

# Florida Building Code Approval

CanyonRock<sup>™</sup> Premium Decorative Stone

Updated 8/11/09



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## Product Approval

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<p>FL #</p> <p>Application Type</p> <p>Code Version</p> <p>Application Status</p> <p>Comments</p> <p>Archived</p> <p>Product Manufacturer</p> <p>Address/Phone/Email</p> <p>Authorized Signature</p> <p>Technical Representative</p> <p>Address/Phone/Email</p> <p>Quality Assurance Representative</p> <p>Address/Phone/Email</p> <p>Category</p> <p>Subcategory</p> <p>Compliance Method</p> <p>Florida Engineer or Architect Name who developed the Evaluation Report</p> <p>Florida License</p> <p>Quality Assurance Entity</p> <p>Quality Assurance Contract Expiration Date</p> <p>Validated By</p> <p>Certificate of Independence</p> <p>Referenced Standard and Year (of Standard)</p> <p>Equivalence of Product Standards</p> <p>Certified By</p>	<p>FL12726</p> <p>New</p> <p>2007</p> <p>Approved</p> <p><input type="checkbox"/></p> <p>GAF Materials Corporation</p> <p>1361 Alps Road Wayne, NJ 07470 (973) 872-4421 bmcsorley@gaf.com</p> <p>Beth McSorley bmcsorley@gaf.com</p> <p>Beth McSorley</p> <p>1361 Alps Road - Bldg 11-1 Wayne, NJ 07470 (973) 872-4421 BMcSorley@gaf.com</p> <p></p> <p>Panel Walls</p> <p>Siding</p> <p>Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer</p> <p><input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received</p> <p>Robert Nieminen</p> <p>PE-59166</p> <p>Underwriters Laboratories Inc.</p> <p>03/01/2012</p> <p>John W. Knezevich, PE</p> <p><input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received</p> <p><a href="#">FL12726_RO_COI_Trinity_ERD_CI - Nieminen.pdf</a></p> <table border="0"> <thead> <tr> <th style="text-align: left;"><b>Standard</b></th> <th style="text-align: left;"><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>ACI 530</td> <td>2005</td> </tr> <tr> <td>ASCE 5</td> <td>2005</td> </tr> <tr> <td>TMS 402</td> <td>2005</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ACI 530	2005	ASCE 5	2005	TMS 402	2005
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ACI 530	2005								
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TMS 402	2005								





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**EVALUATION REPORT**

**GAF Materials Corporation**  
**1361 Alps Road**  
**Wayne, NJ 07470**

**Evaluation Report 01506.06.09**  
**FL12726**  
**Date of Issuance: 06/15/2009**

**SCOPE:**

This Evaluation Report is issued under Rule 9B-72 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 designed to comply with the 2007 Florida Building Code sections noted herein.

**DESCRIPTION: CanyonRock Premium Decorative Stone**

**LABELING:** Each unit shall bear labeling in accordance with the requirements 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 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. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

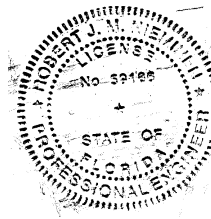
**ADVERTISEMENT:** The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

**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 06/15/2009. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

**CERTIFICATION OF INDEPENDENCE:**

1. Exterior Research & Design, LLC. d/b/a Trinity|ERD 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. Exterior Research & Design, LLC. d/b/a Trinity|ERD 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.

**PANEL WALLS - SIDING SYSTEMS EVALUATION:**

**1. SCOPE:**

**Product Category:** Panel Walls

**Sub-Category:** Siding – Adhered Masonry Veneer

**Compliance Statement:** CanyonRock Premium Decorative Stone, as produced by GAF Materials Corporation, has demonstrated compliance with the following sections of the Florida Building Code through testing and analysis 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>
1405.9	Physical Properties	ACI 530 / ASCE 5 / TMS 402	2005

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
Stork TCT (TST3306)	ACI 530 / ASCE 5 / TMS 402	325003.1	03/20/2006
ICC-ES (EVL2396)	AC51	ESR-1974	07/01/2007
UL (QUA1743)	Quality Control	File BQJT.R22143	04/21/2009

**4. PRODUCT DESCRIPTION:**

**4.1 CanyonRock Premium Decorative Stone** 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.

4.1.1 The veneer units have a maximum area of 720 in<sup>2</sup> with a maximum dimension of 36 inches, a thickness range of 7/8 to 2-5/8 in. and maximum weight of 15 lbs/ft<sup>2</sup>.

4.1.2 The veneer has a Class A finish rating when tested in accordance with ASTM E84 and an R-value of 0.85 when tested at a thickness of 1.0 inch in accordance with ASTM C518.

**5. LIMITATIONS:**

5.1 This Evaluation Report is not for use within the HVHZ.

5.2 Unless otherwise noted below, this Evaluation Report is limited to maximum 30 ft height of installation above the noncombustible foundation. Designs in excess of 30 ft shall be established by the Designer of Record and approved by the Authority Having Jurisdiction.

5.3 Direct-application substrates are limited to unsealed, unpainted, clean masonry and concrete. Other substrates, including wood sheathing, exterior wallboard, metal or wood framing, shall include water-resistive barrier per FBC Section 1404.2 (or equivalent) and metal lath in accordance with FBC Section 2510.

5.4 Wall substrates shall comply with the applicable FBC Sections.

## 6. INSTALLATION:

### 6.1 General

- 6.1.1 Adhered masonry veneer shall be installed in accordance with GAF published installation instructions, subject to the Limitations noted in Section 5 and the detailed information noted herein.
- 6.1.2 The veneer is adhered to the supporting substrate with a ½-inch to ¾-inch thick Type S mortar setting bed per FBC Table 2103.8(1).
- 6.1.3 The ambient temperature and that of the veneer must be 40°F or higher at the time of application.

### 6.2 Stud Construction Substrate:

- 6.2.1 Substrates include open studs spaced maximum 16" o.c., wood sheathing or gypsum board backed by studs spaced maximum 16" o.c. or existing exterior wall surfaces of plaster scratch coat, stucco or wood siding backed by wood sheathing with studs spaced maximum 16" o.c.
  - 6.2.1.1 Wood studs shall have a minimum specific gravity of 0.42.
  - 6.2.1.2 Steel studs shall be minimum 20 gauge [0.033-inch (0.84 mm)].
- 6.2.2 Studs and/or wood sheathing shall be covered with a water-resistive barrier per FBC 1404.2.
- 6.2.3 Weep screeds (per FBC 2512.1.2) and code-compliant flashing shall be installed at the bottom of the wall and at all horizontal terminations of the veneer.
- 6.2.4 A 2.5 lb/yd<sup>2</sup> galvanized, diamond mesh metal lath, or a 3.4 lb/yd<sup>2</sup>, 3/8-inch-thick rib, paper-backed, galvanized expanded metal lath (ASTM C847) shall be installed in accordance with GAF published requirements atop the water-resistive barrier.
  - 6.2.4.1 The lath or mesh shall be fastened to each of the wall studs maximum 6" o.c. vertically.
  - 6.2.4.2 Fasteners for wood studs shall be minimum 0.120-inch diameter with a minimum 3/8" diameter head galvanized nails or galvanized staples of sufficient length for minimum 1-3/8" embedment into the studs.
  - 6.2.4.3 Fasteners for steel studs shall be corrosion-resistant, self-drilling, self-tapping with a minimum 7/16-inch diameter pancake head of sufficient length for minimum 3/8" penetration through the studs.
- 6.2.5 A ½-inch to ¾-inch scratch coat of Type S mortar shall be applied over the lath or mesh and allowed to cure for not less than 24-hours prior to veneer application. The scratch coat shall be moistened prior to application of the mortar setting bed.
- 6.2.6 Apply the mortar setting bed to area not exceeding 10 ft<sup>2</sup>. The veneer is then lightly but firmly tapped into the mortar setting bed to ensure bond while the mortar remains soft and pliable. Alternatively, the veneer may be 'back-buttered' with each unit pressed into place.
  - 6.2.6.1 The mortar setting bed, whether applied to the scratch coat or in a 'back-butter' fashion, shall be of a thickness and consistency to allow mortar to be squeezed out around all edges of each veneer unit to assure a full bond.
- 6.2.7 All joints shall be tooled.

### 6.3 Concrete and Masonry Substrate:

- 6.3.1 For direct-bond applications, the substrate shall be unsealed and unpainted, free of dirt, debris or other bond-breaking material.

- 6.3.1.1 Painted, sealed or dirty concrete or masonry substrates shall be cleaned by sandblasting.
- 6.3.2 A ½-inch to ¾-inch scratch coat of Type S mortar shall be applied and allowed to cure for not less than 24-hours prior to veneer application. The scratch coat shall be moistened prior to application of the mortar setting bed.
- 6.3.3 Apply the mortar setting bed to area not exceeding 10 ft<sup>2</sup>. The veneer is then lightly but firmly tapped into the mortar setting bed to ensure bond while the mortar remains soft and pliable. Alternatively, the veneer may be 'back-buttered' with each unit pressed into place.
- 6.3.3.1 The mortar setting bed, whether applied to the scratch coat or in a 'back-butter' fashion, shall be of a thickness and consistency to allow mortar to be squeezed out around all edges of each veneer unit to assure a full bond.
- 6.3.4 All joints shall be tooled.

**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:**

Contact the named QA entity below for information on manufacturing locations covered to the QA requirements of F.A.C. Rule 9B-72.

**9. QUALITY ASSURANCE ENTITY:**

Underwriters Laboratories – QUA1743  
(847) 664-3281

**- END OF EVALUATION REPORT -**