This expansion is caused by vapour pick-up from the attic, and is more severe in homes with poor ceiling vapour barriers and insufficient attic ventilation. The expansion of new roof sheathing can sometimes cause bulges and ridges to develop in the shingles. O.S.B. manufacturers state that a 1/8" gap must be left between sheet edges for expansion.

To help prevent excessive deck expansion consider the following suggestions:

- A) If possible, pre-condition the sheathing by storing separated for several weeks in a humid environment prior to use.
- B) When used immediately after purchase, the sheets should be cut in half prior to installation to reduce the amount of expansion per segment.
- C) Attic ventilation should be checked and increased if not sufficient. Installing ridge vents is very beneficial.
- D) Openings from the living space to the attic must be eliminated and exhaust fans must not discharge into the attic.
- E) All sheathing must be nailed very securely to each supporting member with proper fasteners. If nailing over old decking, or strapping, be sure that nails are long enough to penetrate well into joists or rafters, and not simply into old deck boards. Always stagger the sheets so that joints don't coincide.

CAUTION

Great care must be exercised in all phases of steep slope roof application. Follow the safety guidelines of the safety authority having jurisdiction in your area.

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. Except when agreed to in writing for specific conditions of use, no warranty or guarantee expressed or implied is made regarding the performance of any product, since the manner of use and handling are beyond our control. The user of such information assumes all risk connected with the use thereof. Nothing contained herein is to be construed as permission or as a recommendation to infringe any patent.