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ICC-ES Evaluation Report

ESR-2888

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 33—Plastic Siding

REPORT HOLDER:

NOVIK INC.
160 DES GRANDS-LACS
ST. AUGUSTIN-DE-DESMAURES, QUEBEC G3A ZK1
CANADA
(418) 878-6161
www.novik.com

EVALUATION SUBJECT:

NOVIK INNOVATIVE POLYMER SIDING

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 *International Building Code®* (IBC)
- 2009 and 2006 *International Residential Code®* (IRC)

Properties evaluated:

- Exterior veneer
- Durability
- Wind load resistance
- Flame spread

2.0 USES

Novik Innovative Polymer Siding products are used as exterior wall coverings over a code-complying sheathing or substrate capable of supporting the imposed loads on buildings of Type VB construction (IBC), and on structures constructed in accordance with the IRC.

3.0 DESCRIPTION

Novik Innovative Polymer Siding is a molded polypropylene product conforming to the requirements of ASTM D7254. Siding products include a variety of accessories such as corners and J-channel trims (with and without corner caps) made from a variety of materials such as polypropylene, PVC or aluminium. The universal Novik starter strip is available in either polypropylene or galvanized steel. The siding is available in a range of colors, textures, and profiles designed to overlap at adjacent panel edges. The siding is produced in a nominal wall thickness of 0.08–0.09 inch and as described in Table 1, and is available in finishes simulating cedar shingles, hand-split shakes, brick and stone. Refer to Table 1 for the profile names and related descriptive information.

4.0 DESIGN AND INSTALLATION

4.1 General:

Novik Innovative Polymer Siding must be installed in accordance with the manufacturer's published installation instructions, the applicable code, and this report. The manufacturer's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available on the jobsite at all times during installation.

4.2 Design:

Design wind pressures must be determined in accordance with IBC Chapter 16 or IRC Section R301.2.1.1, as applicable. For buildings constructed in accordance with the IBC, Novik Innovative Polymer Siding may be used for applications where the basic wind speed does not exceed 100 miles per hour (45 m/s) in Exposure C areas, where the building height is less than or equal to 40 feet (12.2 m), in accordance with Section 1405.14 of the 2009 IBC or Section 1405.13 of the 2006 IBC, as applicable. For installations in accordance with the IRC, the siding may be used where construction is located in areas where the basic wind speed is less than 110 miles per hour (49 m/s) in Exposure B areas, and does not exceed 90 miles per hour (40 m/s) in Exposure C areas or 85 miles per hour (37 m/s) in Exposure D areas.

4.3 Installation:

The Novik Innovative Polymer Siding must be backed by substrate capable of withstanding the imposed positive and negative design wind loads. Sheathing substrate must be fastened to the wall framing in accordance with the applicable code, taking into account the transverse wind loads to which it will be subjected in use. The substrate must be covered with an approved water-resistive barrier where required by code.

Noncorrosive nails or screws with minimum head diameter of 0.4 inch (10 mm) and minimum shank diameter of 0.150 inch (3.8 mm) must be used to install the siding. The fasteners must be installed in the center of the fastening slots at maximum intervals of 16 inches on center (406 mm). The minimum siding fastener penetration into wood framing must be as described in Table 1 for each profile, leaving a $^{1}/_{16}$-inch (1.6 mm) gap between the fastener head and the panel to allow for thermal expansion. One fastener must be located in the center fixing hole of those models in which a fixing hole is

present, to prevent lateral movement. Likewise, the starter strip and trim must be fastened at the center fixing hole and at a maximum spacing of 8 inches (203 mm).

See the manufacturer's published installation instructions for more details concerning installation of siding and specific trim and accessories. Flashing in accordance with the applicable code must be installed at all openings, penetrations, and abutments with dissimilar materials, and at terminations of the siding and soffit.

5.0 CONDITIONS OF USE

The Novik Innovative Polymer Siding described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this report, the manufacturer's published instructions, and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.

5.2 The siding is limited to use on Construction Type VB (IBC) and to structures constructed in accordance with the IRC.

5.3 The siding is limited to use on buildings having a maximum height, and in areas with maximum wind speeds and exposure, as noted in Section 4.2.

5.4 The siding must be installed only on exterior walls covered by a wood structural panel sheathing or substrate capable of supporting the imposed loads, including but not limited to positive and negative transverse wind loads. The substrate must be covered with a water-resistive barrier where required by the code.

5.5 Exterior walls must be braced or sheathed to resist racking loads with approved materials in accordance with the requirements of the applicable code.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Polypropylene Siding (AC366), dated April 2007 (editorially revised April 2011).

7.0 IDENTIFICATION

The siding products described in this report are identified by a label on the packaging bearing the manufacturer's name (Novik Inc.) and address, the product name, the manufacturer's lot number, and the evaluation report number (ESR-2888). Also included on the label is the following statement: "Conforms to ASTM Specification D7254."

TABLE 1—PRODUCT DESCRIPTION

PRODUCT NAME	DESCRIPTION	REQUIRED INSTALLED LENGTH OF NAIL PENETRATION INTO WOOD[1], in.
Hand-Laid Brick - NOVIBRIC HL™	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 18.5" X 0.085"	$^3/_4$
Hand-cut stone - NOVISTONE HC™	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 18.5" X 0.085"	$^3/_4$
Perfect shake - NOVISHAKE PS™	Polypropylene Siding; available in multiple colors; overall dimensions: 74" X 15" X 0.085"	$^3/_4$
Stacked stone - NOVISTONE SK™	Polypropylene Siding; available in multiple colors; overall dimensions: 45.38 " X 20.5" X 0.090"	$^3/_4$
D6 Cedar plank - NOVIPLANK D6™	Polypropylene Siding; available in multiple colors; overall dimensions: 98.5" X 13.58" X 0.080"	$^3/_4$
S8 Cedar plank - NOVIPLANK S8™	Polypropylene Siding; available in multiple colors; overall dimensions: 96" X 9.7" X 0.080"	$^3/_4$
Half-Round - NOVISHAKE HR™	Polypropylene Siding; available in multiple colors; overall dimensions: 32" X 10" X 0.080"	$^3/_4$
Hand-split shake - NOVISHAKE HS™	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 19.0" X 0.085"	$1^1/_4$
Rough sawn cedar - NOVISHAKE RS™	Polypropylene Siding; available in multiple colors; overall dimensions: 49" X 14.5" X 0.085"	$1^1/_4$
Staggered Edge Shake - NOVISHAKE SE™	Polypropylene Siding; available in multiple colors; overall dimensions: 51.12" X 8.38" X 0.085"	$1^1/_4$
Portsmouth Cedar Shake	Polypropylene Siding; available in multiple colors; overall dimensions: 53.7" X 16.125" X 0.085"	$1^1/_4$
8ft Length Cedar - NOVISHAKE RS8™	Polypropylene Siding; available in multiple colors; overall dimensions: 96.1" X 8.5" X 0.085"	$1^1/_4$

For **SI:** 1 inch = 25.4 mm.

[1]Minimum penetration into a wood holding member with specific gravity, S.G.= 0.42.

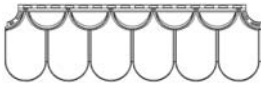
Perfect shake-NOVISHAKE PS™

8ft Length Cedar - NOVISHAKE RS8™

Rough sawn cedar-NOVISHAKE RS™

Hand-split shake-NOVISHAKE HS™

Staggered Edge Shake-NOVISHAKE SE™



Half-Round –NOVISHAKE HR™

Hand-Laid Brick-NOVIBRIC HL™

Hand-cut stone-NOVISTONE HC™

S8 Cedar plank-NOVIPLANK S8™

D6 Cedar plank-NOVIPLANK D6™

Portsmouth Cedar Shake

Stacked stone-NOVISTONE SK™

FIGURE 1—SIDING PRODUCT PROFILES