



NEMO|etc.

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ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT

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

Evaluation Report 100378.07.05-R10

FL15047-R6

Date of Issuance: 07/18/2005

Revision 10: 08/07/2020

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 **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: Cultured Stone® and ProStone® Adhered Masonry Veneer

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

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

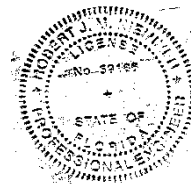
ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 4.

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 08/07/2020. 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, 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.

PANEL WALLS - SIDING EVALUATION:

1. SCOPE:

Product Category: Panel Walls
Sub-Category: Siding – Adhered Masonry Veneer
Compliance Statement: **Cultured Stone® and ProStone® Adhered Masonry Veneer**, as produced by **Boral Stone Products, LLC**, has demonstrated compliance with the following sections of the **7th Edition (2020) 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:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1405.1	Uniform static air pressure	TAS 202	1994
1405.1	Cyclic wind pressure loading	TAS 203	1994
1405.10	Various	TMS 402	2016
1609.1	Wind Resistance	ASTM E330	2002 or 2014
2103.1	Material standard	ASTM C1670	2016

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
CTL (TST3847)	TMS 402 / ASTM C1670	187531	04/11/2005
ERD (TST6049)	Wind Resistance	100379.01.06-R1	09/17/2012
FET (TST1654)	TAS 202 / TAS 203	T193-20	03/27/2020
ICC-ES (EVL2396)	2015 IBC Compliance	ESR-1364	10/01/2019
QAI (QUA7628)	Quality Control	Inspection Report	01/31/2019
QAI (QUA7628)	Quality Control	Florida BCIS	Exp. 01/31/21

4. PRODUCT DESCRIPTION:

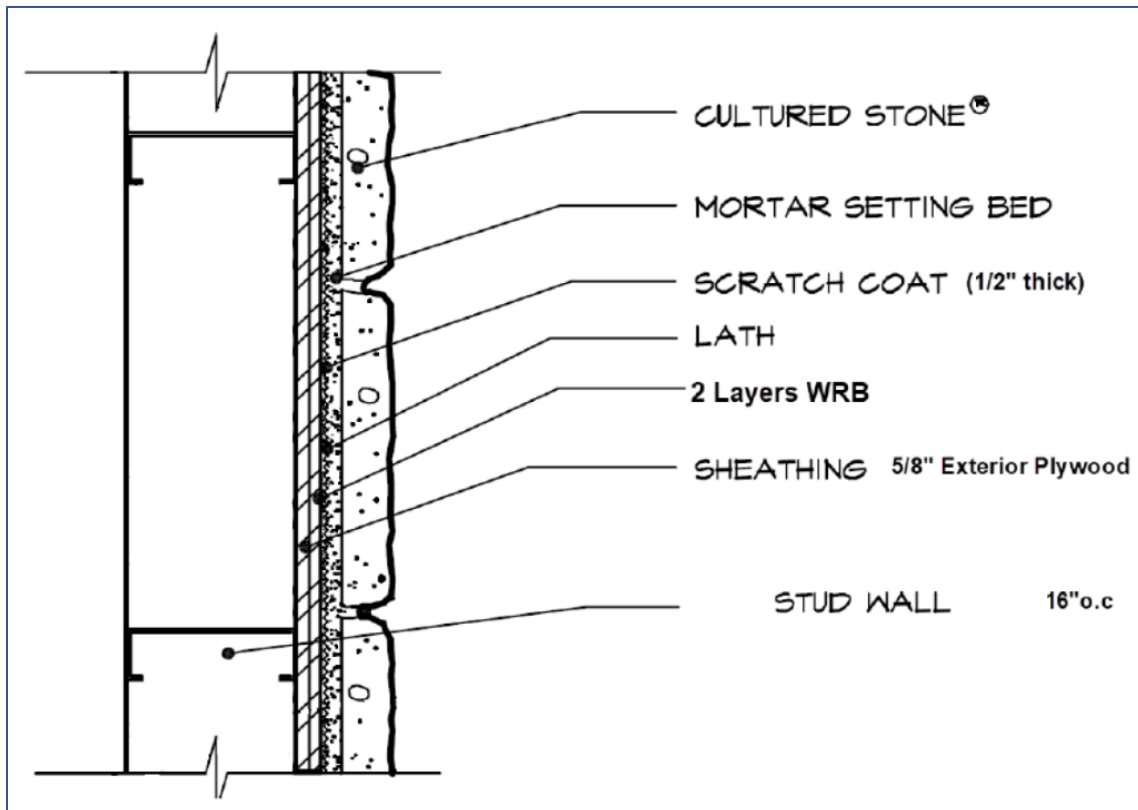
4.1 **Cultured Stone® and ProStone®** are manufactured, precast, artificial stone veneers that are used as a non-bearing exterior veneer or an interior finish and trim on concrete or masonry walls, stud walls and metal buildings.

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 pertains to adhered masonry veneer components. Wall substrates shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Refer to FBC Section 1405.10, FBC Chapter 21 and TMS 402-16 for requirements and limitations for adhered masonry veneer.
- 5.3 This Evaluation Report does not include evaluation of fire classification.
- 5.4 The veneer units shall have a thickness range of min. 0.25-inch to max. 2-5/8 inch, maximum plan dimension of 36-inch and maximum area of 5 ft².
- 5.5 **Transverse-load (wind) resistance:**
 - 5.5.1 **Assembly 1:**
 - Substrate: Concrete or masonry meeting FBC requirements to satisfaction of AHJ.
 - Veneer: Coral Stone, or other Cultured Stone® or ProStone® product of equal or greater thickness and equal or smaller size, applied in ASTM C270 Type S mortar setting bed in accordance with Boral Stone Products’ installation instructions and FBC 1405.10.1.5.
 - MDP: -102.2 psf

5.5.2 **Assembly 2:**

Substrate:	Min. 19/32-inch plywood attached to framing max. 16" o.c. meeting FBC requirements to satisfaction of AHJ.
Water-resistive barrier:	In accordance with FBC 1405.10.1.1 to satisfaction of AHJ.
Metal lath:	In accordance with FBC 1405.10.1.4.1 to satisfaction of AHJ, but not less than 2.5 lb/yd ² (1.4 kg/m ²) galvanized, diamond mesh metal lath (ASTM C847)
Lath fasteners:	Corrosion resistant #8-18 X 1-1/2" self drilling lath screws fastened to the wall studs, maximum 7-inch o.c. vertically.
Scratch coat:	In accordance with FBC 1405.10.1.4.2 to satisfaction of AHJ, but not less than a 1/2-inch scratch coat of ASTM C270 Type N or S mortar applied over the lath and allowed to cure for not less than 48-hours prior to veneer application. The scratch coat shall be moistened prior to application of the mortar setting bed.
Veneer:	ProFit LedgeStone, or other Cultured Stone® or ProStone® product of equal or greater thickness and equal or smaller size, applied in ASTM C270 Type N or S mortar setting bed in accordance with Boral Stone Products' installation instructions and FBC 1405.10.1.4.3.
MDP:	+/- 86 psf



5.5.3 Maximum Design Pressure (MDP) is the result of testing for wind load resistance based on allowable wind loads.

6. INSTALLATION:

Boral Adhered Masonry Veneer shall be installed in accordance with FBC 1405.10, **Boral Stone Products'** published installation instructions, and the National Concrete Masonry Association Installation Guide for Adhered Manufactured Stone Veneer, subject to the Limitations / Conditions of Use herein.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction 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

- END OF EVALUATION REPORT -