

# ICC-ES Evaluation Report

**ESR-4330**

Issued May 2019

This report is subject to renewal May 2020.

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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:

**BEST STONEWORKS OF DELAWARE, INC.**

## EVALUATION SUBJECT:

**BEST STONEWORKS VENEER STONE**

## 1.0 EVALUATION SCOPE

### Compliance with the following codes:

- 2018 and 2015 *International Building Code*® (IBC)
- 2018 and 2015 *International Residential Code*® (IRC)

### Properties evaluated:

Properties addressed in ASTM C1670

## 2.0 USES

Best Stoneworks Veneer Stone is used as an adhered, nonload-bearing exterior veneer on wood-framed or light gage steel stud walls, concrete walls and masonry walls.

## 3.0 DESCRIPTION

Best Stoneworks Veneer Stone is an adhered manufactured stone masonry veneer (AMSMV) complying with ASTM C1670, referenced in 2018 IBC Section 2103.1 and 2018 IRC Section R606.2.6. The AMSMV is made to resemble natural stone or brick in color and in texture. Recognized veneer styles are listed in Table 1.

## 4.0 INSTALLATION

### 4.1 General:

Installation of Best Stoneworks Veneer Stone 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 2018 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 2018 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 2018 IBC Section 1404.10.1.2.1 (2015 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 2018 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 2018 IBC Section 1404.10.1.4.1 (2015 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 2018 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 2018 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), as applicable.

### 4.3 Installation over Concrete and Masonry:

Installation over concrete and masonry must comply with 2018 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 Best Stoneworks Veneer Stone 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 must be specified by the architect, designer or veneer

manufacturer, in that order. Consideration must be given to movement caused by temperature changes, shrinkage, creep and deflection.

- 5.3 For installation in accordance with the IBC, supporting wall construction must be designed to support the weight of the veneer system. Horizontal framing members, such as lintels and headers, which support AMSMV, must be designed to limit deflection to  $\frac{1}{600}$  of the span.
- 5.4 In jurisdictions adopting the IRC, where the seismic provisions of IRC 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, an engineered design of the wall construction must be performed in accordance with IRC Section R301.1.3.
- 5.5 Best Stoneworks Veneer Stone is manufactured under a quality control program 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.

**7.0 IDENTIFICATION**

7.1 Boxes of AMSMV are identified with the manufacturer's name (Best Stoneworks of Delaware, Inc.), the product name (Best Stoneworks Veneer Stone) the style name, location of manufacture, minimum quantity contained, the manufacturing date, a statement of conformity to ASTM C1670, and the evaluation report number (ESR-4330).

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

**BEST STONEWORKS OF DELAWARE, INC.**  
**3015 BELLEVUE AVENUE**  
**WILMINGTON, DELAWARE 19802**  
**(302) 765-3497**  
<http://www.beststoneworks.com>

**TABLE 1—RECOGNIZED STYLES**

PRODUCT	STYLES
Best Stoneworks Veneer Stone	Ashlar Stone, Field Stone, LedgeStone, Field-Ledge, Thin Brick