

Deck-Armor™ Roof Deck Protection  
ICC Evaluation Service Report  
ESR-2808

Product Evaluation

Updated 8/1/09



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# ICC-ES Evaluation Report

**ESR-2808**

Issued August 1, 2009

*This report is subject to re-examination in July 1, 2011.*[www.icc-es.org](http://www.icc-es.org) | (800) 423-6587 | (562) 699-0543

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**DIVISION: 07—THERMAL AND MOISTURE PROTECTION**  
**Section: 07305—Roofing Felt and Underlayment****REPORT HOLDER:****GAF MATERIALS CORPORATION**  
**1361 ALPS ROAD**  
**WAYNE, NEW JERSEY 07470**  
**(800) 365-7353****EVALUATION SUBJECT:****DECKARMOR™ ROOF DECK PROTECTION****1.0 EVALUATION SCOPE****Compliance with the following codes:**

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

**Property evaluated:**

Physical properties

**2.0 USES**

DeckArmor™ Roof Deck Protection is an alternative to 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**

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/m<sup>2</sup>) 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 Quality Auditing Institute Ltd. (AA-635).

## 6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated July 2007.
- 6.2 Report of testing in accordance with ASTM E 108 (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, the evaluation report number (ESR-2808) and the name of the inspection agency (Quality Auditing Institute Ltd).