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Installation Instructions for Asphalt Saturated Organic Felt Underlayments
Limitations: Not for Florida Building Code 2007 High Velocity Hurricane Zone
Mechanically Fastened Underlayments:

- # 15 ASTM D 4869 Type 1
- # 15 ASTM D 226 Type 1
- # 30 ASTM D 4869 Type 1
- # 30 ASTM D 226 Type 2

NOTE: Local codes may supersede these instructions. Please check with local building code administrator for specific local requirements.

NOTE: Observe all OSHA safety requirements during installation of organic roofing felt underlayments. Do not walk on roofing felt prior to fastening it into proper position on the roof deck.

- 1) The roofing deck must be clear of all debris and moisture prior to installation of organic roofing felt.
- 2) Roofing felt should be installed from the bottom of the roof deck in horizontal layers. The first layer of felt should be installed to cover the entire bottom edge of deck. This increases the water shedding ability of organic roofing felt.
- 3) Anchor the top corner of the roofing felt after the roll has been properly positioned in place and spread the roll across the roof. Care must be taken to roll out roofing felt roll smoothly and avoid any wrinkles as the roofing sheet is rolled across the roof.
- 4) Fasteners must be applied no less than eight inches on the top edge, the middle edge and at the eave along the deck.
- 5) For Roof Slopes from two units vertical in 12 units horizontal (17% slope) and up to four units vertical in 12 units horizontal (33% slope) roofing underlayments must be applied in double layer as follows: Apply a minimum 19 inch wide strip of underlayment roofing felt parallel with and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide sheets of

- roofing underlayment overlapping successive sheets 19-inches, by fastened sufficiently to hold in place. Distortion in the roofing felt underlayment shall not interfere with ability of shingles to seal.
- 6) For roof slopes of four units vertical in 12 units horizontal (33% slope) or greater, roofing underlayment shall be one layer applied in the following manner: Roofing underlayments shall be applied parallel to and starting from eaves and lapped 2 inches, fastened sufficiently to hold in place. Distortions in the roofing underlayment shall not interfere with ability of shingles to seal.
 - 7) The second course of organic felt should be aligned with the roof edge and should overlap the first course as required in step 5 or step 6 according to the roofing slope. Fasten the roofing felt to the deck and repeat the pattern.
 - 8) Continue to apply the next course of organic felt from the roof edge and overlap with the previous course as required in step 5 or step 6 per roofing slope. In case, a new roll of roofing felt is needed to complete the installation to the end of the roof, overlap the new roll by four inches to the prior roll. The same fastening pattern should be used for the top, the middle and the bottom of the roll for all subsequent courses.
 - 9) The top of each subsequent course should be fastened intermittently to hold the edge in place until the next course is applied. Make certain to secure the fasteners at the bottom of the next course to hold the top of the previous course.
 - 10) Continue this pattern until the top of the roof. Fasten the top course if it terminates at the top edge of the roof. Otherwise, overlap the roofing felt over the ridge and fasten the roofing felt. Repeat the process from the bottom of the other side of roofing deck as required by step 5 or step 6 depending on the slope of the roof.
 - 11) In Valleys, lay a vertical section of the organic roofing felt in the middle of the valley along the length of the valley prior to installation of the horizontal course of the roofing felt. If more than one section of roofing felt is installed in the valley, make sure to start at the bottom and overlap the top section by two inches for proper shedding of water. Follow the procedure in step 5 or step 6 depending on the slope of the roof.
 - 12) Fasten the felt in the valleys using the same pattern. Take precaution to avoid wrinkles. In the event some wrinkles are formed while fastening the felt, slice the wrinkles and fasten them flat to the deck. Then seal the cuts with waterproofing cement.

Note: Reference is also made to the current edition of NRCA steep-slope roofing manual and ARMA recommendations for installing shingle underlayments and flashing.

Installation of primary roof covering (Asphalt Shingles, Metal roof, Tiles, Slate, and Wood Shake Shingles) is recommended immediately after felt installation.