

**BUILDING MATERIALS EVALUATION COMMISSION
(BMEC)
AUTHORIZATION REPORT**

DATE OF AUTHORIZATION
BMEC REFERENCE
BMEC APPLICATION
DATE OF AMENDMENT (Contact Information Update)

January 25, 2001
BMEC 01-04-256
BMEC 2000-24
January 31, 2013

CULTURED STONE®

1. Applicant

Boral Stone Products LLC
2256 Centennial Road
Toledo, Ohio
43617, USA

Tel: 419 318-5345
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2. Manufacturing Facilities

Boral Stone Products LLC
350 Tower Road
Napa, California
94559 USA

Boral Stone Products
590 Ecology Lane
Chester, South Carolina
29706

3. Description

Cultured Stone® is a manufactured light-weight, noncombustible stone intended for setting in cementitious stucco and providing an alternative finish coat or stone dash in both exterior and interior finish applications.

4. Authorization Requested

The applicant sought authorization for the use of Cultured Stone® as an alternative finish veneer or "dash coat" acceptable under Section 9.28. of the Ontario Building Code.

5. Assessment

Reports reviewed include the following:

1. National Evaluation Service, Report No. NER-358, reissued May 1, 1996.

2. SPEC -DATA® 2000 and MANU-SPEC® 2000 - Reports of the Construction Specifications Institute.
3. TEI Consulting Engineers - Freeze Thaw Test - Jan. 16, 1989.
4. City of Los Angeles, General Approval - Research Report: RR 23744 - May 1, 1995.
5. Texas Department of Insurance - Product Evaluation Report EC-21 - March 4, 1996.
6. Intertek Testing Services NA Ltd. - Combustibility Testing in accordance with ULC/CAN4 S114-M80 - January 25, 2000.
7. TEI Consulting Engineers - Unit Weight Determination - January 16, 1989.
8. TEI Consulting Engineers - Compressive Strength Test - April 18, 1989.
9. TEI Consulting Engineers - Flexural Strength Test - April 18, 1989.
10. TEI Consulting Engineers - Tensile Strength Test - April 25, 1989.
11. TEI Consulting Engineers - Water Absorption Test(ASTM C-140) - August 6, 1990.
12. TEI Consulting Engineers - Shear Bond Test Between Scratch Coat and Type S Mortar - April 25, 1989.
13. TEI Consulting Engineers - Shear Bond Strength Test Between Cultured Stone and Concrete - April 25, 1989.
14. TEI Consulting Engineers - Shear Bond Test Between Mortar and Metal Lath - April 18, 1989.
15. TEI Consulting Engineers - Transverse Load Test on Cultured Stone Panel - November 8, 1990.
16. TEI Consulting Engineers - Efflorescence Test on Cultured Stone - August 11, 1990.
17. TEI Consulting Engineers - Water Absorption Test - August 30, 1988.
18. GEOSCIENCE LTD - Thermal Conductivity - December 2, 1994.
19. Underwriters Laboratories Inc. Report on Floor Protectors and Wall Shields - File MH11019 - June 24, 1980.

20. Intertek Testing Services NA Ltd. - Water Tightness Test on Cultured Stone Veneer Wall Mock-ups - February 7, 2000.
21. Basic Flashing Procedures.
22. Cultured Stone Manufacturer's Installation Instructions - Owens Corning 2/99 9000 A84E.
21. Tech Data Sheet.
22. Cultured Stone Product Selection Guide.
23. Cultured Stone Design Solutions Book.

6. Authorization

Cultured Stone® is authorized as an alternative finish coat or stone dash under Subsection 9.28.6. of the Ontario Building Code for both exterior and interior finish applications, subject to the following terms and conditions:

A. SPECIFIC TERMS AND CONDITIONS:

1. This Authorization is valid only for Cultured Stone®, a Division of Owens Corning Inc.
2. When used as an exterior finish coat attached to wood-frame construction, Cultured Stone® may only be installed to a maximum height of 10 m above grade.
3. Cultured Stone® shall not be used below grade and in locations subject to continuous usage under water.
4. Cultured Stone® shall be installed in accordance with the Cultured Stone® Manufacturer's Installation Instructions:
 - a) Owens Corning 2/99 9000 A84E,
 - b) SPEC-DATA® 2000 # 04720, and
 - c) MANU-SPEC® 2000 # 04700.
5. Notwithstanding Condition 4. above:
 - a) not less than 2 base coats of stucco shall be applied and the Cultured Stone® shall be applied into the outer base coat layer,

- b) individual Cultured Stones shall not exceed:
 - i) 75 mm in thickness, and
 - ii) 750 mm in its longest dimension.

B. GENERAL CONDITIONS

1. The use of Cultured Stone® 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 Ontario Building Code as amended or remade from time to time.
2. A copy of this Authorization shall be included with an application for a building permit and shall be posted and maintained on the site of the construction with the building permit.
3. The Applicant named in Section 1a. 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 Section 6. A. above; or
 - (b) the occurrence of any of the events described in Sections 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 Section 1a. of this Authorization; or,
 - (iii) the ownership of the applicant specified in Section 1a. 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 Section 6. A. above; or
- (d) any Ontario Building Code provision relevant to this Authorization has been amended or remade.

Dated at Toronto this 25th day of January 2001.

BUILDING MATERIALS EVALUATION COMMISSION

Rashmi Nathwani, Chair