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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07305—Shingle Underlayment

REPORT HOLDER:

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EVALUATION SUBJECT:

FELTEX™ ROOFING UNDERLAYMENT

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2003 *International Building Code*® (IBC)
- 2003 *International Residential Code*® (IRC)
- 1997 *Uniform Building Code*™ (UBC)

Properties evaluated:

Roof underlayment

2.0 USES

FelTex™ roofing underlayment is used as an alternative to the ASTM D 226 Type I and Type II underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC; and as an alternative to the Type 15 and Type 30 underlayment specified in Chapter 15 of the UBC.

3.0 DESCRIPTION

FelTex™ roofing underlayment is a woven polypropylene roofing underlayment with a polypropylene coating on one side. Total weight of the underlayment is 3.28 pounds per 100 square feet [4.7 oz./yd² (160 g/m²)]. The underlayment is available in rolls 4 feet wide by 250 feet long (1.2 m by 76.2 m).

4.0 INSTALLATION

Minimum roof slope is 2:12 (17% slope). In jurisdictions enforcing the IBC or IRC, for roof slopes from 2:12 (17%) up to 4:12 (33%), where the roof is covered with asphalt shingles, underlayment shall be two layers and shall be applied in accordance with Section 1507.2.8 of the IBC or Section R905.2.7 of the IRC. In jurisdictions enforcing the IBC or IRC, for roof slopes from 2½:12 (21%) to 4:12 (33%), where the roof is covered with clay or concrete tiles, underlayment shall be two layers applied in accordance with Section 1507.3.3.1 of the IBC or Section R905.3.3.1 of the IRC. For slopes of 4:12 (33%) or greater, underlayment shall

be a minimum of one layer and applied shingle fashion. The deck surface shall be dry and free of dust, dirt, loose nails and other protrusions. Damaged sheathing shall be replaced. The underlayment is laid horizontally (parallel to eave) with the print side up, and with 4-inch (102 mm) horizontal and 6-inch (152 mm) vertical laps. Overlaps shall run with the flow of water in a shingling fashion. The underlayment shall be attached to the roof deck with a minimum of No. 12 gage [0.109 inch shank diameter (2.77 mm)], corrosion-resistant steel roofing nails having minimum ¾-inch-diameter (9.5 mm) heads; or minimum 1-inch-diameter (25.4 mm) plastic caps; or No. 16 gage [0.065 inch leg diameter (1.65 mm)] stainless steel staples having minimum 7/16-inch crowns (11.1 mm). The underlayment shall be fastened only as necessary to hold it in place, except in areas subject to basic wind speeds (fastest mile) in excess of 90 miles per hour (145 km/h) (UBC) or basic wind speeds (3-second gust) in excess of 110 miles per hour (177 km/hr) (IBC and IRC). Underlayment applied in areas subject to high winds (greater than 110 miles per hour) shall be applied per Sections 1507.2.8.1 of the IBC and Section R905.3.3.3 of the IRC.

For roofs required to have an ice barrier under the IBC or IRC, or a severe climate underlayment under the UBC, a self-adhering polymer modified bitumen sheet, complying with ASTM D 1970 or the ICC-ES Acceptance Criteria for Severe Climate Underlayments (AC48), shall be applied. The underlayment shall be applied over the solid substrate in sufficient courses that the underlayment extends up the roof a distance equal to the distance inside the exterior wall line of the building that is specified in the appropriate section of the applicable code. The FelTex™ Roofing Underlayment applied in the field of the roof shall overlap the severe climate underlayment.

Installation of the roof covering can proceed immediately following the underlayment application. The underlayment shall be covered by a roof covering as soon as possible. For reroofing applications, after removal of the old roof covering and roofing felts to expose the roof deck, the same procedures apply as for new construction.

5.0 CONDITIONS OF USE

The FelTex™ Roofing Underlayment described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation shall comply with this report and the manufacturer's published installation instructions. A copy of the manufacturer's published installation instructions shall be available to the code official at the jobsite.
- 5.2** Installation is limited to use on structures or occupancies where nonclassified (nonrated in the UBC) roof coverings are permitted under Sections 1505.1 of

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the IBC, Section R902.1 of the IRC or Table 15-A of the UBC. Where classified (rated) roof coverings are required, substantiating data shall be provided to the code official for approval.

- 5.3 FelTex™ roofing underlayment does not qualify as an ice barrier or severe climate underlayment (UBC) and, when required, shall be used in conjunction with an approved ice barrier or severe climate underlayment.
- 5.4 Installation is limited to roofing systems that do not involve hot asphalt or coal-tar pitch.
- 5.5 Installation is limited to roofs with a slope of 2:12 (17%) or greater.
- 5.6 Installation shall be limited to roofs with ventilated attic spaces.
- 5.7 FelTex™ roofing underlayment is manufactured in Langley, British Columbia, Canada, under a quality

control program with inspections by Intertek Testing Services NA Ltd. (AA-647).

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Polypropylene Roof Underlayments (AC207), dated September 2002.
- 6.2 A quality control manual.

7.0 IDENTIFICATION

The FelTex™ roofing underlayment is marked at 48-inch (1.22 m) intervals with the product name (FelTex™). Each roll of the product shall be labeled with the System Components Corporation name, the product name (FelTex™), the manufacturing date code, the evaluation report number (ESR-1293) and the name of the inspection agency (Intertek Testing Services NA Ltd).