

Date of Authorization
BMEC Authorization
BMEC Application

April 27, 2006
06-03-323
A2005-22

Authorization Report - CanyonRock™

1. Applicant

GAF Material Corporation
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2. Manufacturing Facilities

ICOT Ceramic Co Ltd
Dalan Industry District
Guanyao, Nanhai

Foshan City, Guangdong, China

3. Description

The CanyonRock™ Premium Decorative Stone (CanyonRock™) is a manufactured cementitious product that is designed and cast to simulate the appearance of natural stone in both colour and texture. CanyonRock™ products are manufactured in various shapes and sizes with irregular surfaces, which mimic those of natural stone. CanyonRock™ is made from a mix of Portland cement, light weight aggregates, air entrainment, and other admixtures. The surface of the CanyonRock™ has a water repellent coating.

4. Authorization Requested

The applicant sought a Building Materials Evaluation Commission (BMEC) authorization for the CanyonRock™ as an interior wall finish for use as a building material similar to those listed in Article 3.1.13.1. "Interior Finish Description" and in Section 9.29. "Interior Wall and Ceiling Finishes" of the Building Code; or as an acceptable material for use around fireplace openings as permitted by Sentence 9.22.9.1.(1) "Clearance of Combustible Materials" of the Building Code.

5. Assessment

Reports and assessments provided by the applicant show that if CanyonRock™ System is designed, performance tested and installed in accordance with the manufacturer's instructions and limitations and the specific terms and conditions stated in this authorization, the level of performance required by the Building Code will be provided.

The following is a list of the documents submitted, and reviewed, but are not limited to:

1. Test results ASTM C567 "Standard Test Method for Density of Structural Lightweight Concrete".
2. Test results ASTM C67 "Standard Test Method Sampling and Testing Brick and Structural Clay Tile".
3. Test results ASTM C39 "Standard Test Method for Compressive Strength in Cylindrical Concrete Specimens."
4. Test results ASTM C348 "Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars."
5. Test results ASTM C190 "Standard Test Method for Tensile Strength of Hydraulic-Cement Mortars."
6. Test results ASTM C482 "Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement."
7. Test results ASTM C1364 "Standard Specification for Architectural Cast Stone."
8. Test results ASTM C518 "Standard Test Method for Steady State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus."
9. Test results, Design Pressures, DCBCCO TAS 202 (Negative pressure only).
10. Test results, Large Missile Impact Test, TAS 201 ASTM E1886 and ASTM E1996.
11. Test results, Cyclic Load Test, TAS 203, ASTM E1886 and ASTM E1996.
12. Test results, Underwriters Laboratories Inc. ASTM E84, UL 723.
13. Test results, Underwriters Laboratories Canada S102 "Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies"
14. Test results, Underwriters Laboratories Canada, Non Combustibility Test S114 "Standard Method of Fire Test for Determination of non-Combustibility in Building Materials .

15. Manufacturer's Literature.
16. CanyonRock™ Installation Instructions, copyright © 2005.
17. Installation Drawings ST101 and ST102, issued 06/01/05.
18. Quality Control Manual for CanyonRock™, dated June 2005.
19. Correspondence, Underwriters' Laboratories of Canada, File R22143, dated March 9, 2006.

6. Authorization

The use of the CanyonRock™ is authorized as an acceptable interior wall finish for use as a building material similar to those listed in Article 3.1.13.1. "Interior Finish Description" and Section 9.29. "Interior Wall and Ceiling Finishes" of the Building Code; or as an acceptable material for use around fireplace openings as permitted by Sentence 9.22.9.1.(1) "Clearance of Combustible Materials", all other requirements pertaining to the design, installation and construction are subject to the regulations of the Building Code, and to the following terms and conditions:

Note: Although this authorization is specific to the interior use of the CanyonRock™ it does not preclude the exterior use of this product, where an alternative approval is obtained.

A. Specific Terms & Conditions

1. This authorization is valid only for GAF Material Corporation.
2. Subject to the specific terms and conditions, the CanyonRock™ is permitted for use with interior wall applications.
3. The CanyonRock™ is permitted to be installed on vertical surfaces.
4. The material, design and installation shall be in accordance with CanyonRock™ Installation Instructions, copyright © 2005.
5. Subject to the approval of the chief building official, the building's structure shall be sufficiently supported to transfer the design weight of the CanyonRock™ assembly.
6. The CanyonRock™ shall not be load bearing.

7. The CanyonRock™ is considered to be noncombustible for the purposes of 9.22.9.1. "Clearance of Combustible Materials", and permitted to be installed around fire place openings.
8. The CanyonRock™ shall not be installed in locations that are susceptible to moisture penetration, such as, but not limited to bathrooms, pools, or spa enclosures.

B. General Conditions

1. The use of CanyonRock™ as described in 6. A. Specific Terms and Conditions No. 1. must comply with the *Building Code Act, 1992* as amended or re-enacted from time to time and except as specifically authorized herein, with the Building Code as amended or remade from time to time.
2. A copy of this Authorization shall accompany each application for a building permit and shall be maintained on the site of the construction with the building permit.
3. The Applicant named in Part 1 hereof shall promptly notify the BMEC of:
 - (a) the failure of the Applicant, or of the material, system or building design that is the subject matter of this Authorization, to comply with any of the terms and conditions set out in 6. A. above; or
 - (b) the occurrence of any of the events described in Conditions 6. B. 4. (a) and (b) (ii) below.
4. The BMEC may amend or revoke this Authorization where it determines that:
 - (a) any change has been made to:
 - (i) the material, system or building design that is the subject matter of this Authorization;
 - (ii) the address of the applicant specified in Part 1 of this Authorization; or,
 - (iii) the ownership of the applicant specified in Part 1 of this Authorization.

- (b) the use of the material, system or building design authorized herein;
 - (i) does not comply with the *Building Code Act, 1992* or any relevant legislation as they may be amended or re-enacted from time to time; or
 - (ii) provides an unsatisfactory level of performance, in situ.
 - (c) the Applicant, or the material, system or building design that is the subject matter of this Authorization, has failed to comply with any of the terms and conditions set out in this Authorization; or
 - (d) any Building Code provision relevant to this Authorization has been amended or remade.
5. Where the BMEC receives additional information concerning the material, system or building design authorized herein, the BMEC may review this Authorization and the BMEC may after the review amend or revoke this Authorization as in the opinion of the BMEC may be necessary.

Dated at Toronto this 27 day of April 2006.

BUILDING MATERIALS EVALUATION COMMISSION

Edward Link, P. Eng.
Vice-Chair, BMEC