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CEDAR RENDITIONS™ ALUMINUM SIDING AND SOFFIT

CSI Sections:
07 40 00 Roofing and Siding Panels
07 46 16 Aluminum Siding

1.0 RECOGNITION

Westlake Royal Building Products (USA), Inc. Cedar Renditions Aluminum Siding and Soffit recognized in this report has been evaluated for use as an exterior covering. The wind load resistance, durability, physical characteristics, non-combustibility, and surface burning properties of the Cedar Renditions Aluminum Siding and Soffit comply with the intent of the provisions of the following codes and regulations:

- 2021, 2018, and 2015 International Building Code® (IBC)
- 2021, 2018, and 2015 International Residential Code® (IRC)
- 2023 and 2020 Florida Building Code, Building (FBC, Building)– attached Supplement
- 2023 and 2020 Florida Building Code, Residential (FBC, Residential) – attached Supplement

2.0 LIMITATIONS

Use of the Cedar Renditions Aluminum Siding and Soffit recognized in this report is subject to the following limitations:

2.1 Cedar Renditions Aluminum Siding and Soffit shall be installed in accordance with the applicable code, the manufacturer’s published installation instructions, and this report. Where there is a conflict, the most restrictive requirements shall govern.

2.2 Cedar Renditions Aluminum Siding and Soffit shall not be installed in contact with cold-formed steel or other materials that may cause galvanic corrosion.

2.3 Cedar Renditions Aluminum Siding and Soffit has not been evaluated for use as a component of fire-resistance-rated assemblies.

2.4 The Cedar Renditions Aluminum Siding and Soffit recognized in this report is produced by Westlake Royal Building Products (USA), Inc., in Concord, Ontario, Canada.

3.0 PRODUCT USE

3.1 General: Cedar Renditions Aluminum Siding and Soffit is used as an exterior wall covering in accordance with Section 1403.5.1 of the IBC. Cedar Renditions Soffits are intended for use on eaves, overhangs, and exterior ceiling applications. Cedar Renditions may be used in Types I, II, III, and IV construction where the building elements are required to be noncombustible in accordance with Section 602 of the IBC.

3.2 Design: Cedar Renditions Aluminum Siding and Soffit comply with the durability requirements, minimum thickness requirements, and wind load resistances of AAMA 1402 as required by Section 1403.5.1 of the 2021 and 2018 IBC and Section 1505.2 of the 2015 IBC.

3.2.1 Non-combustibility: Cedar Renditions Aluminum Siding and Soffit comply with the requirements of Section 703.3.1 of the 2021 IBC and Section 703.5 of the 2018 and 2015 IBC when tested in accordance with ASTM E136.

3.2.2 Minimum Thickness of Weather Coverings: Cedar Renditions Aluminum Siding and Soffit comply with minimum thickness requirements for aluminum siding in Table 1404.2 of the 2021 IBC and Table 1505.2 of the 2018 and 2015 IBC for an approved weathering covering.

3.2.3 Wind-load Resistance: Cedar Renditions Aluminum Siding and Soffit, when installed in accordance with Section 3.3 of this report, comply with the AAMA 1402 requirements for effective negative and positive design pressures, which are in Table 1 of this report.

TABLE 1 – Cedar Renditions Effective Design Pressures

Profile	Item Number	Effective Design Pressure ^{1,2} (psf)	
		Positive	Negative
Cedar Renditions 6-inch Aluminum Siding and Soffit	13065	227	120
Cedar Renditions Aluminum 7.5-inch Board and Batten	13086	107	107
Cedar Renditions 8-inch Aluminum Soffit(v-groove)	1310 (solid) 1313 (vented)	162	142

S.I. Units: 1 inch = 25.4 mm, 1 psf = 47.9 Pa

¹ The effective design pressures are determined in accordance with AAMA 1402.

² The values in Table 1 are based on installation into Southern Yellow Pine (SYP) framing with a minimum SG of 0.55 and the installation requirements of Section 3.3 of this report. The design of the framing in which the siding is attached is outside the scope of this report.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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3.2.4 Surface Burning Characteristics: Cedar Renditions Aluminum Siding and Soffit yields a flame spread index of 25 or less and smoke-developed index of 450 or less when tested in accordance with ASTM E84.

3.3 Installation:

3.3.1 Installation General: Siding and soffit are installed with several accessories, including starter strips, trim, and outside/inside corner posts. Caulking, if used, shall be compatible with coated aluminum and shall comply with the manufacturer's installation instructions. A water-resistive barrier shall be installed underneath the siding as required by the applicable code. The 6-inch Siding shall be installed with aluminum roofing nails with a minimum $\frac{5}{16}$ -inch (8 mm) head diameter and a $\frac{1}{8}$ -inch (3 mm) shank diameter. The $7\frac{1}{2}$ and 8-inch Siding shall be installed with aluminum roofing nails with a minimum $\frac{3}{8}$ -inch (8 mm) head diameter and a $\frac{1}{8}$ -inch (3 mm) shank diameter.

3.3.2 Siding Installation: Siding shall be installed over code-approved sheathing and be installed so that all fasteners penetrate through the sheathing and into the wall framing a minimum of $\frac{3}{4}$ -inch (19 mm). Siding fasteners shall be spaced at a maximum of 16-inch (406 mm) on-center. Siding may also be fastened to wood structural panel sheathing using a 0.120-inch ring shank roofing nail spaced at a maximum of 12-inches on-center in accordance with Section R703.3.3 of the IRC, as applicable.

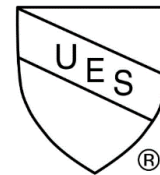
3.3.3 Soffit Installation: Soffit shall be attached directly to framing or furring spaced a maximum of 16-inches (406 mm) on-center, or over sheathing attached to framing. Soffit may be installed in a single span condition for overhangs up to 16-inch width or multi-pan conditions for overhangs over 16 inches and exterior ceilings such as porches. Fasteners shall be a minimum of $1\frac{1}{2}$ -inches (38 mm) long.

4.0 PRODUCT DESCRIPTION

Cedar Renditions Aluminum Siding and Soffit are manufactured from 3105 aluminum by roll forming. Siding and Soffit are manufactured in a maximum length of 12 feet (3.66 m). The 6-inch panel siding and soffit and the $7\frac{1}{2}$ -inch board and batten siding has a thickness of 0.027-inch (0.7 mm), and the 8-inch soffit has a thickness of 0.021-inch (0.5 mm). The 6-inch panel siding and soffit has an interlocking profile with an exposure width of 6 inches (152 mm) as shown in Figure 1 of this report. The 8-inch soffit has an exposed width of 8 inches (203 mm) as shown in Figure 2 of this report. The $7\frac{1}{2}$ -inch (191 mm) board and batten has an exposed width of $7\frac{1}{2}$ -inches (191 mm). The board and batten siding is detailed in Figure 3 of this report.

5.0 IDENTIFICATION

Cedar Renditions Aluminum Siding and Soffit is identified by the Westlake Royal Building Products (USA), Inc, name and trademark, product name, and evaluation report number (ER-794). The IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



IAPMO UES ER-794

6.0 SUBSTANTIATING DATA

6.1 Test reports are from laboratories in compliance with ISO/IEC 17025.

6.2 Test reports of durability, wind load resistance, and physical properties testing in accordance with the Standard Specifications for Aluminum Siding, Soffit and Fascia, AAMA 1402.

6.3 Test reports of surface burning characteristics in accordance with ASTM E84.

6.4 Test reports assessing combustibility of materials in accordance with ASTM E136.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Westlake Royal Building Products (USA), Inc., Cedar Renditions Aluminum Siding and Soffit to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.4 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

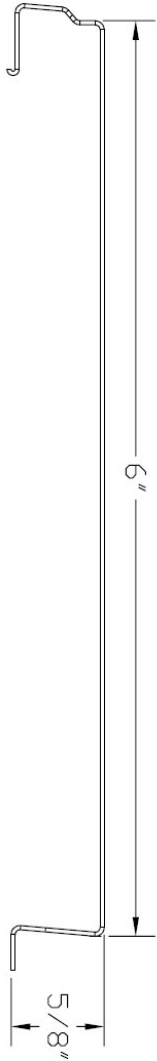


FIGURE 1 - 6-inch Siding and Soffit

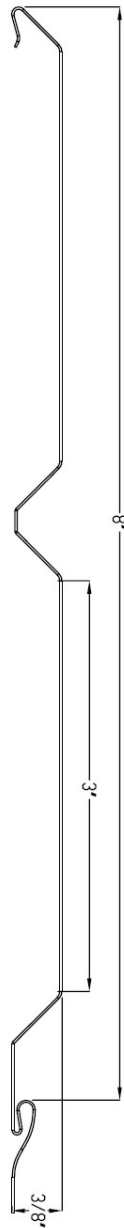


FIGURE 2 - 8-inch Soffit

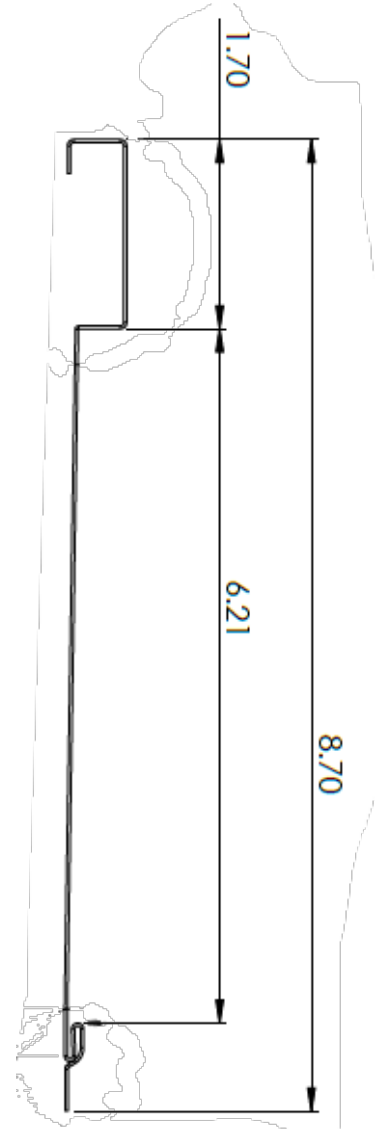


FIGURE 3 - 7 1/2-inch Siding



FLORIDA SUPPLEMENT

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1.0 RECOGNITION

Westlake Royal Building Products (USA), Inc, Cedar Renditions Aluminum Siding and Soffit in IAPMO UES Evaluation Report ER-794 is a satisfactory alternative to the cladding systems prescribed in the following codes:

- 2023 and 2020 Florida Building Code, Building (FBC, Building)
- 2023 and 2020 Florida Building Code, Residential (FBC, Residential)

2.0 LIMITATIONS

Use of the Westlake Royal Building Products (USA), Inc Cedar Renditions Aluminum Siding and Soffit recognized in this report supplement is subject to the following limitations:

2.1 Installation shall be in accordance with ER-794, the manufacturer's published installation instructions, and Section 1405 of the FBC, Building, or Section R703 of the FBC, Residential, as applicable. Flashing shall comply with Section 1405.4 of the FBC, Building.

2.2 Use of the Westlake Royal Building Products (USA), Inc. Cedar Renditions Aluminum Siding and Soffit where the high-velocity hurricane zone (HVHZ) provisions of the FBC, Building, and FBC, Residential, are applicable, is outside the scope of this evaluation report.

2.3 For products falling under Florida Rule 61G20-3.008, verification is required that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission (or the building official when the report holder does not possess an approval by the Commission), to provide oversight and determine that the products are being manufactured as described in this evaluation report to establish continual product performance.

2.4 This supplement expires concurrently with ER-794.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org