

ICC-ES Evaluation Report

ESR-2227

Reissued February 2024

Revised July 2024

Subject to renewal February 2026

This report also contains:


- LABC Supplement

- CBC Supplement

- FBC Supplement

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| <p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 65 00— Flexible Flashing</p> | <p>REPORT HOLDER: HUBER ENGINEERED WOODS, LLC</p> | <p>EVALUATION SUBJECT: ZIP SYSTEM™ FLEXIBLE FLASHING TAPE; ZIP SYSTEM™ VP FLASHING TAPE</p> |  |
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1.0 EVALUATION SCOPE

Compliance with the following codes:

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

For evaluation for compliance with codes adopted by the [Los Angeles Department of Building and Safety \(LADBS\)](#), see [ESR-2227 LABC and LARC Supplement](#).

Property evaluated:

Water resistance

2.0 USES

ZIP System™ flexible flashing tape and ZIP System™ VP flashing tape are pressure-sensitive, self-adhering, cold-applied tapes used as flashing around windows, frames, door frames, wall penetrations and roof penetrations described in this report when used with the materials and substrates noted in Section 5.3. The tapes have been evaluated for use as flashing material on Type V construction under the IBC and non-fire-resistance-rated construction under the IBC and IRC. The tapes have been evaluated as self-adhered membranes when used as flashing material in accordance with 2024, 2021 and 2018 IBC Section 1404.4 and 2024, 2021, and 2018 IRC Section R703.4.

3.0 DESCRIPTION

ZIP System™ flexible flashing tape is a pressure-sensitive tape consisting of a polyolefin film with an acrylic adhesive which complies with AAMA 711, Type A, Level 3. The tape is nominally 0.012-inch thick [0.30 mm (12 mils)] and is produced in rolls of various widths [minimum 3¾ inches (95 mm)], and lengths.

ZIP System™ VP flashing tape is a pressure-sensitive tape consisting of an elastomeric, non-woven, reinforced film with an acrylic adhesive which complies with AAMA 711, Type A, Level 3. ZIP System™ VP flashing tape is nominally 0.015-inch thick [0.38 mm (15 mils)] and is produced in 3¾ inches (95 mm) wide rolls of various lengths.

4.0 INSTALLATION

Installation of ZIP System™ flexible flashing tape or ZIP System™ VP flashing tape must comply with this report and the manufacturer's published installation instructions. The installation instructions must always be available at the jobsite during installation.

The surfaces to which the tapes are applied must be dry and free of frost, dust and dirt, loose nails, and other protrusions. Contact of the adhesive surface with foreign matter that may affect the bond to the substrate must be avoided. The ambient air and substrate temperatures must be at or above 0°F (-18°C) at the time of application.

The tape is applied around penetrations in the manner described in the tape manufacturer's, as well as the window or door manufacturer's, published installation instructions, as applicable. End joints must be overlapped the minimum distance specified in the manufacturer's published installation instructions. The tape is cut to the desired length and firmly pressed into the entire length of the opening and smoothed out until it conforms tightly to the frame opening. Wrinkles in the ZIP System™ flexible flashing tape or ZIP System™ VP flashing tape are acceptable unless they create a leak path. Application should be in accordance with the manufacturer's installation instructions.

5.0 CONDITIONS OF USE:

The Huber Engineered Woods' ZIP System™ flexible flashing tape and ZIP System™ VP flashing tape 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 this report and the installation instructions, this report governs.
- 5.2 The ZIP System™ flexible flashing tape or ZIP System™ VP flashing tape must not be left exposed to the weather or installed where it is subject to permanent direct weather exposure.
- 5.3 ZIP System™ flexible flashing tape has been evaluated to meet the minimum adhesive requirements as a self-adhering flashing material with OSB, wood, steel, aluminum and vinyl-framed flanged windows and door frames, transitions to rigid flashings and the proprietary wall and roof sheathing substrates evaluated in ICC-ES evaluation reports [ESR-1473](#) and [ESR-1474](#).
- 5.4 ZIP System™ flexible flashing tape has been evaluated for water penetration resistance around fasteners when penetrated with nails and / or screws and the substrate is either ZIP System® roof and wall sheathing or treated gypsum. The tape has also been evaluated for water penetration resistance around fasteners when penetrated with nails and the substrate is either OSB or plywood.
- 5.5 Installation of the ZIP System™ VP flashing tape as a flashing material is limited to use with OSB, wood, steel, aluminum and vinyl-framed flanged windows and door frames, transitions to rigid flashings and the proprietary wall sheathing substrates evaluated in ICC-ES evaluation report [ESR-1474](#).

6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Flexible Flashing Materials \(AC148\)](#), dated July 2017 (editorially revised May 2024).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2227) along with the name, registered trademark, or registered logo of the report holder [and/or listee] must be included in the product label.
- 7.2 In addition, the Huber Engineered Woods ZIP System™ flexible flashing tape described in this report is labeled at regular intervals with the manufacturer's identification (ZIP System™) and the evaluation report numbers (ESR-2227, [ESR-1473](#), [ESR-1474](#) and [ESR-3373](#)). The tape packaging is labeled with the manufacturer's name (Huber Engineered Woods LLC) and address and the evaluation report number (ESR-2227).
- 7.3 The ZIP System™ VP Flashing Tape described in this report is labeled at regular intervals with the manufacturer's identification (ZIP System™). The tape packaging is labeled with the manufacturer's name (Huber Engineered Woods LLC) and address and the evaluation report numbers (ESR-2227 and [ESR-1474](#)).
- 7.4 The report holder's contact information is the following:

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 65 00—Flexible Flashing

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

EVALUATION SUBJECT:

ZIP SYSTEM™ FLEXIBLE FLASHING TAPE; ZIP SYSTEM™ VP FLASHING TAPE

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Zip System™ flexible flashing tape and Zip System™ VP flashing tape described in ICC-ES evaluation report [ESR-2227](#), 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™ flexible flashing tape and Zip System™ VP flashing tape, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2227](#), comply with LABC Chapter 14, and LARC Section R703, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Zip System™ flexible flashing tape and Zip System™ VP flashing tape described in this evaluation report must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-2227](#).
- The installation, conditions of use and identification of the flashing tapes are in accordance with the 2021 *International Building Code*® (IBC) and 2021 *International Residential Code*® (IRC) provisions, as applicable, as noted in the evaluation report [ESR-2227](#).

This supplement expires concurrently with the evaluation report, reissued February 2024 and revised July 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 65 00—Flexible Flashing

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

EVALUATION SUBJECT:

ZIP SYSTEM™ FLEXIBLE FLASHING TAPE; ZIP SYSTEM™ VP FLASHING TAPE

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Zip System™ flexible flashing tape and Zip System™ VP flashing tape, described in ICC-ES evaluation report ESR-2227, 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) AKA: California Department of Health Care Access and Information (HCAI) and the Division of the 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™ flexible flashing tape and Zip System™ VP flashing tape, described in Sections 2.0 through 7.0 of the evaluation report ESR-2227, comply with CBC Chapters 14, 15, and 23, 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 Chapters 14, 15, 16, 17 and 23, 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™ flexible flashing tape and Zip System™ VP flashing tape, described in Sections 2.0 through 7.0 of the evaluation report ESR-2227, comply with the CRC, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report.

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ICC-ES Evaluation Report

ESR-2227 FBC Supplement

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 65 00—Flexible Flashings

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

EVALUATION SUBJECT:

ZIP SYSTEM™ FLEXIBLE FLASHING TAPE; ZIP SYSTEM™ VP FLASHING TAPE

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that ZIP System™ flexible flashing tape and ZIP System™ VP flashing tape, described in ICC-ES evaluation report ESR-2227, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

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

2.0 CONCLUSIONS

The ZIP System™ flexible flashing tape and ZIP System™ VP flashing tape, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-2227, comply with the *Florida Building Code—Building* and the *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-2227 for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable.

Use of the ZIP System™ flexible flashing tape and ZIP System™ VP flashing tape for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *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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