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# ICC-ES Evaluation Report

# ESR-3979

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Reissued 10/2017  
This report is subject to renewal 10/2018.

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

**REPORT HOLDER:**

**FIRESTONE BUILDING PRODUCTS COMPANY, LLC.**

**250 WEST 96<sup>TH</sup> STREET  
INDIANAPOLIS, INDIANA 46260**

**EVALUATION SUBJECT:**

**ROOF UNDERLAYMENT: CLAD-GARD™ SA-FR**



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**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**

**Section: 07 30 05—Roofing Felt and Underlayment**

**REPORT HOLDER:**

**FIRESTONE BUILDING PRODUCTS COMPANY, LLC**  
250 WEST 96<sup>TH</sup> STREET  
INDIANAPOLIS, INDIANA 46260  
(317) 575-7000  
[www.firestonebpc.com](http://www.firestonebpc.com)

**EVALUATION SUBJECT:**

**ROOF UNDERLAYMENT: CLAD-GARD™ SA-FR**

**1.0 EVALUATION SCOPE**

**1.1 Compliance with the following codes:**

- 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2015, 2012 and 2009 *International Residential Code*® (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

<sup>†</sup> The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

**Properties evaluated:**

- Physical properties
- Fire classification
- Ice Barrier

**1.2 Evaluation to the following green code(s) and/or standards:**

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

**Attributes verified:**

See Section 3.0

**2.0 USES**

CLAD-GARD™ SA-FR is a self-adhering membrane used as an alternate to the ASTM D226, Type I and Type II, roofing underlayments specified in IBC Chapter 15 and IRC Chapter 9, or an ice barrier as specified in IBC Chapter 15 and IRC Chapter 9. The underlayment may also be used as a component of a classified roof covering when installed as described in Section 4.4 of this report.

**3.0 DESCRIPTION**

The roofing underlayment is composed of Styrene-Buradiene-Styrene (SBS) rubber modified, self-adhesive asphalt blend. The CLAD-GARD™ SA-FR is designed for use as a roof underlayment in fire classified roof coverings with a 0.003 inch (75 µm) thick polypropylene top surface and a release film on the bottom surface. The CLAD-GARD™ SA-FR underlayment is available in rolls 39 inches wide (991 mm) and 67 feet long (20.4 m), and has a thickness of 65 mils [0.065 inches] (1.7 mm).

The attributes of the CLAD-GARD™ SA-FR have been verified as conforming to the provisions of (i) CALGreen Section A4.407.5; (ii) ICC 700-2015 Sections 602.1.13, 11.602.1.13 and 12.6.602.1.13; (iii) ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (iv) ICC 700-2008 Section 602.10 for ice barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

**4.0 INSTALLATION**

**4.1 General:**

Installation must comply with the applicable code, this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

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

For reroofing applications, the existing roofing material needs to be removed and the existing substrate must meet the requirements for new installations.

**4.2 Ice Barrier:**

In areas of the roof required to have an ice barrier under IBC Chapter 15 or IRC Chapter 9, a single layer of self-adhered CLAD-GARD™ SA-FR underlayment may be used as an ice barrier when installed in sufficient courses such that the ice barrier extends from the eave's edge up the roof for a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. The roof underlayment, applied in the field of the roof, must overlap the ice barrier.

#### 4.3 Flashing:

Flashing must be in accordance with the applicable code. Flashing around protrusions must be over the lower course of the underlayment and under the upper course of the underlayment, to prevent water backup. When used, metal drip edges must be installed beneath the underlayment at the eaves and over the underlayment along rake edges.

#### 4.4 Classified Roofing:

The roofing underlayment may be used as a component of a classified roof assembly consisting of Class A glass fiber mat shingles complying with the applicable code when installed in accordance with this report over a minimum <sup>15</sup>/<sub>32</sub>-inch-thick (11.9 mm) plywood deck.

Under the 2015, 2012 and 2009 IBC, CLAD-GARD™ SA-FR underlayment may be used in Class A roof assemblies that utilize roof covering materials specified in the exceptions to IBC Section 1505.2.

Under the 2015, 2012 and 2009 IRC, CLAD-GARD™ SA-FR underlayment may be used in Class A roof assemblies that include the roof coverings specified in the exceptions to Section R902.1.

CLAD-GARD™ SA-FR underlayment may be used in the Class A or Class B classified UNA-CLAD® standing seam metal roof assemblies recognized in Table 1 of ESR-3422.

#### 5.0 CONDITIONS OF USE

The 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 Installation must be in accordance with this report, the applicable code and the report holder's published installation instructions. In the event of conflicts between the report holder's instructions and this report, this report governs. A copy of the report holder's installation instructions must be available at the jobsite at all times during installation.
- 5.2 Installation of the CLAD-GARD™ SA-FR underlayment is limited to plywood which complies with the requirements of the applicable code.

5.3 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.

5.4 Installation is limited to roof slopes of 2:12 (17 percent) and greater and where the roof covering does not involve hot asphalt or coal tar pitch.

5.5 Installation is limited to roofs ventilated in accordance with the applicable code.

5.6 The underlayment is to be installed only when the ambient air and substrate temperatures at the time of installation are above 40°F (5°C).

5.7 The CLAD-GARD™ SA-FR roofing underlayment is manufactured in Indianapolis, Indiana 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 (editorially revised December 2015).

6.2 Data in accordance with Section 3.1.1 (ASTM D1970) of the ICC-ES Acceptance Criteria for Self-Adhered Roof Underlayments for Use as Ice Barriers (AC 48), dated February 2012 (editorially revised December 2015).

#### 7.0 IDENTIFICATION

Each roll of the underlayment described in this report is identified with a stamp or label bearing the manufacturer's name (Firestone Building Products Company, LLC) and address, the product name, and the evaluation report number (ESR-3979). Each roll or pallet of underlayment will identify the manufacturing date code.