

ICC-ES Evaluation Report

ESR-4351

Reissued December 2023

Revised March 2024

Subject to renewal December 2025

This report also contains:

- LABC Supplement
- CBC Supplement
- FBC Supplement

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DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION Section: 07 46 00 — Siding	REPORT HOLDER: LUXYCLAD LTD	EVALUATION SUBJECT: LUXYCLAD TONGUE AND GROOVE SIDING AND SOFFIT	
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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-4351 LABC and LARC Supplement](#).

Property evaluated:

- Transverse Wind Load
- Fire

2.0 USES

Luxyclad tongue and groove siding and soffit is used as an exterior veneer or interior finish on combustible or noncombustible construction.

3.0 DESCRIPTION

Luxyclad tongue and groove siding and soffit is available in two profiles, V-Groove and Channel. The profiles are provided with accessory aluminum rain screen clips for attachment to the building substrate. All siding and soffit profiles as well as the aluminum rain screen clips are manufactured from 6063-T5 aluminum.

The V-Groove profile is available in lengths up to 24 feet (7.3m) in 4-inch or 6-inch nominal widths. The 4-inch nominal width V-Groove profile is 0.07-inch (1.8 mm) thick, and the 6-inch nominal width V-Groove profile is 0.09-inch (2.3 mm) thick. The 4-inch nominal width V-Groove profile is additionally available with a perforated face in a 12-foot (3.7 m) length; the perforated profile is intended for use in soffits.

The Channel profile is available in lengths up to 24 feet (7.3m) in a 6-inch nominal width. The thickness of the 6-inch nominal width Channel profile is 0.07 inch (1.8 mm).

The aluminum rain screen clips are manufactured in 1-inch (25.4 mm) lengths with the profile dimensions shown in [Figure 4](#).

The aluminum siding and soffit is classified as noncombustible when tested in accordance with ASTM E136.

The siding and soffit with the powder coating applied also meets the thickness exemption requirements outlined in Section 803.2 of the IBC for interior finish requirements.

The siding and soffit with powder coating applied is a composite material in accordance with the 2024 and 2021 IBC Section 703.3 (2018 IBC Section 703.5.2) and is acceptable as a noncombustible material.

See [Figures 1](#) through [3](#) for illustrations of Luxyclad tongue and groove siding and soffit.

4.0 DESIGN AND INSTALLATION

4.1 General:

Installation of the siding and soffit must comply with the applicable prescriptive requirements of Section 1404.12 of the 2024 IBC (Section 1404.11 of the 2021 and 2018 IBC); Section 1412.3 of the 2024 IBC; Section R703.3 and Table 703.3(1) of the IRC; Section 704.3 of the 2024 and 2021 IRC; the manufacturer's published instructions; and this report. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

4.2 Wind Resistance:

Luxyclad tongue and groove siding and soffit must be attached with corrosion resistant fasteners capable of withstanding the imposed positive and negative design wind loads and 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 and soffit are attached using aluminum rain screen clips (supplied with the siding) with project specific corrosion resistant fasteners into the building substrate at a maximum spacing of 16 inches (406 mm) on center. See [Figures 4](#) and [5](#) for an illustration of the aluminum rain screen clip and assembly. The allowable positive and negative wind loads on the Luxyclad tongue and groove siding and soffit are shown in [Table 1](#).

5.0 CONDITIONS OF USE

The Luxyclad tongue and groove siding and soffit 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 instructions and this report, the most stringent governs.
- 5.2 The Luxyclad tongue and groove siding and soffit must be backed by a solid substrate.
- 5.3 All metals in contact with aluminum must either be an alloy approved for direct aluminum contact, or isolated from the aluminum by an approved coating.
- 5.4 A water-resistive barrier must be provided as required by the applicable code.
- 5.5 The substrate and framing to which the Luxyclad tongue and groove siding and soffit 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.
- 5.6 The fasteners by which the Luxyclad tongue and groove siding and soffit 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 Manufacturer's Association Standard Specifications for Aluminum Siding, Soffit and Fascia (AAMA 1402).
- 6.3 Data in accordance with ASTM E136.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-4351) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, each pallet is marked with the product name.

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

LUXYCLAD LTD
C-24 BENFIELD DRIVE
ST. CATHARINES, ONTARIO L2S 3V5
CANADA
(877) 255-1022
www.luxyclad.com
info@luxyclad.com

TABLE 1—MAXIMUM ALLOWABLE TRANSVERSE WIND LOADS

PANELTYPE	MAXIMUM FASTENER SPACING (inches)	ALLOWABLE TRANSVERSE WIND LOAD (psf)	
		Positive	Negative
Luxyclad V-Groove 4-inch Siding / Soffit	16	100	100
Luxyclad V-Groove and Channel 6-inch Siding / Soffit	16	100	100
Luxyclad V-Groove 4-inch Perforated Soffit	16	100	100

For SI: 1 inch = 25.4 mm; 1 psf = 47.9 Pa

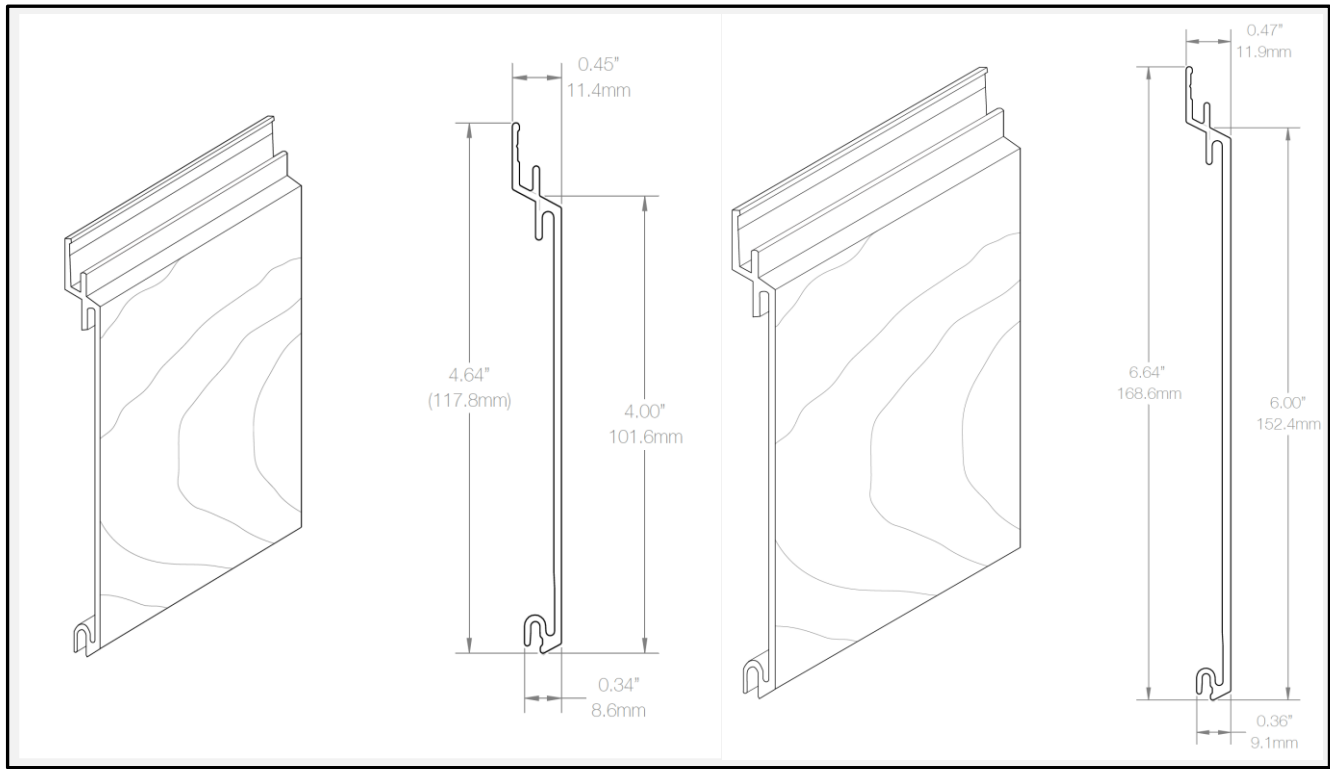


FIGURE 1—LUXYCLAD TONGUE AND GROOVE V-GROOVE SIDING AND SOFFIT; 4-INCH AND 6-INCH NOMINAL WIDTHS

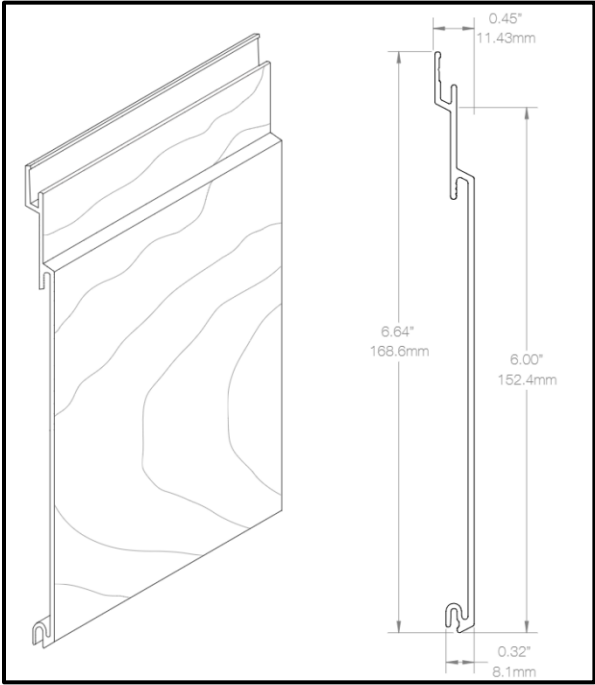


FIGURE 2—LUXYCLAD TONGUE AND GROOVE CHANNEL SIDING AND SOFFIT; 6-INCH NOMINAL WIDTH

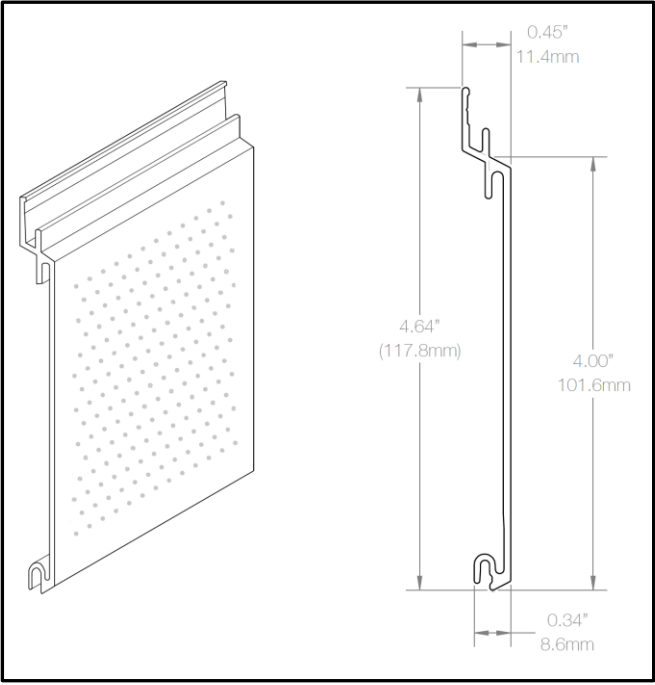


FIGURE 3—LUXYCLAD TONGUE AND GROOVE V-GROOVE PERFORATED SOFFIT; 4-INCH NOMINAL WIDTH

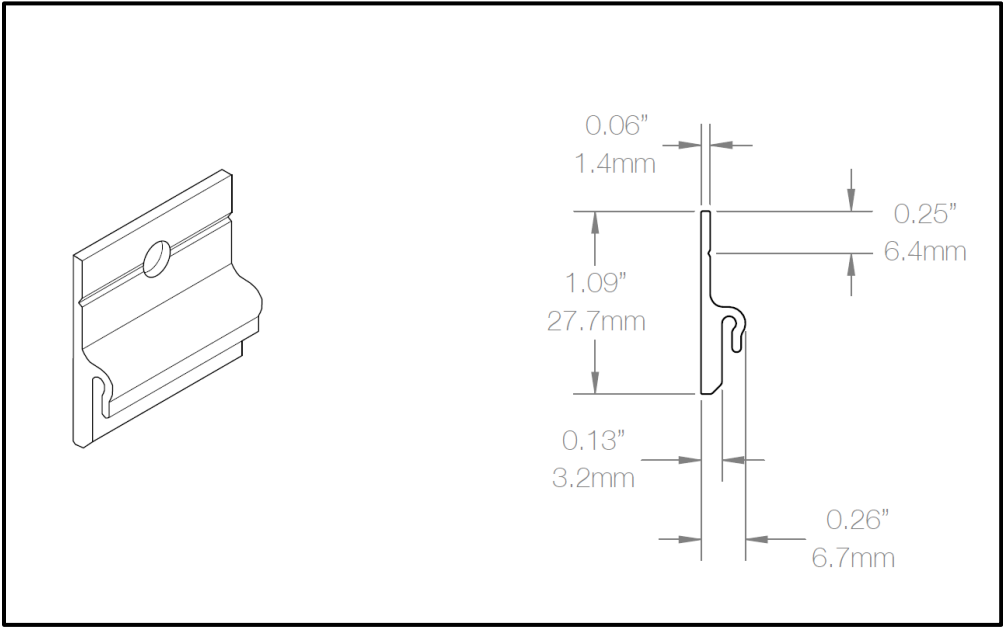


FIGURE 4—ALUMINUM RAIN SCREEN CLIP

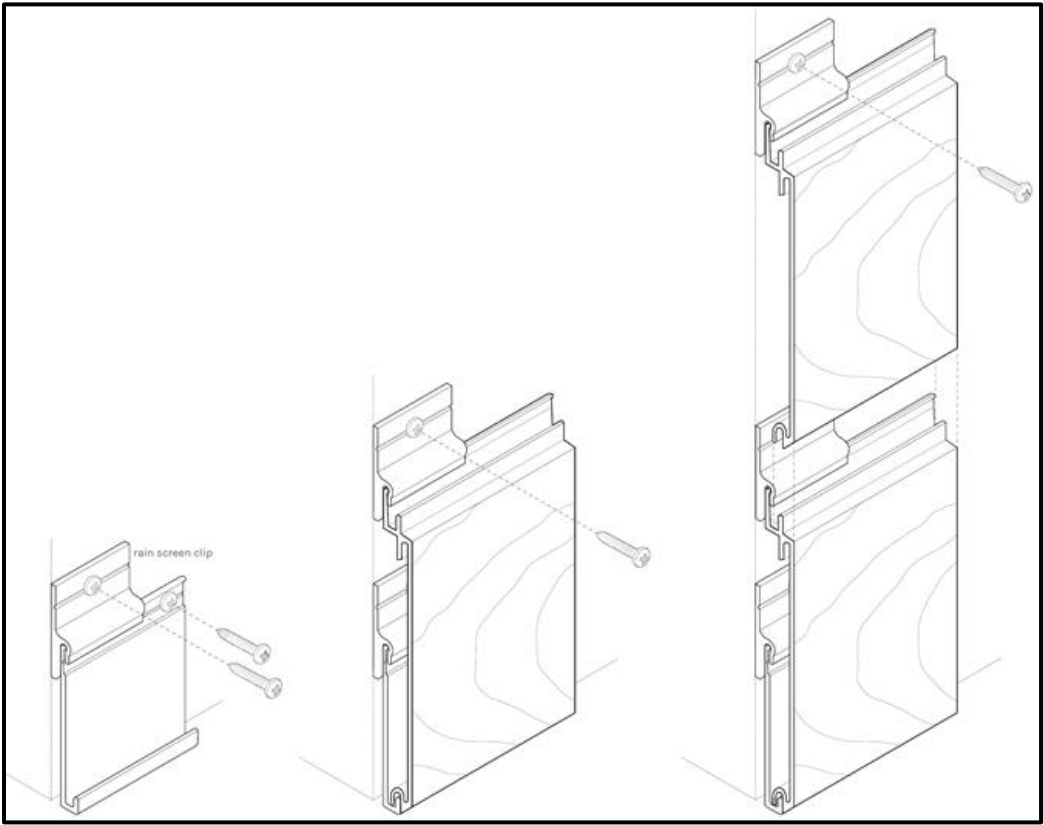


FIGURE 5—LUXYCLAD SIDING ASSEMBLY METHOD

ICC-ES Evaluation Report

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A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 00—Siding

REPORT HOLDER:

LUXYCLAD LTD

EVALUATION SUBJECT:

LUXYCLAD TONGUE AND GROOVE SIDING AND SOFFIT

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Luxyclad Tongue and Groove Siding and Soffit, described in ICC-ES evaluation report [ESR-4351](#), 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 Luxyclad Tongue and Groove Siding and Soffit, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4351](#), comply with the LABC Chapter 14 and the LARC Sections R703 and R704, and are subject to the conditions of use described in this evaluation report supplement.

3.0 CONDITIONS OF USE

The Luxyclad Tongue and Groove Siding and Soffit described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-4351](#).
- The design, installation, conditions of use and identification of the Luxyclad Tongue and Groove Siding and Soffit are in accordance with the 2021 *International Building Code*® (IBC) or 2021 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-4351](#).
- 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 evaluation report, reissued December 2023 and revised March 2024.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Luxyclad Tongue and Groove Siding and Soffit, described in ICC-ES evaluation report ESR-4351, have 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 the 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 Luxyclad Tongue and Groove Siding and Soffit, described in Sections 2.0 through 7.0 of the evaluation report ESR-4351, comply 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 ESR-4351 and the additional requirements of CBC Chapter 14, as applicable.

2.1.1 OSHPD: The applicable OSHPD Chapters and Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA: The applicable DSA Chapters and Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Luxyclad Tongue and Groove Siding and Soffit, described in Sections 2.0 through 7.0 of the evaluation report ESR-4351, comply with CRC Sections R703 and R704, 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.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Luxyclad tongue and groove siding and soffit, subject of ICC-ES evaluation report ESR-4351, 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 Luxyclad tongue and groove siding and soffit, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4351, comply with the 2023 *Florida Building Code—Building* and the *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-4351 for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* and the *Florida Building Code—Residential*.

Use of the Luxyclad tongue and groove siding and soffit has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential*, with the following condition: The Luxyclad tongue and groove siding and soffit must be backed by minimum $\frac{5}{8}$ -inch (16 mm) thick plywood sheathing.

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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