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# ICC-ES Report

## ESR-1942

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Reissued 03/2016  
This report is subject to renewal 03/2018.

**DIVISION: 04 00 00—MASONRY**  
**SECTION: 04 71 00—MANUFACTURED BRICK MASONRY**  
**SECTION: 04 73 00—MANUFACTURED STONE MASONRY**

**REPORT HOLDER:**

**DUTCH QUALITY STONE, INC.**

**POST OFFICE BOX 308**  
**MOUNT EATON, OHIO 44659**

**EVALUATION SUBJECT:**

**DUTCH QUALITY STONE ADHERED VENEER**



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# ICC-ES Evaluation Report

**ESR-1942**

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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:**

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**EVALUATION SUBJECT:**
**DUTCH QUALITY STONE ADHERED VENEER**
**1.0 EVALUATION SCOPE**
**1.1 Compliance with the following codes:**

- 2015 *International Building Code*® (IBC)
- 2015 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)<sup>†</sup>

<sup>†</sup>The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

- Other codes (see Section 8.0)

**Properties evaluated:**

- Veneer strength and durability
- Thermal resistance

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

- 2013 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2012 and ICC 700-2008)

**Attributes verified:**

- See Section 3.0

**2.0 USES**

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

**3.0 DESCRIPTION**

The veneer is a precast concrete product made to resemble natural stone in color and in texture. The

concrete is composed of cement, aggregate, water, admixtures and coloring. The veneer units are molded and cured at the 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 and accessories are as follows:

Styles	Brick-Stone, Castle Stone, Cobbled Limestone, Drystack, Fieldstone, LedgeStone, Limestone, River Rock, Split Granite, Stackstone, Stack Ledge, Tuscan Ridge, Tuscany Veneer, Weather Ledge, Weathered Plank 4, Weathered Plank 6
Accessories	Row Locks 4x5, Row Locks 5.7, Half Brick, Full Brick, Flat Window Trim, Jack Arch Wings, Receptacle Block, Light Block, Water Hydrant, Circle Vent, Arch Top Vent, Address Block

The stone veneer has an *R*-value of 0.42 when tested in accordance with ASTM C177 at a thickness of 1.5 inches (38 mm).

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 700-2012 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 the 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 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 Dutch Quality Stone adhered 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 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 framing must be designed to support the installed weight of the veneer system, including stone veneer, scratch coat and setting bed, 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 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 Dutch Quality Stone Adhered Veneer is 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 Report of testing in accordance with ASTM C177.

#### 7.0 IDENTIFICATION

Each package of veneer is labeled or stamped with the manufacturer's name (Dutch Quality Stone), the product name, style name and the evaluation report number (ESR-1942).

#### 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*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)

The Dutch Quality Stone 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.