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ICC-ES Evaluation Report

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ESR-3070

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

SECTION: 07 46 33—PLASTIC SIDING

REPORT HOLDER:

DERBY BUILDING PRODUCTS, LLC

EVALUATION SUBJECT:

NOVIK AND TANDO INNOVATIVE POLYMER SIDING



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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2018, 2015, 2012 and 2009 *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
- 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 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 3.0

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.

3.0 DESCRIPTION

Novik and Tando Innovative Polymer Siding is molded

from polypropylene (PP) resins. The siding panels conform to, and are certified and labeled in accordance with, ASTM D7254. Siding accessory products include polypropylene outside corner caps, PVC J-channels and corner keys, and galvanized steel starter strips. 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 0.090 inch (2.29 mm) and is available in finishes simulating cedar shingles, hand-split shakes, brick or stone. Refer to Table 3 for the profile names and related descriptive information.

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: The design wind pressures must be determined in accordance with the requirements of Chapter 16 of the IBC or Section R301.2.1 of the IRC, as applicable, and must not exceed the allowable wind pressures in Table 1, subject to the conditions in Sections 4.2.2 and 4.2.3 of this report. Wind resistance of soffit panels is outside the scope of this report.

4.2.2 IBC: For buildings constructed under the requirements of the IBC, Novik and Tando Innovative Polymer Siding must be installed as described in 2018 IBC Section 1404.18 [2015 and 2012 IBC Section 1405.18] or installed over solid sheathing as described in 2009 IBC Section 1405.14.1 and Section 4.1 of this report. Should the basic wind speed at the building locations exceed the conditions provided for in 2018 IBC Section 1404.18 [2015 and 2012 IBC Section 1405.18 (2009 IBC Section 1405.14)], installation must be in accordance with Section 4.2.1 of this report.

4.2.3 IRC: For buildings constructed in accordance with the IRC, Novik and Tando Innovative Polymer Siding must be installed as described in Section 4.1 and in accordance with one of the following conditions:

1. For the 2018 and 2015 IRC, installation over sheathing other than foam plastic sheathing, in applications where the building's mean roof height and ultimate wind speed [2018 IRC Figure

R301.2(5)A (2015 IRC Figure R301.2(4)A)] are in accordance with Table R703.3.1, sheathing must be as required by Table R703.3(1) of the IRC. Should any of these conditions not be met, installation must be in accordance with Section 4.3 of this report.

2. For the 2012 and 2009 IRC, installation over sheathing other than foam plastic sheathing, in applications where the building's mean floor height does not exceed 30 feet and the basic wind speed [Figure R301.2(4)A] is less than 110 mph (49 m/s) in Exposure B, and does not exceed 90 mph (40 m/s) in Exposure C or 85 mph (37 m/s) in Exposure D, sheathing must be as required by Table R703.4 of the IRC. Should any of these conditions not be met, installation must be in accordance with Section 4.3 of this report.

4.3 Installation:

The Novik and Tando Innovative 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 it will be subjected to in use. The substrate must be covered with an approved water-resistive barrier where required by code.

For each given profile, fastening must be in accordance with Table 1 to withstand the tabulated allowable negative wind pressures.

The fastener shank diameter and head diameter must be a minimum, respectively, of 0.120 inch (3.05 mm) and 0.375 inch (9.53 mm). Siding fasteners must be installed through the centers of the nailing slots in the fastening flanges, leaving a space between the fastener head and the face of the flange, and leaving a minimum $\frac{3}{8}$ -inch (9.53 mm) clearance at all J-channels and stops, so as not to restrict movement and to allow for thermal expansion and contraction of the panels. Once installed, each panel must be adjusted to the proper location and fixed in position by the installation of one fastener through the nonslotted hole in the center of the panel. See the manufacturer's published installation instructions for more details concerning installation. Accessories such as corners, starter strips and trim must be fastened at 8 inches on center (203 mm) in accordance with the manufacturer's published instructions. 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 the design pressures shown in Table 1. In jurisdictions adopting the IRC, the siding must be installed in accordance with Table R703.3(1) of the 2018 and 2015 IRC and Table R703.4 of the 2012 and 2009 IRC, and limited to areas where the design wind pressure does not exceed the design values shown in Table 1.
- 5.3 The siding is limited to use on Construction Type VB (IBC) and to structures constructed in accordance with the IRC.
- 5.4 Under Section 1403.12.2 of the 2018 IBC [Section 1404.12.2 of the 2015 and 2012 IBC], the fire separation distance between the building with the siding and adjacent buildings must be no less than 10 feet (3048 mm).
- 5.5 Under Section R703.14.2 of the IRC, polypropylene siding must not be installed on walls with a fire separation distance of less than 5 feet (1524 mm) and walls closer than 10 feet (3048) to a building on another lot.
- 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.
- 5.7 The Novik and Tando Innovative Polymer Siding is manufactured in Miami, FL, under a quality-control program with inspections by ICC-ES.

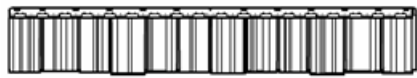
6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Polypropylene Siding (AC366), dated October 2018.

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, LLC) and address, the product name, manufacturer's lot number, and the evaluation report number (ESR-3070). 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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MIAMI, FLORIDA 33169
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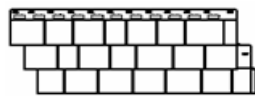
TANDOSHAKE™ RUSTIC CEDAR 9



TANDOSHAKE™ HAND SPLIT SHAKE



TANDOSHAKE™ ROUGHSAWN CEDAR DUAL



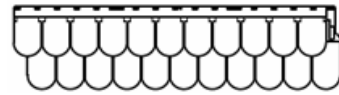
TANDOSHAKE™ R&R 4.5"



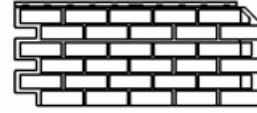
TANDOSHAKE™ ROUGHSAWN CEDAR SINGLE



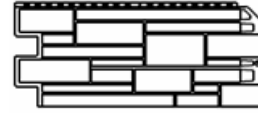
TANDOSHAKE™ ROUGHSAWN CEDAR
STAGGERED PANEL



TANDOSHAKE™ SCALLOPED PERFECTION



TANDOSTONE™ BRICK



TANDOSTONE™ HAND-CUT STONE
(TANDOSTONE™ CRAFTSMAN CUT STONE)



TANDOSTONE™ STACKED STONE
(NOVIKSTONE™ MS)



TANDOSTONE™ CREEK LEDGESTONE
(NOVIKSTONE™ CS)

FIGURE 1—NOVIK AND TANDO INNOVATIVE POLYMER SIDING PRODUCT PROFILES

TABLE 1—ALLOWABLE WIND PRESSURES

PRODUCT NAME	NAILING FLANGE THICKNESS (inches)	LENGTH (inches)	FASTENER SPACE (inches)	ALLOWABLE NEGATIVE WIND LOAD (psf)
TANDOSHAKE™ RUSTIC CEDAR 9	0.090	72 ⁷ / ₈	8	154
TANDOSHAKE™ HAND-SPLIT SHAKE	0.090	41 ³ / ₈	8	49
TANDOSHAKE™ ROUGHSAWN CEDAR DUAL	0.090	59 ¹ / ₈	10	127
TANDOSHAKE™ ROUGHSAWN CEDAR SINGLE	0.090	90 ¹ / ₁₆	8	164
TANDOSHAKE™ R&R 4.5"	0.090	43 ⁵ / ₈	8	167
TANDOSHAKE™ SCALLOPED PERFECTION	0.090	59 ¹ / ₈	8	145
TANDOSTONE™ BRICK	0.090	44 ¹ / ₄	8	34
TANDOSTONE™ HAND-CUT STONE (TANDOSTONE™ CRAFTSMAN CUT STONE)	0.90	44 ³ / ₁₆	8	32
TANDOSTONE™ STACKED STONE (NOVIKSTONE™ MS)	0.090	44 ¹ / ₂	16	49
TANDOSTONE™ CREEK LEDGESTONE (NOVIKSTONE™ CS)	0.090	45 ³ / ₄	8	56
TANDOSHAKE™ ROUGHSAWN CEDAR STAGGERED PANEL	0.090	59 ¹ / ₈	10	127

For **SI**: 1 inch = 25.4 mm, 1 psf = 0.0479 kPa.

TABLE 2—MINIMUM SIDE LAP

PROFILE	MINIMUM SIDE LAP		NOTES
	Top	Bottom	
TandoShake™ Rustic Cedar 9	1/2"	1/2"	-----
TandoShake™ Hand Split Shake	1/4"	3/4"	Side locking tab interlock
TandoShake™ RoughSawn Cedar Dual	1 1/2"	1/2"	Side locking tab interlock
TandoShake™ RoughSawn Cedar Single	1/2"	1/2"	-----
TandoShake™ R&R 4.5"	2 1/2"	1/2"	Overlap profile varies, side locking tab interlock
TandoShake™ Scalloped Perfection	1 1/2"	1/2"	Overlap profile varies, side locking tab interlock
TandoShake™ Brick	3/8"	3/8"	Overlap profile varies
TandoStone™ Hand-Cut Stone (TandoStone™ Craftsman Cut Stone)	1/2"	1/2"	Overlap profile varies
TandoStone™ Stacked Stone and NovikStone™ MS	1"	1"	Overlap profile varies, side locking tab interlock
TandoStone™ Creek LedgeStone and NovikStone™ CS	1 1/2"	1 1/2"	Overlap profile varies, side locking tab interlock
TandoShake™ RoughSawn Cedar Staggered Panel	1 1/2"	1/2"	Side locking tab interlock

For SI: 1 inch = 25.4 mm.

TABLE 3—PRODUCT DESCRIPTION

PRODUCT NAME	DESCRIPTION
TandoShake™ Rustic Cedar 9	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 72 ⁷ / ₈ " X 11 ¹ / ₂ " X 0.090"
TandoShake™ Hand-Split Shake	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 41 ³ / ₈ " X 18 ¹ / ₂ " X 0.090"
TandoShake™ RoughSawn Cedar Dual	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 59 ¹ / ₈ " X 15" X 0.090"
TandoShake™ RoughSawn Cedar Single	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 90 ¹ / ₁₆ " X 8 ¹ / ₂ " X 0.090"
TandoShake™ R&R 4.5"	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 43 ⁵ / ₈ " X 15 ¹ / ₂ " X 0.090"
TandoShake™ Scalloped Perfection	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 59 ¹ / ₈ " X 15 ¹ / ₈ " X 0.090"
TandoStone™ Brick	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 44 ¹ / ₄ " X 18 ³ / ₄ " X 0.090"
TandoStone™ Hand-Cut Stone or Craftsman Cut Stone	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 44 ³ / ₁₆ " X 18 ³ / ₈ " X 0.090"
TandoStone™ Stacked Stone and NovikStone MS	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 44 ¹ / ₂ " X 19 ³ / ₈ " X 0.090"
TandoStone™ Creek LedgeStone and NovikStone CS	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 45 ³ / ₄ " X 19 ⁷ / ₁₆ " X 0.090"
TandoShake™ RoughSawn Cedar Staggered Panel	Mineral filled polypropylene resin; available in multiple colors; overall dimension: 59 ¹ / ₈ " X 15 ¹ / ₄ " X 0.085"

For SI: 1 inch = 25.4 mm.

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ESR-3070 FBC Supplement

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Novik and Tando Innovative Polymer Siding, recognized in ICC-ES master evaluation report ESR-3070, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 *Florida Building Code—Building*
- 2017 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Novik and Tando Innovative Polymer Siding, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3070, complies with the *Florida Building Code—Building* and *Florida Building Code—Residential*, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the master report.

Use of the Novik and Tando Innovative Polymer Siding for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued September 2018 and revised December 2018.