ICC-ES Evaluation Report

ESR-5413

Issued March 2025

Subject to renewal March 2026

This report also contains:

- **CA Supplement w/DSA and OSHPD**
- **FL Supplement**

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DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION Section: 07 46 00 – Siding	REPORT HOLDER: ARCHITECTURAL FABRICATION, INC.	EVALUATION SUBJECT: WALL PLANKS AND BATTENS	

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 California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architects (DSA), see ESR-5413 CBC and CRC Supplement.

Properties evaluated:

- Transverse load resistance
- Noncombustibility

2.0 USES

The wall planks described in this report are used as an interior and exterior cladding material on walls, ceilings and soffits of combustible or noncombustible construction. The battens described in this report are used as interior and exterior architectural products.

3.0 DESCRIPTION

3.1 General:

The wall planks and battens consist of extruded aluminum with a powder-coated finish which is available in several wood-grain finishes and several solid colors. The aluminum has alloy and temper of 6063-T5 or 6063-T6. The planks and battens are cut to the lengths required for each specific project.

3.2 Wall Planks:

The wall planks have a flat face and continuous screw channels. Adjacent planks interlock. The planks are available in widths of 3, 4, 6 and 8 inches (76, 102, 152 and 203 mm), and lengths up to 24 feet (7.3 m). The planks have a nominal base metal thickness of 0.063 (1.6 mm) and a depth of 0.80 inch (20.3 mm). The installed wall planks have an average weight of 1.55 psf (74.2 Pa). See Figure 1 for a depiction of typical wall plank installation and Figure 2 for a typical plank cross-section.

3.3 End Caps:

The report holder supplies end caps to close off the ends of the wall planks to minimize moisture infiltration. These caps are screwed into the screw channels of the planks.

3.4 Fasteners:

The fasteners used to attach the wall planks to the sheathing are supplied by the report holder and are corrosion-resistant, #10-14 x 1 inch (25.4 mm) hex washer head screws with a sealing washer. The washer used in the testing had a diameter of 0.485 inch (12.3 mm).

3.5 Battens:

Battens consist of two pieces of extruded aluminum: a base and a cover. See Figure 3 for typical cross-sections. The battens may be continuously supported (see Figure 4) or supported at the ends of the members (see Figure 5). The base is fastened to the supports and then the cover snaps over the base, concealing the fasteners. The base is nominally 2 inches (51 mm) wide and 2 inches (51 mm) deep. Batten covers are nominally 2 inches (51 mm) wide and 2, 4, 6 or 8 inches (51, 102, 152 and 203 mm) deep. The combined weight of the batten base and batten cover is less than 5 plf (73 N/m). Standard batten length is 24 feet (7.3 m).

4.0 DESIGN AND INSTALLATION

4.1 Design:

The wall planks and battens have been found to be noncombustible and the coating on the planks is exempted from interior finish classification requirements in accordance with IBC Section 803.2.

The allowable negative wind pressures for the wall planks fastened to sheathing at a spacing not exceeding 22 inches (560 mm) on center is 70 psf (3.35 MPa). This value applies to the capacity of the wall planks and the fastener pull-over resistance only. Selection of fasteners which provide the required withdrawal resistance is outside the scope of this report and must be addressed by others.

4.2 Installation:

The wall planks and battens are sent directly to the jobsite for installation by the report holder and are distributed for installation by others. Installation must be in accordance with the report holder's published installation instructions, the applicable code, and this report. The report holder's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available on the jobsite at all times during installation. In the event of a conflict between the manufacturer's published installation instruction and this report, the more severe requirements govern

4.2.1 Wall Plank Installation: The supporting wall must be sheathed with OSB or plywood having a minimum thickness of $^{5}/_{8}$ inch (15.9 mm). The wall planks must be installed over a water-resistive barrier complying with IBC Section 1403.2 or IRC Section R703.2, as applicable. Flashing in accordance with the applicable code must be installed at all openings, penetrations, abutments with dissimilar materials, and at terminations of the planks. Corner trim and J-trim base pieces must be installed in accordance with the report holder's published instructions. Planks may be installed vertically, horizontally or diagonally with screws spaced in accordance with Section 4.1. The screws must penetrate into or through the sheathing as required by the approved design. The sheathing and the fastening of the sheathing to the framing must comply with the IBC or IRC, as applicable, and must be designed to transfer the applied loads to the supporting framing.

4.2.2 Batten Installation: The batten bases are installed using the fasteners specified in the construction documents. The batten caps are then installed over the batten bases. End caps are installed where needed.

5.0 CONDITIONS OF USE:

The wall planks and battens described in this report comply with, or suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The products must be manufactured and identified as described in this report.

5.2 The sheathing and framing to which the wall planks are attached must be designed for the applicable positive and negative wind loads. Design of the sheathing, the fastening of the sheathing to the framing, and the framing itself is outside the scope of this report.

5.3 Design of battens and fastening of the battens to supports, to resist maintenance, wind or other loads, is outside the scope of this report, and must be addressed by others when required by the authority having jurisdiction.

5.4 The wall planks and battens are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature and installation instructions.

6.2 Reports of testing to determine allowable negative wind pressure for wall planks.

6.3 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-5413) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.

7.2 In addition, bundles of material delivered directly to the jobsite for installation by the report holder are identified by a label which includes the report holder name and address, the product type (wall planks or battens), the product depth and the project number. Bundles of material distributed for installation by others are identified by a label which includes the brand name (Alumination Architectural Products), the product type (wall planks or battens) and the product depth.

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

ARCHITECTURAL FABRICATION, INC.
2100 E. RICHMOND AVENUE
FORT WORTH, TEXAS 76104
(817) 926-7270
www.Arch-Fab.com

FIGURE 1—TYPICAL WALL PLANK INSTALLATION

FIGURE 2—EXTRUDED WALL PLANK CROSS-SECTIONS

FIGURE 3—EXTRUDED BATTEN CROSS-SECTIONS

FIGURE 4—CONTINUOUSLY SUPPORTED BATTEN

FIGURE 5—BATTEN SUPPORTED AT ENDS ONLY

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 00—Siding

REPORT HOLDER:

ARCHITECTURAL FABRICATION, INC.

EVALUATION SUBJECT:

WALL PLANKS AND BATTENS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that wall planks and battens described in ICC-ES evaluation report ESR-5413 have 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 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 wall planks and battens described in Sections 2.0 through 7.0 of the evaluation report ESR-5413 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 and the additional requirements of CBC Chapters 14, 16 and 17, as applicable.

The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

2.1.1 OSHPD: The wall planks and battens described in Sections 2.0 through 7.0 of the evaluation report ESR-5413 comply with CBC amended Chapter 14 [OSHPD 1, 1R, 2, 3, 4 & 5], 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 16 [OSHPD 1R, 2, 3 & 5], 16A [OSHPD 1 & 4], 17 [OSHPD 1R, 2, 3 & 5], 17A [OSHPD 1 & 4] and 20 [OSHPD 1, 1R, 2, 3 4 & 5], as applicable.

2.1.2 DSA: The wall planks and battens described in Sections 2.0 through 7.0 of the evaluation report ESR-5413, comply with CBC amended Chapter 14 [DSA-SS, DSA-SS/CC], 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 16 [DSA-SS/CC], 16A [DSA-SS], 17A [DSA-SS, DSA-SS/CC] and 20 [DSA-SS, DSA-SS/CC], as applicable.

2.2 CRC:

The wall planks and battens described in Sections 2.0 through 7.0 of the evaluation report ESR-5413 comply with CRC Chapters 7, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the applicable requirements of the CRC.

The products have not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

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

This supplement expires concurrently with the evaluation report, issued March 2025.

ICC-ES Evaluation Report

ESR-5413 FL Supplement

Issued March 2025

This report is subject to renewal March 2026.

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 00—Siding

REPORT HOLDER:

ARCHITECTURAL FABRICATION, INC.

EVALUATION SUBJECT:

WALL PLANKS AND BATTENS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the wall planks and battens addressed in ICC-ES evaluation report ESR-5413 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 wall planks and battens, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-5413, comply with the *Florida Building Code-Building* or 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-5413 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 wall planks has also been found to be in compliance with the High-Velocity Hurricane Zone (HVHZ) provisions of the *Florida Building Code-Building* or the *Florida Building Code-Residential*, based on testing in accordance with TAS 201, TAS 202 and TAS 203. Use of the battens for compliance with the HVHZ provisions 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).

This supplement expires concurrently with the evaluation report issued March 2025.