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**Building Materials Evaluation
Commission**

**Commission d'évaluation des
matériaux de construction**

BMEC AUTHORIZATION: 19-01-387 Cedar Breather®

Date of Authorization: June 27, 2019
Date of Expiry¹: June 27, 2024

1. Applicant

Benjamin Obdyke Incorporated
400 Babylon Road
Suite A
Horsham, PA
19044, USA

Tel: 215 672-7200
Fax: 215 672-5204
Web: www.benjaminobdyke.com

2. Manufacturing Facility

Low & Bonar
PO Box 1057
1301 Sand Hill Road
Enka, NC
28728, USA

3. Authorization

The Cedar Breather® may be used as a roof ventilation underlayment that may prolong the life of wood shingles and shakes on roofs by providing a continuous air circulation and drainage space that prevents the damaging effects of trapped moisture between the solid roof deck and shingles.

The Cedar Breather® is a black nylon matrix formed into a three-dimensional dimpled mat in a rolled form. The Cedar Breather® roll is provided in 1 m (39.4 in.) wide, 6.9 mm (0.27 in.) thick, and 18.75 m (61.5 ft.) long roll.

There are no requirements in the Building Code for ventilation between roofing and roof sheathing. Reports and assessment provided by the applicant demonstrate that if the Cedar Breather® is manufactured, designed, installed, and maintained in accordance with the manufacturer's instructions and limitations, and the specific terms and conditions

¹ This Authorization expires on the date shown. It is the responsibility of Authorization holders to make a complete application considering the time for review and complexity of the new application.

stated in this authorization, the use of Cedar Breather® is not a contravention of the Building Code.

All other requirements pertaining to the manufacturing, design, construction, installation and maintenance are subject to the requirements of the Building Code, and subject to the following terms and conditions contained in 4 and 5 below:

4. Specific Terms and Conditions

1. This Authorization is valid only for Benjamin Obdyke Incorporated's Cedar Breather®;
2. The Cedar Breather® shall only be used in the construction of Part 9 buildings;
3. The Cedar Breather® shall only be used with cedar shakes and shingles;
4. The Cedar Breather® shall not be used with furring or strapping;
5. The Cedar Breather® shall be installed on solid plywood sheathing with a minimum thickness of 12.7mm;
6. The Cedar Breather® shall be installed per the manufacturer's installation manual, Benjamin Obdyke's *Installation Instructions*, version 1, 2017.
7. In addition, roof assemblies using Cedar Breather® shall be installed with a screen consistent with fly screen on the roof line where the edges are exposed and at the eave to prevent entry of insects, birds and vermin;
8. Cedar Breather® may only be installed where there is a roof slope as per Table 9.26.3.1.(1) of the Building Code;
9. The Cedar Breather® layers shall be installed using butt joints;
10. The exposed Cedar Breather® shall not be walked on after it has been installed;
11. When using the Cedar Breather® with cedar shakes and shingles, the Cedar Breather® shall be tacked or nailed, dimpled side down, every 0.28 m² (3 ft²).
12. Cedar shakes and shingles installed over the Cedar Breather®, shall be fastened using nails, that comply with Sentence 9.26.2.2.(4) of the Building Code, and that will penetrate a minimum of 19 mm (¾ in.) into, or completely through the plywood sheathing,
13. When using the Cedar Breather® with cedar shakes and shingles, the roofing felt shall extend 0.635 mm (¼ in.) beyond the roof deck; and
14. Cedar Breather® is not to be used with more than two layers of ice or water shield.

5. General Conditions

1. The use of the Cedar Breather® as described in Section 3. and the Specific Terms and Conditions set out in Section 4 must comply with:
 - (a) the *Building Code Act, 1992*, (the “Act”) as amended or re-enacted,
 - (b) except as specifically authorized herein, the Building Code as amended or remade, and
 - (c) all other applicable legislation.
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 specified in Section 1. shall promptly notify the BMEC of:
 - (a) the failure of the Applicant to comply with any of the Specific Terms and Conditions set out in Section 4,
 - (b) the failure of the material, system or building design that is the subject matter of this Authorization to
 - (i) comply with any of the Specific Terms and Conditions set out in Section 4, or
 - (ii) provide a satisfactory level of performance in situ, or
 - (c) the occurrence of any of the events described in General Conditions 5.4.(a), (b), (e) or (f).
4. The BMEC may amend or revoke this Authorization at any time on its own initiative, or at the request of the Applicant specified in Section 1. Without restricting the foregoing, the BMEC may amend or revoke this Authorization where it determines that:
 - (a) any change has been made to:
 - (i) the name of the Applicant specified in Section 1,
 - (ii) the address or other contact name information of the Applicant specified in Section 1,
 - (iii) the ownership of the Applicant specified in Section 1,
 - (iv) the manufacturing facilities specified in Section 2,
 - (v) the material, system, or building design that is the subject matter of this Authorization, or
 - (vi) a test method relevant to this Authorization,
 - (b) the Applicant has failed to comply with any of the terms and conditions set out in this Authorization,
 - (c) in the opinion of the BMEC, the use of the material, system or building design authorized herein provides an unsatisfactory level of performance in situ,
 - (d) in the opinion of the BMEC, amendment or revocation of the Authorization is appropriate on the basis of potential danger to public health and safety,
 - (e) the *Act* or Building Code has been amended, re-enacted or remade in a manner relevant to this Authorization,
 - (f) this Authorization was issued on mistaken, false or incorrect information, or
 - (g) a revision of an editorial nature is appropriate.

Dated at Toronto this 27th day of June 2019

BUILDING MATERIALS EVALUATION COMMISSION

A handwritten signature in black ink, appearing to read "Leo Grellette", with a long horizontal flourish extending to the right.

Leo Grellette
Chair, Building Materials Evaluation Commission

ENCLOSURES: APPENDIX A - SUPPORTING INFORMATION

Appendix A – Supporting Information

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

1. Application Form, Building Materials Evaluation Commission, dated August 2, 2018 (5 pages);
2. Manual, Cedar Shake and Shingle Bureau, “New Roof Construction Manual”, dated June 2014, 28 pages;
3. Letter from Benjamin Obdyke Inc. to the BMEC, Subject: Certification and Analysis, dated August 2, 2018;
4. Letter from Benjamin Obdyke Inc. to the BMEC, Subject: Canadian Construction Materials Centre, dated August 2, 2018;
5. Letter from Benjamin Obdyke Inc. to the BMEC, Subject: Consent, dated February 28, 2013;
6. Letter Report, Morrison Hershfield, “Re: Code Compliance Review of Benjamin Obdyke Incorporated Product: Cedar Breather”, dated February 27, 2013;
7. Manufacturer’s Literature, Brochure, Benjamin Obdyke Inc., Benjamin Obdyke Roof and Wall Products, Wood Roofing Underlayment, Cedar Breather® Brochure, ©2016, LTCB printed 11/16;
8. Manufacturer’s literature, Benjamin Obdyke Inc., “Installation Instructions Cedar Breather®”, 1/2017, 9 pages;
9. Manufacturer’s Literature, Benjamin Obdyke Inc., Cedar Breather® Technical Summary, 1 page;
10. Test Report, Southwest Research Institute to Benjamin, ASTM E 108-04 Evaluation of External Fire Resistance of Roofing Assemblies using Benjamin Obdyke’s Nylon Cedar Breather® Product With Chemco’s Class A Cedar Shingles, SwRI® Project Report No. 01.10934.01.215a, dated April 10, 2006; 34 pages;
11. Test Report, PRI Asphalt Technologies, “Evaluation of Benjamin Obdyke Inc. Cedar Breather® Long Term Exposure of Cedar Shake Test Decks Fabricated With and Without Cedar Breather®”, dated February 5, 2003, 4 pages;
12. Test Report, Bodycote Materials Testing Canada Inc., “Airflow Evaluation of Cedar Breather® Underlayment for Wood Roofing”, Report No 02-06-M0330 Rev.2, dated February 24, 2003, 10 pages;

13. Test Report, Bodycote Materials Testing Canada Inc., "Compressive Properties of Cedar Breather® Product In Accordance with ASTM C165-00", Report No 03-06-M0013 (Revision 1), dated February 11, 2003, 2 pages;
14. Test Report, Bodycote Materials Testing Canada Inc., "ASTM E 84 Surface Burning Characteristics "Cedar Breather®" Roof Underlayment", Report No 02-02-226(A), dated May 8, 2002, 3 pages;
15. Manufacturer's Literature, Cedar Breather® Class A Fire Rating, 1 page);
16. Manufacturer's Literature, Benjamin Obdyke Inc., "Division 7 Thermal & Moisture Protection Section 07 72 00: Roof Accessories Roof Ventilation Underlayment", 4 pages;
17. Technical Bulletin, New York State Department of State-Division of Code Enforcement and Administration, Subject: Alternative Materials, Design and Methods of Construction and Equipment, dated January 1 ,2003, 2 pages;
18. Letter from Benjamin Obdyke Inc. to the BMEC, Subject: BMEC Application Written Response Follow-up, dated December 13, 2018;
19. Letter from Benjamin Obdyke Inc. to the BMEC, Subject: BMEC Application Written Response Follow-up Part 2, dated January 15, 2019;
20. Letter Report, Morrison Hershfield, "Re: Updated Code Compliance Review of Benjamin Obdyke Incorporated Product: Cedar Breather®", dated February 21, 2019 and;
21. Letter from Benjamin Obdyke Inc. to the BMEC, Subject: BMEC Application Written Response Follow-up April 2019, dated April 30, 2019.