



Evaluation Report CCMC 13429-R

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Exteria Building Products, LLC Polypropylene Wall Siding

1. Opinion

It is the opinion of the Canadian Construction Materials Centre (CCMC) that “Exteria Building Products, LLC Polypropylene Wall Siding” when used as an exterior siding for buildings of combustible construction in accordance with the conditions and limitations stated in Section 3 of this Report, complies with the National Building Code 2005:

- 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:
 - Subsection 9.27.13. Vinyl Siding

This opinion is based on CCMC's evaluation of the technical evidence in Section 4.1 provided by the Report Holder.

Ruling No. 10-06-243 (13429-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 2010-04-12 (revised on 2010-04-26) 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.

2. Description

The wall siding panels and corners are made of injection-molded, press-formed polypropylene and are fastened to the building structure through pre-punched nailing slots located along the top edge of the panel, which are concealed once the upper panel is installed.

3. Conditions and Limitations

CCMC's compliance opinion in Section 1 is bound by the “Exteria Building Products, LLC Polypropylene Wall Siding” being used in accordance with the conditions and limitations set out below.

- The siding panels must be installed on furring providing a second line of defence that consists of a continuous, clear, uninterrupted air space of 19 mm outboard of the sheathing membrane.
- The furring must be installed over the sheathing membrane.
- The system requires flashing at appropriate locations in order to drain water to the outside.
- Furring for the attachment of the cladding must be not less than 19 mm by 38 mm, securely nailed to the sheathing or framing, and spaced not more than 600 mm o.c.
- As per the manufacturer's installation guidelines, 38 mm diameter plastic spacers shall be used behind nailing slots that are not aligned with the furring.

4. Technical Evidence

CCMC's Technical Guide for "Exteria Building Products, LLC Polypropylene Wall Siding" sets out the nature of the technical evidence required by CCMC to enable it to evaluate a product as an acceptable or alternative solution in compliance with the NBC 2005. The Report Holder has submitted test reports and data for CCMC's evaluation. Testing was conducted at independent laboratories recognized by CCMC. The corresponding test results for "Exteria Building Products, LLC Polypropylene Wall Siding" are summarized below.

4.1 NBC 2005 Compliance Data for "Exteria Building Products, LLC Polypropylene Wall Siding" on which CCMC Based its Opinion in Section 1

4.1.1 Material Requirements

4.1.1.1 Material Test Results

Table 4.1.1.1

Property	Unit	Requirement	Result
Impact resistance	N·m	≥ 3.95	Pass
Weathering	-	Siding shall be free of any structural changes or visible surface changes such as peeling, chipping, cracking, flaking or pitting	Pass

4.1.2 Performance Requirements

4.1.2.1 Performance Test Results

Table 4.1.2.1

Property	Unit	Requirement	Result
Deformation (sustained pressure)	Pa	Sustained for 1 h ≥ 1000	Pass
Repeated positive and negative pressure test (cyclic pressure)	Pa	2000 cycles	Pass
Safety test (gust loads)	Pa	Resist gust wind above 2180 Pa	Pass

Report Holder: Exteria Building Products, LLC
1111 NW 165th Street
Miami, FL 33169-5819
U.S.A.
Tel: 305-620-6200
Fax: 305-620-2761

Plant(s): Miami, FL, U.S.A.

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