

ICC-ES Evaluation Report

ESR-3017

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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07305—Roofing Felt and Underlayment**REPORT HOLDER:****LEMMINKAINEN KATTO OY**
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katto@lemminkainen.fi**EVALUATION SUBJECT:****ROOFAQUAGUARD BREA ROOFING UNDERLAYMENT****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- Other Codes (see Section 8.0)

Properties evaluated:

- Physical properties
- Water resistance

2.0 USES

RoofAquaGuard BREA roofing underlayment is intended for use as an alternative to the ASTM D 226, Type I and Type II, roofing underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

3.0 DESCRIPTION

RoofAquaGuard BREA roofing underlayment has four layers comprised of spun-bonded polypropylene (upper layer) bonded to a micro porous polyethylene film (upper middle layer), bonded to a polypropylene mesh (lower middle layer) and bonded to a spun-bonded polypropylene (lower layer).

The underlayment has a nominal 30-mil thickness [0.3 inch (0.75 mm)], weighs 3.58 pounds per 100 square feet (175 g/m²) and is available in a roll width of 59 inches (1.5 m).

4.0 INSTALLATION**4.1 General:**

Installation of the RoofAquaGuard BREA roofing underlayment must comply with the report holder's published installation instructions, this report and the applicable code. The installation instructions must be available on the jobsite during installation.

Prior to application of the underlayment, the deck surface must be free of frost, dust and dirt, loose nails, and other protrusions. Damaged sheathing must be replaced. The underlayment is laid horizontally (parallel to the eave) with the printed side up, and with 4-inch (102 mm) horizontal laps and 6-inch (152 mm) vertical laps. Overlaps must run with the flow of water in shingle fashion. The underlayment is attached to the roof deck with roofing nails having 1-inch-diameter (25.4 mm) plastic or steel caps. The underlayment is fastened as required to hold it in place, except in areas subject to basic wind speeds (3-second gust) in excess of 110 miles per hour (49 m/s), where it must be applied in accordance with IBC Section 1507.2.8.1 or IRC Section R905.2.7 for asphalt shingles, or IRC Section R905.3.3.3 for clay and concrete roof tiles, as applicable.

Installation of the roof covering can proceed immediately following the underlayment application. The underlayment must be covered by an approved roof covering within the time set forth in the manufacturer's published installation instructions. For reroofing applications, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

4.2 Ice Dam Protection:

In areas of the roof required to have an ice barrier under the IBC or IRC, a self-adhering polymer modified bitumen sheet complying with ASTM D 1970, or a severe climate underlayment recognized in an ICC-ES evaluation report, is applied over the solid substrate in sufficient courses that the underlayment extends up the roof a distance of 24 inches (610 mm) inside the exterior wall line of the building. The roofing underlayment in the field of the roof must overlap the ice dam barrier.

5.0 CONDITIONS OF USE

The RoofAquaGuard BREA 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** The installation must comply with this report, the report holder's published installation instructions and the applicable code. In the event of a conflict between this report and the published installation instructions, this report governs.
- 5.2** Installation is limited to use on structures located in areas where nonclassified roof coverings are permitted. Where rated roof coverings are required, substantiating data must be provided to the code official for approval.

- 5.3 Installation is limited to roofs with a minimum slope of 2:12 (16.67 percent).
- 5.4 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.5 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.6 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.7 The roofing underlayment is manufactured by Lemminkainen Katto OY, in Ennepetal, Germany, under a quality control program with inspections by Intertek Testing Services NA Ltd. (AA-691).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated July 2007.

7.0 IDENTIFICATION

The packaging of each roll of roofing underlayment is labeled with the report holder's name (Lemminkainen Katto OY) and address, the product name, the installation instructions, the name of the inspection agency (Intertek Testing Services NA Ltd.), and the evaluation report number (ESR-3017).

8.0 OTHER CODES

8.1 Evaluation Scope:

In addition to the codes referenced in Section 1.0 of this report, the products covered in this report were evaluated for compliance with the requirements of the 1997 *Uniform Building Code*[™] (UBC).

8.2 Uses:

See Section 2.0.

8.3 Description:

See Section 3.0

8.4 Installation:

See Section 4.0, except the wording of Section 4.2 is replaced with the following: In areas of the roof required to have a severe climate underlayment, a self-adhering polymer-modified bitumen sheet complying with ASTM D 1970, or a severe climate underlayment recognized in an ICC-ES evaluation report, is applied over the solid substrate in sufficient courses that the underlayment extends up the roof a distance of 24 inches (610 mm) inside the exterior wall line of the building. The roofing underlayment, in the field of the roof, must overlap the severe climate underlayment.

8.5 Conditions of Use:

See Section 5.0, except revise Section 5.2 to say that installation is limited to use on structures located in areas where nonrated roof coverings are permitted. Where rated roof coverings are required, substantiating data must be provided to the code official for approval.

8.6 Evidence Submitted:

See Section 6.0.

8.7 Identification:

See Section 7.0.