

ICC-ES Evaluation Report

ESR-5425

Issued June 2026

This report also contains:

- [City of LA Supplement](#)
- [CA Supplement](#)
- [FL Supplement](#)

This report remains under an active [continuous compliance program](#) through the end of June 2027

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DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION Section: 07 46 33 – Plastic Siding	REPORT HOLDER: SYLVANIX OUTDOOR PRODUCTS, INC.	EVALUATION SUBJECT: WALL CLADDING SYSTEMS	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Properties evaluated:

- Structural
- Durability
- Surface-burning characteristics
- Ignition resistance
- Use in Type I, II, III and IV(-HT) construction

2.0 USES

The cladding systems described in this report are intended for use as exterior wall cladding for all types of construction under the IBC and dwellings constructed in accordance with the IRC. Under the IRC, the adequacy of the wind load resistance of the cladding must be addressed in an engineered design in accordance with IRC Section R301.1.3.

3.0 DESCRIPTION

3.1 General:

The wall cladding systems addressed in this report are wood-plastic composite products. The cladding pieces consist of two materials which are co-extruded. The core material is primarily composed of wood powder and high-density polyethylene (HDPE), while the thin outer layer is composed of plastic without any wood fibers. The evaluation has considered all of the colors depicted in the manufacturer's quality documentation, which range from nearly white to dark brown and dark grey.

3.2 Soar Signature Cladding System:

The typical cladding cross section for the Soar Signature cladding system has three hollow longitudinal ribs, as shown in [Figure 1](#). The outer layer of the cladding is embossed and colored to resemble wood.

The clips used to secure the cladding panels to the supporting wall are formed from Type 301 stainless steel. See [Figure 2](#) for an image of the clip.

Fasteners supplied by the report holder include the following:

- Stainless steel screws with an outside thread diameter of 0.157 inch (4 mm), a countersunk head with a diameter of 0.248 inch (6.3 mm) and a length of 1³/₄ inches (45 mm) for fastening through the clip and cladding into the supporting stud or furring strip
- Stainless steel screws with an outside thread diameter of 0.197 inch (5 mm), a barrel head with a diameter of 0.346 inch (8.8 mm) and a length of 1⁷/₈ inches (48 mm) for fastening the clip directly to the supporting stud or furring strip
- Stainless steel, color matched screws with an outside thread diameter of 0.197 inch (5 mm), a countersunk head with a diameter of 0.346 inch (8.8 mm) and a length of 1⁷/₈ inches (48 mm) for fastening through trim.

3.3 Designer Collection Cladding System:

The Designer Collection cladding system consists of flat panels, depicted in [Figure 6](#). The outer layer of the cladding is embossed and colored to resemble wood.

The clips used to secure the cladding panels to the supporting wall are formed from Type 301 stainless steel. See [Figure 7](#) for an image of the clip.

Fasteners supplied by the report holder include the following:

- Stainless steel screws with an outside thread diameter of 0.157 inch (4 mm), a barrel head with a diameter of 0.248 inch (6.3 mm) and a length of 1³/₄ inches (45 mm) for fastening through the clip and cladding into the supporting stud or furring strip.
- Stainless steel screws with an outside thread diameter of 0.197 inch (5 mm), a barrel head with a diameter of 0.346 inch (8.8 mm) and a length of 2⁹/₁₆ inches (65 mm) for fastening the clip directly to the supporting stud or furring strip.
- Stainless steel, color matched screws with an outside thread diameter of 0.197 inch (5 mm), a countersunk head with a diameter of 0.346 inch (8.8 mm) and a length of 1⁷/₈ inches (48 mm) or 2¹/₂ inches (65 mm) for fastening through trim.

3.4 Niagara Collection Lap Siding System:

The Niagara Collection Lap Siding system is similar to the Designer Collection cladding system, using panels which have a slight slope. The outer layer of the cladding is embossed and colored to resemble wood. The clips and fasteners used to secure the cladding panels to the supporting wall are described in Section 3.3.

3.5 Elite Collection Deck Board Used as Cladding:

The Elite Collection Deck Boards are square edge deck boards addressed in ESR-3371. Also see [Figure 10](#). For use as cladding, the boards are installed using a minimum of two screws through the face of the board at each supporting framing member. The screws supplied by the report holder include the following:

- Stainless steel, color matched screws with an outside thread diameter of 0.197 inch (5 mm), a countersunk head with a diameter of 0.346 inch (8.8 mm) and a length of 1⁷/₈ inches (49 mm) for attachment to wood.
- Stainless steel, color matched screws with an outside thread diameter of 0.186 inch (4.7 mm), a countersunk head with a diameter of 0.354 inch (9 mm) and a length of 2¹/₄ inches (57 mm) for attachment to aluminum.

4.0 DESIGN AND INSTALLATION

4.1 Design:

4.1.1 Allowable Negative Wind Pressures: The cladding systems have been evaluated for allowable transverse wind load capacities, as described in [Table 1](#), for cladding systems installed in accordance with this report. These values account for the strength of the cladding material and the fastening to the furring. Fastening of furring to sheathing and fastening of sheathing to framing must be designed to resist that applied loads.

4.1.2 Durability: The panels have been evaluated for structural capacity when exposed to temperatures ranging from -20°F to 125°F (-29°C to 52°C). The panels have also been evaluated for structural capacity after weathering (UV exposure and freeze-thaw cycling).

4.1.3 Surface-burning Characteristics: When tested in accordance with ASTM E84, the panels exhibited a flame-spread index of no greater than 200, meeting the requirement of IBC Section 2612.3 and IRC Section R507.2.2.2.

4.1.4 Use on Exterior Walls of Type I, II, III and IV(-HT) Construction: The cladding systems described in this report have been evaluated for use on exterior walls of buildings of Types I, II, III and IV-HT construction (Types I, II, III and IV construction under the 2021, 2018 and 2015 IBC). The cladding systems may be used on the exterior side of exterior walls of 40 feet (12.2 m) or less when the exterior wall is sheathed with a code compliant sheathing or solid substrate that is permitted for use in the applicable construction type. A fire separation distance of 5 feet (1.5 m) has been qualified based on successful testing in accordance with NFPA 268. The installation of the siding must comply with the applicable requirements in IBC Section 1405.1 (2015 IBC Section 1406.2).

4.2 Installation:

Installation of the cladding systems must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation. When the manufacturer's published installation instructions differ from this report, this report governs.

The supporting wall must be sheathed with OSB or plywood sheathing having a minimum thickness of $\frac{5}{8}$ inch (15.9 mm). The cladding must be installed over a water-resistive barrier complying with 2024 IBC Section 1403.2 (2015 IBC 1404.2) 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 siding. Furring, corner trim and J-trim base pieces must be installed in accordance with the published instructions.

Installation must allow for thermal expansion of the cladding material as indicated in the report holder's published instructions. For instance, fastening through the panels must occur at only limited locations. At all other clip locations, only one fastener is used, which is installed through the clip directly into the supporting furring or framing.

The Soar Signature Cladding System can be installed horizontally as depicted in [Figure 3](#) or vertically as depicted in [Figure 4](#). The Designer Collection Cladding System is installed horizontally as depicted in [Figure 8](#). The Niagara Collection Lap Siding System is installed horizontally similar to what is depicted in [Figure 8](#). See [Figures 5](#) and [9](#) for typical fastening through clips. Elite Collection Deck Boards used as cladding may be installed horizontally or vertically, as shown in [Figures 10](#) and [11](#), respectively.

5.0 CONDITIONS OF USE:

The cladding systems described in this report comply with, or are 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 cladding products must be manufactured and identified in accordance with this report.
- 5.2** The cladding systems must be backed by a code compliant substrate capable of withstanding the positive and negative design wind loads. The substrate design and design of the fastening of furring to the substrate must be performed by a registered design professional and is outside the scope of this report.
- 5.3** The cladding system must be installed over a water-resistive barrier complying with IBC Section 1404.2 (2015 IBC Section 1403.2). When used in Construction Types I, II, III or IV(-HT), the water-resistive barrier must have a flame spread rating of 25 or less and a smoke developed index of 450 or less in accordance with ASTM E84 or UL723.
- 5.4** The clearance between the cladding panels and earth on the exterior of a building must not be less than 6 inches (152 mm) and the clearance between the cladding panels and concrete steps, porch slabs, patio slabs and similar horizontal surfaces exposed to the weather must not be less than 2 inches (51 mm), in accordance with IBC Section 2304.12.1.5.
- 5.5** Compatibility of the supporting construction materials with all fasteners and other hardware components is subject to approval by the code official.
- 5.6** Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the cladding systems; other attachment methods are outside the scope of this report.
- 5.7** The cladding systems are produced under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Wood-Plastic Composite Products Used as Exterior Siding \(AC524\)](#), dated June 2021 (editorially revised April 2024).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5425) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, packages of cladding panels and accessories are identified with the product name (Soar Signature, Design Collection, Niagara Collection or Elite Collection), the item code and the panel color.
- 7.3 The report holder’s contact information is the following:

SYLVANIX OUTDOOR PRODUCTS, INC.
195 US-9, SUITE 205
MANALAPAN TOWNSHIP, NEW JERSEY 07726
(206) 501-4083
www.sylvanix.com

TABLE 1—ALLOWABLE NEGATIVE WIND PRESSURE

CLADDING SYSTEM	PANEL ORIENTATION	FURRING MATERIAL	FURRING SPACING (inches)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)
Soar Signature	Horizontal or Vertical	Aluminum	16	43
Designer Collection	Horizontal	Aluminum	16	43
Niagara Collection	Horizontal	Aluminum	16	43
Elite Collection	Horizontal or vertical	Aluminum or wood	24	54



FIGURE 1—SOAR SIGNATURE CLADDING

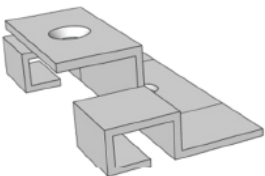


FIGURE 2—SOAR SIGNATURE CLADDING CLIP

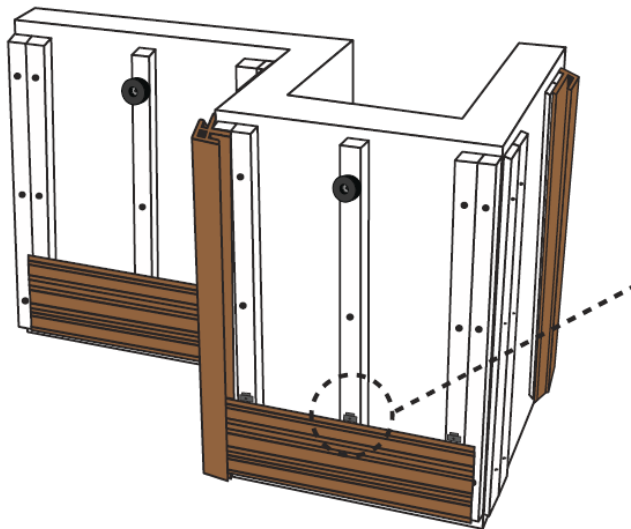


FIGURE 3—SOAR SIGNATURE CLADDING HORIZONTAL INSTALLATION

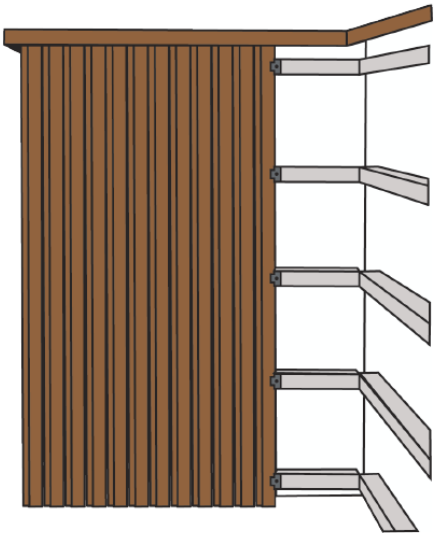


FIGURE 4—SOAR SIGNATURE CLADDING VERTICAL INSTALLATION

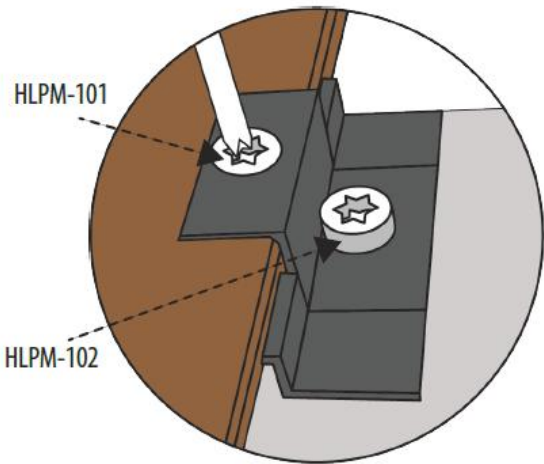


FIGURE 5—SOAR SIGNATURE CLADDING CLIP FASTENING



FIGURE 6—DESIGNER COLLECTION CLADDING (Niagara Collection similar)

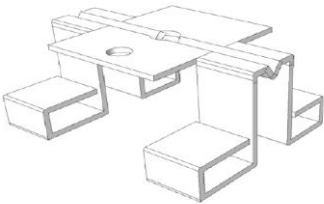


FIGURE 7—DESIGNER COLLECTION CLADDING CLIP

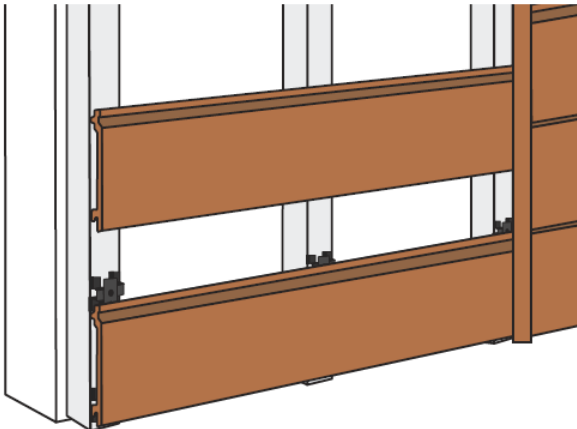


FIGURE 8—DESIGNER COLLECTION CLADDING HORIZONTAL INSTALLATION

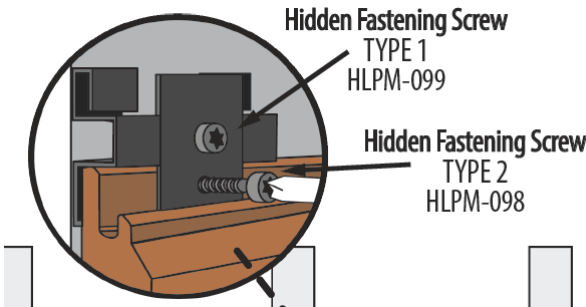


FIGURE 9—DESIGNER COLLECTION CLADDING CLIP FASTENING

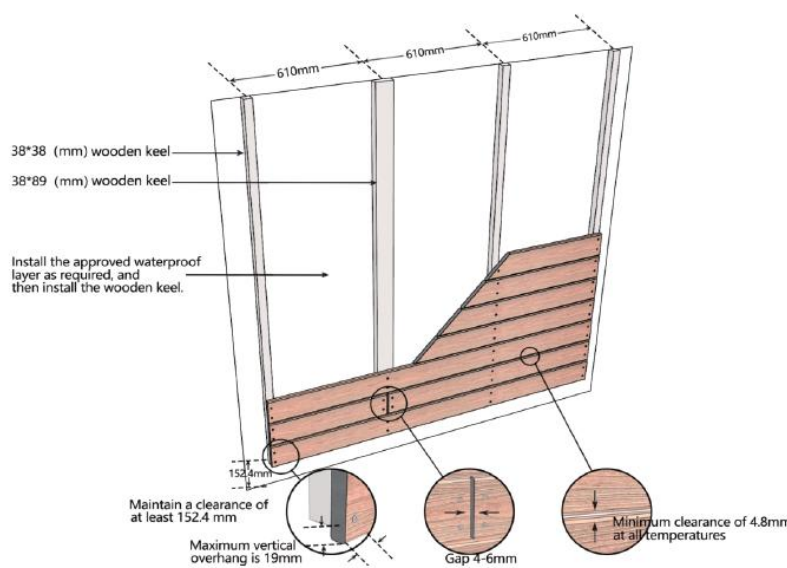


FIGURE 10—TYPICAL HORIZONTAL INSTALLATION OF ELITE DECK BOARDS USED AS CLADDING

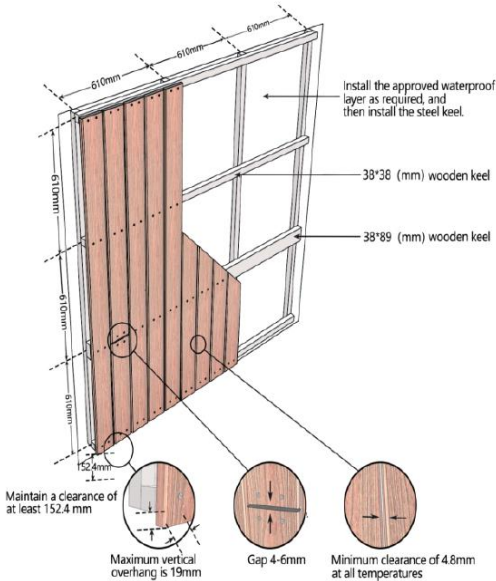


FIGURE 11—TYPICAL VERTICAL INSTALLATION OF ELITE DECK BOARDS USED AS CLADDING

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 33—Plastic Siding

REPORT HOLDER:

SYLVANIX OUTDOOR PRODUCTS, INC.

EVALUATION SUBJECT:

WALL CLADDING SYSTEMS

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that the wall cladding systems, described in ICC-ES evaluation report [ESR-5425](#), 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:

- 2026* *City of Los Angeles Building Code* ([LABC](#))
- 2026* *City of Los Angeles Residential Code* ([LARC](#))

*For evaluation for compliance with the anticipated requirements of the 2026 LABC and LARC

2.0 CONCLUSIONS

The wall cladding systems, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5425](#), comply with the LABC Chapters 14 and 26, and the LARC, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The wall cladding systems described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5425](#).
- The design, installation, conditions of use and identification of the wall cladding systems are in accordance with the 2024 *International Building Code*® (IBC) and 2024 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-5425](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.

This supplement expires concurrently with the evaluation report, issued June 2026.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 33—Plastic Siding

REPORT HOLDER:

SYLVANIX OUTDOOR PRODUCTS, INC.

EVALUATION SUBJECT:

WALL CLADDING SYSTEMS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the wall cladding systems, described in ICC-ES evaluation report [ESR-5425](#), have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2025 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.

- 2025 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The wall cladding systems, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5425](#), comply with CBC Chapters 14 and 26, provided the design and installation are in accordance with the 2024 *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 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 wall cladding systems, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5425](#), comply with CRC Chapter 7, provided the design and installation are in accordance with the 2024 *International Residential Code*® (IRC) provisions noted in the evaluation report.

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 June 2026.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 33—Plastic Siding

REPORT HOLDER:

SYLVANIX OUTDOOR PRODUCTS, INC.

EVALUATION SUBJECT:

WALL CLADDING SYSTEMS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the wall cladding systems, addressed in ICC-ES evaluation report [ESR-5425](#), have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2026 Florida Building Code—Building
- 2026 Florida Building Code—Residential

*For evaluation for compliance with the anticipated requirements of the 2026 Florida Building Code—Building and Florida Building Code—Residential.

2.0 CONCLUSIONS

The wall cladding systems, described in Sections 2.0 through 7.0 of ICC-ES evaluation report [ESR-5425](#), 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-5425](#) for the 2024 International Building Code® meet the requirements of the Florida Building Code—Building or the Florida Building Code—Residential, as applicable. Use of the wall cladding systems has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building or the Florida Building Code—Residential.

In addition to the data noted in Section 6.0 of the evaluation report [ESR-5425](#), the following data was submitted to address the requirements for use in a High-Velocity Hurricane Zone:

- Reports of assembly testing in accordance with TAS 201, 202 and 203
- Reports of impact testing and tensile strength testing of the cladding material after UV aging for a minimum of 4500 hours.

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). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the Florida Building Code.

This supplement expires concurrently with the evaluation report, issued June 2026.