



*Most Widely Accepted and Trusted*

# ICC-ES Evaluation Report

# ESR-3181

ICC-ES | (800) 423-6587 | (562) 699-0543 | [www.icc-es.org](http://www.icc-es.org)

Reissued 10/2017  
This report is subject to renewal 10/2019.

**DIVISION: 04 00 00—MASONRY**

**SECTION: 04 73 00—MANUFACTURED STONE MASONRY**

**REPORT HOLDER:**

**HORIZON STONE, LLC**

**2515 EAST 43<sup>RD</sup> STREET, SUITE A  
CHATTANOOGA, TENNESSEE 37407**

**EVALUATION SUBJECT:**

**HORIZON STONE MANUFACTURED STONE VENEER**



**Look for the trusted marks of Conformity!**

*“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”*



A Subsidiary of

*ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.*



# ICC-ES Evaluation Report

## ESR-3181

Reissued October 2017

This report is subject to renewal October 2019.

[www.icc-es.org](http://www.icc-es.org) | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

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

### REPORT HOLDER:

**HORIZON STONE, LLC**  
2515 EAST 43<sup>RD</sup> STREET, SUITE A  
CHATTANOOGA, TENNESSEE 37407  
(423) 629-0801  
[www.horizon-stone.net](http://www.horizon-stone.net)  
[blarge@horizon-stone.net](mailto:blarge@horizon-stone.net)

### EVALUATION SUBJECT:

#### HORIZON STONE 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)

##### Properties evaluated:

Veneer strength and durability

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

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 National Green Building Standard™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

##### Attributes verified:

See Section 3.0

#### 2.0 USES

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

#### 3.0 DESCRIPTION

Horizon Stone Manufactured Stone Veneer is a precast concrete product made to resemble natural stone in color and in texture. The concrete is composed of cement, aggregate, pigments, admixtures and water. The 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/m<sup>2</sup>). Recognized styles of veneer are listed in Table 1.

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 700-2015, ICC 700-2012 Sections 602.1.6 and 11.602.1.6 for termite-resistant materials and Sections 601.7, 11.601.7, and 12.1(A).601.7 for site-applied finishing materials; and (iii) 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 INSTALLATION

##### 4.1 General:

Installation of Horizon Stone Manufactured 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.

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 Horizon Stone Manufactured 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 amongst these documents, the most severe requirements govern.
- 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 stone veneer, setting bed and scratch coat, as applicable. At wall openings, the supporting members must be designed to limit deflection to  $\frac{1}{600}$  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 Horizon Stone Manufactured Stone Veneer is manufactured under a quality control program 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**

Packaged precast stone veneer units are identified with the manufacturer’s name (Horizon Stone, LLC), the style name, the manufacturing date and location, and the evaluation report number (ESR-3181).

**8.0 OTHER CODES**

**8.1 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 Horizon Stone Manufactured Stone Veneer 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
Horizon Stone Manufactured Stone Veneer	19 <sup>th</sup> Century, Castlestone, Craftsman Cottage Stone, Fieldstone, Handcrafted, Ledgestone, Olde World, Rockface Series

## ICC-ES Evaluation Report

## ESR-3181 FBC Supplement

Reissued October 2017

This report is subject to renewal October 2019.

[www.icc-es.org](http://www.icc-es.org) | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

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

### REPORT HOLDER:

**HORIZON STONE, LLC**  
2515 EAST 43<sup>RD</sup> STREET, SUITE A  
CHATTANOOGA, TENNESSEE 37407  
(423) 629-0801  
[www.horizon-stone.net](http://www.horizon-stone.net)  
[blarge@horizon-stone.net](mailto:blarge@horizon-stone.net)

### EVALUATION SUBJECT:

### HORIZON STONE MANUFACTURED STONE VENEER

#### 1.0 REPORT PURPOSE AND SCOPE

##### Purpose:

The purpose of this evaluation report supplement is to indicate that Horizon Stone Manufactured Stone Veneer, recognized in ICC-ES master evaluation report ESR-3181, has also been evaluated for compliance with the codes noted below.

##### Applicable code editions:

- 2014 *Florida Building Code—Building*
- 2014 *Florida Building Code—Residential*

#### 2.0 CONCLUSIONS

The Horizon Stone Manufactured Stone Veneer, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3181, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design and installation are in accordance with the 2012 *International Building Code*® provisions noted in the master report, provided that the 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.

Use of the Horizon Stone Manufactured Stone Veneer for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this supplemental report.

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).

This supplement expires concurrently with the master report, reissued October 2017.