



DEPARTMENT OF ADMINISTRATIVE SERVICES

I-06-18

October 16, 2018

Mr. Ken Hix, Director of Codes & Standards
Huber Engineered Wood, LLC
1446 Highway 334
Commerce, GA 30530

Re: Interpretation of 2018 CT State Building Code IRC Section R905.1.1
Roof Underlayment Systems

Mr. Hix,

In your letter dated October 5, 2018 you requested a formal interpretation regarding whether the use of the ZIP System roof sheathing system complies with the requirements of section R905.1.1 of the 2015 IRC portion of the 2018 Connecticut State Building Code.

Answer:

Along with your letter you provided ICC-ES report ESR-1473. While this office does not approve or endorse specific products we do recognize ICC Evaluation Reports. ESR-1473 states that the ZIP System and ZIP System+ when installed per the manufacturer's installation instructions and conditions of the report, complies with chapter 9 of the 2015 IRC.

Therefore, based on this ICC-ES report, ZIP System and ZIP System+ would comply with 2015 IRC portion of the 2018 CT State Building Code including the CT amended section R905.1.1.

Sincerely,

Joseph V. Cassidy, P.E.
State Building Inspector

TO: Department of Administrative Services
Office of the State Building Inspector
Department of Administrative Services
450 Columbus Boulevard, Suite 1303
Hartford, CT 06103

FROM: Ken W. Hix, MCP, CBO 
Director Codes & Standards
Huber Engineered Woods, LLC
1446 Highway 334
Commerce, GA 30530

Phone: 706-336-3041

Email: ken.hix@huber.com

DATE: 5 October 2018

RE: Request for Formal Interpretation of CT State Building Code Section R905.1.1 Underlayment

A recent amendment to section R905.1.1 of the 2018 CT State Building Code (Code) has just been brought to my attention. It is my understanding that the intent for this code amendment is to provide a means to fight against leaks and water intrusion by providing a sealed roof deck. Huber Engineered Woods (HEW) has been a pioneer in efforts to seal residential roof decks. This is evidenced by the publication of evaluation report ICC-ES ESR-1473, ZIP System® Roof.

We noticed the similarity between the Code language and provisions published in the Fortified Home™ technical requirements published by the IBHS (Insurance Institute for Business & Home Safety). Based, in part, on our involvement with IBHS, they have recently amended their requirements to clarify that the use of an AMMA 711-13, Level 3 (for exposure up to 176°F) compliant flashing tape at least 3 ¾ inches wide is an acceptable means of sealing the seams of a residential roof deck. As a side note, if you look closely at the sealed roof deck demonstration videos on the IBHS website, you will notice that HEW, 3 ¾" wide, ZIP System™ Flexible Flashing Tape is used in several of these tests/demonstrations.

While we applaud the intent of providing a sealed roof deck, we believe the actual wording of the state amendment has the unintended consequence of possibly limiting the use of currently available products and systems that provide for a sealed roof deck system. By mandating "a minimum 4-inch-wide strip of self-adhering polymer-modified bitumen membrane.." , the state amendment has the (what we believe to be unintentional) consequence of restricting the use of advanced technologies and advanced chemistry materials currently recognized as a sealed deck solution. In addition to sealing the seams, our ZIP System underlayment membrane is factory bonded to a wood structural panel. This factory applied underlayment is fused to the surface of a wood structural, and as a result, is not vulnerable to damage

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by wind or wind-driven rain like conventional loose-laid sheet applied underlayments. We believe this to be the intent for the state code amendment.

As a manufacturer of a product that has been at the forefront of providing a successful, highly wind-resistant, sealed roof deck option for over a decade, Huber Engineered Woods LLC would like to request a formal interpretation as to the intent for this code amendment and also for an opinion regarding whether ZIP System Roof Sheathing satisfies this intent.

Please find attached a copy of ICC-ES ESR-1473 and ICC-ES ESR-2227 for your reference.

Your expedient consideration of this request is appreciated. Please feel free to contact me with any questions.

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ESR-1473

Reissued 09/2017

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DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES

SECTION: 06 16 00—SHEATHING

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

SECTION: 07 30 05—ROOFING FELT AND UNDERLAYMENT

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

ONE RESOURCE SQUARE
10925 DAVID TAYLOR DRIVE, SUITE 300
CHARLOTTE, NORTH CAROLINA 28262

EVALUATION SUBJECT:

ZIP SYSTEM® AND ZIP SYSTEM+™ ROOF SHEATHING



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ICC-ES Evaluation Report

ESR-1473

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DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES

Section: 06 16 00—Sheathing

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC
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EVALUATION SUBJECT:

ZIP SYSTEM® AND ZIP SYSTEM+™ ROOF SHEATHING

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2015, 2012 and 2009 *International Residential Code*® (IRC)

Properties evaluated:

- Structural—wind uplift resistance
- Nonclassified roof covering
- Classified roof covering
- Weather resistance

For evaluation for compliance with codes adopted by the Los Angeles Department of Building and Safety (LADBS), see ESR-1473 LABC and LARC Supplement.

2.0 USES

ZIP System® and ZIP System+™ roof sheathing panels are used as combination roof sheathing and roof underlayment.

3.0 DESCRIPTION

The ZIP System® and ZIP System+™ roof sheathing panels are wood structural panels having a laminated facer. The ZIP System+™ panels are manufactured using a different resin than the Zip System® panels. The panels are installed with a proprietary seam tape, which allows the

systems to be used as an alternate to the underlayment required in Chapter 15 of the IBC and Chapter 9 of the IRC. The OSB substrate complies with U.S. DOC PS-2 for wood structural panels and is overlaid on one side with a medium-density, phenol-impregnated, polymer-modified sheet material. The standard-size panels are nominally 4 feet by 8 feet. Oversize panels, wider than 4 feet nominal or longer than 8 feet nominal, or both, are also produced. The panels are available with either a square-finished-edge profile a tongue-and-groove edge profile or a machined edge profile. The proprietary seam tape is a self-adhering sheet-type membrane consisting of acrylic adhesive laminated to a polyolefin backing, and the face of the tape is labeled with ESR-1473. The tape is 0.012 inch thick (0.30 mm) with a minimum width of 3 inches (76.2 mm), and comes in rolls of varying length.

4.0 INSTALLATION

4.1 General:

Installation of ZIP System® and ZIP System+™ roof sheathing must comply with the applicable code, this report and the manufacturer's published installation instructions. The installation instructions are to be available at the jobsite at all times during installation. The instructions within this report must govern if there are any conflicts between the manufacturer's published instructions and this report.

4.2 Application:

The ZIP System® and ZIP System+™ roof sheathing panels must be installed with the longer dimension perpendicular to the roof framing and fastened to the roof framing in accordance with the applicable code for wood structural panels. The panels must be installed in accordance with the panel span rating as shown on the panels. All corners are to be securely fastened. Tongue-and-groove and machined edge panels are designed to provide the correct gap size at the panel edges during installation. Squared-edged panels must be spaced apart a minimum of 1/8 inch (3.18 mm) at the time of installation. End joints of adjacent panel runs must be staggered. The panel must be installed with the laminated phenol-impregnated polymer-modified sheet material facing to the exterior. All ZIP System® and ZIP System+™ roof sheathing seams must be sealed with the Zip System® tape. All overlay surfaces must be free of any significant presence of debris, particles or sawdust prior to installation of the ZIP System® tape. Overlay surfaces must be void of any free water prior to application of the ZIP System® tape. The ZIP System® tape edges must be sealed and the tape

is to be centered within $\pm 1/2$ inch (12.7 mm) of all panel edge seam centers. All ZIP System® and ZIP System+™ roof sheathing surface defects, openings, cracks, etc., that completely penetrate the overlay and substrate, and caused by handling or construction work, must be covered with the ZIP System® tape. The ZIP System® tape must extend a minimum of 1 inch (25.4 mm) past the panel edge T-joint intersections. The ZIP System® tape must be adhered to the ZIP System® and ZIP System+™ roof sheathing. Wrinkles in the ZIP System seam tape are acceptable unless they create a leak path to the panel seam.

4.3 Roof Assemblies

4.3.1 Classified Roof Coverings

4.3.1.1 Class A: Underlayment is not required for a minimum $1/2$ -inch thick Zip System+™ roof sheathing with Class A asphalt glass fiber mat shingles.

4.3.1.2 Class B: Underlayment is not required for a minimum $7/16$ -inch thick Zip System® roof sheathing with Class A asphalt glass fiber mat shingles.

4.3.2 Nonclassified Roof Coverings: The ZIP System® and ZIP System+™ roof sheathing panels are limited to installation on buildings permitted to have nonclassified roof coverings using code-complying asphalt-fiberglass shingles, metal shingles, metal panels, wood shakes, wood shingles, built-up roofing, slate and slate-type shingles, and clay and concrete tile roof coverings. Roof coverings may be applied directly to the taped ZIP System® and ZIP System+™ roof panels unless multi-layer underlayments are required.

4.4 Wind Uplift Resistance:

Wind uplift design loads and ZIP System® and ZIP System+™ roof wood structural panel allowable uplift resistance shall be determined in accordance with Sections 1609 and 2304.8.2 of the 2015 IBC or 2304.7.2 of the 2012 and 2009 IBC and Section R301.2.1 of the IRC. Roof coverings must be fastened to the sheathing with mechanical fasteners sufficient to resist the design uplift load.

5.0 CONDITIONS OF USE

The ZIP System® and ZIP System+™ roof sheathing panels 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 This evaluation report and the manufacturer's published installation instructions, when required by the code official, must be submitted at the time of permit application.
- 5.2 The ZIP System® and ZIP System+™ roof sheathing panels must be manufactured, identified and installed in accordance with this report and the manufacturer's published installation instructions.
- 5.3 The ZIP System® and ZIP System+™ roof sheathing panels are limited to code-approved structural use for

wood structural panels with either a 24/16, 32/16 or 40/20 span rating.

- 5.4 In jurisdictions enforcing the IBC, the roof covering system incorporating the panels is limited to installations in the following construction types:

- Type III-B and Type V-B
- Type III-A or Type V-A under the conditions specified in footnote d of IBC Table 601
- Type III-A or Type V-A under the conditions specified in footnote b of IBC Table 601, for occupancies other than Group F-1, H, M and S-1

In jurisdictions enforcing the IRC, the roof covering system incorporating the panels may be installed on structures constructed in accordance with the IRC.

- 5.5 Enclosed attics and rafter spaces must be ventilated in accordance with the applicable code, except where unvented conditioned attic assemblies are permitted by 2015 and 2012 IRC Section R806.5 or 2009 IRC Section R806.4.
- 5.6 An ice barrier must be provided as required by Section 1507.2.8.2 of the IBC and Section R905.2.7 of the 2015 IRC and Section R905.2.7.1 of the 2012 and 2009 IRC.
- 5.7 Installation is limited to roofs having a slope of 2:12 (16.67% slope) or greater.
- 5.8 ZIP System® and ZIP System+™ roof sheathing panels are manufactured by Huber Engineered Woods, LLC, in Crystal Hill, Virginia; Commerce, Georgia; Broken Bow, Oklahoma; Easton, Maine; Spring City, Tennessee; and Shawinigan, Quebec, Canada, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Wood Structural Panel Roof Sheathing Factory-laminated with an Alternative Roof Underlayment (AC266), dated May 2008 (editorially updated October 2015).

7.0 IDENTIFICATION

Each ZIP System® and ZIP System+™ roof sheathing panel covered by this report must bear a label that includes the manufacturer's name (Huber Engineered Woods, LLC) and address; the product name; the evaluation report number (ESR-1473); and the grade, performance category and bond classification.

The panel mill label and span rating, grade, performance category and bond classification label must be visible on the bottom face of panels, opposite the laminated facer.

The ZIP System® tape roll is labeled with the product name and the evaluation report number (ESR-1473).

ICC-ES Evaluation Report

ESR-1473 LABC and LARC Supplement

Issued December 2017

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This report is subject to renewal September 2019.

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A Subsidiary of the International Code Council®

DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES
Section: 06 16 00—Sheathing

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

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC
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(800) 933-9220
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EVALUATION SUBJECT:

ZIP SYSTEM® AND ZIP SYSTEM+™ ROOF SHEATHING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the ZIP System® and ZIP System+™ Roof Sheathing panels, described in ICC-ES master evaluation report ESR-1473, 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:

- 2017 *City of Los Angeles Building Code* (LABC)
- 2017 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The ZIP System® and ZIP System+™ Roof Sheathing panels, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1473, comply with the LABC Chapters 15 and 23, and the LARC Section R803 and Chapter 9, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The ZIP System® and ZIP System+™ Roof Sheathing panels, described in this evaluation report must comply with all of the following conditions:

- All applicable sections in the master evaluation report ESR-1473.
- The design, installation, conditions of use and identification are in accordance with the 2015 *International Building Code*® (2015 IBC) provisions noted in the master evaluation report ESR-1473.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.

This supplement expires concurrently with the master report, reissued September 2017 and revised May 2018.

ICC-ES Evaluation Report

ESR-1473 CBC and CRC Supplement

Issued December 2017

Revised May 2018

This report is subject to renewal September 2019.

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DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES
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EVALUATION SUBJECT:

ZIP SYSTEM® AND ZIP SYSTEM+™ ROOF SHEATHING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the ZIP System® and ZIP System+™ roof sheathing panels, recognized in ICC-ES master evaluation report ESR-1473, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2016 *California Building Code* (CBC)
- 2016 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC

The ZIP System® and ZIP System+™ roof sheathing panels, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1473, comply with CBC Chapters 15 and 23, provided the design and installation are in accordance with the 2015 *International Building Code*® (2015 IBC) provisions noted in the master report and the additional requirements of the CBC Chapters 15, 16, 16A, 17, 17A and 23, as applicable. The ZIP System® and ZIP System+™ roof sheathing panels have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.

2.2 CRC

The ZIP System® and ZIP System+™ roof sheathing panels, as described in Sections 2.0 through 7.0 of the master evaluation report ESR-1473, comply with the CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*® (2015 IRC) provisions noted in the master report.

The ZIP System® and ZIP System+™ roof sheathing panels have not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.

The ZIP System® and ZIP System+™ roof sheathing panels recognized in this supplement have not been evaluated for compliance with the *International Wildland-Urban Interface Code*®.

This supplement expires concurrently with the master report, reissued September 2017 and revised May 2018.

ICC-ES Evaluation Report

ESR-1473 FBC Supplement

Reissued September 2017

Revised May 2018

This report is subject to renewal September 2019.

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DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES
Section: 06 16 00—Sheathing

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

REPORT HOLDER:

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EVALUATION SUBJECT:

ZIP SYSTEM® AND ZIP SYSTEM+™ ROOF SHEATHING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that ZIP System® and Zip System+™ roof sheathing, recognized in ICC-ES master evaluation report ESR-1473, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 *Florida Building Code—Building*
- 2017 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The ZIP System® and ZIP System+™ roof sheathing, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1473, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the master report.

Use of the ZIP System® and ZIP System+™ roof sheathing for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* has not been evaluated and is outside the scope of the evaluation report.

For products falling under Florida Rule 9N-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).

This supplement expires concurrently with the master report, reissued September 2017 and revised May 2018.



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ESR-2227

Reissued 02/2018

This report is subject to renewal 02/2020.

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



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ICC-ES Evaluation Report

ESR-2227

Reissued February 2018

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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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2018, 2015, 2012 and 2009 *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 is a pressure-sensitive, self-adhering, cold-applied tape 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 use of the tape as a flashing material is recognized for use on Type V construction under the IBC and non-fire-resistance-rated construction recognized under the IBC and IRC. The tape is recognized as a self-adhered membrane when used as flashing material in accordance with 2018 and 2015 IRC Section R703.4 [2012 and 2009 IRC Section R703.8].

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. The tape is nominally 0.012 inch thick [0.30 mm (12 mils)] and is produced in rolls of various widths, [minimum 3³/₄ inches (95 mm)] and lengths.

4.0 INSTALLATION

Installation of ZIP System™ Flexible Flashing Tape must comply with this report and the manufacturer's published

installation instructions. The installation instructions must be available at the jobsite at all times 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 20°F (-6.7°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 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 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 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 must not be left exposed to the weather or installed where it is subject to permanent direct weather exposure.
- 5.3** Installation of the 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 and roof sheathing substrates recognized in ICC-ES evaluation reports ESR-1473 and ESR-1474.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Flexible Flashing Materials (AC148), dated July 2018 (editorially revised May 2018).

7.0 IDENTIFICATION

- 7.1** 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 number (ESR-2227). The tape packaging is labeled with the manufacturer's name (Huber Engineered Woods LLC) and address and the evaluation report number (ESR-2227).

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

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ICC-ES Evaluation Report

ESR-2227 LABC and LARC Supplement

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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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Zip System™ Flexible Flashing Tape described in ICC-ES master evaluation report [ESR-2227](#), has 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:

- 2017 *City of Los Angeles Building Code* (LABC)
- 2017 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The Zip System™ Flexible Flashing Tape, described in Sections 2.0 through 7.0 of the master evaluation report [ESR-2227](#), complies with LABC Chapter 14, and LARC Section R703, and is subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Zip System™ Flexible Flashing Tape described in this evaluation report must comply with all of the following conditions:

- All applicable sections in the master evaluation report [ESR-2227](#).
- The installation, conditions of use and identification of the Flexible Flashing Tape are in accordance with the 2015 *International Building Code*® (2015 IBC) and 2015 *International Residential Code*® (2015 IRC) provisions, as applicable, as noted in the master evaluation report [ESR-2227](#).

This supplement expires concurrently with the master report, issued February 2018 and revised July 2018.

ICC-ES Evaluation Report

ESR-2227 CBC and CRC Supplement

Issued July 2018

This report is subject to renewal February 2020.

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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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Zip System™ Flexible Flashing Tape, recognized in ICC-ES master evaluation report ESR-2227, has also been evaluated for compliance with the code(s) noted below.

Applicable code editions:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Zip System™ Flexible Flashing Tape, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2227, complies with CBC Chapters 14, 15, and 23, provided the design and installation are in accordance with the 2015 *International Building Code*® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 14, 15, 16, 16A, 17, 17A and 23, as applicable.

The Zip System™ Flexible Flashing Tape has not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Area.

2.2 CRC:

The Zip System™ Flexible Flashing Tape, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2227, complies with the CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*® (IRC) provisions noted in the master report.

The Zip System™ Flexible Flashing Tape has not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Area.

The products recognized in this supplement have not been evaluated for compliance with the *International Wildland–Urban Interface Code*®.

This supplement expires concurrently with the master report, reissued February 2018 and revised July 2018.

ICC-ES Evaluation Report

ESR-2227 FBC Supplement

Reissued February 2018

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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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that ZIP System™ Flexible Flashing Tape, recognized in ICC-ES master evaluation report ESR-2227, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 *Florida Building Code—Building*
- 2017 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The ZIP System™ Flexible Flashing Tape, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2227, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the master report.

Use of the ZIP System™ Flexible Flashing Tape for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 9N-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).

This supplement expires concurrently with the master report, reissued February 2018 and revised July 2018.