



ICC-ES Evaluation Report

ESR-3151

Reissued October 2021

This report is subject to renewal October 2022.

DIVISION: 04 00 00—MASONRY
Section: 04 71 00—Manufactured Brick Masonry
Section: 04 73 00—Manufactured Stone Masonry

REPORT HOLDER:

QUALITY STONE VENEER, INC.

EVALUATION SUBJECT:

QUALITY STONE VENEER MANUFACTURED STONE VENEER

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2015 *International Building Code*® (IBC)
- 2015 *International Residential Code*® (IRC)
- Other codes (see Section 8.0)

Property evaluated:

Veneer strength and durability

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

Quality Stone Veneer is used as an adhered, non-load-bearing exterior veneer on wood framed or light gage steel stud walls, concrete walls or masonry walls.

3.0 DESCRIPTION

Quality Stone Veneer is a precast concrete product made to resemble natural stone or brick in color and in texture. The concrete is manufactured from a mixture of portland cement, aggregate, pigments, admixtures and water. The stone veneer units are molded and cured at the

manufacturing plant. The average saturated weight of the installed veneer units does not exceed 15 pounds per square foot (73.2 kg/m²). Recognized styles of veneer are listed in Table 1.

The attributes of the stone veneer have been verified as conforming to the requirements 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 Section 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 Quality Stone Veneer 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 installed over a lath and mortar scratch coat or applied directly to concrete and masonry.

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 1405.10.1.1 or IRC Section R703.12.3, as applicable. Also, flashing must be installed as required by 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 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 1405.10.1.3 or IRC Section R703.12.1, as applicable.

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Lathing must comply with IBC Section 2510 (referenced from IBC Section 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 1405.10.1.4.2, and the veneer units must be adhered to the scratch coat in accordance with 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.

4.3 Installation over Concrete and Masonry:

Installation over concrete and masonry must comply with 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.

5.0 CONDITIONS OF USE

The Quality 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 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. At wall openings, the supporting members must be designed to limit deflection to 1/600 of the span of the supporting members.

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 precast stone veneer, 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 precast stone veneer units are manufactured under a quality control system with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Precast Stone Veneer (AC51), dated January 2016.

7.0 IDENTIFICATION

7.1 Packaged precast stone veneer units are identified with the manufacturer’s name (Quality Stone Veneer, Inc.), the style name, the manufacturing date and location, and the evaluation report number (ESR-3151).

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

QUALITY STONE VENEER, INC.
50 REFTON ROAD
REFTON, PENNSYLVANIA 17568
(717) 786-3229
www.qualitystoneveneer.com

8.0 OTHER CODES

EVALUATION SCOPE:

In addition to the codes referenced in Section 1.0, the products described in this report were evaluated for compliance with the following codes:

- 2012 and 2009 *International Building Code*® (IBC)
- 2012 and 2009 *International Residential Code*® (IRC)

The Quality Stone Veneer products addressed in Sections 2.0 through 7.0 of this report comply with, or are suitable alternatives to what is specified in, the codes listed above, and must be installed in accordance with the 2015 IBC and IRC, as described in Section 4.0.

TABLE 1—RECOGNIZED STYLES

PRODUCT	STYLES
Quality Stone Veneer, Inc., Manufactured Stone Veneer	Ashlar, Brookstone, Chester, Cobblestone, Cobblestone Sandstone, Drystack, Fieldstone, Ohio Drystack, Preset Drystack, Preset LedgeStone, Regal Ashlar, Sandstone, Travertine

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REPORT HOLDER:

QUALITY STONE VENEER, INC.

EVALUATION SUBJECT:

QUALITY STONE VENEER MANUFACTURED STONE VENEER

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Quality Stone Veneer Manufactured Stone Veneer, described in ICC-ES evaluation report ESR-3151, has also been evaluated for compliance with the code(s) noted below.

Applicable code edition(s):

- 2016 *California Building Code*® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2016 *California Residential Code*® (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Quality Stone Veneer Manufactured Stone Veneer, described in Sections 2.0 through 7.0 of the evaluation report ESR-3151, complies with CBC applicable Chapters, provided the design and installation are in accordance with the *International Building Code*® (IBC) provisions noted in the evaluation report.

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 Quality Stone Veneer Manufactured Stone Veneer, described in Sections 2.0 through 7.0 of the evaluation report ESR-3151, complies with CRC applicable Chapters, provided the design and installation are in accordance with the *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued October 2021.

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1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Quality Stone Veneer, described in ICC-ES evaluation report ESR-3151, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 *Florida Building Code—Building*
- 2017 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Quality Stone Veneer, described in Sections 2.0 through 7.0 of the evaluation report ESR-3151, complies with the *Florida Building Code—Building* and *Florida Building Code—Residential*, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the evaluation report under the following conditions:

- The Quality Stone Veneer has a clearance to the final earth grade on the exterior of the building as required by Section 1403.8 of the *Florida Building Code—Building* or Section R318.7 of the *Florida Building Code—Residential*, as applicable.
- The design wind load does not exceed ± 63 psf (± 3016 Pa).
 - Sheathing to which the Quality Stone Veneer is attached must be no less than $\frac{5}{8}$ inch plywood (15.9 mm) applied vertically.
 - The lathing must be attached to the plywood substrate with #8-16-by-1 inch (25 mm) screws at a spacing of 6 inches (152 mm) o.c. along the edges with a $\frac{3}{4}$ inch (19 mm) edge distance and 6 inches (152 mm) o.c. in the field.
- The sheathing and framing to which the Quality Stone Veneer is attached must be designed for the applicable wind loads.

Use of the Quality Stone Veneer has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *Florida Building Code—Residential*.

In addition to the data noted in Section 6.0 of the evaluation report ESR-3151, data in accordance with *Florida Building Code* Test Protocols for High-Velocity Hurricane Zones, TAS 201, TAS 202, and TAS 203 was submitted.

For products falling under Florida Rule 9N-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).

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