



ICC-ES Evaluation Report ESR-4904

Reissued October 2022

Revised August 2023

This report is subject to renewal October 2024.

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

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

EVALUATION SUBJECT:

ZIP SYSTEM® PEEL AND STICK UNDERLAYMENT; ZIP SYSTEM® PEEL AND STICK UNDERLAYMENT HT

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021 and 2018 *International Building Code*® (IBC)
- 2021 and 2018 *International Residential Code*® (IRC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-4904 LABC and LARC Supplement](#).

Properties evaluated:

- Physical properties
- Ice barrier

Evaluation to the following green standards:

2020 and 2015 ICC 700 National Green Building Standard™ (ICC 700-2020 and ICC 700-2015)

2.0 USES

The ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT are used as a substitute for the ice barrier specified in Chapter 15 of the IBC and in Chapter 9 of the IRC. The membranes may also be used as a continuous roof underlayment where membranes conforming to the requirements of ASTM D1970 are permitted in accordance with IRC Section R905.1.1 and IBC Section 1507.1.1.

The attributes of the ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT 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; ICC 700-2015

Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14 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

ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT are 40-mil-thick (1.0 mm), self-adhering membranes composed of rubberized-asphalt and polymeric film and are available in 36 inch wide (914 mm) rolls. The rubberized-asphalt surface is backed with release paper.

4.0 INSTALLATION

The deck surface must be free from dust, dirt, loose nails or protrusions to ensure a clean, smooth surface for good adhesion.

The membrane is cut into 10- to 15-foot (3 to 4.6 m) lengths and rerolled. The backing or release paper is peeled back 1 to 2 feet (305 mm to 610 mm) to align the membrane on the lower edge of the roof. The remainder of the membrane is applied directly to the roof deck by removal of the backing paper and firmly pressing the membrane into place. Alternatively, starting with a full roll of membrane, an approximately 3- to 6-foot (1-2 m) piece of membrane is unrolled while the release liner is left in place. The membrane must be aligned and rolled in the intended direction of membrane application. The release liner on top of the roll is cut carefully in the cross direction without cutting of the membrane. Approximately 6 inches (152 mm) of the release liner in the opposite direction of the intended membrane application must be peeled back, exposing the black adhesive. The roll is pulled along the roof deck, leaving the applied membrane on the deck. The membrane is pressed to the roof deck by applying hand pressure.

Subsequent courses of membrane are applied parallel to the eave, from the lower edge of the roof upwards, in a shingle-lap manner. The vertical (end) seams must be overlapped a minimum of 6 inches (152 mm). Horizontal (side) seams must be overlapped a minimum of 3½ inches (89 mm) and must run with the flow of water in a shingling

effect. The membrane must be installed in sufficient courses to extend up the roof a minimum of 24 inches (610 mm) beyond the interior of the exterior wall. The underlayment in the field of the roof must overlap the membrane.

If the membrane becomes misaligned, the roll must be cut and restarted. The membrane must be pressed firmly into place, from center to edge. After application, the membrane is inspected, and any defects repaired. "Fish mouths" must be slit, pressed flat and covered with a round patch of membrane that extends beyond the damaged area 6 inches (152 mm) in all directions. Flashing around protrusions or metal drip edges must be installed over the membrane to prevent water backup. Other flashing must be installed in accordance with the applicable code.

Following the membrane application, installation of the finish roof covering can proceed immediately; the membrane must be covered by a finish roof covering as soon as possible. For reroofing applications, the same procedures apply after removal of the existing finish roof covering and membrane to expose the roof deck.

5.0 CONDITIONS OF USE

The ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT membranes described in this report comply with, or are 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 and the manufacturer's published installation instructions. In the event of conflict between the manufacturer's instructions and this report, this report governs.
- 5.2 Installation is limited to ZIP System™ Roof Sheathing Panels (ESR-1473), plywood, OSB and sawn lumber substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.3 Installation is limited to roofs having a slope of 2:12 (16.67 percent slope) or greater.
- 5.4 The self-adhesive membranes must be installed at ambient temperatures of 40°F (4°C) or above. ZIP System® Peel and Stick Underlayment is limited to

applications where the in-service temperature of the membrane surface will not exceed 180°F (82.2° C).

- 5.5 ZIP System® Peel and Stick Underlayment HT is limited to applications where the in-service temperature of the membrane surface will not exceed 260°F (104.4° C).
- 5.6 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.7 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.8 ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with ASTM D1970 and the ICC-ES Acceptance Criteria for Self-adhered Roof Underlayments for Use as Ice Barriers (AC48), dated February 2012 (editorially revised February 2021).

7.0 IDENTIFICATION

- 7.1 Product labeling shall include, the name of the report holder or listee, and the ICC-ES mark of conformity. The listing or evaluation report number (ICC-ES ESR-4904) may be used in lieu of the mark of conformity. The membrane described in this report is identified by a label on the packaging of each roll of membrane bearing the Huber Engineered Woods, LLC name and address, and the product name.
- 7.2 The report holder's contact information is the following:

HUBER ENGINEERED WOODS, LLC
ONE RESOURCE SQUARE
10925 DAVID TAYLOR DRIVE, SUITE 300
CHARLOTTE, NORTH CAROLINA 28262
(800) 933-9220
www.huberwood.com

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

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

EVALUATION SUBJECT:

ZIP SYSTEM® PEEL AND STICK UNDERLAYMENT; ZIP SYSTEM® PEEL AND STICK UNDERLAYMENT HT

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that the ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT, described in ICC-ES evaluation report [ESR-4904](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2023 *City of Los Angeles Building Code* (LABC)
- 2023 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4904](#), comply with the LABC Chapter 15, and the LARC Chapter 9, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-4904](#).
- The design, installation, conditions of use and identification are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-4904](#).

This supplement expires concurrently with the evaluation report, reissued October 2022 and revised August 2023.

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1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that the ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT, described in ICC-ES evaluation report ESR-4904, have also been evaluated for compliance with the code(s) 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) 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.

- 2022 California Residential Code (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT, described in Sections 2.0 through 7.0 of the evaluation report ESR-4904, comply with CBC Chapter 15, provided the design and installation are in accordance with the 2021 *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 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 ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT, described in Sections 2.0 through 7.0 of the evaluation report ESR-4904, comply with CRC Chapters 9, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 9.

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Applicable code editions:

- 2023 *Florida Building Code—Building*
- 2023 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4904, comply with the *Florida Building Code—Building* and *Florida Building Code—Residential*. The design requirements shall be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-4904 for the 2021 *International Building Code*® and 2021 *International Residential Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the ZIP System® Peel and Stick Underlayment and ZIP System® Peel and Stick Underlayment HT for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* has not been evaluated and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

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