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ICC-ES Evaluation Report

ESR-2888

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Reissued 07/2018

This report is subject to renewal 07/2019.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 46 33—PLASTIC SIDING

REPORT HOLDER:

DERBY BUILDING PRODUCTS INCORPORATED

EVALUATION SUBJECT:

NOVIK AND TANDO INNOVATIVE POLYMER SIDING



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"



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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

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

1.2 Evaluation to the following green code(s) and/or standards:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 2.0

2.0 USES

Novik and Tando 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.

The attributes of the Novik Innovative Polymer Siding have been verified as conforming to the provisions of (i)

CALGreen Sections A4.405.1.3 (prefinished materials) and A5.406.1.2 (reduced maintenance); (ii) ICC 2015 and ICC 700-2012 Sections 601.7, 11.601.7, and 12.1(A).601.7 (site-applied finishing materials); and (iii) ICC 700-2008 Section 601.7 (site-applied finishing materials). Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. The code may provide supplemental information as guidance.

3.0 DESCRIPTION

3.1 Siding:

Novik and Tando 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 aluminum. 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 thicknesses between 0.080 and 0.10 inch (2.0 and 2.5 mm), and is available in finishes simulating cedar shingles, hand-split shakes, brick and stone, as shown in Figure 1. Refer to Tables 1 and 2 for the profile names and related descriptive information.

3.2 Sheathing Substrates:

- Minimum ⁷/₁₆-inch-thick (11.1 mm) solid plywood structural sheathing complying with DOC PS-1.
- Minimum ⁷/₁₆-inch-thick (11.1 mm) Exposure 1 oriented strand board (OSB) sheathing complying with DOC PS-2.
- Other substrate composed of wood or wood-based material and fasteners having equivalent withdrawal resistance.

3.3 Fasteners:

Galvanized, aluminum or stainless steel roofing nails or screws with a minimum length of 1½ inches (38 mm) a minimum shank diameter of 0.12 inch (3 mm) and a ⁷/₁₆-inch (11 mm) head diameter.

4.0 DESIGN AND INSTALLATION

4.1 General:

Novik and Tando 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:

4.2.1 General: Design wind pressures must be determined in accordance with IBC Chapter 16 or IRC Section R301.2.1.1, as applicable.

4.2.2 IBC:

4.2.2.1 2015 and 2012 IBC: Where the nominal design wind speed (V_{asd}), 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), Novik and Tando Innovative Polymer Siding may be installed over solid sheathing, as noted in IBC Section 1405.14.1.

4.2.2.2 2009 and 2006 IBC: Where the basic wind speed (3-second gust) 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), Novik and Tando Innovative Polymer Siding may be installed over solid sheathing, as noted in 2009 IBC Section 1405.14.1 or 2006 IBC Section 1405.13.1, as applicable.

4.2.3 IRC:

4.2.3.1 2015 IRC: Where the basic wind speed does not exceed 140 miles per hour (63 m/s) (Ultimate Design Wind speed).

4.2.3.2 2012, 2009 and 2006 IRC: Where the basic wind speed does not exceed 110 miles per hour (49 m/s) (3-second gust), 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, Novik and Tando Innovative Polymer Siding may be installed over solid sheathing as noted in IRC Table R703.4.

4.3 Installation:

The Novik and Tando Innovative Polymer Siding must be installed over a sheathing substrate as described in Section 3.2 and which is capable of withstanding the imposed positive and negative design wind loads. Sheathing substrate must be fastened to the wall framing which has a minimum specific gravity (S.G.) of 0.42 in accordance with the applicable code, taking into account the transverse wind loads to which it will be subjected in use. The sheathing substrate must be covered with an approved water-resistive barrier where required by code.

Fasteners as described in Section 3.3 must be used to install the siding. The fasteners must be installed in the center fixing hole, installation hole at the two ends and at maximum intervals of 16 inches on center (406 mm). The fasteners must also be installed in each lateral hole of those models in which lateral holes are present. The siding fastener penetration must be a minimum $\frac{3}{4}$ -inch (19.1 mm) beyond the backside of the sheathing or a minimum embedment of $\frac{3}{4}$ inch (19.1 mm) into wood framing, leaving a $\frac{1}{16}$ -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.

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 and Tando 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** For installations under the 2015 and 2012 IBC, the fire separation distance between a building with Novik and Tando Innovative polymer siding and the adjacent building must not be less than 10 feet (3 048 mm), in accordance with IBC Section 1404.12.2.
- 5.5** 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.
- 5.6** 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 January 2015.

7.0 IDENTIFICATION

- 7.1** The siding products described in this report are identified by a label on the packaging bearing the manufacturer's name (Derby Building Products 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."
- 7.2** The report holder's contact information is the following:

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TABLE 1—NOVIK INNOVATIVE POLYMER SIDING PROFILE NAME AND DESCRIPTION

PROFILE NAME	DESCRIPTION
PREMIUM HAND-CUT STONE –NovikStone™ PHC	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 18.5" X 0.085"
RIVER ROCK –NovikStone™ RR	Polypropylene Siding; available in multiple colors; overall dimensions: 50" X 19.1" X 0.1"
FIELDSTONE – NovikStone™ FS	Polypropylene Siding; available in multiple colors; overall dimensions: 50" X 19.1" X 0.1"
DRY STACK STONE – NovikStone™ DS	Polypropylene Siding; available in multiple colors; overall dimensions: 4 1.75" X 13.1" X 0.1"
Portsmouth 8 foot S7	Polypropylene Siding; available in multiple colors; overall dimensions: 92.7" X 8.7" X 0.085"
Deco Hand-Laid Brick – NovikBrick™ DHL	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 18.5" X 0.085"
HAND-LAID BRICK - NovikBrick™ HL	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 18.5" X 0.085"
HAND-CUT STONE - NovikStone™ HC	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 18.5" X 0.085"
PERFECT SHAKE - NovikShake™ PS	Polypropylene Siding; available in multiple colors; overall dimensions: 74" X 15" X 0.085"
STACKED STONE - NovikStone™ SK	Polypropylene Siding; available in multiple colors; overall dimensions: 45.38" X 20.5" X 0.090"
DOUBLE 6" PLANK - NovikPlank™ D6	Polypropylene Siding; available in multiple colors; overall dimensions: 98.5" X 13.58" X 0.080"
SINGLE 8" PLANK - NovikPlank™ S8	Polypropylene Siding; available in multiple colors; overall dimensions: 96" X 9.7" X 0.080"
HALF-ROUND - NovikShake™ HR	Polypropylene Siding; available in multiple colors; overall dimensions: 32" X 10" X 0.080"
HAND-SPLIT SHAKE - NovikShake™ HS	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 19.0" X 0.085"
ROUGH SAWN SHAKE - NovikShake™ RS	Polypropylene Siding; available in multiple colors; overall dimensions: 49" X 14.5" X 0.085"
STAGGERED EDGE SHAKE - NovikShake™ SE	Polypropylene Siding; available in multiple colors; overall dimensions: 51.12" X 8.38" X 0.085"
Portsmouth D7	Polypropylene Siding; available in multiple colors; overall dimensions: 53.7" X 16.125" X 0.085"
ROUGH SAWN 8' SHAKE – NovikShake™ RS8	Polypropylene Siding; available in multiple colors; overall dimensions: 96.1" X 8.5" X 0.085"

For **SI**: 1 inch = 25.4 mm.**TABLE 2—TANDO INNOVATIVE POLYMER SIDING PROFILE NAME AND DESCRIPTION**

PROFILE NAME	DESCRIPTION
TandoStone™ Hand-Cut Stone	Polypropylene Siding; available in multiple colors; overall dimensions: 48" X 18.5" X 0.085"
TandoStone™ Stream Stone	Polypropylene Siding; available in multiple colors; overall dimensions: 50" X 19.1" X 0.1"
TandoStone™ Bank Stone	Polypropylene Siding; available in multiple colors; overall dimensions: 50" X 19.1" X 0.1"
TandoStone™ Flat Stone	Polypropylene Siding; available in multiple colors; overall dimensions: 4 1.75" X 13.1" X 0.1"
TandoShake™ Beveled 8	Polypropylene Siding; available in multiple colors; overall dimensions: 96" X 9.7" X 0.080"
TandoShake™ Rustic Cedar 6	Polypropylene Siding; available in multiple colors; overall dimensions: 96.1" X 8.5" X 0.085"
Beach House Shake™	Polypropylene Siding; available in multiple colors; overall dimensions: 46.88" X 16.5" X 0.080"

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

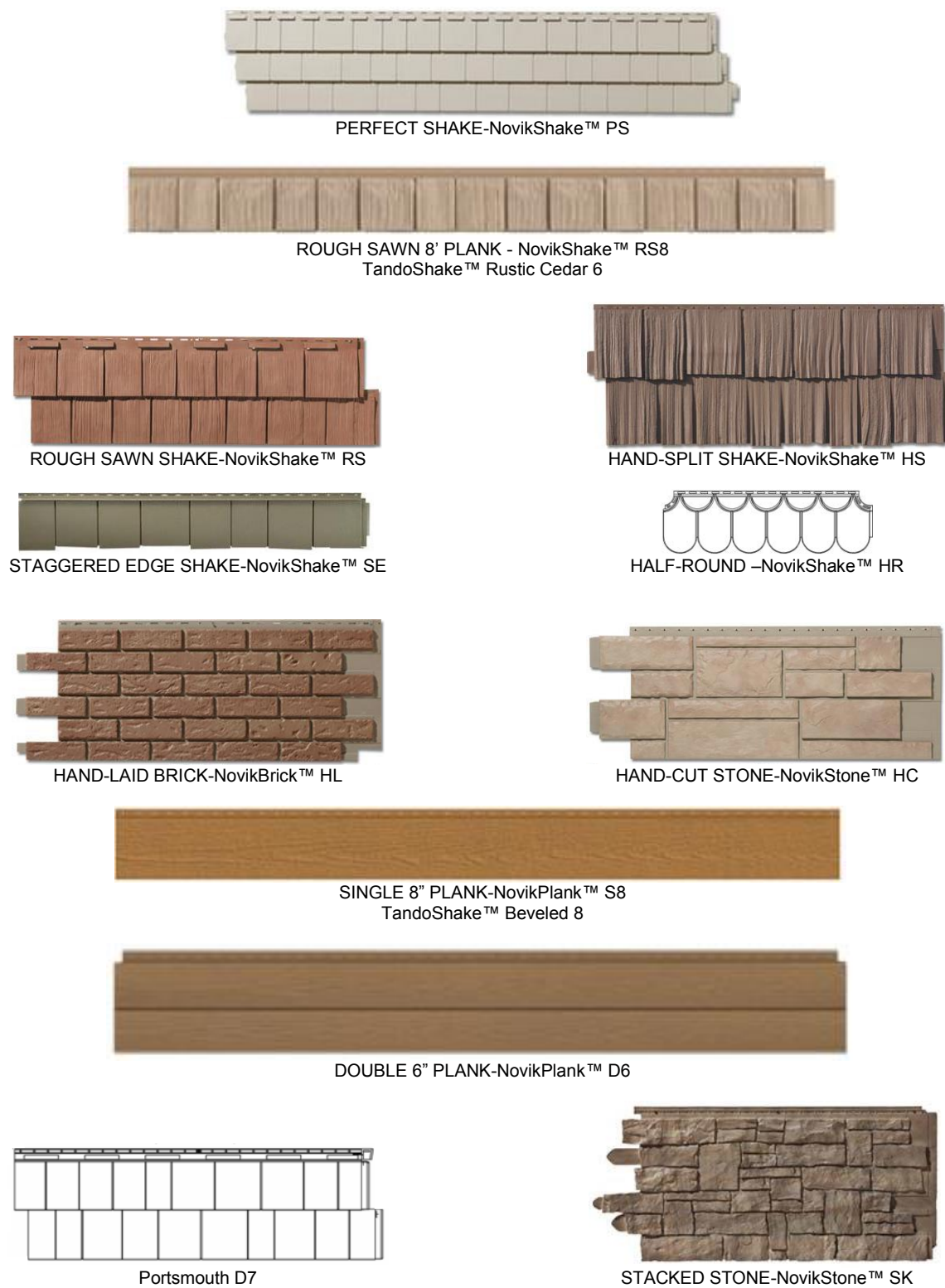


FIGURE 1—SIDING PRODUCT PROFILES



PREMIUM HAND-CUT STONE –
NovikStone™ PHC
TandoStone™ Hand-Cut Stone



Portsmouth 8 Foot S7



Deco Hand-Laid Brick –
NovikBrick™ DHL



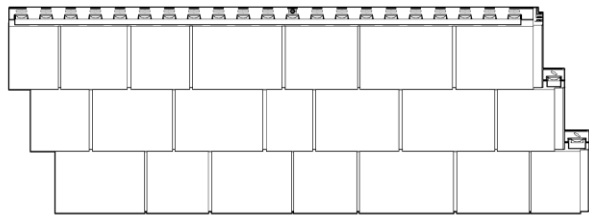
DRY STACK STONE – NovikStone™ DS
TandoStone™ Flat Stone



RIVER ROCK – NovikStone™ RR
TandoStone™ Stream Stone



FIELDSTONE – NovikStone™ FS
TandoStone™ Bank Stone



Beach House Shake™

FIGURE 1—SIDING PRODUCT PROFILES (Continued)