

Elk HT ShieldGard (UnderRoof™ 2)

ICC Evaluation Report

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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07305—Roofing Felt and Underlayment

REPORT HOLDER:

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EVALUATION SUBJECT:

ICEGARD MS, ICEGARD PS+ AND HT SHIELDGARD SELF-ADHERING UNDERLAYMENT

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Properties evaluated:

- Physical properties
- Water resistance

2.0 USES

IceGard MS, IceGard PS+ and HT ShieldGard self-adhering underlayment are used as alternates to the ice barrier specified in Chapter 15 of the IBC and in Chapter 9 of the IRC.

3.0 DESCRIPTION

3.1 IceGard MS:

IceGard MS is a 60-mil-thick [0.060 inch (1.5 mm)] self-adhering membrane composed of a reinforced rubberized-asphalt sheet coated with a mineral surfacing on the exposed surface. The membrane has a nominal weight of 36.5 pounds per 100 square feet (1.78 kg/m²) and is available in rolls of varying size. The rubberized-asphalt surface is backed with release paper.

3.2 IceGard PS+:

IceGard PS+ is a 40-mil-thick [0.040 inch (1.0 mm)] self-adhering membrane composed of rubberized-asphalt and embossed polyethylene film with a sprayed-on polyurethane webbing on the exposed surface. The membrane has a nominal weight of 21 pounds per 100 square feet (1.03 kg/m²) and is available in rolls of varying size. The rubberized-asphalt surface is backed with release paper.

3.3 HT ShieldGard:

HT ShieldGard is a 55-mil-thick [0.055 inch (1.4 mm)] self-adhering membrane composed of rubberized-asphalt and a

glass fiber reinforced polyester mat. The membrane has a nominal weight of 27.5 pounds per 100 square feet (1.34 kg/m²) and is available in rolls of varying size. The rubberized-asphalt surface is backed with release paper.

4.0 INSTALLATION

The deck surface must be free from dust, dirt, loose nails or protrusions to ensure a clean, smooth surface for good adhesion. The membrane is cut into 10- to 15-foot (3 to 4.6 m) lengths and rerolled. The backing or release paper is peeled back 1 to 2 feet (305 to 610 mm) to align the membrane on the lower edge of the roof before application of the remainder directly to the roof deck by removal of the paper and pressing of the membrane into place. Alternatively, starting with a full roll of membrane, a 3- to 6-foot (1 to 2 m) piece of membrane must be unrolled, leaving the release liner in place. The membrane must be aligned and rolled in the intended direction of membrane application. The release liner on top of the roll is cut carefully in the cross direction without cutting of the membrane. Approximately 6 inches (150 mm) of the release liner in the opposite direction of the intended membrane application must be peeled back, exposing the black adhesive. The roll is pulled along the roof deck, with the applied membrane left on the deck. The membrane is pressed to the roof deck by application of heavy hand pressure. The lower edges must be rolled firmly with a seam roller. Ends and edges are overlapped a minimum of 6 inches and 3¹/₂ inches (152 mm and 89 mm), respectively. Starting at the lower edge of the roof, the membrane is applied in a manner that extends up the roof a distance of 24 inches (609 mm) beyond the inside exterior wall line of the building. The membrane may be installed either vertically or horizontally following membrane placement along the lower edge. If the membrane becomes misaligned, the roll is cut and restarted. After application, the membrane is inspected, and any defects repaired. "Fish mouths" must be slit, pressed flat and covered with a round patch of membrane that extends beyond the damaged area 6 inches (150 mm) in all directions. Flashing around protrusions or metal drip edges is installed over the membrane to prevent water backup.

Following the membrane application, installation of the roof covering can proceed immediately. The membranes 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, with the old shingles and roofing felts removed, exposing the deck.

5.0 CONDITIONS OF USE

The GAF-Elk underlayments described in this report comply with, or are suitable alternates to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply with this report and the manufacturer's published installation instructions. In the

event of conflict between this report and the installation instructions, this report governs.

- 5.2 Installation is limited to plywood substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.3 The membranes must be installed at ambient temperatures of 40°F (4°C) or above.
- 5.4 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.5 The membranes must be covered with an approved roof covering complying with the requirements of the applicable code.
- 5.6 The membranes are manufactured in Fresno, California, 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 Roof Underlayment for Use in Severe Climate Areas (AC48), dated October 2005 (editorially revised August 2007).
- 6.2 Report of testing in accordance with ASTM D 1970.

7.0 IDENTIFICATION

The membranes described in this report are identified by a label on the packaging of each roll of membrane bearing the GAF-Elk, name and address, the product name, the evaluation report number (ESR-2348) and the name of the inspection agency (Intertek Testing Services NA Ltd.).