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ICC-ES Evaluation Report

ESR-1364

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Reissued 10/2017
This report is subject to renewal 10/2018.

DIVISION: 04 00 00—MASONRY

SECTION: 04 71 00—MANUFACTURED BRICK MASONRY

SECTION: 04 73 00—MANUFACTURED STONE MASONRY

REPORT HOLDER:

BORAL STONE PRODUCTS, LLC

**200 MANSELL COURT EAST, SUITE 3
ROSWELL, GEORGIA 30076**

EVALUATION SUBJECT:

CULTURED STONE®, CULTURED BRICK® AND PROSTONE®



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Reissued October 2017

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

REPORT HOLDER:

BORAL STONE PRODUCTS, LLC
200 MANSELL COURT EAST, SUITE 3
ROSWELL, GEORGIA 30076
(770) 645-4500
www.culturedstone.com

EVALUATION SUBJECT:

CULTURED STONE®, **CULTURED BRICK®** AND **PROSTONE®**

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:

- Interior finish and trim classification
- Thermal resistance
- 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

Cultured Stone®, Cultured Brick® and ProStone® are used as adhered, non-load-bearing exterior veneer or as an interior finish and trim on wood or light gage steel stud framing, concrete or masonry walls.

3.0 DESCRIPTION

Cultured Stone®, Cultured Brick® and ProStone® are precast concrete products made to resemble natural stone or brick. The stone veneer is made from cement,

aggregate, water, admixtures and mineral oxide colors. The average saturated veneer weight does not exceed 15 pounds per square foot (73.2 kg/m²). See Table 1 for recognized styles.

The stone veneer has a Class A (Class I) finish rating in accordance with IBC Section 803.1.1, and complies with the flame-spread and smoke-development requirements of IRC Section R302.9. Additionally, the stone veneer has an R-value of 0.355 when tested at a thickness of 1.0 inch (25.4 mm) in accordance with ASTM C177.

The attributes of the stone veneer have been verified as conforming to the requirements of (i) 2016 CALGreen Section A4.405.1.3 for prefinished building materials and Section A5.406.1.2 for reduced maintenance; (ii) ICC 700-2015 and ICC 700-2012 Section 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 the 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. The stone veneer is installed over a lath and mortar scratch coat, or applied directly to concrete or masonry, as described in Sections 4.2 and 4.3 of this report, respectively.

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 Cultured Stone[®], Cultured Brick[®] and ProStone[®] veneers 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 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, the most severe requirements govern.
- 5.2 Expansion or control joints used to limit the effect of differential movement of supports must be specified by the architect, designer or stone 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 framing 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 Section R301.2.2 apply, the average weight of the wall supporting the precast stone veneer, including 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 Cultured Stone[®], Cultured Brick[®] and ProStone[®] are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

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

6.2 Reports of testing in accordance with ASTM C177.

6.3 Reports of testing in accordance with ASTM E84.

7.0 IDENTIFICATION

The Cultured Stone[®] described in this report is identified by the initials "C.S.V." cast into the side of each piece of stone.

The packaging of the Cultured Stone[®], Cultured Brick[®] and ProStone[®] products includes a stamp bearing the manufacturer's name, the product name, the manufacturing plant location, the product code and the evaluation report number (ESR-1364).

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, 2009 and 2006 *International Building Code*[®] (2009 IBC)
- 2012, 2009 and 2006 *International Residential Code*[®] (2009 IRC)

The Cultured Stone[®], Cultured Brick[®] and ProStone[®] products described in this report comply with, or are suitable alternatives to what is specified in, the codes listed above, subject to the provisions of Sections 8.2 through 8.7.

8.2 Uses:

See Section 2.0.

8.3 Description:

See the first paragraph of Section 3.0 and the following: The precast veneer has a Class A finish rating in accordance with 2012 and 2009 IBC Section 8.3.1.1 (2006 IBC Section 803.1) and complies with the flame-spread and smoke-development requirements of 2012 and 2009 IRC Section R302.9 (2006 IRC Section R315). The stone veneer has an *R*-value of 0.355 when tested in accordance with ASTM C177 at an average thickness of 1.0 inches (25.4 mm).

8.4 Installation:

Cultured Stone[®], Cultured Brick[®] and ProStone[®] must be installed in accordance with the 2015 IBC and IRC, as described in Section 4.0.

8.5 Conditions of Use:

See Section 5.0.

8.6 Evidence Submitted:

See Section 6.0.

8.7 Identification:

See Section 7.0.

TABLE 1—RECOGNIZED STYLES

PRODUCT NAME	PATTERNS
Cultured Stone®	Ancient Villa LedgeStone, Cast-Fit 12x24, Cast-Fit 8 x16, Cobblefield, Coral Stone, Country LedgeStone, Del Mare LedgeStone, Dressed Fieldstone, Drystack LedgeStone, European Castle Stone, Hewn Stone 308, Hewn Stone 314, Hewn Stone 514, Hewn Stone 522, Hewn Stone 822, Limestone, Old Country Fieldstone, Pro-Fit Alpine LedgeStone, Pro-Fit LedgeStone, Pro-Fit Modera LedgeStone, Pro-Fit Terrain LedgeStone, River Rock, Rockface, Southern LedgeStone, Split Face, Stream Stone
Cultured Brick®	Handmade Brick, Used Brick
ProStone®	Aged LedgeStone, Carolina Collection LedgeStone, Easy Fit Savannah LedgeStone, Field Rubble, Fieldstone, LedgeStone, River Rock, Rough Ledge, Tuscan Cobble

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ESR-1364 CBC and CRC Supplement

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EVALUATION SUBJECT:

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Cultured Stone®, Cultured Brick® and ProStone® products, recognized in ICC-ES master evaluation report ESR-1364, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2016 *California Building Code*® (CBC)
- 2016 *California Residential Code*® (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Cultured Stone®, Cultured Brick® and ProStone® products described in Sections 2.0 through 7.0 of the master evaluation report ESR-1364, comply with CBC Sections 803.1.1, 1404.4, and 2101.2.1, provided the design and installation are in accordance with the 2016 *International Building Code*® (IBC) provisions noted in the master report and the additional requirements of CBC Sections 1405.1.1, 1405.3 and 1411, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A, for use in the exterior design and construction of new buildings located in any Fire Hazard Zone within a State Responsibility Area or any Wildland–Urban Interface Fire Area.

2.2 CRC:

The Cultured Stone®, Cultured Brick® and ProStone® products described in Sections 2.0 through 7.0 of the master evaluation report ESR-1364, comply with the flame spread and smoke developed requirements of CRC Section R302.9 and with CRC Section R703, provided the design and installation are in accordance with the 2016 *International Residential Code*® (IRC) provisions noted in the master report and the additional requirements of CRC Sections R301.1.3 and R702.7.

The products recognized in this supplement have not been evaluated under CRC Section R337.7, for use in the exterior design and construction of new buildings located in any Fire Hazard Zone within a State Responsibility Area or any Wildland–Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the *International Wildland–Urban Interface Code*®.

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