

# **ICC-ES Evaluation Report**

### ESR-1015

Reissued April 2025

This report also contains:

- CA Supplement

Subject to renewal April 2027

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DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION Section: 07 42 43— Composite Wall Panels	EPORT HOLDER: ITADEL RCHITECTURAL RODUCTS, INC.	EVALUATION SUBJECT: ENVELOPE 2000 <sup>®</sup> WALL PANELS	
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# **1.0 EVALUATION SCOPE**

- 1.1 Compliance with the following codes:
- 2018, 2015, 2012, and 2009 International Building Code® (IBC)

### **Property evaluated:**

- Structural
- Fire resistance
- 1.2 Evaluation to the following green code(s) and/or standards:
- 2022 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 <u>National Green Building Standard</u><sup>™</sup>(ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

### Attributes verified:

See Section 2.0

## **2.0 USES**

The Envelope 2000<sup>®</sup> wall panels are aluminum composite panels complying with 2018 IBC Section 1406 (2015, 2012, and 2009 IBC Section 1407) for metal composite materials (MCM) and are used as nonloadbearing exterior wall panels in accordance with 2018 IBC Section 1406 (2015, 2012, and 2009 IBC Section 1407). Additionally, the Envelope 2000<sup>®</sup> wall panels are used as an interior wall finish in accordance with Section 803 of the IBC. For installation on exterior walls of Type I, II, III, or IV construction, the Envelope 2000<sup>®</sup> wall panels must be installed as a component of exterior wall assemblies constructed in accordance with Section 4.3 of this report. For installation on exterior fire-resistance-rated walls, the wall assemblies must be constructed in accordance with Section 4.5 of this report.

The attributes of the Envelope 2000<sup>®</sup> wall panels have been verified as conforming to the provisions of (i) CALGreen Sections A4.405.1.3 for prefinished materials and A5.406.1.2 for reduced maintenance; (ii) ICC 700-2020 Sections 601.7 and 700-2012 11.601.7: (iii) ICC 700-2015 and ICC Sections 601.7, 11.601.7, and 12.1(A).601.7; and (iv) ICC 700-2008 Section 601.7 for 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**

## 3.1 Panels:

Envelope 2000<sup>®</sup> Wall Panels are metal composite material (MCM) sandwich panels consisting of aluminum facers bonded to a thermoset phenolic resin core. The exterior facing material is 0.024-inch-thick (0.61 mm) aluminum alloy 3105, temper H24 [minimum tensile yield strength of 18 ksi (124 MPa)]. The interior facing is 0.010-inch-thick (0.25 mm) aluminum alloy 5052, temper H34 [minimum tensile yield strength of 26 ksi (179 MPa)]. The core has a nominal thickness of 0.105 inch (2.7 mm) and a nominal density of 89 pounds per cubic foot (1,426 kg/m<sup>3</sup>). The overall panel thickness is 0.152 inch (3.9 mm), and the panels are available in maximum widths of 60 inches (1524 mm) and in maximum lengths of 144 inches (3658 mm). The panels are prefinished and have a Class A classification in accordance with IBC Section 803 with a maximum flame-spread index of 25 and a maximum smoke-developed index of less than 450 when tested in accordance with ASTM E84.

# 3.2 Panel Stiffeners and Attachment Accessories:

Installation of the Envelope 2000<sup>®</sup> Wall Panels requires accessory extrusions, angles, corner brackets, hat channels and stiffeners supplied by the MCM systems fabricator. The accessories are manufactured from 6063-T5 alloy aluminum. The fabricators prepare the panels using the route-and-return method to cut and shape the panels or flat panels to be used with the field assembled reveal installation method. In the route and return method, the fabricators install the extrusions, angles, brackets, and stiffeners in preparation to install the panels as required by specific design. See <u>Figures 2</u> and <u>4</u> for details.

# 4.0 DESIGN AND INSTALLATION

# 4.1 Design:

The maximum allowable design wind pressure for the Envelope 2000<sup>®</sup> Wall Panel systems when installed in accordance with Section 4.2 of this report are included in <u>Table 1</u> of this report. Support framing such as wall studs must be designed in accordance with the applicable code to be adequate for these loadings.

## 4.2 Installation:

The panels must be attached to the exterior walls of the building by use of attachment accessories described in Section 3.2. The MCM systems are assembled in fabrication facilities; field fabrication is limited to minor adjustments and cutting the assembled panels to fit as necessary. The appropriate installation procedures must be followed for each system. The manufacturer's published installation instructions and this report must be strictly adhered to, and a copy of the manufacturer's instructions must be available on the jobsite during installation.

**4.2.1 Panel Fabrication:** Panels are prefabricated by a systems fabricator using one of the methods described in Section 4.2.1.1 or 4.2.1.2.

**4.2.1.1 Route and Return Method:** The route and return method involves routing around a panel's entire perimeter using a V-groove router, leaving only the facer sheet uncut at the base of the groove along all edges. Routing must be at least 1 inch (25.4 mm) from each edge of the panel, to create 1-inch (25.4 mm) return legs all around when folded up at a right angle, while using the facer sheet as a hinge. Corners formed by the return legs must be sealed with silicone sealant/adhesive complying with ASTM C1184 and braced by corner brackets attached with aluminum rivets. The panels must be reinforced at the back with 1-inch-by-2-inch (25.4 mm by 50.8 mm) aluminum tube stiffeners, with a wall thickness of 0.15 inch (3.81 mm), spanning the shorter panel dimension, which is maximum 58 inches (1473 mm) after fabrication. One stiffener is placed at the center of the panel; remaining stiffeners are placed 24 inches (610 mm) on center away from the center. Stiffeners are attached to the back of the panel with silicone sealant/adhesive complying with ASTM C1184 and a  $1_{16}$ -inch-thick-by- $3_{4}$ -inch-wide (1.6 mm by 19.1 mm) double-sided foam tape. The sealant must be applied continuously along both edges of the tube stiffeners, while the double-sided foam tape provides body to sealant bond line and stability as the sealant cures. See Figure 1 for details of each system.

**4.2.1.2 Reveal Method:** The reveal method includes the fabrication of flat panel sheets at pre-determined sizes. The MCM panels and sealant complying with ASTM C1184 are then field inserted into one-piece extruded aluminum moldings along all four sides of the panel. The panels are stiffened by hat channels or 1-inch (25.4 mm) wide strips of excess panel material spaced at a maximum of 16 inches (406 mm) on center.

**4.2.2 Fastening systems:** The Envelope 2000<sup>®</sup> panels are installed using one of four available fastening systems provided by the fabricator: the Rout and Return System (RR), the Rain Screen System (RS), the Reveal System (RV) and the Deep Reveal System (D-RV). The RR and RS systems begin with the same rout-and-return method of preparing the panel, described in Section 4.2.1.1. Each system is then assembled with a particular set of extrusions that are used to attach the MCM panel to structural framing. The extrusions are

fastened to the return legs around the perimeter of the MCM panel. With the RR system, all joints are finished with a sealant, providing a barrier to water penetration. The RS system allows water to enter and escape the cavity behind the panels.

The RV and D-RV systems begin with flat MCM sheets of predetermined sizes that are precut at the fabricator's facility or cut to size at the job site. The panels are inserted into aluminum extrusions and sealed around their perimeters where they are supported by the continuous aluminum extrusions with a silicone-based sealant to prevent water intrusions. The panels are supported by adhesion to intermediate stiffeners consisting of 16 gauge (0.025 in [0.64 mm]) steel or aluminum hat channels (D-RV) or 1-inch (25.4 mm) wide strips of excess panel material (RV) spanning in the short dimension of the panel. The intermediate stiffeners are adhered to the back of the MCM panels with Franklin Tite-Bond Heavy Duty Construction Adhesive complying with ASTM D897. See Figure 3 for details of each system.

# 4.3 Exterior Walls of Buildings of Type I, II, III, or IV Construction (2018 IBC Section 1406.10 [2015, 2012, and 2009 IBC Section 1407.10]):

**4.3.1 Using the Envelope 2000<sup>®</sup> RR fastening system:** Where exterior walls are required to be noncombustible construction, the walls with the Envelope 2000<sup>®</sup> RR wall panels must be constructed as follows:

- 1. Wall framing must be minimum 16 gage galvanized steel studs complying with ASTM C645, 3<sup>5</sup>/<sub>8</sub>-inchdeep (92.1 mm) by 1<sup>3</sup>/<sub>8</sub>-inch (34.9 mm), spaced a maximum of 16 inches (406 mm) on center.
- 2. The interior side of the wall must be covered with one layer of minimum <sup>5/</sup><sub>8</sub>-inch-thick (15.9 mm), Type X gypsum wallboard, installed with the long dimension perpendicular to the studs. The wallboard must be fastened to the studs using No. 6 x 1<sup>1</sup>/<sub>4</sub>-inch-long Type S bugle head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field. The interior wallboard joints must be taped and treated with paper tape and joint compound. The screw heads must be treated with joint compound.
- 3. FSK-25 R-11 foil-faced fiberglass insulation must be installed in the stud cavity with the foil facer on the interior side.
- 4. Mineral wool insulation with a nominal density of 4 pounds per cubic foot (65 kg/m3) must be installed as a safing material at the floor lines.
- 5. The exterior side of the wall must be covered with one layer of minimum <sup>1</sup>/<sub>2</sub>-inch-thick (12.7 mm), glass mat gypsum substrate sheathing complying with ASTM C1177. The glass mat gypsum sheathing must be installed using 1<sup>1</sup>/<sub>4</sub>-inch-long (31.8 mm) SD pan-head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field with joints covered with joint sealant tape in accordance with the manufacturer's published installation instructions.
- 6. Dupont<sup>™</sup> Tyvek<sup>®</sup> Homewrap<sup>®</sup> must be installed on the exterior side of the glass mat gypsum sheathing and fastened to the sheathing using staples.

The Envelope 2000<sup>®</sup> RR panels must be installed on the exterior side of the wall in accordance with Section 4.2 above. All joints in the RR panel system must be sealed with Dow Corning 795 caulk. The floor level cavity at the intersection of the floor slab and the exterior wall framing system must be completely filled with an approved material or system meeting the criteria specified in 2018, 2015 and 2012 IBC Section 715.4 or 2009 IBC Section 714.4, as applicable.

**4.3.2 Using the Envelope 2000<sup>®</sup> RS fastening system:** Where exterior walls are required to be noncombustible construction, the walls with the Envelope 2000<sup>®</sup> RS wall panels must be constructed as follows:

- 1. Wall framing must be minimum 18 gauge galvanized steel studs complying with ASTM C645, 3<sup>5/</sup><sub>8</sub>-inchdeep (92.1 mm) by 1<sup>3</sup>/<sub>8</sub>-inch (34.9 mm), spaced a maximum of 16 inches (406 mm) on center.
- 2. The interior side of the wall must be covered with one layer of minimum <sup>5</sup>/<sub>8</sub>-inch-thick (15.9 mm), gypsum wallboard, installed with the long dimension perpendicular to the studs. The wallboard must be fastened to the studs using No. 6 x 1<sup>1</sup>/<sub>4</sub>-inch-long Type S bugle head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field. The interior wallboard joints must be taped and treated with paper tape and joint compound. The screw heads must be treated with joint compound.
- 3. FSK-25 R-11 foil-faced fiberglass insulation must be installed in the stud cavity with the foil facer on the interior side.
- 4. Mineral wool insulation with a nominal density of 4 pounds per cubic foot (65 kg/m3) must be installed as a safing material at the floor lines.

- 5. The exterior side of the wall must be covered with one layer of minimum <sup>1</sup>/<sub>2</sub>-inch-thick (12.7 mm), glass mat gypsum substrate sheathing complying with ASTM C1177. The glass mat gypsum sheathing must be installed using 1<sup>1</sup>/<sub>4</sub>-inch-long (31.8 mm) SD pan-head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field.
- 6. Dupont<sup>™</sup> Tyvek<sup>®</sup> Homewrap<sup>®</sup> must be installed on the exterior side of the glass mat gypsum sheathing and fastened to the sheathing using staples.

The Envelope 2000<sup>®</sup> RS panels must be installed on the exterior side of the wall in accordance with Section 4.2 above. The extrusions must be fastened to the steel wall framing using No.12 Tek screws with minimum 3 developed threads through the framing. All joints in the RS panel system must be sealed with IPC Flamesafe FS 900 caulk. The floor level cavity at the intersection of the floor slab and the exterior wall framing system must be completely filled with an approved material or system meeting the criteria specified in 2018, 2015 and 2012 IBC Section 715.4 or 2009 IBC Section 714.4, as applicable.

**4.3.3 Using the Envelope 2000<sup>®</sup> RV fastening system:** Where exterior walls are required to be noncombustible construction, the walls with the Envelope 2000<sup>®</sup> RV wall panels must be constructed as follows:

- 1. Wall framing must be minimum 20 gauge galvanized steel studs complying with ASTM C645, 3<sup>5</sup>/<sub>8</sub>-inchdeep (92.1 mm) by 1<sup>3</sup>/<sub>8</sub>-inch (34.9 mm), spaced a maximum of 24 inches (610 mm) on center.
- 2. The interior side of the wall must be covered with one layer of minimum <sup>5</sup>/<sub>8</sub>-inch-thick (15.9 mm), Type X gypsum wallboard, installed with the long dimension perpendicular to the studs. The wallboard must be fastened to the studs using No. 6 x 1<sup>1</sup>/<sub>4</sub>-inch-long Type S bugle head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field. The interior wallboard joints must be taped and treated with paper tape and joint compound.
- 3. Mineral wool insulation with a nominal density of 4 pounds per cubic foot (65 kg/m3) must be installed as a safing material in the stud cavity at the floor lines.
- 4. The exterior side of the wall must be covered with one layer of minimum <sup>5</sup>/<sub>8</sub>-inch-thick (15.9 mm), DensGlass® Gold Exterior Sheathing. The exterior sheathing must be installed using No. 6 x 1<sup>1</sup>/<sub>4</sub>-inch-long Type S bugle head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field.
- 5. Panel support system consisting of vertical and horizontal aluminum moldings, secured through the exterior sheathing using No. 14 x 2-inch-long TEK screws to the studs at the joints of exterior panels as the panels are installed.

The Envelope 2000<sup>®</sup> RV panels must be installed on the exterior side of the wall in accordance with Section 4.2 above. The extrusions must be fastened to the steel wall framing using No.12 Tek screws with minimum 3 developed threads through the framing. All joints in the RV panel system must be sealed with Tremco Spectrem 2 sealant. The floor level cavity at the intersection of the floor slab and the exterior wall framing system must be completely filled with an approved material or system meeting the criteria specified in 2018, 2015 and 2012 IBC Section 715.4 or 2009 IBC Section 714.4, as applicable.

**4.3.4** Using the Envelope 2000<sup>®</sup> D-RV fastening system: Where exterior walls less than 40 feet (12.2 m) above grade are required to be noncombustible construction, the walls with the Envelope 2000<sup>®</sup> D-RV wall panels must be constructed as follows:

- 1. Wall framing must be minimum 20 gauge galvanized steel studs complying with ASTM C645, 3<sup>5</sup>/<sub>8</sub>-inchdeep (92.1 mm) by 1<sup>3</sup>/<sub>8</sub>-inch (34.9 mm), spaced a maximum of 24 inches (610 mm) on center.
- 2. The interior side of the wall must be covered with one layer of minimum <sup>5</sup>/<sub>8</sub>-inch-thick (15.9 mm), Type X gypsum wallboard, installed with the long dimension perpendicular to the studs. The wallboard must be fastened to the studs using No. 6 x 1<sup>1</sup>/<sub>4</sub>-inch-long Type S bugle head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field. The interior wallboard joints must be taped and treated with paper tape and joint compound.
- 3. Mineral wool insulation with a nominal density of 4 pounds per cubic foot (65 kg/m3) must be installed as a safing material in the stud cavity at the floor lines.
- 4. The exterior side of the wall must be covered with one layer of minimum <sup>5</sup>/<sub>8</sub>-inch-thick (15.9 mm), DensGlass® Gold Exterior Sheathing. The exterior sheathing must be installed using No. 6 x 1<sup>1</sup>/<sub>4</sub>-inch-long Type S bugle head screws at 8 inches (203 mm) on center at the edges and 12 inches (305 mm) on center in the field.

5. Panel support system consisting of vertical and horizontal aluminum moldings, secured through the exterior sheathing using No. 14 x 2-inch-long TEK screws to the studs at the joints of exterior panels as the panels are installed.

The Envelope 2000<sup>®</sup> D-RV panels must be installed on the exterior side of the wall in accordance with Section 4.2 above. The extrusions must be fastened to the steel wall framing using No. 12 Tek screws with minimum 3 developed threads through the framing. All joints in the RV panel system must be sealed with Tremco Spectrem 2 sealant. The floor level cavity at the intersection of the floor slab and the exterior wall framing system must be completely filled with an approved material or system meeting the criteria specified in 2018, 2015 and 2012 IBC Section 715.4 or 2009 IBC Section 714.4, as applicable.

### 4.4 Interior Wall Covering:

The Envelope 2000<sup>®</sup> panels may be used as an interior wall finish in compliance with IBC Chapter 8. The panels must be installed on the interior side of the wall in accordance with Section 4.2 above. The panels have a Class A interior finish classification.

### 4.5 Fire-resistance Rated Wall Assemblies:

The Envelope 2000<sup>®</sup> wall panels used in fire-resistance-rated walls must be in accordance with the following:

**4.5.1** Two-hour Fire-resistance Rated, Nonload-bearing Wall Assembly: Envelope 2000<sup>®</sup> RR, RV, D-RV or RS system wall panels may be installed in accordance with the manufacturer's published installation instructions and this report, on the exposed or unexposed side of 2-hour fire-resistance-rated wall assemblies, without reducing the fire rating of the assemblies.

**4.5.2 One-hour Fire-resistance Rated Nonload-bearing Wall Assembly:** The Envelope 2000<sup>®</sup> RR, RV, D-RV or RS system wall panels may be installed in accordance with the manufacturer's published installation instructions and this report, on the exposed or unexposed side of 1-hour fire-resistance-rated wall assemblies, without reducing the fire rating of the assemblies.

# **5.0 CONDITIONS OF USE:**

The Envelope 2000<sup>®</sup> Exterior and Interior Wall Panels comply with those codes specifically 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, the applicable code and approved plans. If there are any conflicts between this report and the manufacturer's installation instructions, this report governs. The design of the structural support system (building framing, attachment accessories, and silicone adhesive) and panel connections provided by the MCM systems fabricator must be submitted to and approved by the code official for each project.
- **5.2** The allowable transverse load capacity for the MCM panels and their interlock with their attachment accessories must be submitted to and approved by the code official for each project. The allowable transverse load capacity shown in Section 4.1 must equal or exceed the design wind loads for the building determined in accordance with Chapter 16 of the IBC.
- **5.3** Where Envelope 2000® wall panels are installed on exterior walls on buildings of Types I, II, III, and IV construction, the walls must be constructed in accordance with Section 4.3 of this report.
- 5.4 The MCM system fabricator must provide a certificate of compliance to the code official attesting that the MCM system fabrication includes the use of adhesives approved for use, that the adhesive application complies with the adhesive manufacturer's installation guidelines, and that the MCM system fabrication complies with approved construction documents. Additionally, use of adhesives other than for the installation of stiffeners and hat channels to the backs of the panels for the purpose of increasing panel stiffness, require special inspections in accordance with 2018, 2015 and 2012 IBC Section 1704.2.5 [2009 IBC Section 1704.2], or the fabricator must be approved by the code official in accordance with 2018 and 2015

Section 1704.2.5.1 [2012 IBC Section 1704.2.5.2; 2009 IBC Section 1704.2.2].

- **5.5** Where a fire-resistance-rated exterior wall is required, walls must be constructed in accordance with Section 4.5 of this report. Additionally, Envelope 2000® wall panels are permitted on the outer face of a fire-resistance-rated exterior wall assembly provided the panel assembly attachments do not penetrate through the entire exterior fire-resistance rated wall assembly.
- **5.6** A water-resistive barrier must be installed in accordance with the applicable code. Evidence of weather tightness of the wall cladding system in accordance with 2018 IBC Section 1406.6 (2015, 2012, and 2009 IBC Section 1407.6) must be submitted to the building code official.
- **5.7** The preassembly of the panels shall be at the shop of an approved fabricator.

**5.8** The panels are manufactured by Citadel Architectural Products, Inc. in Greenfield, Indiana, under a quality control program with inspections conducted by ICC-ES.

# **6.0 EVIDENCE SUBMITTED**

Data in accordance with the ICC-ES Acceptance Criteria for Metal Composite Material (AC25), dated October 2010 (editorially revised May 2018), including ASTM E331 and NFPA 285.

# 7.0 IDENTIFICATION

- **7.1** The panels are identified by a label or stamp noting the company name (Citadel Architectural Products, Inc.) and address, product name, thickness, flame-spread index, and the evaluation report number (ESR-1015).
- **7.2** The report holder's contact information is the following:

CITADEL ARCHITECTURAL PRODUCTS, INC. 6198 WEST AIRPORT BOULEVARD GREENFIELD, INDIANA 46140 (317) 894-9400 www.citadelap.com info@citadelap.com

AP PANEL SYSTEM	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)
Route and Return (RR)	29	29
Rain Screen (RS)	29	29
Reveal (RV)	15	45
Deep Reveal (D-RV)	30	23

#### TABLE 1—ALLOWABLE<sup>1</sup> WIND LOAD DESIGN VALUES

SI: 1 psf = 47.88 Pa

<sup>1</sup>Allowable wind load values in <u>Table 1</u> include a factor of safety of 2.

CC-ES<sup>®</sup> Most Widely Accepted and Trusted



FIGURE 1 -- ENVELOPE 2000 FASTENING SYSTEMS



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PF-204 REINFORCEMENT



STIFFENER TUBE

Height: Width:

Length:

1" (25mm)

2" (51mm)

12'-6" (3810mm)

# FIGURE 4—ENVELOPE 2000 REVEAL AND DEEP REVEAL MOUNTING EXTRUSIONS

ENVELOPE 2000 RV MOUNTING EXTRUSIONS

ENVELOPE 2000 REVEAL (RV) SYSTEM ISOMETRIC

EXTRUSIONS ENVELOPE 2000 D-RV MOUNTING EXTRUSIONS





FIGURE 3-ENVELOPE 2000 REVEAL TYPE FASTENING SYSTEMS





ENVELOPE 2000 DEEP REVEAL (D-RV) SYSTEM ISOMETRIC

NAILABLE SUBSTRATE (BY OTHERS)



# **ICC-ES Evaluation Report**

# **ESR-1015 CA Supplement**

Reissued April 2025 This report is subject to renewal April 2027.

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 42 43—Composite Wall Panels

#### **REPORT HOLDER:**

CITADEL ARCHITECTURAL PRODUCTS, INC.

#### **EVALUATION SUBJECT:**

#### **ENVELOPE 2000® WALL PANELS**

#### 1.0 REPORT PURPOSE AND SCOPE

#### Purpose:

The purpose of this evaluation report supplement is to indicate that Envelope 2000<sup>®</sup> Wall Panels, described in ICC-ES evaluation report ESR-1015, have also been evaluated for compliance with the code noted below.

#### Applicable code edition:

#### 2019 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.

#### 2.0 CONCLUSIONS

#### 2.1 CBC:

The Envelope 2000<sup>®</sup> Wall Panels, described in Sections 2.0 through 7.0 of the evaluation report ESR-1015, comply with CBC Chapters 7, 8 and 14, provided the design and installation are in accordance with the 2018 *International Building Code*<sup>®</sup> (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 16 and 17, as applicable.

#### 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.

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

