

ICC-ES Evaluation Report

ESR-1083*

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

REPORT HOLDER:

EXTERIOR PORTFOLIO, LLC
1441 UNIVERSAL ROAD
COLUMBUS, OHIO 43207
(614) 443-4891
www.exteriorportfolio.com

EVALUATION SUBJECT:**EXTERIOR PORTFOLIO VINYL SIDINGS****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2009 and 2006 *International Building Code*® (IBC)
- 2009 and 2006 *International Residential Code*® (IRC)
- BOCA® *National Building Code*/1999 (BNBC)
- 1999 *Standard Building Code*® (SBC)
- 1997 *Uniform Building Code*™ (UBC)

Properties evaluated:

- Exterior veneer
- Wind resistance

2.0 USES

Exterior Portfolio vinyl sidings are used as exterior wall coverings and as a closure material on the underside of exposed eaves (soffits).

3.0 DESCRIPTION

Exterior Portfolio vinyl sidings are horizontal and vertical sidings and soffits, extruded from a solid rigid polyvinyl chloride (PVC) compound, that conform to the requirements of ASTM D 3679. These exterior cladding products are produced in a variety of profiles, lengths, and thicknesses. Refer to Table 1 for product codes, descriptions, and dimensions. The siding panels have an upper hooking lock, a butt lock and a slotted nailing flange. Accessory products such as corners, starter strips, J-channels and trim pieces and other accessory items are manufactured of the same materials as the siding.

4.0 INSTALLATION**4.1 General:**

Installation of Exterior Portfolio vinyl sidings, soffits and accessory materials such as corners, starter strips, and trim must be in accordance with ASTM D 4756, the manufacturer's published installation instructions, the applicable code and this report. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The siding must be installed over solid sheathing with an approved water-resistive barrier as required by the applicable code. Flashing in accordance with the applicable code must be installed at all openings, penetrations, abutments with dissimilar materials, and at terminations of the sidings and soffit, to maintain the weather tightness of the assembly.

Wood furring strips or wood stud framing must have a minimum specific gravity of 0.42 and must be of sufficient strength to resist the imposed loads required by the applicable code.

Fasteners for attaching the siding to framing must be corrosion-resistant nails with minimum ³/₈-inch-diameter (9.5 mm) heads and ¹/₈-inch-diameter (3.2 mm) shanks. The length of the nails shall be 2¹/₂ inches (64 mm) for profiles with exposures of 12 inches (305 mm) or greater, and 1¹/₂ inches (38 mm) for all other profiles listed in Table 1.

Nails must be installed into framing members at 16 inches (406 mm) on center in the center of the nail slots that are preformed in the siding. The nails must be driven perpendicular to the substrate and such that a minimum ¹/₃₂-inch (0.8 mm) clearance is left between the back of the nail head and the face of the siding, so as not to restrict movement due to expansion and contraction.

A minimum ¹/₄-inch-wide (6.4 mm) gap must be provided at all openings and terminations, for expansion and contraction. When exterior cladding components are to be installed in temperatures below 40°F (4.4°C), a minimum ³/₈-inch-wide (9.5 mm) gap must be provided. Joints between panels must be overlapped a minimum of 1 inch (25.4 mm).

4.2 Wind Resistance:

The design wind pressure must be determined in accordance with the requirements of Chapter 16 of the IBC, UBC, BNBC, and SBC, or Section R301.2.1.1 of the IRC, as applicable, and must not exceed the values shown

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in Table 1. Wind resistance of soffit panels is outside the scope of this report except where specifically listed in Table 1 and where installation is as siding.

5.0 CONDITIONS OF USE

The vinyl sidings 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 complies with this report, the manufacturer's published installation instructions and the applicable code. If there is a conflict between the installation instructions and this report, this report must govern.
- 5.2 Installation is limited to buildings of Type V-B (IBC), Type V-N (UBC), Type 5B (BNBC), and Type VI (SBC) construction, and buildings constructed in accordance with the IRC.
- 5.3 Siding must be installed only on exterior walls covered by solid sheathing and a water-resistive barrier.

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

5.5 The vinyl siding products are manufactured in Columbus, Ohio, under a quality control program with inspections by Architectural Testing, Inc. (AA-676).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Vinyl Siding (AC37), dated June 2009.

7.0 IDENTIFICATION

Each carton of the vinyl siding described in this report is identified at a minimum with the manufacturer's name (Exterior Portfolio, LLC), the product code, the statement "Conforms to ASTM specification D 3679", the statement "Conforms to UBC Standard 14-2", and the evaluation report number (ESR-1083).

TABLE 1—SIDING DESCRIPTIONS

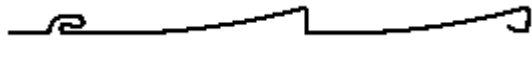
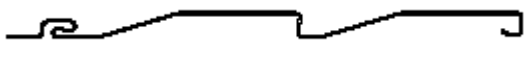
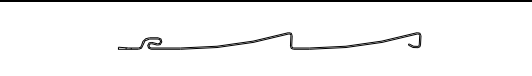
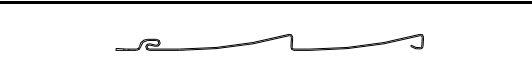
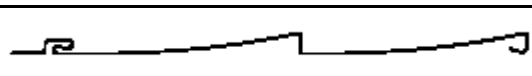
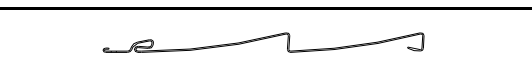
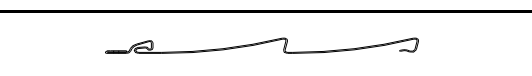
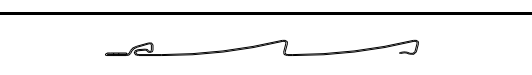
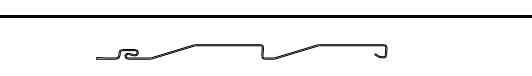
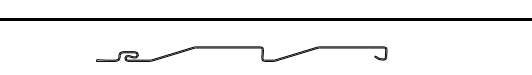
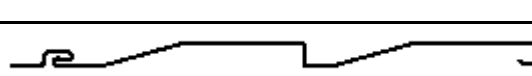
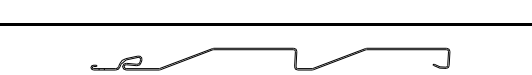

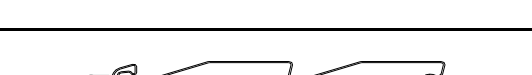



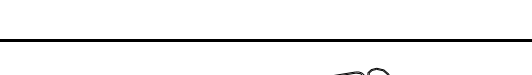
PRODUCT CODE	PANEL CONFIGURATION	EXPOSURE (inches)	PRODUCT LENGTH (ft-in)	NOMINAL THICKNESS (in)	ALLOWABLE NEGATIVE WIND LOAD (psf)	PROFILE
D4	Horizontal Double 4-inch	8	12-6	0.040	46	
D4DL	Horizontal Double 4-inch Dutch Lap	8	12-6	0.040	93	
BP4RL	Horizontal Double 4-inch	8	12-6	0.040	46	
D4CEDAR	Horizontal Double 4-inch	8	12-6	0.042	61	
D5CEDAR	Horizontal Double 5-inch	10	12-0	0.042	62	
D4STD	Horizontal Double 4-inch	8	12-6	0.044	108	
D4PPTM16	Horizontal Double 4-inch	8	16-8	0.046	111	
D4PPTM	Horizontal Double 4-inch	8	12-6	0.046	111	
D4WRL	Horizontal Double 4-inch Dutch Lap	8	12-6	0.040	93	
D4DCG	Horizontal Double 4-inch Dutch Lap	8	12-6	0.042	101	
D5DCG	Horizontal Double 5-inch Dutch Lap	10	12	0.042	89	
D45DLSTD	Horizontal Double 4.5-inch Dutch Lap	9	12-1	0.044	65	
D45PPTM16	Horizontal Double 4.5-inch Dutch Lap	9	16-6	0.046	89	
D45PPTM	Horizontal Double 4.5-inch Dutch Lap	9	12-1	0.046	89	
BP5RL	Horizontal Double 5-inch	10	12-0	0.040	62	
D5STD	Horizontal Double 5-inch	10	12-0	0.044	77	
DL5BP	Horizontal Double 5-inch Dutch Lap	10	12-0	0.040	89	
S65B	Horizontal 6.5-inch	6.5	12-4	0.044	65	

TABLE 1—SIDING DESCRIPTIONS (Continued)

PRODUCT CODE	PANEL CONFIGURATION	EXPOSURE (inches)	PRODUCT LENGTH (ft-in)	NOMINAL THICKNESS (in)	ALLOWABLE NEGATIVE WIND LOAD (psf)	PROFILE
D6IP	Horizontal Double 6-inch wire-cut Foam	12	12-6	0.045	65	
D616IP	Horizontal Double 6-inch wire-cut Foam	12	16-6	0.045	65	
TMD7IP	Horizontal Double 7-inch Molded Foam	14	12-3	0.047	67	
TMD716I	Horizontal Double 7-inch Wire-Cut Foam	14	16-9	0.047	67	
D10BBIP	Vertical Double 10-inch Wire-Cut Foam	20	10	0.55	42	
TMQ45IP	Horizontal Quadruple 4.5-inch Dutch Lap Molded Foam	18	12-1	0.043	63	
TMT6IP	Horizontal Triple 6-inch Molded Foam	18	12-1	0.047	63	
TMT616I	Horizontal Triple 6-inch Wire-Cut Foam	18	16-4	0.047	51	
TMQ4IP	Horizontal Quadruple 4-inch Wire-cut foam	16	12-6	0.043	46	
BSS6 BSV6	6-inch Soffit	6	12-6	0.038		
T3SRS T3SS	10-inch Soffit	10	12-0	0.043		
T4SS T4CS T4FS	12-inch Soffit	12	12-0	0.040	30	
D5SA D5FA	10-inch Soffit	10	12-0	0.038		

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.