



ICC-ES Evaluation Report

ESR-1556

Reissued February 2022

Revised August 2022

This report is subject to renewal February 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

CARLISLE COATINGS & WATERPROOFING, INC.

EVALUATION SUBJECT:

WIP™ 100, WIP™ 100SG, WIP™ GRIP, WIP™ GRIP FR HT AND WIP™ 250HT UNDERLAYMENTS FOR ASPHALT SHINGLE ROOF COVERINGS IN SEVERE CLIMATE AREAS

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)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]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:

Ice barrier

1.2 Evaluation to the following green standards:

- 2019 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 3.0.

2.0 USES

WIP™ 100, WIP™ 100SG, WIP™ GRIP FR HT and WIP™ 250HT are self-adhering, reinforced rubberized asphalt membranes, complying with ASTM D1970, that are used over plywood substrates as ice barriers as specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

WIP™ GRIP is a self-adhering, reinforced rubberized asphalt membrane, complying with ASTM D1970, that is

used over plywood and OSB substrates as an ice barrier, as specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

3.0 DESCRIPTION

The WIP™ 100, WIP™ 100SG, WIP™ GRIP, WIP™ GRIP FR HT and WIP™ 250HT membranes are identical, except the WIP™ 100 membrane has a granule surfacing and the WIP™ 250HT membrane has a polyethylene film surfacing. All membranes have a silicone-treated release paper on the back that is removed prior to attachment to plywood sheathing. The membranes are a minimum of 0.040 inch (1.02 mm) thick and are supplied in rolls 36 inches (914 mm) wide and either 33 feet (10.1 m) or 65 feet (19.8 m) long.

The attributes of the WIP™ 100, WIP™ 100 SG, WIP™ GRIP, WIP™ GRIP FR HT and WIP™ 250HT membranes have been verified as conforming to the provisions of (i) CALGreen Section A4.407.5; (ii) ICC 700-2020 Sections 602.1.13, 11.602.1.13, 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.

4.0 INSTALLATION

Installation of the WIP™ 100, WIP™ 100SG, WIP™ GRIP, WIP™ GRIP FR HT and WIP™ 250HT membranes must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions and this report must be available at the jobsite at all times during the installation.

Prior to application of the membrane, the deck surface must be free of frost, dust and dirt, loose nails and other protrusions. Damaged sheathing must be replaced. Installation of WIP™ 100, WIP™ GRIP FR HT and WIP™ 250HT is limited to plywood substrates. Installation of WIP™ 100SG is limited to plywood substrates primed with Carlisle Coatings & Waterproofing CCW-702 primer or CAV-GRIP primer. Installation of WIP™ GRIP is limited to plywood and OSB substrates. The membrane is designed for applications when the ambient air temperature is above 40°F (4.4°C).

Vertical ends and horizontal edges must be overlapped a minimum, respectively, of 6 inches (152 mm) and 3¹/₂ inches (89 mm). Horizontal edge overlaps must run with the flow of water in a shingling effect. A minimum of two layers of the membrane must be applied, starting at the lower edge (eave) of the roof, and extend a minimum of 24 inches (610 mm) inside the exterior wall line of the building. Final coverage width must comply with the code.

If the membrane becomes misaligned, the roll must be cut and restarted. The membrane must be pressed firmly into place, from the center to 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 over the membrane to prevent water backup.

Installation of the roof covering can proceed immediately following application of the membrane. The membrane must be covered by an approved roof covering as soon as possible. For reroofing applications, the same procedures apply after removal of the old roof covering and roofing felts to expose the plywood roof deck.

5.0 CONDITIONS OF USE

The WIP™ 100, WIP™ 100SG, WIP™ GRIP, WIP™ GRIP FR HT and WIP™ 250HT membranes 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 this report and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 Installation of WIP™ 100, WIP™ GRIP FR HT and WIP™ 250HT is limited to use on plywood substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.3 Installation of WIP™ 100SG is limited to use on plywood substrates primed with Carlisle Coatings & Waterproofing, Inc. CCW-702 primer or CAV-GRIP primer on structures located in areas where nonclassified roof coverings are permitted.

- 5.4 Installation of WIP™ GRIP is limited to use on plywood and OSB substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.5 Installation is limited to roofs having a slope of 2:12 (16.67 percent slope) or greater.
- 5.6 Installation is limited to use with roof coverings that do not utilize hot asphalt or coal-tar pitch.
- 5.7 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.8 Installation is limited to roofs with ventilated attic spaces, in accordance with the requirements of the applicable code.
- 5.9 The membranes are manufactured in Carlisle, Pennsylvania, 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 Self-adhered Roof Underlayments for Use as Ice Barriers (AC48), dated February 2012 (Editorially revised February 2021).
- 6.2 Reports of testing in accordance with ASTM D1970.

7.0 IDENTIFICATION

- 7.1 The membranes are identified by labels on the rolls or packaging, displaying the Carlisle Coatings & Waterproofing, Inc., name and address, the product name, the evaluation report number (ESR-1556).
- 7.2 The report holder's contact information is the following:

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WYLIE, TEXAS 75098
(972) 442-6545
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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that WIP™ 100, WIP™ 100SG, WIP™ GRIP, WIP™ GRIP FR HT and WIP™ 250HT underlayments for asphalt shingle roof coverings in severe climate areas, described in ICC-ES evaluation report ESR-1556, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2022 California Building Code® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2022 California Residential Code® (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The WIP™ 100, WIP™ 100SG, WIP™ GRIP, WIP™ GRIP FR HT and WIP™ 250HT underlayments for asphalt shingle roof coverings in severe climate areas, described in Sections 2.0 through 7.0 of the evaluation report ESR-1556, comply with CBC Chapter 15, provided the design and installation are in accordance with the 2020 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 15, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The WIP™ 100, WIP™ 100SG, WIP™ GRIP, WIP™ GRIP FR HT and WIP™ 250HT underlayments for asphalt shingle roof coverings in severe climate areas, described in Sections 2.0 through 7.0 of the evaluation report ESR-1556, complies with CRC Chapter 9, provided the design and installation are in accordance with the 2022 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 9, as applicable.

This supplement expires concurrently with the evaluation report, reissued February 2022 and revised August 2022.