ICC-ES Evaluation Report

ESR-4182

Reissued June 2025

Revised November 2025

Subject to renewal June 2026

This report also contains:

- City of LA Supplement
- CA Supplement
- FL Supplement w/ HVHZ

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION **Section: 07 46 00—Siding** **Section: 07 42 93—Linear Metal Soffits**	**REPORT HOLDER:** **LONGBOARD ARCHITECTURAL PRODUCTS INC.**	**EVALUATION SUBJECT:** **LONGBOARD SIDING**	

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2024, 2021, 2018, and 2015 *International Building Code®* (IBC)
- 2024, 2021, 2018, and 2015 *International Residential Code®* (IRC)

*Main references of this report are for the 2024 IBC and IRC. See Table 3 for applicable sections of the code for previous IBC and IRC editions.

Properties evaluated:

- Transverse wind load
- Surface Burning Characteristics
- Noncombustibility
- Types I, II, III or IV Construction

1.2 Evaluation to the following green codes and/or standards:

- 2022 *California Green Building Standards Code (CALGreen)*, Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard™* (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

2.0 USES

Longboard siding is used as an exterior veneer on combustible or non-combustible construction and as unvented roof eave soffits. When installed on exterior walls of buildings greater than 40 feet (12.2 m) above grade in Types I, II, III or IV Construction, the siding must comply with Section 4.3.

The attributes of Longboard siding have been verified as conforming to the provisions of (i) CALGreen Sections A4.405.1.3 (prefinished materials) and A5.406.1.2 (reduced maintenance); (ii) ICC 700-2020 Sections 601.7 and 11.601.7 (site-applied finishing materials) (iii) ICC 700-2015 and ICC 700-2012 Sections 601.7, 11.601.7, and 12.1(A).601.7 (site-applied finishing materials); and (iv) ICC 700-2008 Section 601.7 (site-applied finishing materials). 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. The code may provide supplemental information as guidance.

3.0 DESCRIPTION

Longboard siding is available in three profiles; V-Groove, Channel and Smooth (See Figure 1); lengths up to 24 feet (7.3 m); and is $^1/_{16}$ inch (1.59 mm) thick. It is fabricated from aluminum conforming to 6063 T5 and has a powder coating. Each profile is additionally available with or without a continuous rib (L-Rib or T-Rib) that runs along the center of the panel (see Figures 1 and 2). The aluminum is classified as non-combustible when tested in accordance with ASTM E136. With the powder coating applied, the Longboard siding has a flame spread index of less than 25 and a smoke-developed index of less than 450 when tested in accordance with ASTM E84. The siding with the powder coating applied is a composite material in accordance with 2024 IBC Section 703.3 and is acceptable as a noncombustible material.

4.0 DESIGN AND INSTALLATION

4.1 General:

Installation of Longboard siding must comply with the prescriptive requirements of 2024 IBC Section 1404.12 or IRC Section R703.3 and Table R703.3(1); this report; and the manufacturer's published instructions. Installation as unvented roof eave soffits must comply with the 2024 IBC Section 1402; 2024 IRC Section R704; AAMA 1402, this report; and the manufacturer's published instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

4.2 Wind Resistance:

Longboard siding must be supported by framingcapable of withstanding the imposed positive and negative design wind loads. The framing and substrate (if used) must be covered with an approved water-resistive barrier where required by the code. The siding must be attached using Quick-Screen™ Clips (supplied with the siding) as shown in Table 1 of this report. See Figure 3 for an illustration of the Quick-Screen™ Clip. The allowable positive and negative wind load on the Longboard siding both with and without the intermediate rib is 121 psf (5794 Pa). See Figure 1 for an illustration of the profiles without the continuous rib and Figure 2 for an illustration of the profiles with the continuous rib.

4.3 Types I, II, III or IV Construction:

Installation of Longboard siding on exterior walls of buildings greater than 40 feet (12.2 m) above grade in Types I, II, III or IV Construction under the IBC must comply with Section 4.3.1 or 4.3.2 of this report.

4.3.1 Exterior walls including the Longboard siding in which the water-resistive barrier is the only combustible material must comply with Exception 2 of 2024 IBC Section 1402.6.

4.3.2 Longboard siding must be installed in accordance with Table 2 in accordance with NFPA 285 testing.

5.0 CONDITIONS OF USE:

The Longboard siding 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 manufacturer's published installation instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instruction and this report, the most stringent governs.

5.2 The Longboard siding must be supported by framing designed in accordance with the applicable code.

5.3 A water-resistive barrier must be provided as required by the applicable code.

5.4 The substrate(if used) and framing to which the Longboard siding is attached must be designed for the applicable positive and negative wind loads. Design of the substrate and framing is outside the scope of this report.

5.5 The fasteners by which the Longboard siding is attached must be designed for the applicable positive and negative wind loads. Design of the attachment is outside the scope of this report.

5.6 When installed in buildings greater than 40 feet (12.2 m) above grade of Types I, II, III or IV Construction under the IBC, the Longboard siding must comply with Section 4.3.

5.7 The siding is manufactured under a quality control system with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature and installation instructions.

6.2 Documentation in accordance with American Architectural Manufactures Association Standard Specifications for Aluminum Siding, Soffit and Fascia (AAMA 1402).

6.3 Data in accordance with ASTM E136.

6.4 Data in accordance with ASTM E84.

6.5 Data in accordance with NFPA 285, including engineering analysis.

6.6 Data in accordance with TAS 201, TAS 202 and TAS 203 test methods for compliance with Florida Building Code High Velocity Hurricane Zones.

6.7 Quality documentation in accordance with ICC-ES Acceptance Criteria for Quality Documentation (AC10).

7.0 IDENTIFICATION

7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-4182) along with the name, registered trademark, or registered logo of the report holder [Longboard Architectural Products, Inc.] must be included in the product label.

7.2 In addition, each bundle of siding is marked with the report holder's name, the profile number, and the evaluation report number (ESR-4182).

7.3 The report holder's contact information is the following:

LONGBOARD ARCHITECTURAL PRODUCTS INC
#120-1777 CLEARBROOK RD
ABBOTSFORD, BRITISH COLUMBIA V2T 5X5
CANADA
(604) 607-6630
www.longboardproducts.com
info@longboardproducts.com

TABLE 1- WIND RESISTANCE INSTALLATION

Support Framing	Maximum Framing Spacing, inches	Number of Fastener per Quick-Screen Clip	Allowable Positive and Negative Wind Pressure, (psf)
Min. 2 by wood member having minimum specific gravity of 0.42	16	One (1) No. 8 corrosion resistant wood screw with minimum 1.5 inch embedment into the framing	121
Min. 18 gauge steel [0.0478-inch-thick (1.21 mm)] by minimum 1.5 inches wide, having a minimum tensile strength of 52 ksi		One (1) No. 8 TEK screw (grade 5) with 3 threads penetration beyond steel thickness	

For SI: 1 inch=25.4 mm; 1 psf= 47.88 Pa; 1 ksi= 6.89 MPa.

TABLE 2—TYPES I, II, III OR IV CONSTRUCTION- COMPONENTS OF CONSTRUCTION

ITEM NO.	WALL COMPONENTS	MATERIALS
1	Base Wall System— Use either 1, 2 or 3	1) Concrete wall 2) Concrete Masonry Unit (CMU) wall 3) Steel Studs: minimum $3\frac{5}{8}$-inch-depth, minimum 20 gauge steel studs spaced maximum of 16 inches on center. One layer of $\frac{5}{8}$-inch thick Type X gypsum wall board installed on interior side of steel studs. Gypsum wallboard joints shall receive at a minimum Level 2 finish with all fasteners covered with joint compound.
2	Floor Line Firestoppping Required in stud framing	Minimum 8-inch, 4 pcf mineral wool insulation friction it in each stud cavity, at each floor line
3	Stud Cavity Insulation- Use either 1, 2 or 3	1) None 2) Fiberglass Insulation—blow-in or batt insulation (faced or unfaced) 3) Mineral wool insulation—blown-in or batt insulation (faced or unfaced)
4	Exterior Sheathing	5/8-inch thick, Type X exterior gypsum sheathing
5	Water-resistive Barrier	Any water-resistive barrier material. Water-resistive barrier must be covered by minimum 2-inch-thick and minimum 3.8 pcf mineral wall insulation (see Item No. 6)
6	Exterior Insulation	Minimum 2½-inch-thick of mineral wool insulation having minimum 3.8 pcf over entire wall surface, installed around HITCH™ Clip HD 22 and held in place by Hitch Girts installed vertically spaced maximum 16 inches on center.
7	Exterior Cladding	Minimum 4-inch-wide Longboard V-Groove siding profile attached to ¾-inch deep galvalume steel Hitch™ Standard Girt using Quick-Screen™ Clips in accordance with Section 4.2 of this report. Maximum air cavity space from face of insulation to exterior face of cladding is 1.5 inches. See Figure 4 for vertical joint detail used above opening.
8	Opening	Minimum 0.040-inch thick aluminum flashing installed around opening

For SI: 1 inch= 25.4 mm; 1 pcf=16.02 kg/m^3.

TABLE 3—APPLICABLE SECTIONS OF THE IBC AND IRC UNDER EACH CODE EDITION

IBC			
2024 IBC	2021 IBC	2018 IBC	2015 IBC
Section 703.3		Section 703.5.2	
Section 1402	Section 1404.11		Section 1405.11
Section 1402.6	Section 1402.5		Section 1403.5
Section 1404.12	Section 1404.11		Section 1405.11
IRC			
2024 IRC	2021 IRC	2018 IRC	2015 IRC
Section R703.3			
Table R703.3(1)			
Section R704		Section R703.3.1 and R703.3.2	Section R703.3 and Table R703.3(1)

FIGURE 1—LONGBOARD SIDING WITHOUT CONTINUOUS RIB

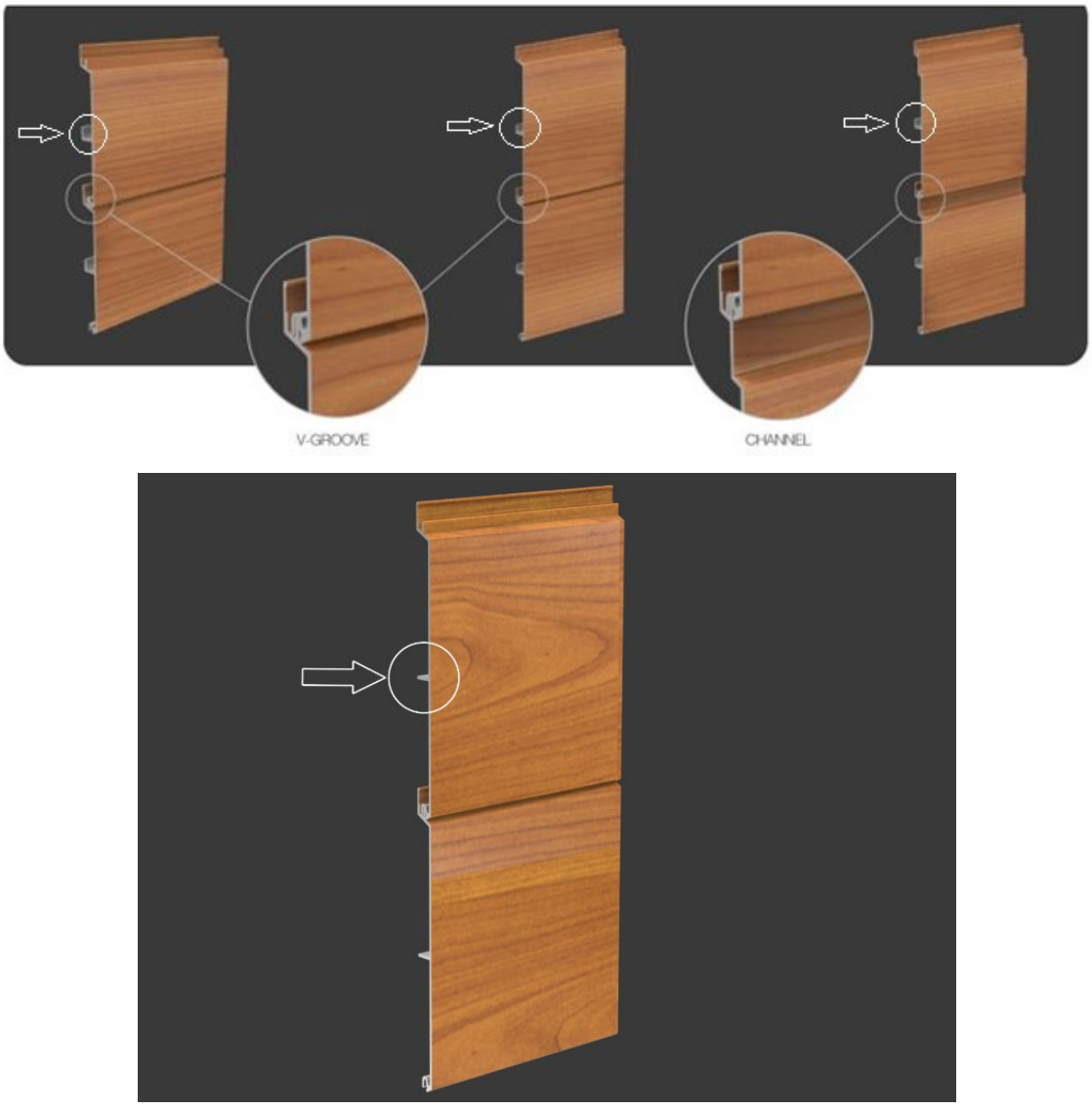

FIGURE 2—LONGBOARD SIDING WITH CONTINUOUS RIB HIGHLIGHTED BY ARROW

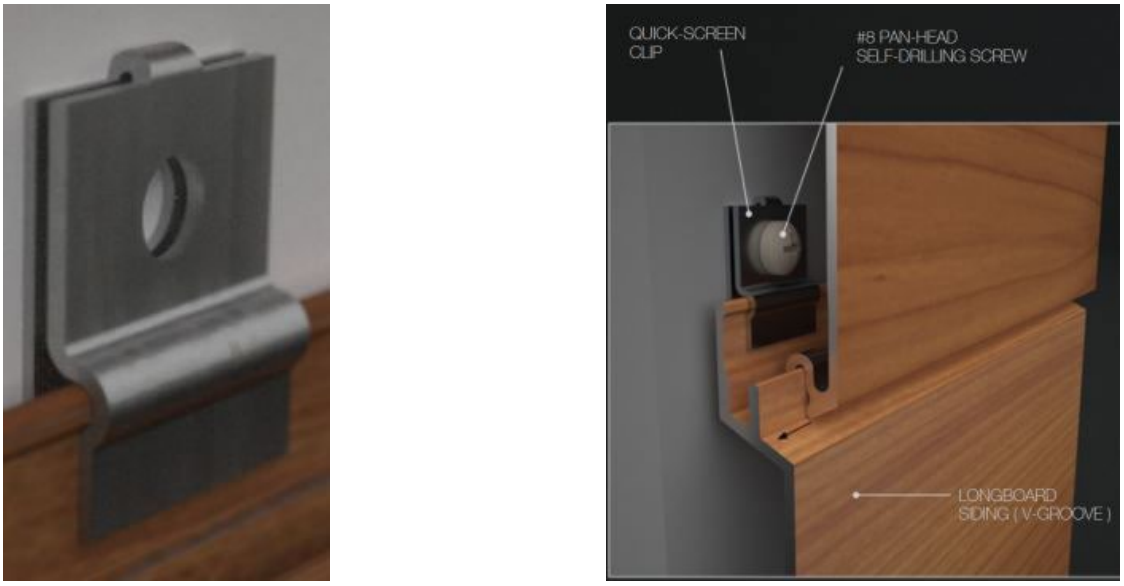

FIGURE 3—QUICK-SCREEN™ CLIP

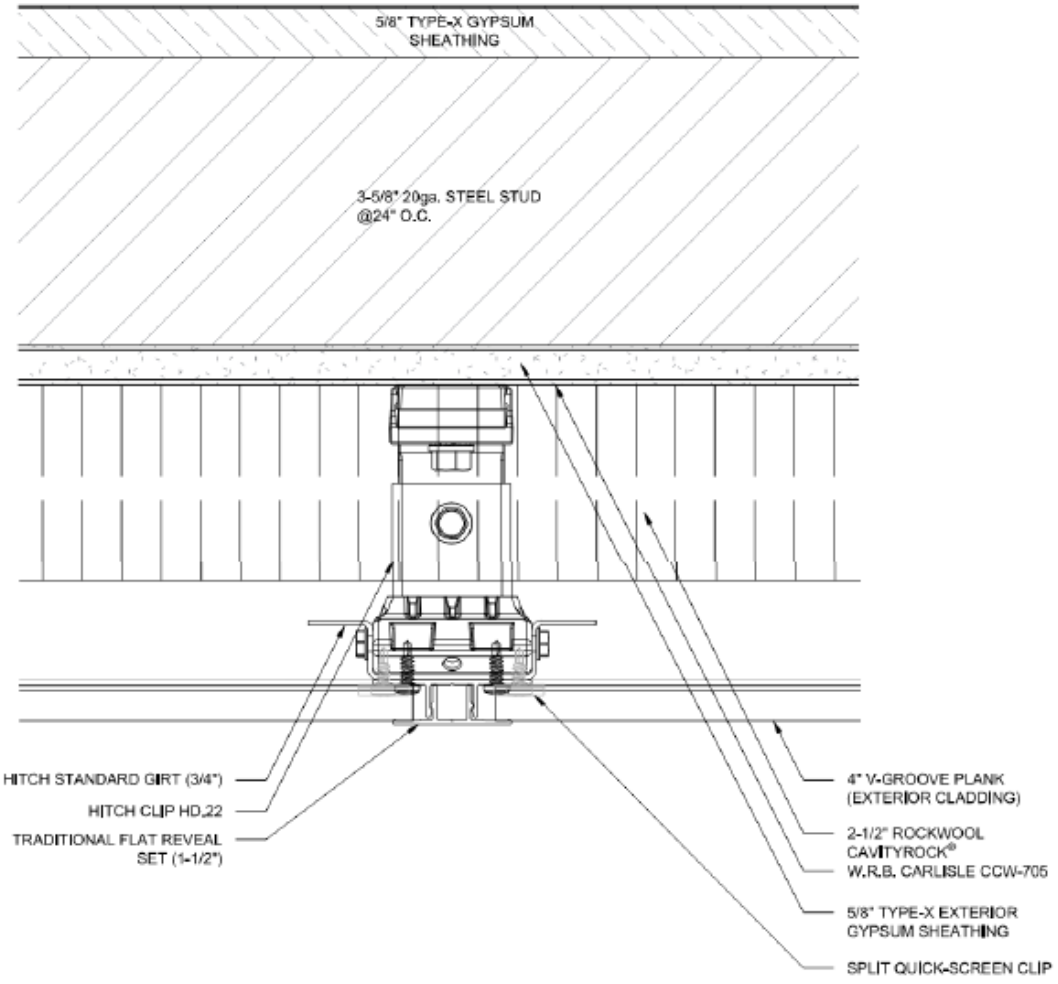

FIGURE 4- VERTICAL JOINT DETAIL

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 00—Siding
Section: 07 42 93—Linear Metal Soffits

REPORT HOLDER:

LONGBOARD ARCHITECTURAL PRODUCTS INC

EVALUATION SUBJECT:

LONGBOARD SIDING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Longboard siding, described in ICC-ES evaluation report ESR-4182, 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:

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

2.0 CONCLUSIONS

The Longboard siding, described in Sections 2.0 through 7.0 of the evaluation report ESR-4182, complies with the LABC Chapter 14, and the LARC Section R703, and is subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Longboard siding, described in this evaluation report must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-4182.
- The design, installation, conditions of use and identification of the Longboard siding are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report ESR-4182.
- The design, installation and inspection are in accordance with additional requirements of the LABC Chapters 16 and 17, as applicable.
- The Longboard siding may be used in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area, provided installation is in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of LABC Sections 701A.3, 707A.3 (Item 1) and 707A.6 (Item 1). The Longboard siding complies with the noncombustible material performance requirements of LABC Section 704A.4 (Item 1) when tested in accordance with ASTM E136 and may be used in the exterior design and construction of exterior walls and unvented roof eave soffits in new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area.
- The Longboard siding may be used in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area, provided installation is in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of LARC Sections R337.1.3, R337.7.3 (Item 1), and R337.7.6 (Item 1). The Longboard siding complies with the noncombustible material performance requirements of LARC Section R337.4.4 (Item 1) when tested in accordance with ASTM E136 and may be used in the exterior design and construction of exterior walls and unvented roof eave soffits in new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area.

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ICC-ES Evaluation Report

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Longboard siding, described in ICC-ES evaluation report ESR-4182, has 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 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 Longboard siding, described in Sections 2.0 through 7.0 of the evaluation report ESR-4182, complies with CBC Chapter 14, 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 14, as applicable.

The Longboard siding may be used in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area, provided installation is in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Sections 701A.3, 707A.3 (Item 1) and 707A.6 (Item 1). The Longboard siding complies with the noncombustible material performance requirements of CBC Section 704A.4 (Item 1) when tested in accordance with ASTM E136 and may be used in the exterior design and construction of exterior walls and unvented roof eave soffits in new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area.

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 Longboard siding, described in Sections 2.0 through 7.0 of the evaluation report ESR-4182, complies with CRC Section R703, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the applicable provisions of the CRC.

The Longboard siding may be used in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area, provided installation is in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Sections R337.1.3, R337.7.3 (Item 1), and R337.7.6 (Item 1). The Longboard siding complies with the noncombustible material performance requirements of CRC Section R337.4.4 (Item 1) when tested in accordance with ASTM E136 and may be used in the exterior design and construction of exterior walls and unvented roof eave soffits in new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or Wildland–Urban Interface Fire Area.

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

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ICC-ES Evaluation Report

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LONGBOARD SIDING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Longboard siding, described in ICC-ES evaluation report ESR-4182, 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 Longboard siding, described in Sections 2.0 through 7.0 of the evaluation report ESR-4182, complies with the *Florida Building Code—Building* and *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-4182 for the 2021 *International Building Code®* meet the requirements of the *Florida Building Code—Building* and *the Florida Building Code—Residential*.

Use of the Longboard siding has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *Florida Building Code—Residential* with the following conditions:

- The allowable negative design wind load of the Longboard siding must not exceed 121 psf.
- The Longboard siding must be installed on minimum 5/8-inch-thick plywood sheathing complying with US DOC PS-1.
- $^{5}/_{8}$-inch-thick plywood sheathing shall be attached to wood studs in accordance with Section 2322.3 of the *Florida Building Code-Building*. The wood studs must have a minimum specific gravity of 0.42.
- Installation must comply with Section 4.2 of ESR-4182.

In addition to the data noted in Section 6.0 of ESR-4182, data in accordance with Florida Building Code Test Protocols for High-Velocity Hurricane Zones TAS 201, TAS 202 and TAS 203 was submitted for Longboard siding.

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). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the Florida Building Code.

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