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ICC-ES Evaluation Report

ESR-2808

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Reissued 07/2018
This report is subject to renewal 07/2020.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 30 05—ROOFING FELT AND UNDERLAYMENT

REPORT HOLDER:

GAF

EVALUATION SUBJECT:

DECKARMOR™ ROOF DECK PROTECTION



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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A Subsidiary of the International Code Council®

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1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Properties evaluated:

- Physical properties
- Fire Classification

2.0 USES

DeckArmor™ Roof Deck Protection is an alternative to ASTM D226, Type I and Type II, roofing underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

3.0 DESCRIPTION

DeckArmor™ Roof Deck Protection is comprised of two nonwoven polypropylene sheets laminated together and coated with a polymer coating. The underlayment is blue in color on the top surface, has a nominal weight of 3.7 pounds per 100 square feet (0.18 kg/m²) and is produced in rolls of varying sizes.

4.0 INSTALLATION

Installation must comply with the applicable code, this report and the report holder's published installation instructions. In the event of conflict between the report holder's instructions and this report, this report governs. The installation instructions must be available at the jobsite during installation.

Prior to application of the underlayment, the deck surface must be free of dust and dirt, loose nails, and other protrusions. Damaged sheathing must be replaced. The underlayment is laid horizontally (parallel to the eave) starting at the lowest eave point, printed side up, with 3-inch (76 mm) horizontal (head) laps and 6-inch (152 mm) vertical (end) laps. Overlaps must run with the flow of water in a shingling manner. The underlayment is attached to the roof deck as set forth in the report holder's published

installation instructions, except in areas subject to basic (3-second gust) wind speeds in excess of 110 miles per hour (49 m/s) where the underlayment must be applied in accordance with IBC Section 1507.2.8.1 or IRC Section R905.2.7 for asphalt roof coverings or IRC Section R905.3.3.3 for concrete and clay tile roof coverings, as applicable. When battens or counterbattens are installed over the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens or counterbattens.

In areas of the roof required to have an ice dam membrane under Chapter 15 of the IBC or Chapter 9 of the IRC, an approved ice dam membrane must be applied over the solid substrate in sufficient courses so that the underlayment extends up from the edge of eave to a point at least 24 inches (610 mm) inside the exterior wall line. The roofing underlayment, in the field of the roof, overlaps the ice dam membrane.

The minimum slope of the roof to which the underlayment is installed, and the minimum number of layers of underlayment, must comply with the applicable requirements set forth in IBC Chapter 15 or IRC Chapter 9, as applicable, based upon the type of roof covering being installed over the underlayment.

Installation of an approved roof covering can proceed immediately following application of the roofing underlayment. The underlayment must be covered by the roof covering within the time period set forth in the report holder'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.

The roof underlayment may be used as an alternative to the underlayment specified in the applicable code for roof coverings of brick, masonry, slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper shingles or sheets, and metal sheets and shingles. These roof coverings may be used as indicated in IBC Sections 1505.2 and 1505.3 or IRC Section R902.1, wherever a Class A, B or C roof covering assembly is required.

5.0 CONDITIONS OF USE

The DeckArmor™ Roof Deck Protection 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 complies with the applicable code, this report and the report holder's published installation instructions. In the event of a conflict

between the report holder's published installation instructions and this report, this report governs.

- 5.2 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.3 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.4 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.5 The product is manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012.
- 6.2 Report of testing in accordance with ASTM E108 (UL 790).

7.0 IDENTIFICATION

Each roll of the DeckArmor™ Roof Deck Protection described in this report is marked at regular intervals with the report holder's name (GAF-Elk) and, the product name (DeckArmor™), the roll number and the evaluation report number (ESR-2808).

- 7.1 The report holder's contact information is the following:

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