



Evaluation Report CCMC 13420-R

NovikStone[®], NovikBrick, NovikShake[®] and NovikPlank Portsmouth[™] and Atlas Stone[™]

MasterFormat:	07 46 33.04
Evaluation issued:	2009-07-07
Revised:	2021-02-05

1. Opinion

It is the opinion of the Canadian Construction Materials Centre (CCMC) that “NovikStone[®],” “NovikBrick,” “NovikShake[®],” “NovikPlank,” “Portsmouth[™]” and “Atlas Stone[™]” 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 (NBC) of Canada 2015:

- Clause 1.2.1.1.(1)(a) of Division A, using the following acceptable solutions from Division B:
 - Subsection 9.27.2., Required Protection from Precipitation
 - Subsection 9.27.3., Second Plane of Protection
- Clause 1.2.1.1.(1)(b) of 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 9.27.12., Vinyl Siding

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

Ruling No. 14-23-319 (13420-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 2014-10-27 (revised 2018-04-04) 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 with corrosion-resistant fasteners every 200 mm (8 in.) through pre-punched nailing slots located along the top edge of the panel, which are concealed once the upper panel is installed. The products and associated profiles evaluated under CCMC 13420-R are shown in Table 2.1. “NovikStone[®],” “NovikBrick,” “NovikShake[®],” “NovikPlank,” “Portsmouth[™]” and “Atlas Stone[™]” have a nail hem wall thickness between 2.0 mm and 2.5 mm.

Figures 1 and 2 illustrate “NovikStone[®] SK” and “NovikShake[®] RS8” as an example of “NovikStone[®]” and “NovikShake[®]” profiles, respectively.

Table 2.1 Names of Profiles for “NovikStone®,” “NovikBrick,” “NovikShake®,” and “NovikPlank,”

Product Name	Profile Name	Panel Size, mm (Length × Width)
NovikStone®	AC	1 143 × 514
	DS	1 054 × 333
	FS	1 270 × 486
	HC	1 219 × 470
	PHC	1 219 × 470
	RR	1 270 × 486
	SK	1 143 × 514
NovikBrick	DHL	1 219 × 470
	HL	1 219 × 470
NovikShake®	HR	813 × 254
	HS	1 229 × 476
	NP	1 191 × 419
	RS	1 238 × 368
	RS8	2 451 × 216
	SE	1 299 × 216
NovikPlank	D6	2 515 × 343

Table 2.2 Names of Profiles for “Portsmouth™” and “Atlas Stone™”

Product Name	Profile Name	Panel Size, mm (Length × Width)
Portsmouth™	Cedar Shingle D7	1 365 × 410
	Cedar Shingle 8’ S7	2 356 × 222
	Cedar Shingle S9 Hand-Split Shake	2 362 × 275
Atlas Stone™	Stacked	1 127 × 492



Figure 1. "NovikStone® SK"



Figure 2. "NovikShake® RS8"

3. Conditions and Limitations

The CCMC compliance opinion in Section 1 is bound by the “NovikStone®,” “NovikBrick,” “NovikShake®,” “NovikPlank,” “Portsmouth™” and “Atlas Stone™” being used in accordance with the conditions and limitations set out below:

- The products are limited to use as exterior siding for the buildings falling within the scope of Part 9, Housing and Small Buildings, of Division B of the NBC 2015.
- 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 siding must be securely nailed to the sheathing or framing, spaced at 200 mm on centre (o.c.), and be not less than 19 mm × 38 mm.
- The fasteners shall be minimum 38 mm galvanized smooth-shank nails.
- The products shall be installed in accordance with the manufacturer’s current installation instructions.
- The product must be clearly identified with the phrase “CCMC 13420-R” on its packaging.

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 Material Requirements

4.1.1 Physical Properties

Table 4.1.1.1 Results of Testing the Physical Properties of NovikShake® RS

Property	Requirement	Test Method	Result
Impact resistance (N·m)	≥ 3.95	ASTM D 7254	Pass
Weathering	No structural changes or visible surface changes such as peeling, chipping, cracking, flaking or pitting.	ASTM D 7254	Pass

4.2 Performance Requirements

4.2.1 Wind Load Resistance

Table 4.2.1.1 Results of Testing the Wind Load Resistance of NovikShake® RS at Q₅₀ < 1.00 kPa⁽¹⁾

Property	Requirement ⁽²⁾⁽³⁾	Result
Deformation (sustained pressure)	Sustained for 1 h ≥ 1 000 Pa	Pass
Repeated positive and negative pressure test (cyclic pressure), 2 000 cycles	1 460 Pa	Pass
Safety test (gust loads)	2 180 Pa	Pass

Notes to Table 4.2.1.1:

- (1) The wind load resistance test was performed on a backup wall consisting of 38 mm × 89 mm wood studs and 11.1 mm oriented strandboard (OSB) sheathing. The spacing between each stud section was 406 mm o.c. The 19 mm × 58 mm wood furring strips were installed at 406 mm o.c. spacing and fastened using 50-mm-long nails. Each siding panel was installed using 38 mm galvanized smooth-shank nails at 406 mm o.c. on furring strips.
- (2) The table is intended for non-post-disaster low-rise buildings that have a height from grade to the uppermost roof of 12 m or less which are located within a built-up area, no less than 120 m away from the boundary between this area and open terrain, including bodies of water upwind of the building.
- (3) The table does not take into account the site-specific topographic factor Ct, where Ct = 1.0, except for buildings that are constructed on hills or escarpments with a slope defined in Article 4.1.7.4., Topographic Factor, of Division B of the NBC 2015. For buildings constructed on hills and escarpments, anticipated wind pressures may be greater.

4.3 Additional Performance Data

Data in this section does not form part of CCMC’s opinion in Section 1.

4.3.1 Fire Performance

Table 4.3.1.1 Results of Fire Performance Testing of NovikStone® DS⁽¹⁾

Property	Test Method	Results
Flame-spread rating (FSR) ⁽²⁾	CAN/ULC-S102	105
Smoke developed classification (SDC) ⁽²⁾		575

Notes to Table 4.3.1.1:

- (1) Refer to test for details of the results.
- (2) Based on Exova Test Report 17-002-246 (issued May 12, 2017).

Report Holder

Derby Building Products Inc.
160, rue des Grands-Lacs
St-Augustin-de-Desmaures, QC G3A 2K1

Telephone: 418-878-6161
Fax: 418-878-6164
Email: info@derbybp.com
Web site: www.novik.com

Plant(s)

St-Augustin-de-Desmaures, QC Canada

Disclaimer

This evaluation is issued by the Canadian Construction Materials Centre (CCMC), a program of the Construction Research Centre at the National Research Council of Canada (NRC). The evaluation must be read in the context of the entire CCMC Registry of Product Evaluations and Certifications and the legislated applicable building code in effect.

CCMC was established in 1988 on behalf of the applicable regulator (i.e., the Provinces and Territories) to ensure—through assessment—conformity of alternative and acceptable solutions to regional building codes as determined by the local authority having jurisdiction (AHJ) as part of the issuance of a building permit.

It is the responsibility of the local AHJs, design professionals, and specifiers to confirm that the evaluation is current and has not been withdrawn or superseded by a later issue. Please refer to <http://www.nrc-cnrc.gc.ca/ccmc> or contact the Canadian Construction Materials Centre, Construction Research Centre, National Research Council of Canada, 1200 Montreal Road, Ottawa, Ontario, K1A 0R6. Telephone: 613-993-6189. Fax: 613-952-0268.

The NRC has evaluated the material, product, system or service described herein only for those characteristics stated 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 (i.e., AHJs, design professionals and specifiers). This evaluation is only valid when the product is installed in strict compliance with the stated conditions and limitations of evaluation and the applicable local building code. In circumstances where no applicable local building permit is issued and that no confirmation of compliance 'for use in the intended field application' is undertaken, this evaluation is null and void in all respects. This evaluation is provided without representation, warranty, or guarantee of any kind, expressed, or implied, and the NRC provides no endorsement for any evaluated material, product, system or service described herein. The NRC accepts no responsibility whatsoever arising in any way from any and all use and reliance on the information contained in this evaluation with respect to its compliance to the referenced code(s) and standard(s). The 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. Revised: 2019-12-02

Date modified:
2021-02-05

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