

ICC-ES Evaluation Report

ESR-1677

Reissued January 2026

This report also contains:

Revised May 2026

- [CA Supplement](#)

Subject to renewal January 2027

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DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION Section: 07 30 05— Roofing Felt and Underlayment	REPORT HOLDER: CERTAINTED LLC	EVALUATION SUBJECT: VYCOR ICE & WATER SHIELD® AND VYCOR ICE & WATER SHIELD® HT SELF-ADHERING ROOF UNDERLAYMENT	
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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2024, 2021, 2018, 2015 and 2012 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018, 2015 and 2012 [International Residential Code® \(IRC\)](#)

Properties evaluated:

- Physical properties
- Ice barrier

1.2 Evaluation to the following green standards:

- 2025 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2020, 2015, 2012 and 2008 [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

VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT membranes are used as an alternate to ASTM D226, Type I and Type II, underlayment specified in IBC Chapter 15 and IRC Chapter 9 and as an alternate to the ice barrier specified in IBC Chapter 15 and IRC Chapter 9.

The attributes of the VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT membranes have been verified as conforming to the requirements of (i) ICC 700-2020 Sections 602.1.13, 11.602.1.13, 1202.9 and 13.104.1.7; (ii) ICC 700-2015 and ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; (iii) ICC 700-2008 Section 602.10 for ice barriers; and (iv) CALGreen Section A4.407.5 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 VYCOR Ice & Water Shield®

VYCOR Ice & Water Shield® is a 40-mil-thick [0.04 inch (1.0 mm)], self-adhering membrane composed of rubberized-asphalt and embossed polyethylene film, available in rolls 6, 9, 12, 18 and 36 inches wide (152, 229, 305, 457 or 914 mm) and 36, 50, 66.7 and 75 feet long (11, 15.2, 20.3 or 23 m). The rubberized-asphalt surface is backed with release paper.

3.2 VYCOR Ice & Water Shield® HT

VYCOR Ice & Water Shield® HT is a 40-mil-thick [0.04 inch (1.0 mm)], self-adhering membrane composed of rubberized-asphalt with a polymeric film on one face and a release paper on the back that is removed prior to attachment to plywood sheathing. The membrane is available in rolls 36 inches wide (914 mm) in various lengths.

3.3 CertaSeam™ Roof Tape

CertaSeam™ Roof Tape is a 40-mil-thick [0.04 inch (1.0 mm)], self-adhering membrane composed of rubberized-asphalt and embossed polyethylene film, available in rolls if 4 inches wide (102 mm) and 75 feet long (23 m). The rubberized-asphalt surface is backed with release paper. The product is used to protect plywood roof deck joints from water intrusion.

4.0 INSTALLATION

4.1 General:

VYCOR Ice & Water Shield®, VYCOR Ice & Water Shield® HT or CertaSeam™ Roof Tape must be installed in accordance with this report, the report holder's published application instruction, the approved plans (if applicable), and the applicable provisions of the code. In the case of a conflict amongst these documents, this report governs.

Prior to application of VYCOR Ice & Water Shield®, VYCOR Ice & Water Shield® HT or CertaSeam™ Roof Tape the deck surface must be free of frost, dust, dirt, loose nails, or protrusions. Damaged sheathing must be replaced. Installation 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). CertaSeam™ Roof Tape must not be applied when the ambient air and deck temperature are below 25°F (-4°C).

4.2 VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT

VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT may be applied with or without the use of CertaSeam™ Roof Tape. When CertaSeam™ Roof Tape is used the tape must be installed in accordance with Section 4.2 of this report prior to application of the membrane. The membrane must be cut into 10- to 15-foot (3- to 5-m) lengths and rerolled loosely. The end of the roll must be secured with corrosion resistant roofing nails. Peel back 1- to 2-feet (300- to 600-mm) of release liner, align the membrane, and continue to peel the release liner from the membrane. Press the membrane in place with heavy hand pressure. Side laps must be a minimum of 3½ inches (90 mm) and end laps a minimum of 6 inches (150 mm). For valley and ridge application, peel the release liner, center the sheet over the valley or ridge, drape, and press it in place. Work from the center of the valley or ridge outward in each direction and start at the low point and work up the roof.

Alternatively, starting with a full roll of membrane, unroll a 3- to 6-feet (1- to 2-m) piece of membrane leaving the release liner in place. Align the membrane and roll in the intended direction of membrane application. Cut the release liner on top of the roll in the cross direction being careful not to cut the membrane. Peel back minimum 6 inches (150 mm) of the release liner in the opposite direction of the intended membrane application exposing the black adhesive. Hold the release liner with one hand and pull the roll along the deck with the release liner, leaving the applied membrane behind. Use the other hand to apply pressure on the top of the roll. Frequently press the membrane in place with heavy hand pressure.

Install the membrane such that all laps shed water. Always work from the low point to the high point of the roof. Apply the membrane in valleys before the membrane is applied to the eaves. Following placement along the eaves, continue application of the membrane up the roof. The membrane may be installed either parallel or perpendicular to the roof slope.

If the membrane becomes misaligned, the roll must be cut and restarted. After application, the membrane must be inspected and any defect repaired. "Fish mouths" must be slit, pressed flat and covered with a patch of membrane that extends beyond the damaged area a minimum of 6 inches (152 mm) in all directions. Flashing around protrusions is installed over the membrane to prevent water backup. Other flashing must be installed in accordance with the applicable code.

The membrane is not intended to be left exposed and must be covered by an approved roof covering, immediately after application. For reroofing applications, the same procedures apply after removal of the existing roof covering to expose the plywood roof deck.

4.3 CertaSeam™ Roof Tape

Prior to installing a roofing membrane, CertaSeam™ Roof Tape, as described in Section 3.2, must be applied over plywood roof deck joints in accordance with 2021 IBC Section 1507.1.1, Exception 1 (2018 IBC Section 1507.1.14, Exception 2). The roof tape must be adhered to the roof deck by removing the small section of the release film of the tape and applying uniform pressure by hand or with a hand roller to ensure the roof tape is fully adhered until the joint is completely covered. Overlaps must be a minimum 4 inches (101.6 mm) installed in a weather-lapped fashion with a uniform amount of pressure to ensure adhesion.

5.0 CONDITIONS OF USE:

The VYCOR Ice & Water Shield®, VYCOR Ice & Water Shield® HT and CertaSeam™ Roof Tape membrane 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 comply with this report, the report holder's published installation instructions and the applicable code. In the event of conflict between the report holder's instructions and this report, this report governs.
- 5.2 Installation for VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT are limited to plywood substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.3 Installation for CertaSeam™ Roof Tape is limited to plywood substrates on nonclassified roof coverings or as a component of a classified roofing assembly when specifically evaluated as such in a listing approved by the code official.
- 5.4 VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT must be installed when the air, roof deck and membrane are at temperatures of 40°F (4.4°C) or above.
- 5.5 CertaSeam™ Roof Tape must be installed when the air, roof deck and membrane are at temperatures of 25°F (-4°C) or above.
- 5.6 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.7 VYCOR Ice & Water Shield®, VYCOR Ice & Water Shield® HT and CertaSeam™ Roof Tape are manufactured under quality control programs 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 April 2024).
- 6.2 Data in accordance with the [ICC-ES Acceptance Criteria for Roof Underlayments \(AC188\)](#), dated February 2012 (editorially revised April 2024).
- 6.3 Data in accordance with ASTM D1970.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1677) along with the name, registered trademark, or registered logo of the report holder (CertainTeed, LLC) must be included in the product label.
- 7.2 In addition, the membrane including the roof tape described in this report is identified by a label on the packaging of each roll of membrane bearing the address of the report holder and the product name.
- 7.3 The report holder's contact information is the following:

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www.CertainTeed.com

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

CERTAINTEED LLC

EVALUATION SUBJECT:

VYCOR ICE & WATER SHIELD® AND VYCOR ICE & WATER SHIELD® HT SELF-ADHERING ROOF UNDERLAYMENT

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT membranes, described in ICC-ES evaluation report [ESR-1677](#), have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2025 California Building Code (CBC)

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

- 2025 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT membranes, described in Sections 2.0 through 7.0 of the evaluation report [ESR-1677](#), comply with CBC Chapter 15 provided the design and installation are in accordance with the 2024 *International Building Code*® (IBC) provisions, as applicable, noted in the evaluation report and the additional requirements of CBC Chapter 15, as applicable.

2.1.1 OSHPD:

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

2.1.2 DSA:

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

2.2 CRC:

The VYCOR Ice & Water Shield® and VYCOR Ice & Water Shield® HT membranes, described in Sections 2.0 through 7.0 of the evaluation report [ESR-1677](#), comply with CRC Chapter 9, provided the design and installation are in accordance with the 2024 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report and the additional requirements of CRC Chapter 9, as applicable.

This supplement expires concurrently with the evaluation report, reissued January 2026 and revised May 2026.