

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 33—Plastic Siding

REPORT HOLDER:

BORAL BUILDING PRODUCTS, INC.

EVALUATION SUBJECT:

FOUNDRY PREMIUM VINYL SIDING

ADDITIONAL LISTEES:

ALSIDE

(Profiles distributed under the Architectural Classics brand name: Shakes, Shingles, Rounds, 10" Staggered Shakes, Transition Starter)

EXTERIOR PORTFOLIO/ROYAL BUILDING PRODUCTS
(Profiles distributed under the Exterior Portfolio/Royal Building Products Portsmouth "V" Pro Series brand name: Cedar Shingles)

KAYCAN LTD.

(Profiles distributed under the Eagle Rock brand name: Shakes, Shingles, 10" Staggered Shakes, Fish Scale, Half Cove, Octagon, Hexagon, Rounds, Mitered Corner, Transition Starter)

NORANDEX BUILDING MATERIALS DISTRIBUTION INC.

(Profiles distributed under the Home Accents brand name: Shakes, Shingles, Rounds, Fish Scale, 10" Staggered Shakes, Transition Starter, Perfection Shingles)

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:

- Durability
- Exterior veneer

- Wind load resistance
- Ignition resistance

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

- 2019 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

Foundry Premium Vinyl Siding products are used as exterior wall coverings over an approved sheathing capable of supporting the imposed loads.

3.0 DESCRIPTION

Foundry Premium Vinyl Siding products are extruded from polyvinyl chloride (PVC) and acrylic based resins and conform to the requirements of ASTM D3679. The siding is available in a range of colors, textures, and profiles. The siding is produced in a nominal wall thickness of 0.040 inch. Refer to Table 1 for the profile names and related descriptive information. Siding accessory products, such as outside corners, starter strips, J-channels and utility trim are manufactured from the same material as the siding.

The attributes of the Foundry Premium Vinyl Siding products 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 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.

4.0 DESIGN AND INSTALLATION

4.1 General:

Installation of Foundry Premium Vinyl Siding products must comply with the prescriptive requirements of 2015, 2012 or 2009 IBC Section 1405.14, 2006 IBC Section 1405.13; or 2015, 2012, 2009 or 2006 IRC Sections R703.4 and R703.11.1 and 2015 IRC Table R703.3(1) or 2012, 2009 or

2006 IRC Table R703.4, as applicable; ASTM D4756; this report; and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

Flashing in accordance with the applicable code must be installed at all openings, penetrations, and abutments with dissimilar materials, and at terminations of the sidings and soffit.

Siding fasteners must be long enough to provide the minimum penetration into sheathing and framing combined or through the plywood sheathing, as required by the applicable code; and must be installed through the center of the nailing slots, leaving a minimum $\frac{1}{8}$ -inch (3.2 mm) space between the fastener head and the face of the vinyl nailing hem, so as not to restrict movement due to expansion and contraction. The fastener spacing must be as designated in Table 1.

Siding panels must be able to expand and contract. If the outside temperature is 50°F (10°C) or above, a $\frac{3}{8}$ -inch-wide (9.5 mm) gap must be provided at the siding panel ends. If the temperature is below 50°F (10°C), a $\frac{1}{2}$ -inch-wide (12.7 mm) gap must be provided at the siding panel ends. The bottom corners of the shake, shingle and staggered shake products must be installed on the top step of the wood grains of the lower panels. The siding must not be nailed tightly.

Accessory materials such as outside corners, starter strips, J-channels and utility trim must be installed in accordance with the manufacturer's published installation instructions and the applicable code. A minimum $\frac{3}{8}$ -inch (9.5 mm) clearance is required on all J-channels and stops to allow for panel expansion and contraction.

4.2 Wind Resistance:

4.2.1 General: The design wind pressure must be determined in accordance with the requirements of IBC Chapter 16 or IRC Section R301.2.1.1, as applicable, and must not exceed an allowable wind load of 35.9 psf (1 719 Pa), 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, vinyl siding must be installed as described in IBC Section 1405.14 and Section 4.1 of this report, over sheathings or materials addressed in IBC Section 2304.6 and 2015 IBC Section 2308.5.11, as applicable, that are capable of independently resisting both positive and negative wind pressures occurring under design conditions at the building location. The allowable negative wind load for the vinyl siding shown in Table 1 is 35.9 psf (1 719 Pa); the sheathing must be capable of withstanding the indicated negative load, or greater. Positive wind pressures are not considered for the siding, since the sheathing must be capable of supporting the imposed loads, including but not limited to, positive and negative transverse wind pressures.

4.2.3 IRC: For buildings constructed in accordance with the IRC, the sidings must be installed as described in Section 4.1 and the following, as applicable:

1. **2015 IRC:** For installation over sheathing other than foam plastic sheathing, the maximum mean roof height and ultimate wind speed (3-second gust) must not exceed the limits in IRC Table R703.3.1.

Where the design negative wind pressure exceeds 30 psf (1 436 Pa) or where the wind conditions exceed the limits in IRC Table R703.3.1, the attachment of the siding must be designed in

accordance with IRC Section R703.3.1. The allowable negative wind load for the vinyl siding is 35.9 psf (1 719 Pa). The siding must be installed over sheathing that is capable of independently resisting both positive and negative wind pressures occurring under the design conditions at the building location. Positive wind pressures are not considered for the siding, since the sheathing must be capable of supporting the imposed loads, including but not limited to, positive and negative transverse wind pressures.

2. **2012, 2009 and 2006 IRC:** For installation over sheathing other than foam plastic sheathing, in applications where the building's mean roof height does not exceed 30 feet (9 144 mm) and the basic wind speed (3-second gust) 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.

For wind conditions exceeding those listed above, the siding must be installed over sheathing that is capable of independently resisting both positive and negative wind pressures occurring under the design conditions at the building location. The attachment of the siding must be designed to resist the component and cladding loads specified in IRC Table R301.2(2), adjusted for height and exposure in accordance with IRC Table R301.2(3). The allowable negative wind load for the vinyl siding is 35.9 psf (1 719 Pa). Positive wind pressures are not considered for the siding, since the sheathing must be capable of supporting the imposed loads, including but not limited to, positive and negative transverse wind pressures.

3. For installation over foam plastic sheathing, the siding must be installed in accordance with 2015, 2012 or 2009 IRC Section R703.11.2, as applicable.

4.2.4 Negative Wind Pressures: Allowable negative wind pressures for siding installed over sheathing materials not addressed in Sections 4.2.2 or 4.2.3 are outside the scope of this report.

4.3 Ignition Resistance:

4.3.1 2015 and 2012 IBC: When installed in accordance with IBC Section 1406.2.1, on exterior walls on buildings of Type I, II, III or IV construction over fire-retardant treated wood sheathing, the siding may be installed at a fire separation distance of 5 feet (1 524 mm) or less in accordance with Section 1406.2.1.1.1. When the exterior wall is required to be fire-resistance-rated, the fire separation distance must be in accordance with IBC Section 705.5.

4.3.2 2009 and 2006 IBC: When installed in accordance with IBC Section 1406.2.2, on exterior walls on buildings of Type I, II, III or IV construction, the siding may be installed at a fire separation distance of 5 feet (1 524 mm) or less in accordance with IBC Section 1406.2.1.1. When the exterior wall is required to be fire-resistance-rated, the fire separation distance must be in accordance with 2009 IBC Section 705.5 or 2006 IBC Section 704.5, as applicable.

5.0 CONDITIONS OF USE

The Foundry Premium Vinyl Siding products described in this report comply with, or are suitable alternatives 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 installation 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 Exterior walls must be braced or sheathed to resist racking loads with approved materials in accordance with the requirements of the applicable code.
- 5.3 The sheathing must be covered with a water-resistive barrier, as required by the applicable code.
- 5.4 The Foundry Premium Vinyl Siding products are manufactured in Franklin, Ohio, under a quality control program with inspections conducted by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Vinyl Siding (AC37), dated February 2014 (Editorially revised July 2015).
- 6.2 Report of ignition resistance testing in accordance with NFPA 268.

7.0 IDENTIFICATION

- 7.1 The Foundry Premium Vinyl Siding products described in this report must be identified by a stamp or label bearing the manufacturer’s name (Boral Building Products, Inc.), the product type, the statement “Conforms to ASTM Specification D3679,” and the evaluation report number (ESR-1728).
- 7.2 The report holder’s contact information is the following:

BORAL BUILDING PRODUCTS, INC.
29797 BECK ROAD
WIXOM, MICHIGAN 48393
(800) 521-8486
www.boral.com

- 7.3 The Additional Listees’ contact information is the following:

ALSIDE
3773 STATE ROAD
CUYAHOGA FALLS, OHIO 44223
(330) 922-7627

EXTERIOR PORTFOLIO/ROYAL BUILDING PRODUCTS
1441 UNIVERSAL ROAD
POST OFFICE BOX 1058
COLUMBUS, OHIO 43216
(614) 754-3629

KAYCAN LTD.
3075 TRANS-CANADA HIGHWAY
POINTE-CLAIRE, QUEBEC H9R 1B4
CANADA
(514) 694-5855

NORANDEX BUILDING MATERIALS DISTRIBUTION INC.
300 EXECUTIVE PARKWAY, SUITE 100
HUSON, OHIO 44236
(800) 528-0942

TABLE 1—PRODUCT DESCRIPTIONS, NOMINAL THICKNESSES, AND FASTENING REQUIREMENTS

PRODUCT NAME	PRODUCT FAMILY	EXPOSURE (inches)	NOMINAL THICKNESS (in)	FASTENER TYPE	FASTENER SPACING (in)
Shakes	7" Shake	7	0.040	Nails	16
Shingles	7" Shake	7	0.040	Nails	16
Cedar Shingle	7" Shake	7	0.040	Nails	16
Perfection Shingles	7" Shake	7	0.040	Nails	16
10" Staggered Shakes	10" Staggered	10	0.040	Nails	16
7" Staggered Shakes	7" Shake	7	0.040	Nails	16
Fish Scale	Shapes	6	0.040	Nails	16
Half Cove	Shapes	6	0.040	Nails	16
Mitered Corner	Shapes	6	0.040	Nails	16
Rounds	Shapes	6	0.040	Nails	16
Octagon	Shapes	6	0.040	Nails	16
Hexagon	Shapes	6	0.040	Nails	16
Transition Starter	Shapes	6	0.040	Nails	16
Limestone	10" Stone Collection	10	0.040	Nails	16

For **SI**: 1 inch = 25.4mm, 1 psf = 47.88Pa.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Foundry Premium Vinyl Siding, recognized in ICC-ES master report ESR-1728, 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

Foundry Premium Vinyl Siding, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1728, complies with the *Florida Building Code—Building* and the *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 Foundry Premium Vinyl Siding for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this evaluation 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 evaluation report, reissued May 2020.