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CCMC 12693-R

CCMC

EVALUATION
REPORT

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|-------------------|------------|
| DIVISION | 07552 |
| Issued | 1995-08-17 |
| Re-evaluated | 1999-02-19 |
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Vycor® Ice & Water Shield®

W. R. Grace & Co.
62 Whittemore Avenue
Cambridge, Massachusetts
U.S.A. 02140-1692

Tel.: (617) 498-4932
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Plant: W. R. Grace & Co.
6051 W. 65th Street
Bedford Park, Illinois
U.S.A.

1. Purpose of Evaluation

The manufacturer sought confirmation from the Canadian Construction Materials Centre (CCMC) that "Vycor® Ice & Water Shield®" can serve as an eave protection conforming to the intent of the National Building Code of Canada (NBC).

This report contains no endorsement, warranty, or guarantee, expressed or implied, on the part of NRC. NRC accepts no responsibility for the performance of any product or system described herein if manufactured and/or used outside the purpose of this evaluation report.

2. Opinion

Tests results provided by the manufacturer show that "Vycor® Ice & Water Shield®" complies with CCMC's Technical Guide for Eave Protection, Self-Sealing Modified Bituminous Coated Material, Masterformat number 07552, dated 97-07-30. If the product is used in accordance with the limitations and conditions stated in this report "Vycor® Ice & Water Shield®" provides a level of performance equivalent to that required by:

- National Building Code of Canada 1995, Clause 9.26.5.2.(1)(d).

Canada Mortgage and Housing Corporation permits the use of this product in construction financed or insured under the National Housing Act.

3. Description

"Vycor® Ice & Water Shield®" is a self-adhering, polymer modified bituminous membrane, integrally bonded on one side to an embossed polyethylene film. The membrane incorporates a 3 mm edge bead of the modified bituminous membrane extending beyond the polyethylene film.

The eave protection is black, with a 1.0 mm minimum thickness, and available in rolls 22.9 m long and 914 mm wide. Silicone release paper is applied to the

back of the sheet. “Vycor® Ice & Water Shield®” is shown in Figure 1.

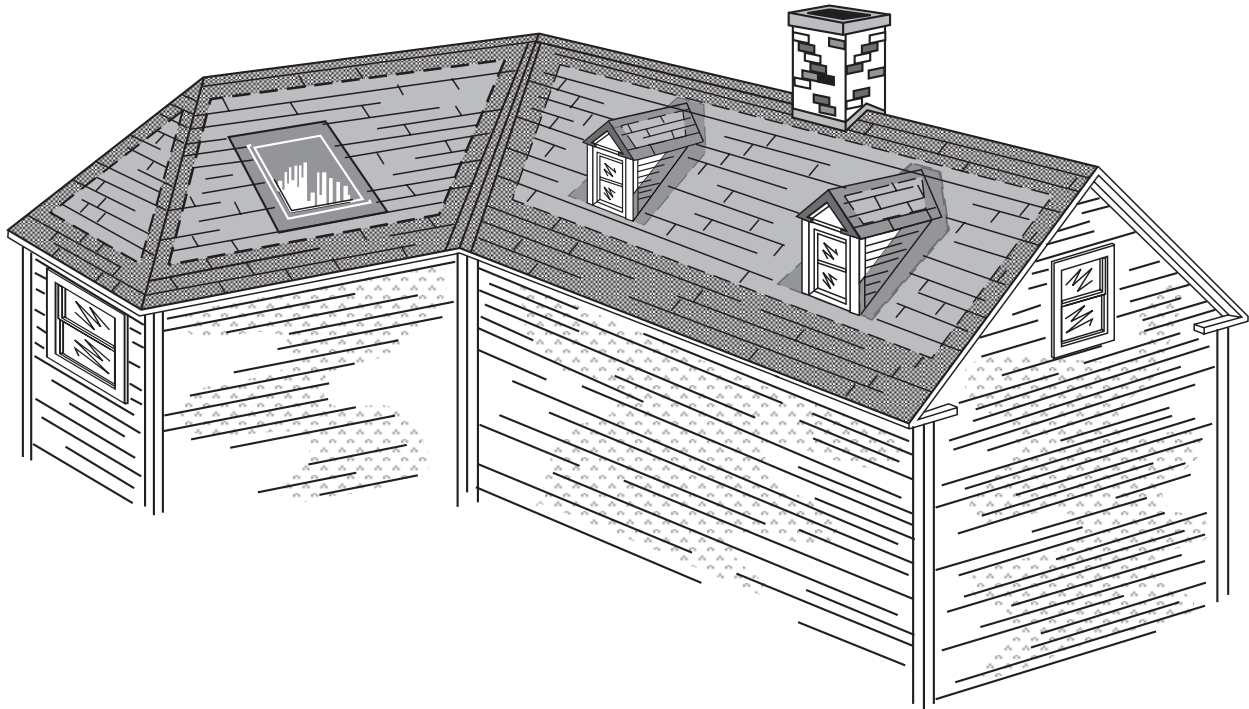


Figure 1. Vycor® Ice & Water Shield®

4. Usage and Limitations

“Vycor® Ice & Water Shield®” product may be used as an eave protection material under shingle, shake or tile roofs, provided that it is installed according to the manufacturer’s current instructions.

“Vycor® Ice & Water Shield®” may also be used under hips and ridges, flashings and other roof system penetrations.

“Vycor® Ice & Water Shield®” must be installed on a clean, dry, and smooth surface. The air and surface temperatures must be above 4°C.

This product or its wrapping must be identified with the following information:

- manufacturer’s name or logo; and
- the phrase CCMC # 12693-R.

5. Performance

Testing was conducted at an independent laboratory recognized by CCMC.

The corresponding test results for “Vycor® Ice & Water Shield®” are summarized in Table 1.

Table 1. Test Results for Vycor® Ice & Water Shield®

| Property | Unit | Requirement | Results |
|---|-------------------------|-------------|-----------------------|
| Thickness | mm | ≥ 1.0 | 1.05 |
| Load and elongation at break (MD/XD) | kN/m | ≥ 3.5 | 4.36 MD |
| | | | 5.38 XD |
| | % | ≥ 10 | 488 MD 247 XD |
| Adhesion to plywood at 4.5°C | N/m | ≥ 30 | 735 |
| Water absorption and dimensional change (MD/XD) | g | ≤ 1.0 | 0.093 |
| | % | ± 1.0 | -0.008 MD -0.23 XD |
| Thermal stability (flow at 70°C) | mm | ≤ 3.0 | 0.5 |
| Flexibility at -29°C | | No cracking | Pass |
| Waterproof integrity after flexibility testing | | No leaking | Pass |
| Tear resistance (MD/XD) | N | ≥ 89.0 | 120 MD |
| | | | 147 XD |
| Self sealability | | No leaking | Pass |
| Water vapour transmission | ng/Pa·s·m ² | ≤ 5.7 | 0.91 |
| Waterproof integrity at seam | | No leaking | Pass |
| Slip resistance | coefficient of friction | ≥ 0.35 | 0.97 |

For more information contact:

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John Berndt, P.Eng.
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Note: Readers are asked to refer to limitations imposed by NRC on the interpretation and use of this report. These limitations are included in the introduction to CCMC's Registry of Product Evaluations, of which this report is part.

Readers are advised to confirm that this report has not been withdrawn or superseded by a later issue by contacting the Canadian Construction Materials Centre, Institute for Research in Construction, National Research Council of Canada, Montreal Road, Ottawa, K1A 0R6; Telephone (613) 993-6189, Fax (613) 952-0268.