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Canadian Construction  
Materials Centre

Centre canadien de  
matériaux de construction

**NRC - CNRC**

6508/06666-R  
A1-009478

28 October 2016

**PRIORITY POST**

Ms. Sandy Roberts  
Marketing Services Manager  
3A Composites U.S.A., Inc.  
3480 Taylorsville Hwy  
Statesville, NC 28625  
U.S.A.

Dear Ms. Roberts:

Thank you for working with the Canadian Construction Materials Centre (CCMC), Canada's official evaluation service supporting building officials and the construction industry since 1988.

We are pleased to inform you that the re-evaluation of your product "**Fome-Cor® Board**", has been successful and that the attached Evaluation Report, Number **06666-R**, has been prepared by CCMC.

Please communicate your acceptance of this Report by signing and dating the attached approval form and returning it by mail, fax or e-mail to CCMC. **We must receive this signed approval**, before we can post your CCMC Report **06666-R** as enclosed, on our CCMC Web Site "Registry of Product Evaluations" ([http://www.nrc-cnrc.gc.ca/eng/solutions/advisory/ccmc/registry\\_product\\_evaluations.html](http://www.nrc-cnrc.gc.ca/eng/solutions/advisory/ccmc/registry_product_evaluations.html)) at the next quarterly update, or make it available to the public. If we do not receive a response within three months, we will assume you are no longer interested and will cancel your CCMC number.

To remain valid, this report must be renewed on an annual basis and the product must be re-evaluated at 3 year intervals. CCMC will renew your report annually on remittance of a completed re-affirmation form, provided the product exhibits satisfactory field performance, remains in commercial production and is unchanged from the sample on which the Evaluation Report is based. An affidavit form, on which you will be able to affirm that the foregoing conditions remain true, will be sent to you by us at the appropriate time each year.

The issuance and continued validity of this report are subject to the terms and conditions forming part of the evaluation contract. Note in particular that the product must bear the CCMC identification.

1200 Montreal Road, M-24  
Ottawa, Ontario, Canada, K1A 0R6

Tel.: 613-993-6189  
Fax: 613-952-0268  
E-mail: [ccmc@nrc-cnrc.gc.ca](mailto:ccmc@nrc-cnrc.gc.ca)  
<http://www.nrc-cnrc.gc.ca/ccmc>

Canada

For your information, Section 29, of Ontario's Building Code Act, 1992 authorizes Ontario's Minister of Housing to make rulings approving the use of innovative materials, systems or building designs evaluated by a materials evaluation body designated in the Ontario Building Code. CCMC has been designated in the Ontario Building Code as a materials evaluation body for the purposes of these rulings.

If you are interested in obtaining a ruling from Ontario's Ministry of Housing in connection with product "**Fome-Cor® Board**", you may request CCMC to do so on your behalf by completing the appropriate section of the enclosed form and returning it to the address or fax noted on the form. We will then, on your behalf, request a Minister's Ruling and, as needed, provide technical information based on our Evaluation Report for your product. There will be no charge for our involvement, however, there will be a cost from Ontario's Ministry of Housing.

CCMC would also like to remind you of our on-line link service, which involves using CCMC's on-line Registry to help promote your products on the Internet by adding to your Reports, your company logo with WWW links to your company Web site, and e-mail address.

For more info please access our web site at <http://www.nrc-cnrc.gc.ca/eng/solutions/advisory/ccmc/hotlinks.html>. If you have any questions please contact CCMC at 613-993-6189 or e-mail us at [ccmc@nrc-cnrc.gc.ca](mailto:ccmc@nrc-cnrc.gc.ca).

You may reproduce the enclosed Evaluation Report provided it is reproduced in its entirety without alteration. You may also refer to this listing using the following phrase:  
" **CCMC # 06666-R** " on the product, literature or packaging.

We wish you every success with your building product.

Yours truly,



Hélène Roche  
Evaluation Officer  
Canadian Construction Materials Centre  
1200 Montreal Road, M-24  
Ottawa, Ontario, K1A 0R6  
Telephone: 613-991-2437  
Facsimile: 613-952-0268

Attach.

HR/al

## Evaluation Report CCMC 06666-R Fome-Cor<sup>®</sup> Board

<b>MasterFormat:</b>	06 16 53.01
<b>Evaluation issued:</b>	1984-08-16
<b>Re-evaluated:</b>	2016-10-27
<b>Re-evaluation due:</b>	2017-09-30

### 1. Opinion

It is the opinion of the Canadian Construction Materials Centre (CCMC) that “Fome-Cor<sup>®</sup> Board,” 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 Section 3 of this Report, complies with the National Building Code (NBC) of Canada 2015:

- Clause 1.2.1.1.(1)(b), Division A, as an alternative solution that achieves at least the minimum level of performance required by Division B in the areas defined by the objectives and functional statements attributed to the following applicable acceptable solutions:
  - Article 9.27.3.2., Sheathing Membrane Material Standard
  - Article 9.27.3.3., Required Sheathing Membrane and Installation

This opinion is based on the CCMC evaluation of the technical evidence in Section 4 provided by the Report Holder.

### 2. 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.

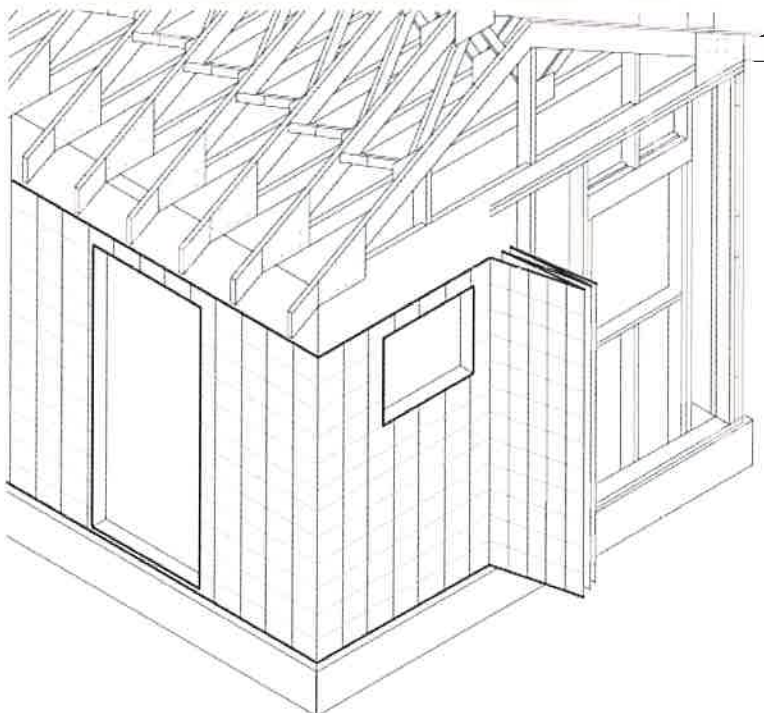


Figure 1. Application of the product as a sheathing material

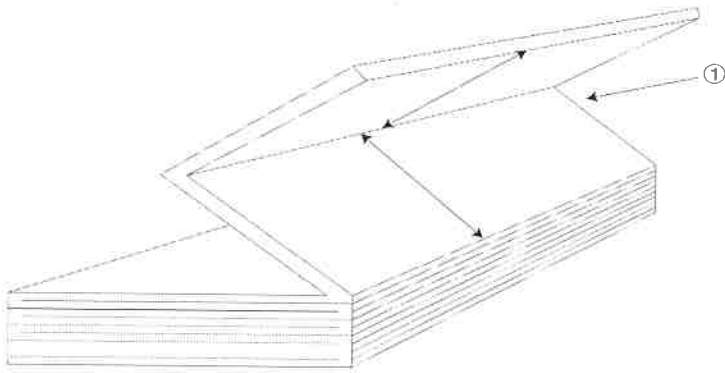


Figure 2. “Fome-Cor® Board” bundle: various configurations from 610 mm to 1 219 mm

### 3. Conditions and Limitations

The CCMC compliance opinion in Section 1 is bound by the “Fome-Cor® Board” being used in accordance with the conditions and limitations set out below:

- **Sheathing Membrane – New Construction**
  - The product must be installed with the printed side facing outward and must be protected from exposure to ultraviolet radiation (UV) from the sun within 60 days after application to the wall.
  - The product must be installed in accordance with Article 9.27.3.3. of Division B of the NBC 2015 and the manufacturer’s current instructions.
  - The product must be installed with a minimum 10-mm air space between the sheathing membrane 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.
- **Re-siding Underlayment – Retrofit**
  - The product may also be used as a re-siding underlayment over existing cladding. Existing exterior walls being reclad with new siding and the product as an underlayment must be retrofitted to meet the requirements of the NBC 2015 for heat transfer, air leakage and condensation control (see Explanatory Information below).
  - When the product is used as a re-siding underlayment, the product must be covered with new cladding that meets the requirements of the NBC 2015. 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.
  - When the product is used as a re-siding underlayment, it also acts as a sheathing membrane. Thus, the installation requirements for sheathing membranes outlined above also apply to re-siding underlayment installations.
- **Explanatory Information**
  - 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 retrofitted.
  - The product may be used as re-siding underlayment provided it is properly installed with knowledge of the existing wall configuration and performance.
  - The product must be clearly identified with the manufacturer’s name and logo, the product’s brand name and the phrase “CCMC 06666-R.”

### 4. Technical Evidence

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

## 4.1 Prescriptive Requirements

Table 4.1.1 Results of Testing the Performance Properties of the Product

Property		Unit	Requirement	Result
Tensile strength	original sample	N/mm	$\geq 3.5$	26.4
Water vapour permeance		ng/(Pa·s·m <sup>2</sup> )	$170 \leq WVP \leq 1\ 400$	429
Water ponding		–	No leakage	No water leakage
Tensile strength after UV exposure		%	$\geq 90\%$ of original	87 <sup>1</sup>
Tensile strength after heat aging of UV exposed specimens		%	$\geq 85\%$ of original	85
Water vapour permeance	of UV exposed and heat-aged specimens	ng/(Pa·s·m <sup>2</sup> )	$170 \leq WVP \leq 2\ 900$	447
Water ponding		–	No leakage	No water leakage

### Note to Table 4.1.1:

1. 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 slight increase in percent loss in strength was not considered significant when compared to the product's higher unaged tensile strength of 26.4 N/mm.

## Report Holder

3A Composites USA Inc.  
3480 Taylorsville Hwy.  
Statesville, NC 28625  
USA

Telephone: 704-658-3520

Fax: 704-658-3540

## Plant(s)

Glasgow, KY, USA

## Disclaimer

*This Report is issued by the Canadian Construction Materials Centre, a program of NRC Construction at the National Research Council of Canada. The Report must be read in the context of the entire CCMC Registry of Product Evaluations, including, without limitation, the introduction therein which sets out important information concerning the interpretation and use of CCMC Evaluation Reports.*

*Readers must confirm that the Report is current and has not been withdrawn or superseded by a later issue. Please refer to [http://www.nrc-cnrc.gc.ca/eng/solutions/advisory/ccmc\\_index.html](http://www.nrc-cnrc.gc.ca/eng/solutions/advisory/ccmc_index.html), or contact the Canadian Construction Materials Centre, NRC Construction, National Research Council of Canada, 1200 Montreal Road, Ottawa, Ontario, K1A 0R6. Telephone: 613-993-6189. Fax: 613-952-0268.*

*NRC has evaluated the material, product, system or service described herein only for those characteristics stated herein. The information and opinions in this Report are directed to those who have the appropriate degree of experience to use and apply its contents. This Report is provided without representation, warranty, or guarantee of any kind, expressed, or implied, and the National Research Council of Canada (NRC) provides no endorsement for any evaluated material, product, system or service described herein. NRC accepts no responsibility whatsoever arising in any way from any and all use and reliance on the information contained in this Report. NRC is not undertaking to render professional or other services on behalf of any person or entity nor to perform any duty owed by any person or entity to another person or entity.*

Date modified:

2016-10-28

Return to: National Research Council, CCMC, Building M-24  
1200 Montreal Road, Ottawa, Ontario, CANADA, K1A 0R6  
(CCMC Fax: 613-952-0268 E-mail: [ccmc@nrc-cnrc.gc.ca](mailto:ccmc@nrc-cnrc.gc.ca))

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A1-009478  
17-078-R

28 October 2016

**REQUIRED:**

Yes, we accept the enclosed final version of "**Fome-Cor® Board**", CCMC Report **06666-R** as is, and authorize CCMC to post Report number **06666-R** on the CCMC Web Site "Registry of Product Evaluations" (<http://www.nrc-cnrc.gc.ca/eng/solutions/advisory/ccmc/evaluations.html>) at the next update, and make it available to the public immediately.

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Ms. Sandy Roberts (or authorized representative)  
3A Composites U.S.A., Inc.

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**OPTIONAL:**

**MINISTER'S RULING (for Ontario)**

Yes, we request that CCMC act on our behalf to obtain a ruling from Ontario's Ministry of Housing in connection with "**Fom-Cor® Board**", CCMC Evaluation Report No. **06666-R**.

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Ms. Sandi Roberts (or authorized representative)  
3A Composites U.S.A., Inc.

28 October 2016

INTERNET LINKS

Thank you for your interest in having internet links added to the Web version of your CCMC Evaluation Report **06666-R**.

The service includes the addition of two links: one link to your Web site home page and one link to another page of your site where information on your product is shown (if applicable). Both links will appear as the WWW addresses of your Web pages on CCMC's on-line Registry indexes where your products are listed. The WWW address of your Web site home page will also appear as an active link on your Evaluation Report (available in pdf format on our Web site). Moreover, a link to your e-mail address will also be added to your Evaluation Report and to CCMC's on-line Registry indexes under your company name. New links will be activated during the next quarterly update of the on-line Registry. **No extra cost for this service.**

Yes, we are interested in subscribing to CCMC's internet link service for "**Fome-Cor® Board**", CCMC Evaluation Report No. **06666-R**.

1) Company Web Page: \_\_\_\_\_

French Web Page (if different) : \_\_\_\_\_

2) Company E-mail Address: \_\_\_\_\_

French E-mail Address (if different) : \_\_\_\_\_

please include ALL CCMC Reports and Listings belonging to **3A Composites U.S.A., Inc.**

3) Product Specific Web Page (*optional; **MUST** be different from Company Page*) :

\_\_\_\_\_

French Web Page (if different) : \_\_\_\_\_

*If you wish to provide Product Specific Web Pages for other CCMC Reports and Listings, please provide links to CCMC on a separate sheet.*

\_\_\_\_\_  
Ms. Sandy Roberts (or authorized representative)  
3A Composites U.S.A., Inc.