



EVALUATION REPORT

Number: 402

Originally Issued: 12/11/2015 Revised: 12/27/2019 Valid Through: 12/31/2020

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CASA DI SASSI PRECAST STONE VENEER

CSI Sections:
04 73 00 Manufactured Stone Masonry

1.0 RECOGNITION

Casa Di Sassi Precast Stone Veneer has been evaluated for use as a wall covering in compliance with Section 1405.2 of the IRC and Section R703.7 of the IRC over exterior or interior walls of wood studs, cold-formed steel framing or concrete masonry. The stone veneer has been evaluated for composition, strength, durability and installation. The Casa Di Sassi Precast Stone Veneer evaluated in this report complies with or is a satisfactory alternative to the following codes and regulations:

- 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code® (IRC)

2.0 LIMITATIONS

Use of Casa Di Sassi Precast Stone Veneer recognized in this report is subject to the following limitations:

2.1 "Expansion or control joints used to limit the effect of differential movement of precast stone veneer 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." [AC51]

2.2 "For installation in accordance with the IRC, supporting wall construction must be designed to support the weight of the veneer system. Horizontal framing members, such as lintels and headers, which support precast stone veneer, must be designed to limit deflection to 1/320 of the span." [AC51]

2.3 "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

301.2.2.2.1, an engineered design of the wall construction must be performed in accordance with IRC Section R301.1.3." [AC51]

2.4 "When installed on exterior stud walls, the veneer units shall be installed a minimum of 4 inches (102 mm) above the earth, or a minimum of 2 inches (51 mm) above paved areas, or a minimum of 1/2 inch (12 mm) above exterior walking surfaces which are supported by the same foundation that supports the exterior wall" in accordance with 2015 and 2012 IRC Section 1405.10.1.3 or 2015 and 2012 IRC Section R703.12.1, as applicable.

3.0 PRODUCT USE

3.1 The backing for Casa Di Sassi's "adhered veneer shall be of concrete, masonry, steel framing or wood framing." [Section 1404.4 of the IRC] The veneer units shall be adhered to cement plaster, concrete or concrete masonry backings. Lath, lath accessories and fasteners shall be corrosion-resistant, as applicable. The manufacturer's installation instructions shall be strictly adhered to and be available at the jobsite during application.

3.2 Casa Di Sassi Precast Stone Veneer shall be installed in accordance with Section 1405.10.1 of the IRC, Section R703.12 of the IRC, as applicable, ASTM C1780 and the report holder's published installation instructions. Where there is a conflict the more restrictive shall govern.

3.3 Casa Di Sassi Precast Stone Veneer units may be applied over the assemblies described in Table 1 of this report when installed in accordance with the referenced code sections and this report.

4.0 PRODUCT DESCRIPTION

4.1 Casa Di Sassi Precast Stone Veneer units are manufactured concrete products formed to resemble natural stone or brick in both texture and color. The individual masonry veneer units shall be a minimum of 0.25 inch (9.1 mm) thick and a maximum of 1.85 inch (47 mm) thick. Individual veneer units shall not be greater than 36 inches (914 mm) in length or height with a maximum surface area 720 square inches (0.46 m²). The average minimum compressive strength shall be 1,800 psi (12.4 MPa). The installed products "average saturated weight must not exceed 15 pounds per square foot (73 kg/m²)" [AC51]. The recognized veneer styles are listed in Table 2 of this report.

Table 2 - Recognized Veneer Style Names

LedgeStone, Old World, Fieldstone, Blend, Limestone, Barnstone, Granite, Brick, EZ Ledge, Tuscan Veneer, Country Rubble, Kwik Stack.



Cremona

Blends are a unique combination of a variety of stones.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for all other applications to that provision in the code in quality, strength, effectiveness, life expectancy, durability and safety, as applicable, in accordance with IRC Section 104.11. This document shall only be reproduced in its entirety.

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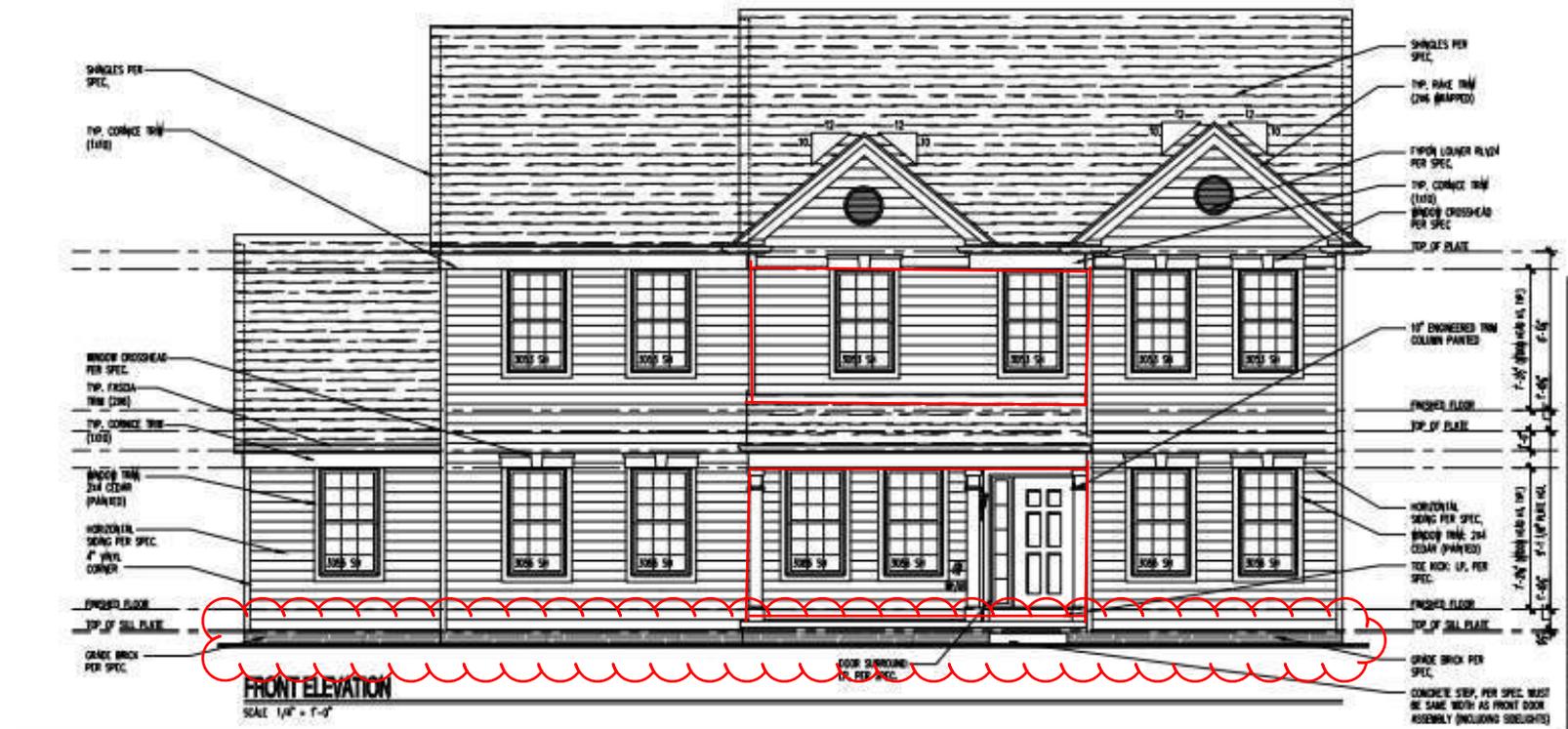
Table 1 - Application of Masonry Veneer Units

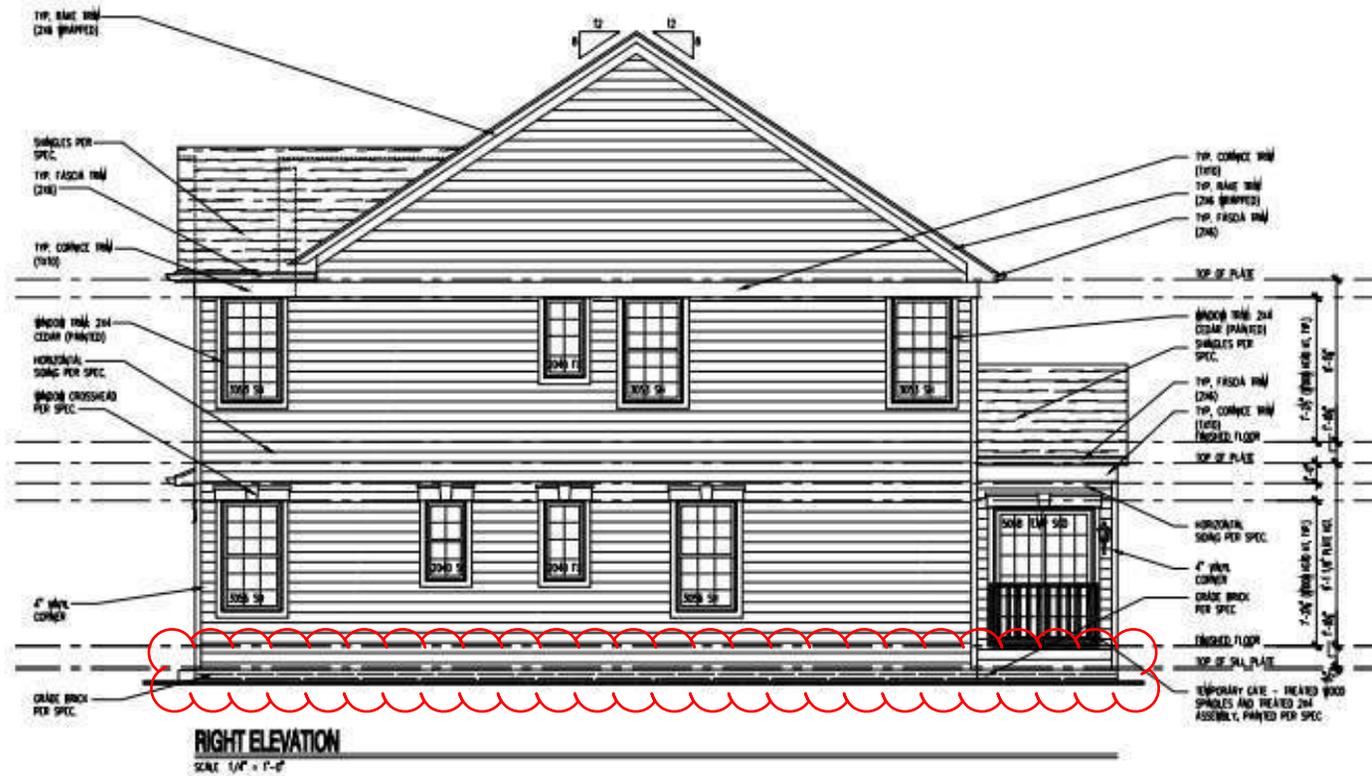
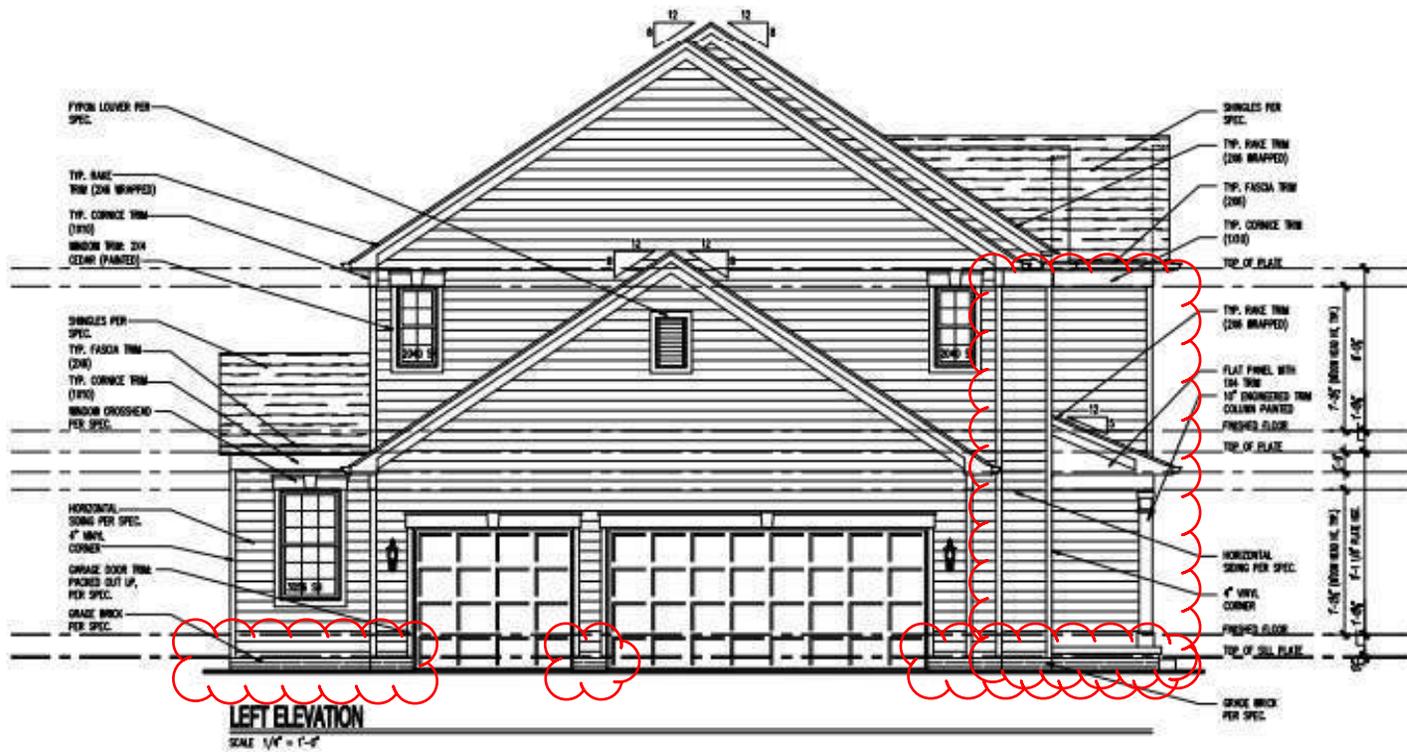
Item	Code Section	Notes
1. Cement Plaster	IBC Section 1405.10.1; 2105 IRC Sections R703.7.2 (2012, 2009 and 2006 IRC Section R703.6.2)	Nominal 1/2-inch scratch coat of Type S mortar complying with ASTM C270, scored horizontally in accordance with IRC Section 2512.6.
2. Water-Resistive Barrier	IBC Section 1405.10.1.1; 2015 IRC Section R703.7.3 (2012, 2009 and 2006 IRC Section R703.6.3)	
3. Flashing	IBC Section 1405.4 (2006 IRC Section 1405.3) and Section 1405.10.1.2; 2015 IRC Section R703.4 (2012, 2009 and 2006 IRC Section R703.8) and IRC Section R703.12.2	
4. Weep Screen	IBC Section 1405.10.1.2; IRC Section R703.12.1 (2009 IRC Section R703.6.3.1); and TMS 402-13 Section 12.1.6.2 (TMS 402-11 Section 6.1.6.2, ACI 530 Section 6.1.5.2)	
5. Lath and Fasteners	IBC Section 2510.3 (ASTM C926 and ASTM C1063); 2015 IRC Section R703.7.1 (2012, 2009 and 2006 IRC Section R703.6.1)	For proprietary fasteners shear and pull out capacities shall be justified to the satisfaction of the authority having jurisdiction (AHJ).
6. Over Wood Based or Gypsum Sheathing Supported by Steel or Wood Framing	See Items 1, 2, 3, 4 and 5 and Notes	Items 1, 2, 3, 4 and 5 with framing spaced at 16 inches on-center maximum, lath shall be 2.5 lbyd ² self-furring metal lath complying with ASTM C847 and fastened in accordance with the requirements of Section 7.10.2 of ASTM C1063, and Section R703.6.1 of the IRC with fasteners spaced a maximum of 6 inches on-center.
7. Over concrete or concrete masonry	Prepare surfaces in accordance with IBC Section 2510.7 and Section 5.2 of ASTM C926.	Items 1, 3, 4, 5 and 6 except with metal lath complying with ASTM C847. The veneer may also be adhered to backings of clean concrete masonry without lath, in accordance with Section 5.10.7 of the IRC and Section 5.2 of ASTM C926.
8. Mortar Application of Veneer Units	2015 IBC Section 2103.2.4 (2012 and 2009 IRC Section 2103.9 (2006 IRC Section 2103.8))	Nominal 1/2-inch thick brown (second) coat of Type S mortar complying with ASTM C270 applied over the scratch coat and a thin layer of the mortar applied to the back of the veneer units in accordance with Casa Di Sassi's installation instructions.

3 ft conversions: 1 inch = 25.4 mm, 1 lbyd² = 0.54 kg/m²



Cremona Blend







Remove brick and replace with matching stone facade.

Remove siding and replace with stone facade.



Proposed stone facade to terminate at inside corner.



Remove brick and propose stone facade.



Remove brick and
propose stone
facade.



Remove brick and propose stone facade.

Adjacent houses with brick facade on front elevation.

