

ICC-ES Evaluation Report

ESR-3910

Reissued April 2025


This report also contains:

Subject to renewal April 2026

- [City of LA Supplement](#)
- [CA Supplement w/ DSA and OSHPD](#)
- [FL Supplement](#)

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

Copyright © 2025 ICC Evaluation Service, LLC. All rights reserved.

<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 46 46— Fiber-Cement Siding</p>	<p>REPORT HOLDER: EQUITONE</p>	<p>EVALUATION SUBJECT: EQUITONE TECTIVA AND NATURA FIBER- CEMENT PANELS</p>	
--	---	--	---

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015, 2012 and 2009 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018, 2015, 2012 and 2009 [International Residential Code® \(IRC\)](#)

Properties evaluated:

- Physical characteristics
- Weather resistance
- Wind load resistance
- Durability
- Fire-resistance-rated-construction
- Non-combustibility

2.0 USES

The Equitone Tectiva and Natura fiber-cement panels are used as an exterior wall cladding and soffits. The Equitone Tectiva and Natura fiber-cement panel system may be installed on buildings of any type of construction under the IBC and on buildings constructed in accordance with the IRC. When installed in Types I, II, III or IV construction, the installation must comply with Section 4.5 of this report. The system may be installed on one-hour-fire-resistance-rated-construction as indicated in Section 4.4 of this report. The system is also used for interior applications as part of a Class A interior wall finish.

3.0 DESCRIPTION

3.1 General:

The Equitone Tectiva and Nature fiber-cement panel system is an open-jointed wall cladding system that allows air to circulate between the panels and the exterior face of the approved water-resistive barrier. The panels are mounted with visible fasteners, on attachment systems composed of metal framing members and mounting brackets. When used as an exterior wall covering, the system must be installed over a water-resistive barrier. The Equitone Tectiva and Natura Fiber-cement Panel System is shown in [Figure 1](#).

3.2 Components:

3.2.1 Panels: The Equitone Tectiva and Natura panels are fiber-reinforced cement panels manufactured from portland cement, reinforcing fibers, and additives. The Natura panels comply with ASTM C1186 as Type A, Grade III, fiber-cement sheets. The Tectiva panels comply with ASTM C1186 as Type A, Grade IV, fiber-cement sheets. The Natura panels are available in a maximum width of 1280 mm ($50\frac{3}{8}$ inches) in 8 mm and 12 mm ($\frac{5}{16}$ - and $\frac{1}{2}$ -inch) nominal thickness, and in a maximum length of 2424 mm ($99\frac{3}{8}$ inches). The Tectiva panels are available in a maximum width of 1219 mm (48 inches) in 8 mm ($\frac{5}{16}$ -inch) nominal thickness, and in a maximum length of 2499 mm ($98\frac{3}{8}$ inches). The panels are available in various colors.

For interior use, the Equitone panels have a Class A finish in accordance with IBC Section 803.1.1 when tested in accordance with ASTM E84.

The Equitone Tectiva and Natura panels are classified as non-combustible when tested in accordance with ASTM E136.

3.2.2 Supporting Framing: The Equitone panels must be supported by extruded structural rails made of 6005A-T61 or better aluminum. The profiles must be either T-shape with minimum dimensions of 100 mm wide by 50 mm deep by 2 mm thick (3.94 inches by 1.97 inches by 0.079-inch) or L-shape with minimum dimensions of 50 mm by 50 mm by 2 mm thick (1.97 inch by 1.97 inch by 0.079-inch). The framing supporting the Equitone panels must be attached to the structure and designed by a registered design professional to resist the superimposed loads.

4.0 DESIGN AND INSTALLATION

4.1 General:

The Equitone Natura and Tectiva Fiber-cement Panel System (panels and attachment system) must be installed over wall assemblies capable of supporting the imposed loads including, but not limited to, transverse wind loads. The system must be securely connected to the supporting wall with fasteners that are compatible with the wall assembly substrate.

4.2 Design:

The allowable loads for the Equitone Natura and Tectiva Fiber-cement Panel System, given in [Table 1](#), and the wind-load capacity of the underlying wall and substrate must be equal to or exceed the design uniform transverse wind loads determined in accordance with Chapter 16 of the IBC or Section R301.2.1 of the IRC, as applicable. The attachment system connections used to connect the Equitone system to the underlying wall or substrate must be designed by a design professional, and the details must be submitted to the code official for approval. The allowable loads must be reduced to the capacity of the attachment system connections if these are less than the values in [Table 1](#). All fasteners used to connect the attachment system to exterior walls must be corrosion-resistant.

4.3 Installation:

4.3.1 General: The Equitone Fiber-Cement Panel System must be installed in accordance with the manufacturer's published installation instructions and this report. A copy of the manufacturer's published installation instructions must be available on the jobsite at all times during construction. The Equitone Fiber-cement Panel System must be installed over wall assemblies complying with 2024, 2021 and 2018 IBC Section 1402.3 (2015, 2012 and 2009 IBC Section 1403.3), using framing described in Section 3.2.2. Exterior wall assemblies, on which the Equitone System is to be installed, must include flashing, a water-resistive barrier, a means of draining water, and protection against condensation in accordance with 2024, 2021 and 2018 IBC Section 1402.2 (2015, 2012 and 2009 IBC Section 1403.2). The panels may be cut to accommodate various architectural designs. The system boundaries at the top, bottom, and around building openings must be finished in accordance with the manufacturer's published installation instructions to prevent entry of pests and vermin. A ventilation path must be maintained to allow air to flow into, out of, and within the cavity between the water-resistive barrier and the Equitone panels.

As required by 2024 IBC Section 1404.17.1 [2021 and 2018 IBC Section 1404.16.1 (2015, 2012 and 2009 IBC Section 1405.16.1)] and IRC Section R703.10.1, vertical joints must occur over framing members. Horizontal joints must be flashed with Z-flashing and blocked with solid framing. Where panels butt against door and window trim, and at corners, a $\frac{3}{16}$ -inch (4.8 mm) gap must be left and flashed in accordance with the applicable code. Trim and corners must be installed and the panels must be finished in accordance with the manufacturer's published application instructions. A clear distance of 6 inches (152 mm) must be maintained between the panels and the exposed earth.

4.3.2 Visible Fastening System: The L-shape and T-shape framing members described in Section 3.2.2 must be fastened to the wall structure as required by the registered design professional. L-shape or T-shape aluminum rails must be installed vertically at a maximum on-center spacing of 24 inches (610 mm). The T-shape rail must be used when installing abutting Equitone panels over vertical joints. The Equitone panels

must be fastened at a maximum spacing of 21 inches on center (533 mm) along the L-shape and T-shape rails, using $\frac{3}{16}$ -inch-diameter (4.76 mm), stainless steel fixed and gliding rivets, provided by Equitone. A minimum of two fixed rivets must be installed per each panel board. The remaining rivets must be gliding rivets. The edge spacing of the rivets must be in accordance with Equitone's published installed instructions. The maximum spacing between panels at joints is $\frac{3}{8}$ inch (9.5 mm).

4.4 Non-load-bearing Fire-resistance-rated Wall Assembly: When installed as described in this section, the nominally 8-millimeter Equitone Natura and Tectiva panels with the visible fastening system may be used as an asymmetrical, non-loadbearing, one-hour fire-resistance-rated wall assembly. The wall assembly was fire tested for exposure from the interior side.

The wall assembly must consist of 18 gage by $3\frac{5}{8}$ -inch (92 mm), C-channel steel studs at 24 inches (610 mm) on center. One layer of $\frac{5}{8}$ -inch-thick (15.9 mm), Type X gypsum wallboard complying with ASTM C1396, must be installed in a horizontal orientation on the interior face of the studs with No. 6 by $1\frac{1}{4}$ -inch (32 mm) long self-drilling drywall screws with a nominal spacing of 8 inches (203 mm) on the perimeter and 12 inches (305 mm) in the field. The gypsum wallboard joints and nail heads must be finished in accordance with ASTM C840 or GA216. The exterior face of the wall must be covered with one layer of $\frac{5}{8}$ -inch (15.9 mm) thick Type X gypsum sheathing complying with ASTM C1396. The gypsum sheathing must be installed in a vertical orientation with No. 6 by $1\frac{1}{4}$ -inch (32 mm) long self-drilling drywall screws with a nominal spacing of 8 inches (203 mm) on the perimeter and 12 inches (305 mm) in the field. Carlisle Coatings and Waterproofing CCW-702LV membrane adhesive must be applied over the gypsum sheathing with a medium nap roller. The application rate must be as described in the Carlisle Coating and Waterproofing published installation instructions. After applying the adhesive, the Carlisle Coatings and Waterproofing CCW-705 40-mil-thick [0.04-inch (1.02 mm)] membrane must be applied horizontally over the exterior surface. A minimum 3-inch overlap is required at each row of the CCW-705 membrane.

4-inch-by-2-inch-by-0.079-inch (102 by 51 by 2 mm) aluminum angle extrusions must be attached to the steel studs through the gypsum sheathing with No. 12 by 2-inch (51 mm) long self-drilling screws at 24 inches (610 mm) on center. The extrusions were placed vertically at 24 inches (610 mm) on center. Mineral wool thermal insulation boards with a thickness of 2.5 inches (64 mm) and a dual density of 6.2 pcf (100 kg/m³) for the outer layer and 4.1 pcf (65 kg/m³) for the inner layer must be installed between the extrusions and secure to the framing with insulation clips. 3-inch-by-2-inch-by-0.079-inch (76.2 by 51 by 2 mm) thick aluminum angle extrusions must be attached to the 4-inch by 2-inch (102 by 51 mm) aluminum angle extrusions as determined by a registered design professional. The Tectiva or Natura panels must be fastened to the 2-inch (51 mm) wide flange of the extrusions with $\frac{3}{16}$ -inch-diameter (4.76 mm), stainless steel rivets provided by Equitone. The spacing of the rivets must not exceed 24 inches (610 mm) on center. The panel joints must be spaced maximum of $\frac{3}{8}$ -inch (9.5 mm). Vertical joints of the Equitone panels must be backed by extrusions.

4.5 Types I, II, III or IV (Noncombustible) Construction:

The Equitone Tectiva and Natura panels are classified as non-combustible when tested in accordance with ASTM E136 and comply with IBC Section 703.5. When the panels are installed in Types I, II, III or IV construction of exterior wall assemblies and the wall assembly only consists of a combustible water-resistive barrier, the building height is limited to 40 feet (12.2 m) above grade as indicated in 2024 IBC Section 1402.6 [2021 and 2018 IBC Section 1402.5 (2015 and 2012 IBC Section 1403.5)], unless when used with combustible water-resistive barriers complying with Exception 2 of the 2024 IBC Section 1402.6 [2021 and 2018 IBC Section 1402.5(2015 IBC Section 1403.5)].

5.0 CONDITIONS OF USE:

The Equitone Natura and Tectiva Fiber-Cement Panel System 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, this report governs.
- 5.2** The Equitone Natura and Tectiva Fiber-Cement Panel System must be installed by qualified installers recognized by Equitone.
- 5.3** The allowable wind pressures for the Equitone Natura and Tectiva Fiber-Cement Panel System shown in [Table 1](#), the capacity of the supporting wall or substrate, and the capacity of the connections used to attach the system to the wall must be equal to, or exceed, the design wind pressure.
- 5.4** Drawings, design details, and calculations verifying the adequacy of the fastening to connect the Equitone panel attachment system to the supporting wall must be submitted to the code official for approval. These must be prepared by a registered design professional when required by the statutes of the jurisdiction in which the system is to be installed.

- 5.5 When installed on exterior walls, the Equitone Natura and Tectiva Fiber-Cement Panel System must be installed only on exterior walls incorporating sheathing capable of resisting the design wind pressures, both positive and negative. The sheathing must be covered with a water-resistive barrier, as required by the applicable code, and a ventilation path must be maintained between the water-resistive barrier and the panels.
- 5.6 When installed with spaces between adjacent panels on interior walls required to have a Class A finish, the Equitone Natura and Tectiva Fiber-Cement Panels and System must be installed over a substrate having a Class A finish.
- 5.7 For use in fire-resistance-rated construction, installation must be in accordance with Section 4.4.
- 5.8 When installed in Types I, II, III, or IV construction, installation must be in accordance with Section 4.5.
- 5.9 The Equitone Natura and Tectiva Panel System is manufactured in Beckum, Germany and Kapelle-op-den-Bos, Belgium, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Fiber Cement Siding Used as Exterior Wall Siding \(AC90\)](#), dated October 2020 (editorially revised June 2024).
- 6.2 Reports of testing in accordance with ASTM E84, Test Method for Surface-burning Characteristics of Building Materials.
- 6.3 Reports of testing in accordance with ASTM E119, Test Method for Fire Tests of Building Construction and Materials.
- 6.4 Reports of testing in accordance with ASTM E136, Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C.

7.0 IDENTIFICATION

- 7.1 The Equitone Natura and Tectiva Fiber-Cement Panel System is labeled with the name of the manufacturer [Equitone], the panel and attachment system types, and the evaluation report number (ESR-3910).
- 7.2 The report holder’s contact information is the following:

EQUITONE
1731 FRED LAWSON DRIVE
MARYVILLE, TENNESSEE 37801
(857) 829-0016
www.equitone.com

TABLE 1—ALLOWABLE TRANSVERSE WIND LOAD FOR USE OF THE EQUITONE NATURA AND TECTIVAPANEL SYSTEM

SYSTEM TYPE, NOMINAL PANEL THICKNESS	ALLOWABLE TRANSVERSE WIND LOAD ¹	
	Positive	Negative
Natura, 8 and 12millimeter (⁵ / ₁₆ - and ½inch) panel	46 psf	37 psf
Tectiva, 8-millimeter (⁵ / ₁₆ -inch) panel	40 psf	32 psf

For **SI**: 1 inch = 25.4 mm, 1 psf = 0.0479 kPa.

¹Maximum allowable positive and negative transverse wind loads for use of the panels fastened to the Equitone panel attachment system described in Section 4.3. Allowable loads must be reduced to the capacity of the fastening, determined in accordance with Section 4.2, used to connect the Equitone panel attachment system to the underlying wall or substrate.

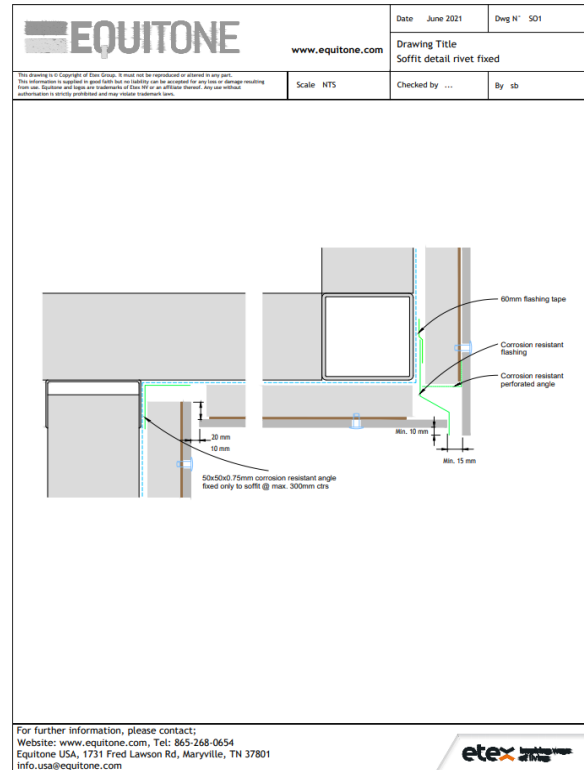
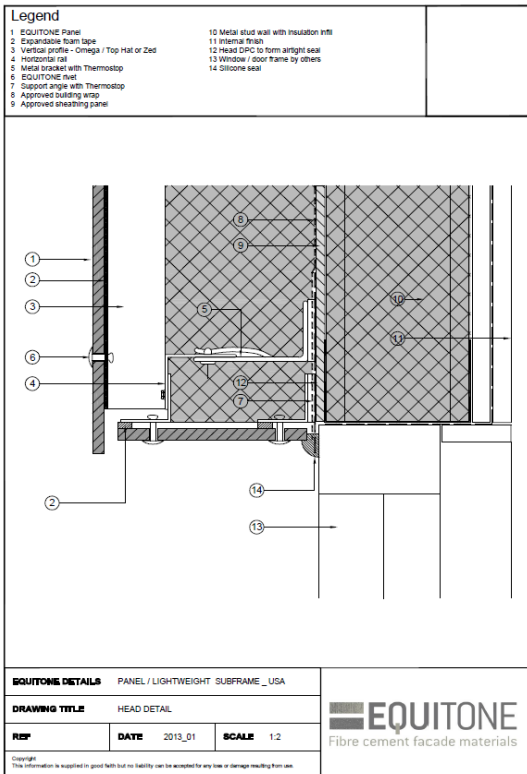
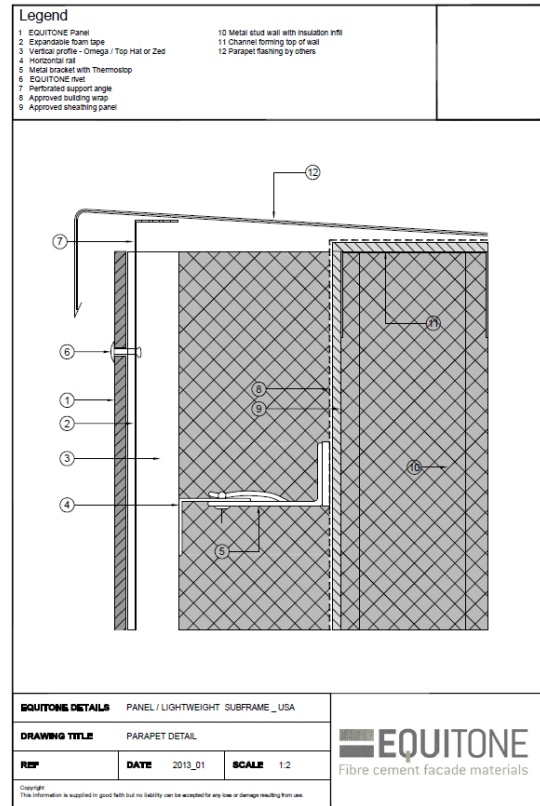
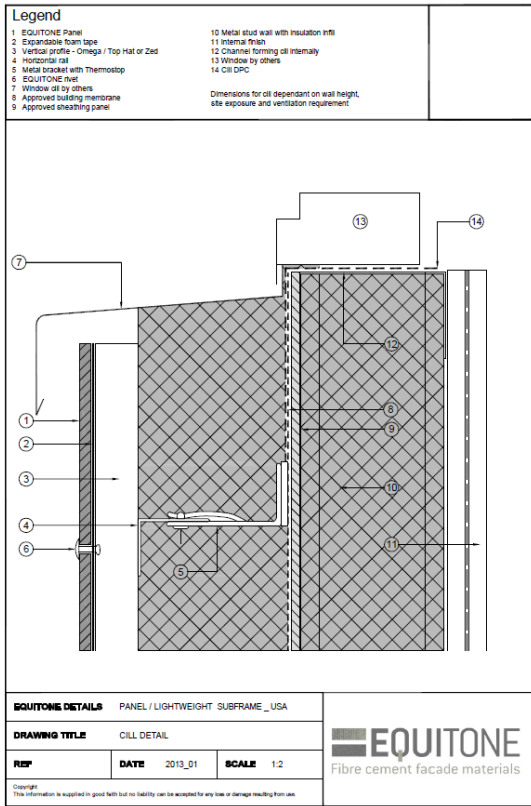


FIGURE 1—EQUITONE NATURA AND TECTIVE FIBER-CEMENT PANEL SYSTEM (TYPICAL INSTALLATION DETAILS)

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

REPORT HOLDER:

EQUITONE

EVALUATION SUBJECT:

EQUITONE TECTIVA AND NATURA FIBER-CEMENT PANELS

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Equitone Tectiva and Natura Fiber-Cement panel systems, described in ICC-ES evaluation report [ESR-3910](#), 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 Equitone Tectiva and Natura Fiber-Cement panel systems, described in Sections 2.0 through 7.0 of the evaluation report [ESR-3910](#), comply with the LABC Chapters 7, 8 and 14, and the LARC Chapter 7, and are subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Equitone Tectiva and Natura Fiber-Cement panel systems described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-3910](#).
- The design, installation, conditions of use and identification of the panels are in accordance with the 2021 *International Building Code*® (IBC) and 2021 *International Residential Code*® (IRC) provisions are noted in the evaluation report [ESR-3910](#)
- The design, installation and inspection are in accordance with additional requirements of the LABC Chapters 16 and 17, as applicable.
- Equitone Tectiva and Natura Fiber-Cement panel systems have not been evaluated under LABC Chapter 7A or the LARC 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.

This supplement expires concurrently with the evaluation report, reissued April 2025.

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

REPORT HOLDER:

EQUITONE

EVALUATION SUBJECT:

EQUITONE TECTIVA AND NATURA FIBER-CEMENT PANELS

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Equitone Tectiva and Natura Fiber-Cement panel systems, described in ICC-ES evaluation report ESR-3910, 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 Equitone Tectiva and Natura Fiber-Cement panel systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-3910, comply with CBC Chapters 7, 8 and 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 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 Equitone Tectiva and Natura Fiber-Cement panel systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-3910, comply with CBC amended Chapters 7, 8 and 14, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the following requirements:

1. Additional requirements of CBC Section 1404.1.1 [OSHPD 1, 1R, 2, 4 and 5] as applicable.
2. Additional requirements of CBC Chapter 16A and Section 1705A.12.3 [OSHPD 1 and 4], and Chapter 16 and Section 1705.12.3 [OSHPD 1R, 2 and 5] as applicable.

2.1.2 DSA:

The Equitone Tectiva and Natura Fiber-Cement panel systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-3910, comply with CBC amended Chapters 7, 8 and 14, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the following requirements:

1. Additional requirements of CBC Section 1404.1.1 [DSA-SS & DSA-SS/CC] as applicable.
2. Additional requirements of CBC Chapter 16A [DSA-SS], Chapter 16 [DSA-SS/CC] and Section 1705A.12.3 [DSA-SS & DSA-SS/CC] as applicable.

2.2 CRC:

The Equitone Tectiva and Natura Fiber-Cement panel systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-3910, comply with CRC Chapter 7, provided the design and installation are in accordance with the 2021 *International Residential Code*[®] (IRC) provisions noted in the evaluation report.

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

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

This supplement expires concurrently with the evaluation report, reissued April 2025.

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

REPORT HOLDER:

EQUITONE

EVALUATION SUBJECT:

EQUITONE TECTIVA AND NATURA FIBER-CEMENT PANELS

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Equitone Tectiva and Natura Fiber-Cement panel systems, described in ICC-ES evaluation report ESR-3910, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 Florida Building Code—Residential
- 2023 Florida Building Code—Building

2.0 CONCLUSIONS

The Equitone Tectiva and Natura Fiber-Cement panel systems, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-3910, comply with the *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-3910 for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable, with the following conditions:

1. Design wind loads must be based on Section 1609 of the *Florida Building Code—Building* or Section R301.2.1.1 of the *Florida Building Code—Residential*, as applicable.
2. Load combinations must be in accordance with Section 1605.2 or Section 1605.3 of the *Florida Building Code—Building*, as applicable.
3. Installation must meet the requirements of Section 1403.8 of the *Florida Building Code—Building* or Section R318.7 of the *Florida Building Code—Residential*, as applicable.
4. Flashing must be in accordance with Section 1405.4 of the *Florida Building Code—Building* or Section R703.4 of the *Florida Building Code—Residential*, as applicable.

Use of the Equitone Tectiva and Natura Fiber-Cement panel systems for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* 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, reissued April 2025.