



- Compliance with International Codes
- Compliance with State Codes

ICC-ES Evaluation Report ESR-2836

Reissued August 2022

This report is subject to renewal August 2023.

DIVISION: 04 00 00—MASONRY
Section: 04 73 00—Manufactured Stone Masonry

REPORT HOLDER:

SUNSET STONE, INC.

EVALUATION SUBJECT:

SUNSET MANUFACTURED PRECAST STONE VENEER

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)

Properties evaluated:

Properties addressed in ASTM C1670

1.2 Evaluation to the following green code(s) and/or standards:

- 2019 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

See Section 3.0

2.0 USES

Sunset Manufactured Precast Stone Veneer is used as an adhered, nonload-bearing exterior veneer on exterior walls of wood stud or light-gage steel stud construction, concrete or masonry walls.

3.0 DESCRIPTION

The veneer is an adhered manufactured stone masonry veneer (AMSMV) complying with ASTM C1670, referenced in 2021 and 2018 IBC Section 2103.1 and 2021 and 2018 IRC Section R606.2.6. The AMSMV is made to resemble natural stone in color and texture. The veneer is composed of portland cement, aggregates, coloring pigments, admixtures, and water. The veneer units are molded and cured at the manufacturing facility.

The veneer units are of various thicknesses from 1 inch to 2 inches (25.4 to 50.8 mm). The maximum saturated weight of the installed veneer units is less than 15 pounds per square foot (73.2 kg/m²).

Evaluated veneer styles are as follows:

- Cobble Stone
- Field Stone
- Limestone
- Castle Stone
- Moss Rock
- River Rock
- Ledge Stone
- Stacked Stone
- Regal Stone
- Western Ledge
- Dry Stack Ledge

The attributes of the stone veneer have been verified as conforming to the provisions of (i) CALGreen Section A4.405.1.3 for prefinished building materials and Section A5.406.1.2 for reduced maintenance; (ii) ICC 700-2020, ICC 700-2015 and ICC 700-2012 Sections 602.1.6 and 11.602.1.6 for termite-resistant materials; (iii) ICC 700-2020 Sections 601.7 and 11.601.7 and ICC 700-2015 and ICC 700-2012 Sections 601.7, 11.601.7, and 12.1(A).601.7 for site-applied finishing materials; and (iv) ICC 700-2008 Section 602.8 for termite-resistant materials and 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. These codes or standards often provide supplemental information as guidance.

4.0 DESIGN AND INSTALLATION

4.1 General:

Installation of the veneer units must comply with this report, the manufacturer's published installation instructions, and the applicable code. The manufacturer's published installation instructions must be available at the jobsite at all times during installation. In accordance with the code, the veneer can be applied over a lath and mortar scratch coat or applied directly to concrete or masonry.

Under the 2012 and 2009 IBC and IRC, which do not address installation requirements, the provisions of the 2015 or later IBC and IRC should be followed.

4.2 Installation Over a Lath and Mortar Scratch Coat Over Framed Walls:

The scratch coat must be installed over a water-resistive barrier complying with IBC Section 1404.10.1.1 (2015 IBC Section 1405.10.1.1) or IRC Section R703.12.3, as applicable. Also, flashing must be installed as required by IBC Section 1404.10.1.2 (2015 IBC Section 1405.10.1.2) or IRC Sections R703.4 and R703.12.2, as applicable, including a foundation weep screed installed at the bottom of the stone veneer. The foundation weep screed must comply with, and be installed in accordance with, the requirements for flashing at foundation shown in IBC Section 1404.10.1.2.1 (2015 IBC 1405.10.1.2.1) or IRC Section R703.12.2, as applicable. The veneer must be installed with the clearances required by IBC Section 1404.10.1.3 (2015 IBC Section 1405.10.1.3) or IRC Section R703.12.1, as applicable.

Lathing must comply with IBC Section 2510 [referenced from IBC Section 1404.10.1.4.1 (2015 IBC 1405.10.1.4.1)] or IRC Section R703.7.1 (referenced from IRC Section R703.12). The scratch coat must be applied in accordance with IBC Section 1404.10.1.4.2 (2015 IBC Section 1405.10.1.4.2) and the veneer units must be adhered to the scratch coat in accordance with IBC Section 1404.10.1.4.3 (2015 IBC Section 1405.10.1.4.3). The mortar used to adhere the veneer units to the scratch coat must comply with IBC Section 2103.2.4 or IRC Section R606.2.11 (2015 IRC Section R606.2.10).

4.3 Installation over Concrete and Masonry:

Installation over concrete and masonry must comply with IBC Section 1404.10.1.5 (2015 IBC Section 1405.10.1.5). When adhering the veneer units directly to the concrete or masonry, the supporting surfaces must be prepared in accordance with IBC Section 2510.7; and the veneer units must be adhered to the supporting surface as described in Section 4.2. When adhering the veneer units to a lath and mortar scratch coat, the lathing and scratch coat preparation must comply with Section 4.2 of this report.

5.0 CONDITIONS OF USE

The Sunset Manufactured Precast Stone Veneer 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 Expansion or control joints, used to limit the effect of differential movement of AMSMV supports on the veneer system, are to be specified by the architect, designer or veneer manufacturer, in that order. Consideration must also be given to movement caused by temperature change, shrinkage, creep and deflection.

5.3 In jurisdictions adopting the IBC, the supporting wall must be designed to support the installed weight of the veneer system, including veneer, setting bed and scratch coat, as applicable. Horizontal framing members, such as lintels and headers, which support AMSMV must be designed to limit deflection to $1/600$ of the span.

5.4 In jurisdictions adopting the IRC, where the seismic provisions of IRC Section R301.2.2 apply, the average weight of the wall supporting the AMSMV, including the weight of the veneer system, must be determined. When this weight exceeds the applicable limits of IRC Section R301.2.2.2.1, an engineered design of the wall construction must be performed in accordance with IRC Section R301.1.3.

5.5 The AMSMV units are manufactured under a quality control system with inspection by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Adhered Manufactured Stone Masonry Veneer (AC51), dated June 2018 (editorially revised January 2021).

7.0 IDENTIFICATION

7.1 Boxes of the precast stone veneer units are identified with the manufacturer's name (Sunset Stone, Inc.), product name, style name, and the evaluation report number (ESR-2836).

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

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702 PRAIRIE HAWK DRIVE
CASTLE ROCK, COLORADO 80109
(303) 791-1233
www.sunsetstone.net

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Section: 04 73 00—Manufactured Stone Masonry

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Sunset Manufactured Precast Stone Veneer, described in ICC-ES evaluation report ESR-2836, has also been evaluated for compliance with the code(s) noted below.

Applicable code edition(s):

- 2022 and 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.

- 2022 and 2019 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Sunset Manufactured Precast Stone Veneer, described in Sections 2.0 through 7.0 of the evaluation report ESR-2836, complies with CBC Chapter 14, provided the design and installation are in accordance with the 2021 and 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 14 and 21, 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.

2.2 CRC:

The Sunset Manufactured Precast Stone Veneer, described in Sections 2.0 through 7.0 of the evaluation report ESR-2836, complies with CRC Chapter 7, provided the design and installation are in accordance with the 2021 and 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 3, 6 and 7, as applicable.

This supplement expires concurrently with the evaluation report, reissued August 2022.