

CCMC 06666-R

CCMC Canadian code compliance evaluation

CCMC number:	06666-R
Status:	Active
Issue date:	1984-08-16
Modified date:	2023-11-08
Evaluation holder:	<p>3A Composites USA Inc. 721 Jetton St., Suite 325 Davidson NC 28036 United States Website: 3acompositesusa.com/ Telephone: 1-800-626-3365 Email: info.usa@3acomposites.com</p>
Product name:	Fome-Cor®Board
Compliance:	NBC 2015
Criteria:	CCMC-TG-061653.01-15, "CCMC Technical Guide for Sheathing, Panel Membrane, Breather-Type"

In most jurisdictions this document is sufficient evidence for approval by Canadian authorities.

[Learn more about CCMC recognition](#) [Look for the trusted CCMC mark on products to verify compliance.](#)

Compliance opinion

It is the opinion of the Canadian Construction Materials Centre that the evaluated product, when used as a breather-type sheathing membrane under commonly used types of exterior cladding (except stucco) and brick veneer in accordance with the conditions and limitations stated in this evaluation, complies with the following code:

National Building Code of Canada 2015

Code provision	Solution type
9.27.3.2. Sheathing Membrane Material Standard	<u>Alternative</u>
9.27.3.3. Required Sheathing Membrane and Installation	<u>Alternative</u>

The above opinion(s) is/are based on the evaluation by the CCMC of technical evidence provided by the evaluation holder, and is bound by the stated conditions and limitations. For the benefit of the user, a summary of the technical information that forms the basis of this evaluation has been included.

Product information

Product name

Fome-Cor®Board

Product description

The product consists of 6.4-mm-thick extruded polystyrene laminated between two layers of kraft paper. The product is available in widths up to 2 438 mm and is fan-folded into various configurations from 610 mm to 1 219 mm. One bundle of the product provides a continuous length of up to 128 m.

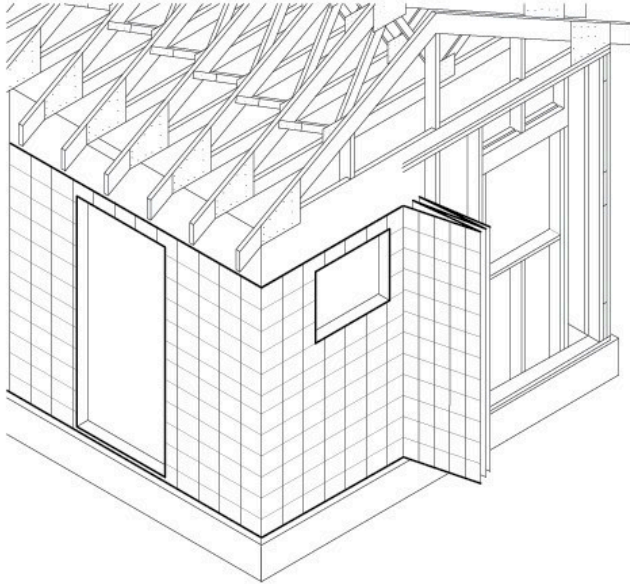


Figure 1. Application of the product as a sheathing material

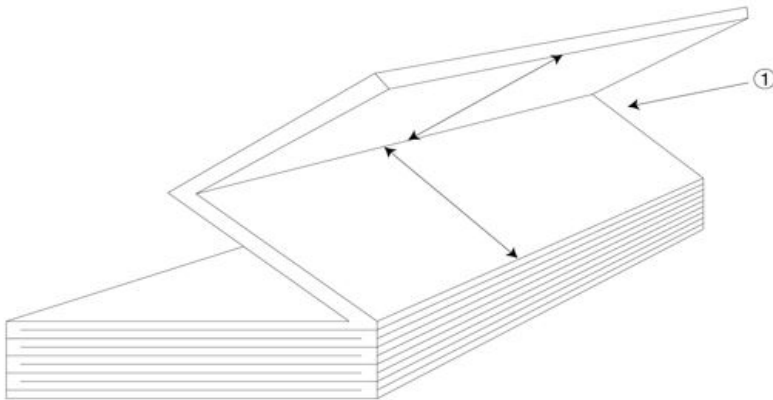


Figure 2. Fome-Cor® Board bundle

1. Various configurations from 610 mm to 1 219 mm

Manufacturing plant

This evaluation is valid only for products produced at the following plant:

Product name	Manufacturing plant
	Glasgow, KY, US
Fome-Cor®Board	☑

☑ Indicates that the product from this manufacturing facility has been evaluated by the CCMC

Conditions and limitations

The CCMC's compliance opinion is bound by this product being used in accordance with the conditions and limitations set out below.

- The product must be installed with the printed side facing outward and must be protected from exposure to ultraviolet (UV) radiation from the sun within 60 days of application to the wall.
- The product must be installed in accordance with Article 9.27.3.3., Required Sheathing Membrane and Installation, of Division B of the NBC 2015 and the manufacturer's current instructions.
- A minimum 10-mm air space must be ensured between the product and the cladding.
- Any concealed air space exceeding 25 mm in width must contain proper fire blocking in accordance with Subsection 9.10.15., Spatial Separation Between Houses, of Division B of the NBC 2015.
- The product must be covered with cladding that meets the material and installation requirements of the NBC 2015.
- When the product is used as a re-siding underlayment over existing cladding:
 - all the conditions and limitations stated above apply, as the product also acts as a sheathing membrane;
 - the existing exterior walls being reclad with new cladding and the product must meet the requirements of the NBC 2015 for heat transfer, air leakage, and condensation control (see [explanatory information](#) below); and
 - the new cladding must be either securely fastened through the structure directly or attached to the existing siding if adequate rigidity and support are being provided.

Explanatory information

The product may be used as re-siding underlayment provided it is properly installed with knowledge of the existing wall configuration and performance. The possibility of moisture accumulation within the wall construction is mainly a function of the physical properties of the additional materials being installed and their impact on the air leakage, vapour diffusion, and thermal characteristics of the existing wall. Consequently, the potential moisture accumulation resulting from the addition of materials is very specific to the existing wall construction being modified.

The product must be clearly identified with the manufacturer's name and logo, the product's brand name, and the phrase "CCMC 06666-R."

Technical information

This evaluation is based on demonstrated conformance with the following criteria:

Criteria number	Criteria name
CCMC-TG-061653.01-15	CCMC Technical Guide for Sheathing, Panel Membrane, Breather-Type

The evaluation holder has submitted technical documentation for CCMC evaluation. Testing was conducted at laboratories recognized by the CCMC. The corresponding technical evidence for this product is summarized below.

Prescriptive requirements

Table 1. Results of testing the performance properties of the product

Property	Unit	Requirement	Result
Tensile strength of original sample	N/mm	≥ 3.5	23.8 MD 15.9 XD (1)
Water vapour permeance (WVP) of original sample	ng/(Pa·s·m ²)	$170 \leq \text{WVP} \leq 1400$	337
Water ponding of original sample	-	No leakage	No leakage
Tensile strength after UV exposure	% retention of original	≥ 90	87 (2)
Tensile strength after heat aging of UV-exposed specimens	% retention of original	≥ 85	85
Water vapour permeance (WVP) of UV-exposed and heat-aged specimens	ng/(Pa·s·m ²)	$170 \leq \text{WVP} \leq 2900$	447
Water ponding of UV-exposed and heat-aged specimens	-	No leakage	No leakage

Notes

- 1 MD: machine direction; XD: cross direction
- 2 The product exhibited greater loss in tensile strength after UV exposure than the prescribed allowable loss. However, the performance was deemed a pass because the slightly greater percent loss in strength was not considered significant when compared to the product's high unaged tensile strength.

Administrative information

Use of Canadian Construction Materials Centre (CCMC) assessments

This assessment must be read in the context of the entire [CCMC Registry of Product Assessments](#), any applicable building code or by-law requirements, and/or any other regulatory requirements (for example, the [Canada Consumer Product Safety Act](#), the [Canadian Environmental Protection Act](#), etc.).

It is the responsibility of the user to confirm that the assessment they are using is current and has not been withdrawn or superseded by a later version on the [CCMC Registry of Product Assessments](#).

Disclaimer

The National Research Council of Canada (NRC) has evaluated only the characteristics of the specific product described herein. The information and opinions in this evaluation are directed to those who have the appropriate degree of experience to use and apply its contents (such as authorities having jurisdiction, design professionals and specifiers). This evaluation is valid when the product is used as part of permitted construction, respecting all conditions and limitations stated in the evaluation, and in accordance with applicable building codes and by-laws.

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Language

Une version française de ce document est disponible.

In the case of any discrepancy between the English and French version of this document, the English version shall prevail.

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CCMC recognition

The Canadian Construction Materials Centre (CCMC) assesses compliance with Canadian building, energy and safety codes. We are the only construction code compliance service supported and operated by the Government of Canada. Trusted by over 6,000 regulators across Canada.

Most Canadian authorities having jurisdiction (AHJs) consider CCMC product assessments acceptable as evidence for product approval.

CCMC assessments are recognized by construction authorities across Canada:

Alliance of Canadian Building Official Associations (ACBOA)



[\(Alliance of Canadian Building Official Associations \(ACBOA\)\)](#)

First Nations National Building Officers Association (FNNBOA)



[\(First Nations National Building Officers Association \(FNNBOA\)\)](#)

Canadian Home Builders' Association (CHBA)



[\(Canadian Home Builders' Association \(CHBA\)\)](#)

Alberta Building Officials Association (ABOA)



[\(Alberta Building Officials Associations \(ABOA\)\)](#)

Saskatchewan Building Officials Association (SBOA)



[\(Saskatchewan Building Officials Association \(SBOA\)\)](#)

Manitoba Building Officials Association (MBOA)



[\(Manitoba Building Officials Association \(MBOA\)\)](#)

Ontario Building Officials Association (OBOA)



[\(Ontario Building Officials Association \(OBOA\)\)](#)

New Brunswick Building Officials Association (NBBOA)



[\(New Brunswick Building Officials Association \(NBBOA\)\)](#)

Nova Scotia Building Officials Association (NSBOA)



[\(Nova Scotia Building Officials Association \(NSBOA\)\)](#)

The CCMC provides code compliance assessments to Canadian code requirements, consulting nationwide with construction regulators to elicit regional variations in code requirements as well as provincial and local interpretations. Users are advised to review the technical information presented in CCMC assessments when making approval decisions. [Learn more about how the CCMC provides a unique service for Canada.](#)

For more information, contact the CCMC by phone at (613) 993-6189 or by email at ccmc@nrc-cnrc.gc.ca

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- it represents the information as it was available at the time of downloading, and
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Code compliance as an acceptable solution

Code Compliance via Acceptable Solutions

If a building design (e.g. material, component, assembly or system) can be shown to meet all provisions of the applicable **acceptable solutions** in Division B (e.g. it complies with the applicable provisions of a referenced standard), it is deemed to have satisfied the objectives and functional statements linked to those provisions and thus to have complied with that part of the Code.

— National Building Code of Canada, Sentence A-1.2.1.1.(1)(a)

The CCMC has determined that compliance with this provision of the Code has been demonstrated as an **Acceptable Solution**. The evaluation report provides a summary of the basis of CCMC's compliance opinion.

CCMC's code compliance opinions

All CCMC evaluation reports are opinions of code compliance established in accordance with the National Building Code of Canada, Subsection 1.2.1. "Compliance with this Code," which requires compliance to be achieved by:

- complying with the applicable acceptable solutions in Division B, or
- using an alternative solution that will achieve at least the minimum level of performance required by Division B in the areas defined by the objective and functional statements attributed to the applicable acceptable solutions.

The CCMC assesses compliance with Canadian building, energy and safety codes, and is trusted by over 6,000 regulators across Canada.

Code compliance as an alternative solution

Code Compliance via Alternative Solutions

Where a design differs from the acceptable solutions in Division B, then it should be treated as an **"alternative solution."** A proponent of an alternative solution must demonstrate that the alternative solution addresses the same issues as the applicable acceptable solutions in Division B and their attributed objectives and functional statements. However, because the objectives and functional statements are entirely qualitative, demonstrating compliance with them in isolation is not possible. Therefore, Clause 1.2.1.1.(1)(b) identifies the principle that Division B establishes the quantitative performance targets that alternative solutions must meet. In many cases, these targets are not defined very precisely by the acceptable solutions [...] Nevertheless, Clause 1.2.1.1.(1)(b) makes it clear that an effort must be made to demonstrate that an alternative solution will perform as well as a design that would satisfy the applicable acceptable solutions in Division B—not “well enough” but “as well as.”

— National Building Code of Canada, Sentence A-1.2.1.1.(1)(b)

The CCMC has determined that compliance with this provision of the Code has been demonstrated as an **Alternative Solution**. The evaluation report provides a summary of the basis of CCMC's compliance opinion.

CCMC's code compliance opinions

All CCMC evaluation reports are opinions of code compliance established in accordance with the National Building Code of Canada, Subsection 1.2.1. "Compliance with this Code," which requires compliance to be achieved by:

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