ICC-ES Evaluation Report

ESR-4182

Reissued June 2025

Subject to renewal June 2026

This report also contains:

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

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:

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

Properties evaluated:

- Transverse wind load
- Surface Burning Characteristics
- Noncombustibility

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.

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 2021 IBC Section 703.3 (2018 and 2015 IBC Section 703.5.2) 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 Section 1404.11 of the 2021 and 2018 IBC (Section 1405.11 of the 2015 IBC); or Sections R703.3 and Table R703.3(1) of the IRC; this report; and the manufacturer's published instructions. Installation as unvented roof eave soffits must comply with the 2021 and 2018 IBC Section 1404.11, 2015 IBC Section 1405.11; 2021 IRC Section R704, 2018 IRC Sections R703.3.1 and R703.3.2, or 2015 IRC Section R703.3 and Table R703.3(1); 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 backed by a substrate capable of withstanding the imposed positive and negative design wind loads. The substrate must be covered with an approved water-resistive barrier where required by the code. The siding is attached using Quick-Screen™ Clips (supplied with the siding) with 2 inch (51 mm) long #8 corrosion resistant screws through the sheathing into the studs at a spacing of 16 inches (406 mm) on center. See Figure 3 for an illustration of the Quick-Screen™ Clip. The allowable 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.

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 backed by a solid substrate. When that substrate is wood sheathing, it must be no less than $^{5}/_{8}$ inch (15.9 mm) thick plywood.

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

5.4 The substrate 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.

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

7.0 IDENTIFICATION

7.1 Each bundle of siding is marked with the report holder's name, the profile number, and the evaluation report number (ESR-4182).

7.2 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
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FIGURE 1—LONGBOARD SIDING WITHOUT CONTINUOUS RIB

FIGURE 2—LONGBOARD SIDING WITH CONTINUOUS RIB HIGHLIGHTED BY ARROW

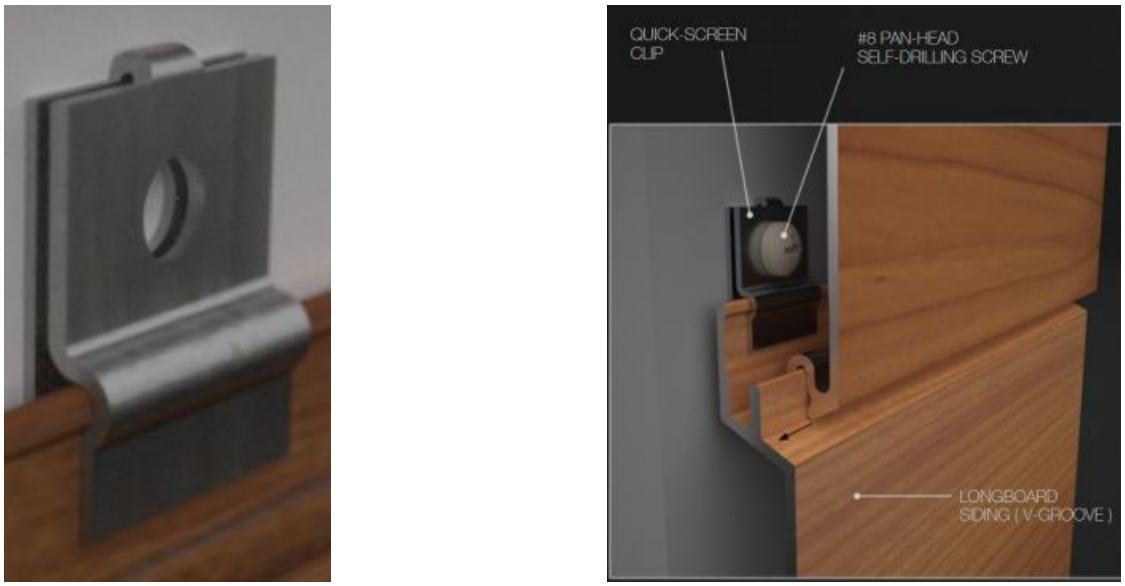

FIGURE 3—QUICK-SCREEN™ CLIP

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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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.

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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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:

- 2020 *Florida Building Code—Building*
- 2020 *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 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-4182 for the 2018 *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*.

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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