

ICC-ES Evaluation Report

ESR-3022

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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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pertti.nurmi@lemminkainen.fi**EVALUATION SUBJECT:****ROOFAQUAGUARD MT AND ROOFAQUAGUARD HT
ROOF UNDERLAYMENTS****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Property evaluated:

Ice barrier

2.0 USES

RoofAquaGuard MT and RoofAquaGuard HT are self-adhering membranes used as alternatives to the ice barrier specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

3.0 DESCRIPTION

RoofAquaGuard MT and RoofAquaGuard HT are self-adhering roofing underlayments comprised of a felt-covered polyester sheet and an SBS modified bitumen base layer. The underlayments are identical and have a nominal thickness of 50 mils [0.05 inch (1.3 mm)] and a nominal weight of 20 pounds per 100 square feet (1 kg/m²), and are available in rolls 3.28 feet (1 m) wide and 60 feet (18.5 m) long.

4.0 INSTALLATION

Installation must comply with the requirements of the applicable code, this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite at all times during the 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 substrate must be clean and dry prior to installation. The membrane is to be applied only when the ambient air and substrate temperatures are above 45°F (7.2°C).

The installation should always begin from the lowest point on the roof deck. The membrane is unrolled, and allowed to relax before installation. The membrane is aligned on the lower edge of the roof and the release film is pulled back to allow application of the membrane. The lower edges and seams are rolled with a hand roller. A flat broom or squeegee is used to lay the material flat and apply pressure to adhere the membrane to the field of the roof. The end seams (vertical laps) must be overlapped a minimum of 12 inches (305 mm). The edge seams (horizontal laps) must be overlapped a minimum of 3 inches (76 mm). Subsequent courses of membrane must be applied parallel to the eave, from the lower edge of the roof upwards, in a shingle-lap manner. The membrane must be installed in sufficient courses to extend up the roof the minimum distance of 24 inches (609 mm) beyond the inside the exterior wall line of the building as prescribed by Chapter 15 of the IBC and Chapter 9 of the IRC. Where nailing is needed for steep slope applications, nails are covered by overlapping with the next sheet.

If the membrane becomes misaligned, the roll must be cut and restarted. The membrane must be pressed firmly into place, from the center to edge. After application, the membrane must be inspected, and any defects repaired. "Fish mouths" must be slit, pressed flat, and covered with a patch of membrane of sufficient width and length to overlap each side and end of the slit a minimum of 3 inches (76 mm). Flashing around protrusions or metal drip edges must be over the membrane, to prevent water backup.

For valley and ridge applications, the release film is peeled back and the sheet is centered over the valley or ridge and pressed firmly into place, starting from the lowest point on valley applications. End laps must be at least 6 inches and side laps must be at least 3 inches.

Installation of the roof covering must proceed immediately following the underlayment application. The underlayment should 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 RoofAquaGuard MT and RoofAquaGuard HT Roofing Underlayments described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The underlayment must be installed in accordance with this report, the applicable code and the manufacturer's published installation instructions. 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.
- 5.3 Installation is limited to roofs having a slope of 2:12 (16.67%) or greater.
- 5.4 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.5 Installation must be limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.

5.6 The underlayment is installed only when the ambient air and substrate temperatures at the time of installation are above 45°F (7.2°C).

5.7 RoofAquaGuard MT and RoofAquaGuard HT Roofing Underlayments are manufactured by Lemminkainen Katto Oy in Lohja, Finland, under a quality control program with inspections provided by Intertek Testing Services NA Ltd. (AA-691).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments for Use in Severe Climate Areas (AC48), dated October 2005 (corrected July 2009), including reports of compliance with ASTM D 1970.

7.0 IDENTIFICATION

Each roll of RoofAquaGuard MT and RoofAquaGuard HT Roofing Underlayment is identified with a product label bearing the following information: company name (Lemminkainen Katto Oy), manufacturing location, output roll number, the evaluation report number (ESR-3022), and the name of the inspection agency (Intertek Testing Services NA Ltd.).