

ICC-ES Evaluation Report


ESR-1930

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DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION Section: 07 30 05— Roofing Felt and Underlayment	REPORT HOLDER: HENRY A CARLISLE COMPANY	EVALUATION SUBJECT: BLUESKIN® RF 200 SELF-ADHERED ROOF UNDERLAYMENT AND EAVEGUARD® SELF- ADHERED SHINGLE UNDERLAYMENT	
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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012 and 2009 [International Residential Code® \(IRC\)](#)

Properties evaluated:

- Physical properties
- Water resistance

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

- 2022 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 [National Green Building Standard™](#) (ICC 700-2020, ICC 700-2015, ICC 700-2012, and ICC 700-2008)

Attributes verified:

- See Section 2.0

2.0 USES

Blueskin® RF 200 Self-adhered Roof Underlayment and Eaveguard® Self-adhered Shingle Underlayment are self-adhering membranes used as alternatives to the ice dam membrane specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

The attributes of the Blueskin® RF 200 Self-adhered Roof Underlayment and Eaveguard® Self-adhered Shingle Underlayments have been verified as conforming to the provisions of (i) CALGreen Section A4.407.5; (ii) ICC 700-2020 Sections 602.1.13 11602.1.13 1202.9 and 13.104.1.7; (iii) ICC 700-2015 and ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (iii) 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.

3.0 DESCRIPTION

3.1 Blueskin® RF 200 Self-adhered Roof Underlayment:

Blueskin® RF 200 is a nominally 40-mil-thick [0.040 inch (1.00 mm)], reinforced modified bitumen membrane with a polyethylene film on the top surface. The membrane is backed with a release film that serves to protect the membrane adhesive and to prevent self-adhesion of the material. The membrane is blue in color and is supplied in rolls.

3.2 Eaveguard® Self-adhered Shingle Underlayment:

Eaveguard® is a nominally 45-mil-thick [0.045 inch (1.14 mm)], reinforced modified bitumen membrane with a sand coating on the top surface. The membrane is backed with a release film that serves to protect the membrane adhesive and to prevent self-adhesion of the material. The membrane is black in color and is supplied in rolls.

4.0 INSTALLATION

4.1 General:

Installation of the membranes 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 installation.

Prior to application of the membranes, the deck surface must be free of frost, dust and dirt, loose nails, and other protrusions. Damaged sheathing must be replaced. Installation of the membranes is limited to plywood substrates complying with the requirements of the applicable code. The membranes must not be applied when the ambient air and deck temperatures are below 40°F (4.4°C).

If, during application, the membrane becomes misaligned, the roll must be cut and restarted. The membrane is pressed firmly into place, from the center to the 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 6 inches (152 mm). Flashing around protrusions or metal drip edges must be installed over the membranes to prevent water backup.

Installation of the roof covering can proceed immediately following application of the membranes. The membranes are not intended to be left exposed, and must be covered by an approved roof covering.

4.2 Blueskin® RF 200 Self-adhered Roof Underlayment:

4.2.1 General: The Blueskin® RF 200 membrane may be installed either parallel or perpendicular to the roof slope. When applied perpendicular to the slope, the membrane is applied starting at the lowest point of the roof and continuing up to the highest point. The installation of successive courses proceeds in a shingle fashion. The upper half of the release film is removed, and the membrane is firmly pressed in place. The lower half of the release film is then removed, and the membrane firmly pressed in place. When the membrane is applied parallel to the roof slope, the membrane is aligned with the lower edge of the roof and set in place. The remainder of the membrane is applied directly to the roof deck by removing the release film and firmly pressing the membrane into place. End and edge seams must be overlapped a minimum of 2³/₄ inches (70 mm) for either installation method. When applied perpendicular to the roof slope, the subsequent courses of membrane are applied parallel to the eave, from the lower edge of the roof upwards in a shingle-lap manner. The membrane is installed in sufficient courses to extend up the roof the minimum distance prescribed by IBC Chapter 15 or IRC Chapter 9 inside the exterior wall line of the building.

4.2.2 Reroofing: For reroofing applications, the same preparation as described in Section 4.1 and Section 4.2.1 applies, after the removal of the existing roof covering and roofing felts to expose the roof deck.

4.3 Eaveguard® Self-adhered Shingle Underlayment:

4.3.1 General: The Eaveguard® membrane is installed perpendicular to the roof slope and is aligned with the lower edge of the roof and temporarily held in place with tack nails set in the selvage. The nails are not to be driven fully, as they are to be removed. The edge of the first sheet is folded back and the release film removed from the lower edge of the membrane, and the membrane is firmly pressed in place. The nails are removed and the release film from the upper portion of the membrane removed, and the membrane is firmly pressed in place. End and edge seams are overlapped a minimum of 2³/₄ inches (70 mm). The 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 prescribed by IBC Chapter 15 or IRC Chapter 9 inside the exterior wall of line the building.

4.3.2 Reroofing: For reroofing applications, the same preparation as described in Section 4.1 and Section 4.3.1 applies, after the removal of the existing roof covering and roofing felts to expose the roof deck.

5.0 CONDITIONS OF USE:

The Blueskin[®] RF 200 Self-adhered Roof Underlayment and Eaveguard[®] Self-adhered Shingle Underlayment 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 Installation must comply with the requirements of the applicable code, 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 use on plywood roof substrates on structures located in areas where nonclassified roof assemblies are permitted. Applications where classified roof coverings are required are outside the scope of this report.
- 5.3 Installation is limited to roofs with a slope of 2:12 (16.67%) or greater.
- 5.4 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.5 Installation is limited to roofs with ventilated attic spaces, in accordance with the requirements of the applicable code.
- 5.6 The membranes are manufactured in Petrolia, Ontario, Canada; Garland, Texas; and Fresno, California under a quality control program with inspections provided by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Self-adhered Roof Underlayments for Use as Ice Barriers \(AC48\)](#), dated February 2012 (editorially revised February 2021).
- 6.2 Report of testing in accordance with ASTM D1970.

7.0 IDENTIFICATION

- 7.1 The Blueskin[®] RF 200 Self-adhered Roof Underlayment and Eaveguard[®] Self-adhered Shingle Underlayment described in this report must be identified by a label, on the container of each roll of membrane, bearing the Henry a Carlisle Company name and address, the applicable product name, the manufacturing location (Petrolia, Ontario, Canada; Garland, Texas; or Fresno, California) and the evaluation report number (ESR-1930).
- 7.2 The report holder's contact information is the following:

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