

CCMC 13387-R

CCMC Canadian code compliance evaluation

CCMC number:	13387-R
Status:	Active
Issue date:	2011-07-06
Modified date:	2023-11-08
Evaluation holder:	<p>Owens Corning Canada Inc. 3450 McNicoll Avenue Scarborough ON M1V 1Z5 Canada Website: owenscorning.ca/index.html Telephone: 1-800-988-5269</p>
Product name:	Foamular® C-200 Cel-Drain
Compliance:	OBC 2017
Criteria:	CCMC-TG-334613.02-12, "CCMC Technical Guide for Foundation Drainage Systems"

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 drainage layer against the outside of the foundation wall to protect the wall from transient or intermittent water that may come in contact with the wall surface, in accordance with the conditions and limitations stated in this evaluation, complies with the following code:

Ontario Building Code 2017

Code provision	Solution type
9.14.2.1.(2)(b) Foundation Wall Drainage	<u>Alternative</u>

Ruling No. 11-10-268 (13387-R) authorizing the use of this product in Ontario, subject to the terms and conditions contained in the Ruling, was made by the Minister of Municipal Affairs and Housing on 2011-09-20 (revised 2017-01-10) pursuant to s.29 of the Building Code Act, 1992 (see Ruling for terms and conditions). This Ruling is subject to periodic revisions and updates.

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

Foamular® C-200 Cel-Drain

Product description

The product is a Type 3, extruded polystyrene, rigid thermal insulation panel with specially designed vertical grooves that drain water down to the footing drainage system, directing water away from the foundation wall. The panels measure 600 mm wide × 2 400 mm long × 63.5 mm or 102 mm thick. The grooved channels measure 6 mm deep × 19 mm wide. The groove spacing is at 50 mm on centre (o.c.). The product is made from Foamular® thermal insulation, which is a pink-tinted, extruded/expanded polystyrene product that meets the requirements of CAN/ULC-S701-11, “Thermal Insulation, Polystyrene, Boards and Pipe Covering” (see CCMC 13431-L).

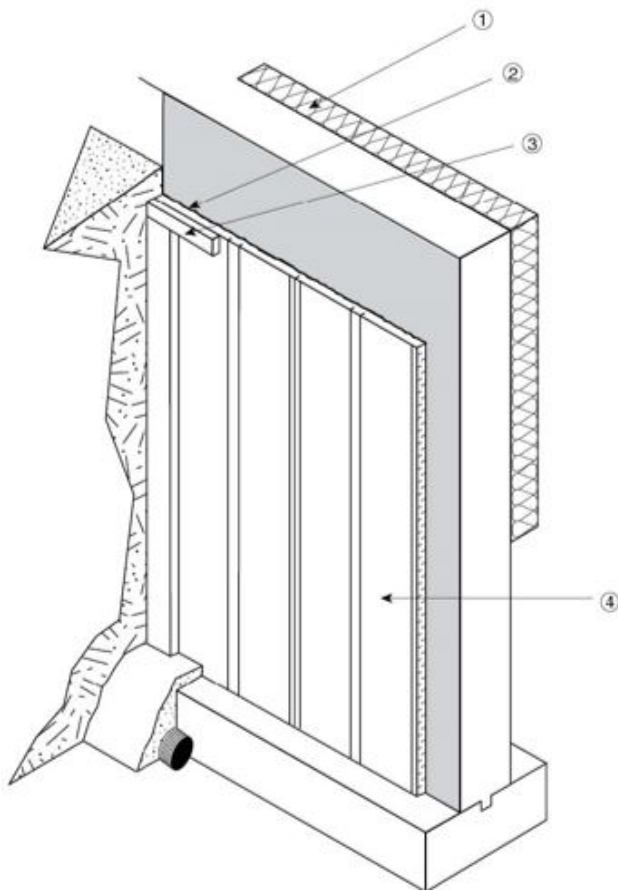


Figure 1. Below-grade installation of the product

1. Insulation
2. Caulking/sealant
3. Polyethylene sealing strip
4. Foamular® C-200 Cel-Drain extruded polystyrene

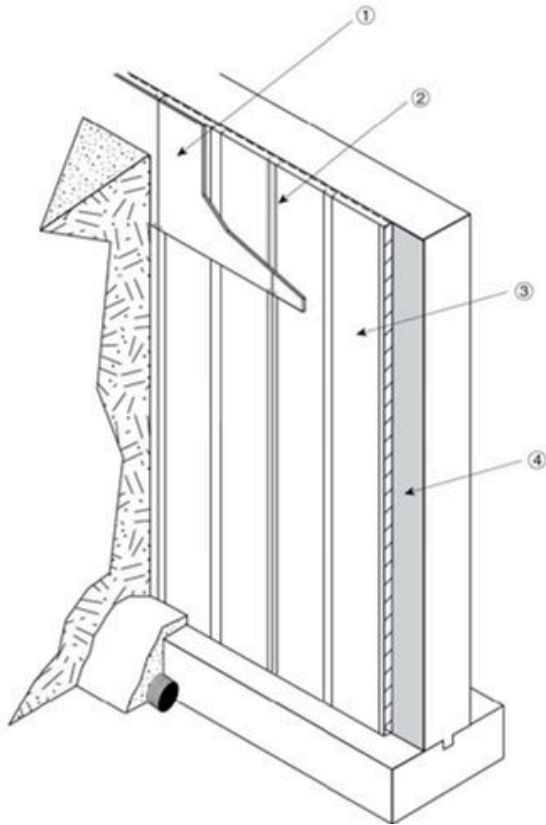


Figure 2. Below and above-grade installation of the product

1. Above-grade protection
2. Attachment channel
3. Foamular® C-200 Cel-Drain extruded polystyrene
4. Dampproofing

Manufacturing plants

This evaluation is limited to products produced at the following plants:

Product name	Manufacturing plants	
	Grande-Île (Valleyfield), QC, CA	Portland, OR, US
Foamular® C-200 Cel-Drain	☑	☑

☑ 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 is designed to direct water to the footing drainage system when installed against the foundation wall. The drainage surface (grooved side) is installed directly against the dampproofing face of the foundation wall with the drainage grooves in the vertical position (Class B).
- This drainage product is one part of the total foundation drainage system that consists of a combination of design and construction processes that use different products. For example, a well-functioning footing drain (weeping tile) is required to direct water away from the bottom of the foundation wall.
- The placement and grading of backfill must conform to Subsection 9.12.3., Backfill, of Division B of the OBC 2012.
- The product has been evaluated for use in depths up to 3.7 m below grade (Type 2).
- There must be a 6 mm to 13 mm gap between the bottom edge of the insulation and the top surface of the footing to facilitate the emptying of water from the drainage layer to the drain tile.
- The top surface of the panels must be sealed with an ultraviolet stabilized polyethylene sheet and an acoustical sealant to prevent soil from entering the drainage channels. The polyethylene sheet must be wide enough (minimum 15 mm) to drape over the front and back of the panels.
- The top surface of the panels must be within 75 mm of the finished grade.
- The product packaging must be clearly identified with the phrase "CCMC 13387-R."

Technical information

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

Criteria number	Criteria name
CCMC-TG-334613.02-12	CCMC Technical Guide for Foundation Drainage Systems

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

Results of testing the performance requirements of the product

Property	Unit	Requirement	Result
Side water inflow	min	500 mL of water in less than 15 min	6
Deformation under compressive load	mm	Minimum 10	62

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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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.

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