



NEMO|etc.

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ENGINEER

EVALUATE

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CONSULT

CERTIFY

EVALUATION REPORT

Boral Stone Products, LLC
2256 Centennial Road
Toledo, OH 43617
(425) 903-5937

Evaluation Report O35630.02.11-R3
FL15046-R3
Date of Issuance: 02/03/2011
Revision 3: 06/19/2019

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: Versetta Stone™ Panelized Stone Veneer

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein and the minimum requirements of FBC 1404.10.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

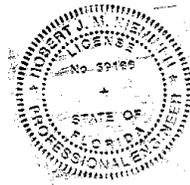
ADVERTISEMENT: The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 3, plus a 1-page Appendix.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 06/19/2019. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

PANEL WALLS - SIDING EVALUATION:
1. SCOPE:
Product Category: Panel Walls

Sub-Category: Siding

Compliance Statement: Versetta Stone™ panelized stone veneer, as produced by Boral Stone Products, LLC, has demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

| Section | Property | Standard | Year |
|---------|---------------------|------------|------------|
| 1404.10 | Physical Properties | ASTM C1186 | 2008(2012) |
| 1609.1 | Wind | ASTM E330 | 2002 |

3. REFERENCES:

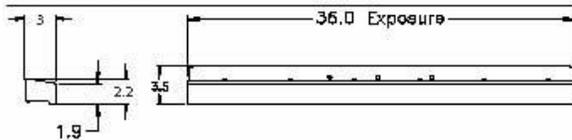
| Entity | Examination | Reference | Date |
|---------------|------------------------|-------------------|------------|
| ATI (TST1558) | Physical Properties | 99242.01-117-16 | 11/22/2010 |
| ATI (TST1558) | Transverse Load (Wind) | 99242.01-117-16 | 11/22/2010 |
| QAI (QUA7628) | Quality Control | Inspection Report | 01/31/2019 |

4. PRODUCT DESCRIPTION:

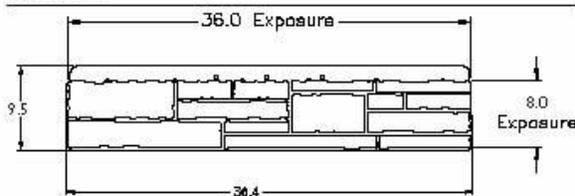
Versetta Stone™ panelized stone veneer is a non-structural, fiber-reinforced, cement-based masonry wall cladding that is mechanically attached to Approved substrates, as outlined in the Limitations / Conditions of Use herein. The pre-cast stone veneer panels have a 26 ga. painted G90 galvanized steel nailing flange molded along the top edge for attachment to approved substrates. The full panels measure 36.4-inch long x 9.5-inch tall, have tongue-and-groove edges that engage adjacent panels, and have an average installed weight of 8.8 lbs/ft².

Dimensions

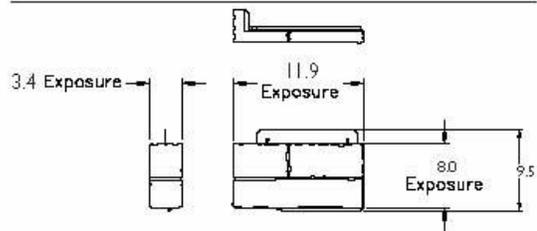
Wainscot cap



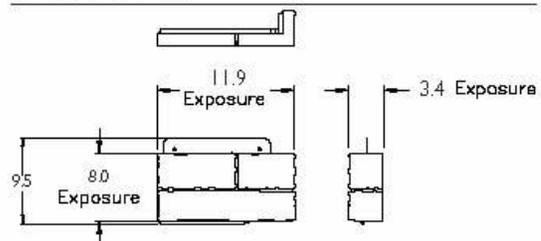
Flat Panel



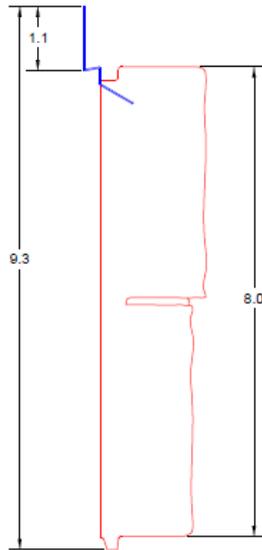
Left Corner Panel



Right Corner Panel



Side Cross-Section



5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC HVHZ jurisdictions.
- 5.3 Limitations relating to wind load resistance are outlined in Appendix 1. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads
- 5.4 All products in the wall assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 61G20-3.

6. INSTALLATION:

- 6.1 Versetta Stone™ panelized stone veneer shall be installed in accordance with Boral Stone Products' published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 The underlying wall substrate shall include a water-resistive barrier in accordance with FBC 1403.2.
- 6.3 Minimum system attachment requirements set forth in Appendix 1 shall not be exceeded.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Chester, SC

9. QUALITY ASSURANCE ENTITY:

QAI Laboratories (QUA7628); (604) 527-8378; mlansdowne@qai.org

- THE ONE-PAGE THAT FOLLOWS FORM PART OF THIS EVALUATION REPORT -

The following notes apply to the systems outlined herein:

1. Substrates shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
2. Boral Stone Products, LLC requires wall framing design to limit out-of-plane wall deflection to max. L/240.
3. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads

**TABLE 1: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
VERSETTA STONE™**

| System No. | Framing (See Notes 1&2) | Sheathing (See Notes 1&2) | Nailing Flange Attachment | | | MDP (psf) |
|------------|---|-------------------------------------|---|---|--|-----------|
| | | | Fasteners | Fastener Spacing | Fastener Pattern | |
| 1. | Min. nominal 2x4 #2 SPF at max. 16-inch o.c. | Min. 7/16-inch OSB or ½-inch plwood | Hot dip galvanized roofing nails; Min. 1/8-inch dia. shank x min. 5/16-inch dia. head x length suitable for minimum 1-inch embedment into wood framing members. | Min. two fasteners in each 12-inch long corner panel; Min. four fasteners in each 36-inch long full panel. | Alternating pattern of each row with at least two fasteners into a stud for each 36-inch long panel and at least one fastener into a stud for each 12-inch long panel. | -20.4 |
| 2. | Min. nominal 2x4 #2 SPF at max. 16-inch o.c. | Min. 7/16-inch OSB or ½-inch plwood | Hot dip galvanized wood screw; Min. #8 x min. 5/16-inch dia. pan head x length suitable for minimum 1-inch embedment into wood framing members. | Min. two fasteners in each 12-inch long corner panel; Min. four fasteners in each 36-inch long full panel. | Alternating pattern of each row with at least two fasteners into a stud for each 36-inch long panel and at least one fastener into a stud for each 12-inch long panel. | -63.5 |
| 3. | Min. nominal 2x4 #2 SPF at max. 16-inch o.c. | Min. 7/16-inch OSB or ½-inch plwood | Hot dip galvanized wood screw; Min. #10 x min. 5/16-inch dia. pan head x length suitable for minimum 1-inch embedment into wood framing members. | Min. two fasteners in each 12-inch long corner panel; Min. four fasteners in each 36-inch long full panel. | Alternating pattern of each row with at least two fasteners into a stud for each 36-inch long panel and at least one fastener into a stud for each 12-inch long panel. | -72.7 |
| 4. | Min. 20 ga. steel stud framing at max. 16-inch o.c. | Min. 7/16-inch OSB or ½-inch plwood | Hot dip galvanized wood screw; Min. #8 x min. 5/16-inch dia. pan head x length suitable for minimum 0.5-inch penetration through steel studs. | Min. two fasteners in each 12-inch long corner panel; Min. four fasteners in each 36-inch long full panel. | Alternating pattern of each row with at least two fasteners into a stud for each 36-inch long panel and at least one fastener into a stud for each 12-inch long panel. | -67.9 |
| 5. | Min. 20 ga. steel stud framing at max. 16-inch o.c. | Min. 7/16-inch OSB or ½-inch plwood | Hot dip galvanized wood screw; Min. #10 x min. 5/16-inch dia. pan head x length suitable for minimum 0.5-inch penetration through steel studs. | Min. two fasteners in each 12-inch long corner panel; Min. four fasteners in each 36-inch long full panel. | Alternating pattern of each row with at least two fasteners into a stud for each 36-inch long panel and at least one fastener into a stud for each 12-inch long panel. | -90.0 |
| 6. | CMU block wall | N/A | Min. 3/16-inch dia. Buildex Tapcon; length suitable for minimum 1-inch embedment; max. 1.75-inch embedment; pilot hole per Buildex published requirements | Min. two fasteners in each 12-inch long corner panel; Min. three fasteners in each 36-inch long full panel. | Evenly spaced with one fastener at each end and one at the center for each 36-inch long panel (3 total) and two fasteners for each 12-inch long panel. | -65.7 |