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## **BMEC AUTHORIZATION: 14-02-368**

### **Ventgrid<sup>12</sup> ventilation layer for use beneath wood roof shingles, cedar roof shakes, and sheet metal roofing**

**Date of Authorization:** January 30, 2014  
**Date of Expiry<sup>1</sup>:** January 30, 2019  
**Date of Revision:** February 23, 2017 (contact information and drawing update)

#### **1. Applicant**

Ventgrid Inc.  
4073 Highway #3  
P.O. Box 959  
Chester, Nova Scotia  
B0J 1J0

Tel: 902 273-3051  
Fax: 902 273-3072  
Web: [www.ventgrid.com](http://www.ventgrid.com)

#### **2. Manufacturing Facility**

P.O. Box 474  
Building #3W  
Northam Industrial Park  
Cobourg, Ontario  
K9A 4L1

#### **3. Authorization**

The Ventgrid<sup>12</sup> is a 50 mm square grid patterned 12 mm thick high-density polyethylene rigid sheet.

6 mm long stand-off studs are provided in a corresponding 50 mm square grid pattern to provide cross ventilation below wood roof shingles, cedar roof shakes, and sheet metal roofs.

Additional descriptive information is provided in documents supplied by the applicant listed in Appendix A.

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<sup>1</sup> 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.

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 Ventgrid<sup>12</sup> is manufactured, designed, installed, and maintained in accordance with the manufacturer's instructions and limitations, and the specific terms and conditions stated in this authorization, the use of Ventgrid<sup>12</sup> shall be deemed to not be a contravention of the Building Code.

The Ventgrid<sup>12</sup> is authorized as part of an optional additional layer in a roof assembly within the scope of Subsections 9.26.9. "Wood Roof Shingles", 9.26.10. "Cedar Roof Shakes", and 9.26.13."Sheet Metal Roofing", within Part 9 "Housing and Small Building" of Division B of the Building Code; all other requirements pertaining to the construction and installation 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 Ventgrid Inc.'s Ventgrid<sup>12</sup>;
2. The Ventgrid<sup>12</sup> shall be used only in the construction of Part 9 buildings;
3. The Ventgrid<sup>12</sup> shall be used only with wood roof shingles, cedar roof shakes, or sheet metal roofing;
4. The Ventgrid<sup>12</sup> shall not be used in addition to furring or strapping;
5. The Ventgrid<sup>12</sup> shall be installed on solid sheathing that meets the minimum thickness set out in Article 9.23.15.7. "Thickness or Rating", of Division B of the Building Code;
6. In addition, roof assemblies using Ventgrid<sup>12</sup> shall be installed with Ventrim<sup>20</sup> on the roof line where the edges are exposed and at the eave to prevent entry of insects, birds and vermin;
7. The Ventgrid<sup>12</sup> layer shall be installed using butt joints with gaps in accordance with Ventgrid Inc.'s "Installation Guide", dated February 1, 2012;
8. The Ventgrid<sup>12</sup> layer shall be fastened in accordance with Ventgrid Inc.'s "Installation Guide", dated February 1, 2012; and
9. Wood roof shingles, cedar roof shakes, or sheet metal roofing installed over the Ventgrid<sup>12</sup> shall be fastened using nails and screws that will penetrate a minimum of 12 mm (½ in.) into, or completely through the sheathing.

#### 5. General Conditions

1. The use of the Ventgrid<sup>12</sup> 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 2,
    - (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 30<sup>th</sup> day of January 2014

On behalf of the Building Materials Evaluation Commission,

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Gerald R. Genge, P. Eng., C.Eng., BDS, BSSO, C.Arb., Q.Med.  
Vice-Chair, Building Materials Evaluation Commission

## Appendix A – Supporting Information

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

1. Manual, Cedar Shake & Shingle Bureau, “New Roof Construction Manual”, undated, 1 page;
2. Technical Bulletin, Cedar Shake & Shingle Bureau, “Asphalt-Saturated Organic Felt: Cedar Roof Underlayment, Interlayment and Eave Protection”, dated 07/03, 2 pages;
3. Manual, Ventgrid Inc., “Installation Guide”, dated February 1, 2012, 2 pages;
4. Drawings, Ventgrid Inc., “Roof Edge Detail”, 1 page;
5. Drawings, Ventgrid Inc., drawing VG12-800, “Roof Detail: Ventgrid12™ & Ventrim 20™”, 1 page;
6. Drawings, Ventgrid Inc., “Open Valley Roof Detail: Ventgrid 12™”, 1 page;
7. Manual, Horizon Plastic International, “Quality Assurance Specification: VentGrid”, dated December 1, 2011, 2 pages;
8. Test Report, ABLE Engineering Services Inc., Andre Veinotte, P.Eng’s Letter Report, dated, July 11, 2013, 4 pages;
9. Powerpoint Presentation, “Horizon Plastic International”, undated, 26 pages;
10. Material Safety Data Sheet, Nova Chemicals®, “SCLAIR® Polythlene – Not Coloured (all grades)”, MSDS ID: Nova-0031, dated June 25, 2010, 9 pages;
11. Letter from ABLE Engineering Services Inc. to the BMEC, dated November 20, 2013;
12. Letter from ABLE Engineering Services Inc. to the BMEC, dated December 20, 2013;
13. Technical Data, UL IDES Prospector, “Generic HDPE: High Density Polyethylene: Generic”, dated November 22, 2013, 4 pages; and