



ICC-ES Evaluation Report

ESR-5270

Issued December 2023

Revised February 2024

This report is subject to renewal December 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 25 00—Water-resistive Barriers / Weather Barriers

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

EVALUATION SUBJECT:

ZIP SYSTEM™ RAINSCREEN

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-5270 LABC and LARC Supplement](#).

Properties evaluated:

- Weather Resistance

2.0 USES

ZIP System™ Rainscreen is used as a water-resistive barrier on the exterior side of exterior walls in Type V construction under the IBC and all construction types under the IRC. The ZIP System™ Rainscreen membrane is classified as an ASTM E2556 Type I water-resistive barrier as specified in IBC Sections 1403.2 and 2510.6 and IRC Section R703.2. The product has an entangled mesh facing on one side of the product, which provides a minimum ³/₁₆ inch (4.8 mm) space between the exterior face of the building substrate and the interior face of the water-resistant membrane (See Figure 1).

The product is intended to be installed over Zip System™ Wall Sheathing ([ESR-1474](#)) for exterior cement plaster or adhered masonry veneer installations (See Figures 2 and 3).

3.0 DESCRIPTION

ZIP System™ Rainscreen is a nominal ¼-inch (6.4 mm) entangled mesh drainage medium with a fabric covering on the exterior side of the mesh. The fabric performs as a second layer of water-resistive barrier (WRB) when stucco, adhered stone, or other absorptive cladding is to be installed

over ZIP System™ Rainscreen. ZIP System™ Rainscreen weighs 9.6 pounds per 100 square feet (469 g/m²) and is manufactured in rolls measuring 4 feet wide by 65 feet long (1.22 m x 19.8 m). There is no entangled mesh facer along the bottom 3 inches (76.2 mm) of the rolls to allow for overlap during installation (selvedge edge).

4.0 INSTALLATION

Installation of ZIP System™ Rainscreen must comply with this report and the manufacturer's published installation instructions. In the event of a conflict, this report governs.

ZIP System™ Rainscreen is installed with the printed side facing outwards (entangled mesh facing in) after wall framing is completed and after windows and doors are installed. The product is installed horizontally with a minimum of 5/8-inch (15.9 mm) diameter button capped nails or staples spaced 24 inches (610 mm) on center in the vertical and horizontal directions. Vertical seams are taped with Zip System™ flexible flashing tape ([ESR-2227](#)). The selvedge edge of horizontal seams must fully overlap the course below in a shingle-type fashion.

When installed over Zip System™ Wall Sheathing ([ESR-1474](#)) for exterior cement plaster or adhered masonry veneer installations, the installation requirements outlined in IBC Section 2510.6.1 Item 1 for dry climates, IRC Section R703.7.3.1 Item 1 for dry climates, IBC Section 2510.6.2 Item 1 for moist or marine climates, and IRC Section R703.7.3.2 Item 1 for moist or marine climates are satisfied. For moist and marine climates, the product must not be compressed to the point such that the ³/₁₆ inch (4.8 mm) space between the exterior face of the building substrate and the exterior face of the product is not maintained.

5.0 CONDITIONS OF USE

The ZIP System™ Rainscreen 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 The product must be covered by an exterior wall covering complying with the requirements of the applicable code.
- 5.2 The underlying Zip System™ wall sheathing must be installed in accordance with the requirements of [ESR-1474](#).
- 5.3 The products manufactured are 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 Water-Resistive Barriers (AC308), approved August 2016 (Editorially revised July 2021).
- 6.2 Data in accordance with ASTM E2556.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5270) along with the name, registered trademark, or

registered logo of the report holder must be included in the product label.

- 7.2 The report holder's contact information is the following:

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ONE RESOURCE SQUARE
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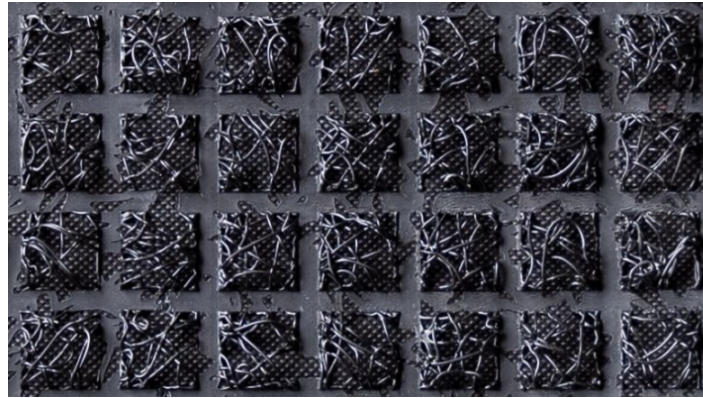


FIGURE 1 – ZIP SYSTEM™ RAINSCREEN (THIS SIDE FACES WALL)

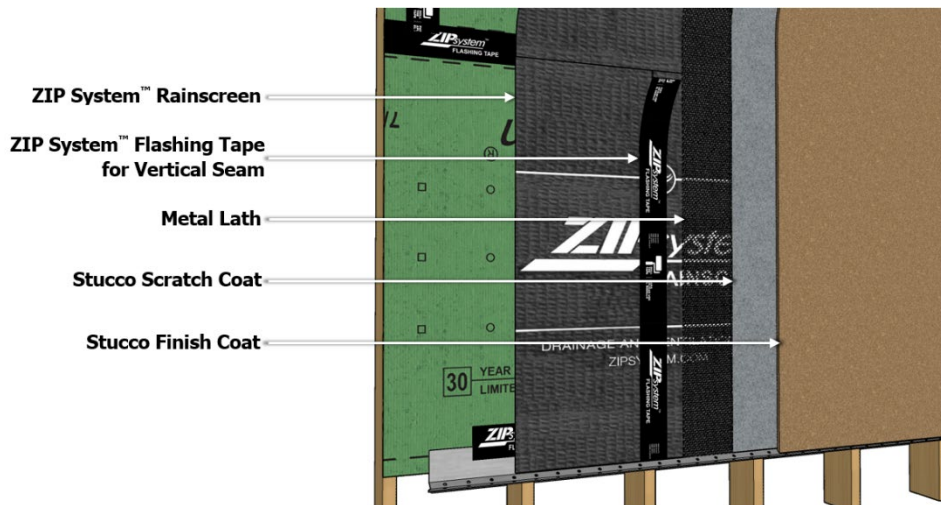


FIGURE 2- TYPICAL INSTALLATION WITH STUCCO

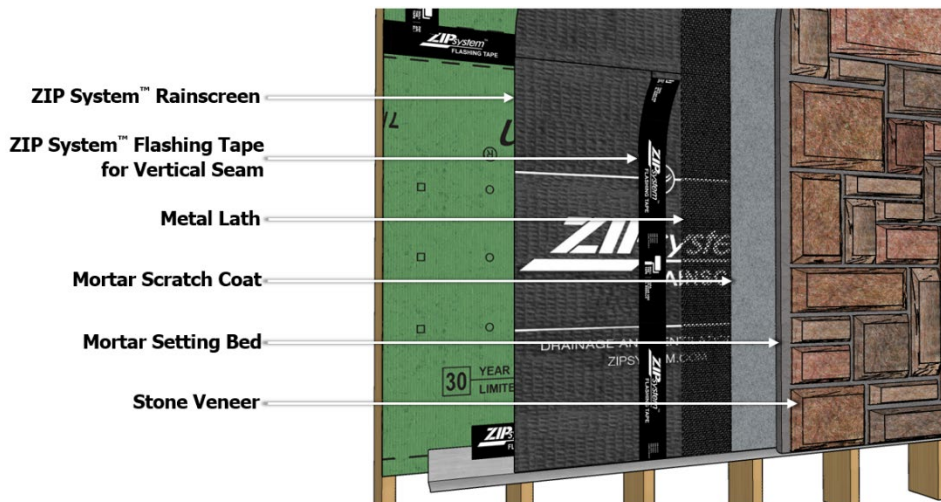


FIGURE 3 – TYPICAL INSTALLATION WITH ADHERED MASONRY VENEER

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 25 00—Water-resistive Barriers / Weather Barriers

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

EVALUATION SUBJECT:

ZIP SYSTEM™ RAINSCREEN

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that ZIP System™ Rainscreen, described in ICC-ES evaluation report [ESR-5270](#), has/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™ Rainscreen, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5270](#), complies with the LABC Chapters 14 and 25, and the LARC, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The ZIP System™ Rainscreen described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5270](#).
- The design, installation, conditions of use and identification of the ZIP System® Rainscreen are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-5270](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 14, 17 and 25, and LABC Section R703, as applicable.

This supplement expires concurrently with the evaluation report, issued December 2023 and revised February 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
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EVALUATION SUBJECT:

ZIP SYSTEM™ RAINSCREEN

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that ZIP System™ Rainscreen, described in ICC-ES evaluation report ESR-5270, has also been evaluated for compliance with the code(s) noted below.

Applicable code edition(s):

- 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 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™ Rainscreen, described in Sections 2.0 through 7.0 of the evaluation report ESR-5270, complies with CBC Chapters 14 and 25, 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 and 25, 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 ZIP System™ Rainscreen, described in Sections 2.0 through 7.0 of the evaluation report ESR-5270, complies with CRC Chapter 7, 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 Chapters 3 and 7, as applicable.

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EVALUATION SUBJECT:

ZIP SYSTEM™ RAINSCREEN

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that ZIP System™ Rainscreen, subject of ICC-ES evaluation report ESR-5270, has 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™ Rainscreen, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-5270, complies with the 2023 Florida Building Code—Building and 2023 Florida Building Code—Residential. The design requirements must 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-5270 for the 2021 International Building Code® meet the requirements of the Florida Building Code—Building or the Florida Building Code—Residential, as applicable.

Use of the ZIP System™ Rainscreen 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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