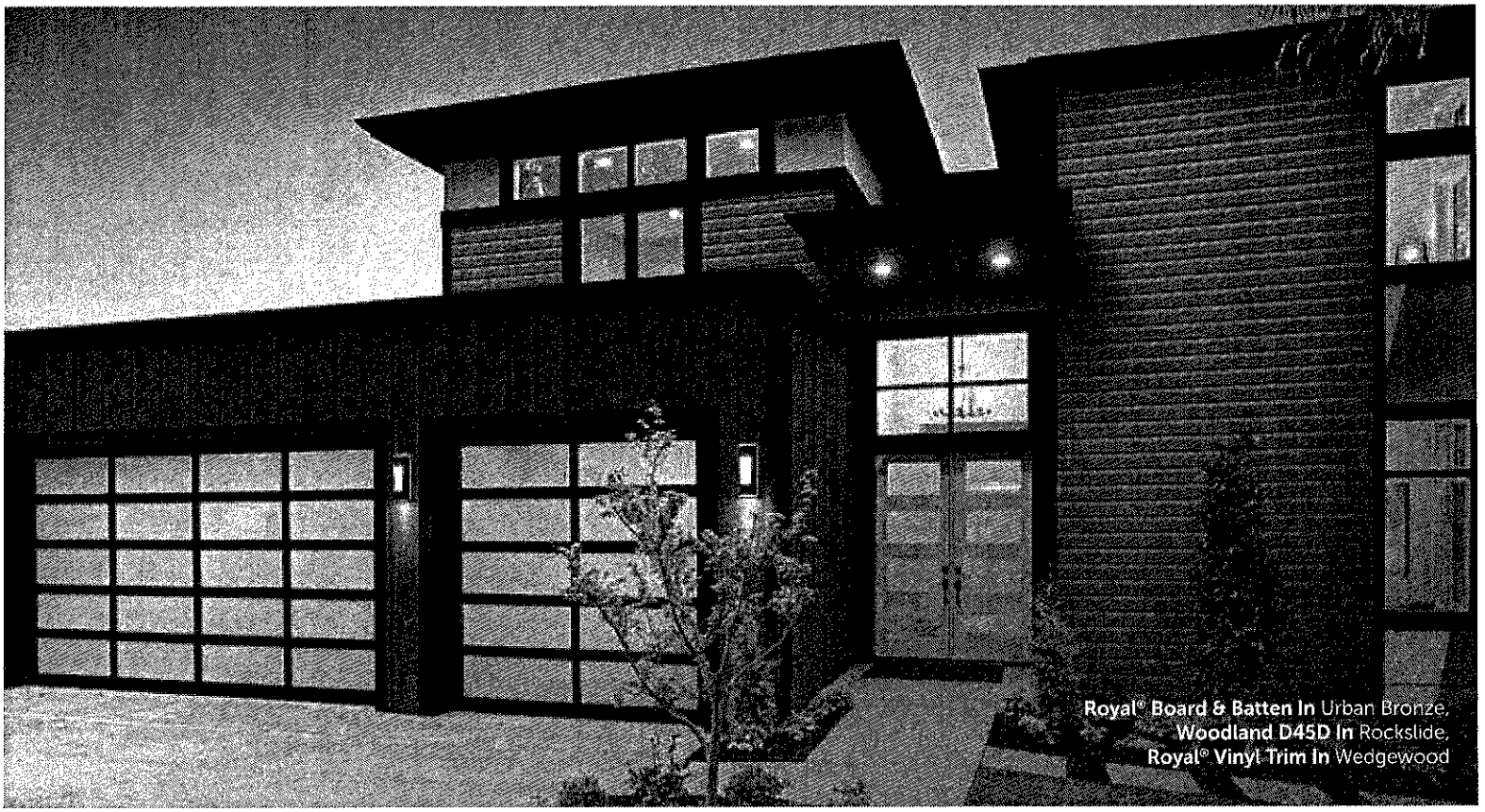
Board & Batten

A MODERN TRANSFORMATION

WITH RUSTIC ROOTS

ROYAL® Siding



MOVING CURB APPEAL

IN A DIFFERENT DIRECTION.

In a starring role or as a complementary accompaniment, our Board & Batten Siding makes the most of its vertical profile to add dimension and character to any home style.

Change-of-pace magnetism is even better when it lasts. Board & Batten is reinforced by rugged weather resistance, long-term durability and year after year of low maintenance.

- **Never needs painting**
- **Won't warp, buckle or sag**
- **Surprisingly green**
- **Industry-leading Double Lifetime Warranty**

On Cover:
Royal® Board & Batten In Heritage Blue,
Portsmouth™ D7 Cedar Shingles In Flagstone,
Zuri® Premium Decking In Chestnut,
Royal® Vinyl Trim In White,
Royal® Column Wraps In White

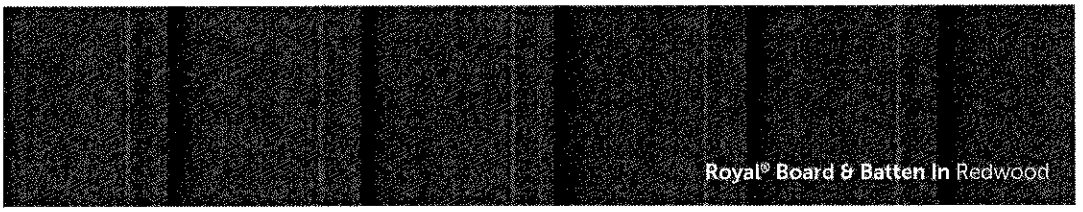
CERTIFICATION PROGRAM

SIDING MOVES IN A

HANDSOME DIRECTION.

Our Board & Batten Siding has a vertical pattern that's warm, versatile and distinguished. While it conveys a strong and clean rustic vibe as a main siding attraction, it's equally powerful as a contemporary accent. Rich color choices, strong durability and no-worry maintenance only add to its curb appeal and overall charm.

- **Robust .046" panel, with Colorscapes® Dark colors increased to .050" for advanced performance**
- **Distinctive, trending vertical profile**
- **Can withstand hurricane-force winds up to 170 mph**
- **Low-gloss finish that replicates the look of real cedar**
- **Classic, seamless appearance**



Royal® Board & Batten In Redwood

A SUSTAINABLE

EXTERIOR PRESENCE.

Board & Batten Siding is as green as it is colorful and curb appealing. It's engineered to eliminate the need for painting or staining, and represents its environmental friendliness in many different ways—from production and manufacturing to transportation and installation. Our facilities recycle virtually all scrap materials during the manufacturing process and Board & Batten Siding was designed so that when cut into, no hazardous materials are emitted during installation. From our facility to your home, our siding is a safe and sustainable option to choose.

- **Manufactured from recyclable and recycled materials**
- **Rivals natural cedar in overall green performance**
- **1/3 the environmental impact of fiber cement**

CONQUER ANY CLIMATE.

Board & Batten Siding delivers high performance against the elements with hurricane-force wind resistance and Chromatix® technology applied to all Colorscapes® Dark and Premium colors.

- **.046" thick panels with ColorScapes Dark colors coming in at .050" for extra robustness**
- **Designed to withstand hurricane-force winds up to 170 mph**
- **Premium and Dark Colorscapes® shades feature Chromatix® technology color protection**

DEEPEN DESIGN WITH COLOR.

Color is crucial to how your siding presents itself. So we pay a lot of attention to what's trending and what works. Choosing your own colors can be fun, but a bit overwhelming. So we created a color combination tool to help. Get ideas and tips at **royalbuildingproducts.com/color-style/royal-color combinations**.

We develop our wide range of colors to fully express design when they're fresh, and years down the road, engineering our siding pigments to deliver vibrant curb appeal, resist fade and fend off elements day after day.

- **Our proprietary Chromatix® technology color protection effortlessly maintains the look you create in a challenging outdoor environment.**
- **Infrared-reflecting pigments reduce heat buildup**
- **UV formulation with mineral-based pigments keep siding colors from fading**

chromatix®
PRESERVES YOUR COLOR.
PROTECTS YOUR INVESTMENT.

See a breadth of line demonstration you'll never forget.

At Westlake Royal we have a passion for pushing the limits of invention. For us, innovating is like breathing. These videos feature our passionately driven engineers Roy and Al exploring and discovery one product revelation after another. See for yourself. Don't just get educated. Get excited.

Go to the Lab

- Distinctive, trending vertical profile
- Broad array of traditional colors and popular, UV-resistant Colorscapes® shades
- Beautiful low-gloss woodgrain captures the look of natural wood
- Designed to withstand hurricane-force winds up to 170 mph
- Premium and Dark Colorscapes® shades feature Chromatix™ technology color protection
- Low-maintenance siding never needs painting
- Won't warp, buckle or sag
- Industry-leading Double Lifetime Warranty
- Manufactured from recycled materials; rivals cedar in green performance

Royal Board & Batten Siding changes up your siding makeup, literally moving curb appeal in a new direction. As the main attraction or as a charming accent, Board & Batten's unique texture and awesome color range add design depth that's simultaneously contemporary, rustic and eye-catching. Plus, its durable, thick panels are thoroughly low maintenance.

Available profiles

Board & Batten	PCS/CTN	**17**
	LBS/CTN	**56**
	Length	**10'**

Additional Resources

Royal Board & Batten Brochure
Royal Product Information Sheet
Royal Vinyl Technical Specification Document
Product Summary

Download All

Royal Standard Premium Warranty
Exterior Portfolio & Royal Evaluation Report
Royal Vinyl Architect Spec Package

EVALUATION REPORT Number: 432

Originally Issued: 06/13/2017 Revised: 06/19/2024 Valid Through: 06/30/2025

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VINYL SIDING AND INSULATED VINYL SIDING

CSI Section: 07 46 33 Plastic Siding

1.0 RECOGNITION

Westlake Royal Building Products (USA) Inc., Vinyl Siding and Insulated Vinyl Siding described in this report were evaluated for use as exterior covering materials as part of the weather-resistant exterior wall envelope.

The exterior veneer, wind resistance, surface burning, fire-resistance, combustibility, thermal resistance, and installation properties of the siding were evaluated for compliance with the following codes:

- 2021, 2018, 2015, and 2012 International Building Code® (IBC)
- 2021, 2018, 2015, and 2012 International Residential Code® (IRC)
- 2021, 2018, 2015, and 2012 International Energy Conservation Code® (IECC)
- 2023 and 2020 Florida Building Code, Building (FBC, Building) – attached supplement
- 2023 and 2020 Florida Building Code, Residential (FBC, Residential)-attached supplement

The Vinyl Siding complies with the requirements for vinyl siding in 2021 and 2018 IBC Section 1404.14, or 2015 and 2012 IBC Section 1405.14. The Insulated Vinyl Siding is recognized as an alternative product under 2021 and 2018 IBC Section 1404, or 2015 and 2012 IBC Section 1405. The Vinyl Siding complies with the requirements of IRC Section R703.11. The Insulated Vinyl Siding complies with the requirements of 2021, 2018, and 2015 IRC Section R703.13.

2.0 LIMITATIONS

Use of the Westlake Royal Building Products (USA) Inc., siding recognized in this report is subject to the following limitations:

2.1 The siding shall be installed in accordance with the applicable code, ASTM D4756, the manufacturer's published installation instructions, and this report. Where there is a conflict, the most restrictive requirements shall govern.

2.2 Flashing and a water-resistive barrier shall be installed as required by the applicable code.

2.3 The siding is manufactured in Woodbridge, Ontario, Canada, and Columbus, Ohio.

3.0 PRODUCT USE

Westlake Royal Building Products (USA) Inc., Vinyl Siding and Insulated Vinyl Siding are for use in Type V Construction and buildings constructed in accordance with the IRC. The siding does not exhibit sustained flaming when tested in accordance with NFPA 268 and may be used at a fire separation distance of 5 feet (1.52 m) or less in Construction Types I, II, III, and IV in accordance with 2021 and 2018 IBC Section 1405, or 2015 and 2012 IBC Section 1406.2.

Royal Brand and Exterior Portfolio Brand Vinyl Siding and Insulated Vinyl Siding was tested in accordance with ASTM E119 as part of a 1-hour fire-resistance-rated assembly and does not reduce the fire-resistance rating of code prescribed 1-hour fire-resistance-rated wall assemblies. The siding has a flame spread index of 25 or less and a smoke developed index of 450 or less when tested in accordance with ASTM E84.

3.1 Design: Building design wind pressures shall be determined in accordance with IBC Section 1609 or IRC Table R301.2(2) and modified for height and exposure in accordance with Table R301.2(3), using an effective wind area of 10 ft^2 (1 m^2) as applicable. The allowable negative wind pressures for the Royal Brand Vinyl Siding, Exterior Portfolio Brand Vinyl Siding, Royal Brand Insulated Vinyl Siding, and Exterior Portfolio Brand Insulated Vinyl Siding are shown in Tables 1, 2, and 3 of this report for the 2021 IBC/IRC and Tables 4, 5, and 6 of this report for the 2018, 2015, and 2012 IBC/IRC. The allowable negative wind pressure for the model of siding selected shall exceed the components and cladding design wind pressures for the building on which it is used. The tabulated allowable pressures for the siding are applicable where the siding is applied directly over sheathing in accordance with IBC Section 2304.6 and substrates capable of independently resisting the full design wind pressures, both positive and negative, and fastened as described in the tables in this report.

The allowable pressures in this report shall not be used as tabulated when vinyl siding is installed solely over foam plastic sheathing as described in 2021 and 2018 IRC Section R703.11.2, or 2015 and 2012 IRC Sections R703.11.2.1 and R703.11.2.2. Vinyl Siding and Insulated Vinyl Siding may be used over foam plastic sheathing provided the allowable pressures are adjusted and the siding is installed in accordance with the conditions described in Section 3.2.1 of this report.

3.2 Installation: Installation of Westlake Royal Building Products (USA) Inc. Vinyl Siding and Insulated Vinyl Siding shall be in accordance with the manufacturer's published installation instructions, the applicable code, and this report.

The installation instructions and this report shall be available on the job site for quality control purposes during installation. Where installed over an approved backing capable of independently resisting the design wind pressure, the siding shall be installed in accordance with 2021 and 2018 IBC Section 1404.14; 2015 or 2012 IBC Section 1405.14; IRC Sections R703.3, R703.3.3, R703.11, and Table R703.3(1) (2012 IRC Table R703.4), as applicable; and the manufacturer's instructions, using the fastening specifications in Tables 1, 2, 3, 4, 5, or 6 of this report.

The siding shall be installed over an approved water resistive barrier on walls flashed to prevent moisture intrusion and redirect it to the exterior. The siding joints shall overlap in accordance with the installation instructions to provide weather protection for the exterior walls. Protection against condensation in the wall assembly shall be provided in accordance with the applicable code. The siding shall be installed to allow movement of the siding panels due to temperature changes. The panels shall be fastened using corrosion-resistant fasteners at the maximum on-center spacing given in Tables 1, 2, 3, 4, 5, or 6 of this report, as applicable, to minimum 0.42-specific-gravity wood substrate or equivalent.

3.2.1 Installation of Vinyl Siding over Foam Plastic Sheathing:

3.2.1.1 Installation in Accordance with 2021 and 2018 IRC: Allowable wind pressure resistance for Vinyl Siding or Insulated Vinyl Siding installed solely over foam plastic sheathing shall not exceed the values tabulated in 2021 and 2018 IRC Table R703.11.2 for the corresponding wind speed and exposure category. The siding shall be installed in accordance with 2021 and 2018 IRC Section R703.11.

3.2.1.2 Installation of Vinyl Siding in Accordance with 2015 or 2012 IRC:

3.2.1.2.1 Prescriptive Installation for Wind Speeds Not Exceeding 115 mph (V_{ult}): Under the 2015 IRC where the wind speeds do not exceed 115 mph, Exposure B (90 mph, Exposure B under the 2012 IRC), Westlake Royal Building Products (USA) Inc. Vinyl Siding may be installed over foam plastic sheathing in accordance with IRC Section R703.11.2.1. Half-inch-thick (12.7 mm) gypsum wallboard shall be installed on the inside of the wall and fastened using minimum 0.120-inch-shank-diameter (3.05 mm) nails with minimum 0.313-inch-diameter (7.95 mm) heads spaced at maximum 16 inches on-center (406 mm) to penetrate minimum $1^1/_4$ inches (31.8 mm) into wood substrate.

3.2.1.2.2 Pressure Reductions for Wind Speeds Exceeding 115 mph (V_{ult}): For wind speeds exceeding 115 mph, Exposure B under the 2015 IRC (90 mph, Exposure B under the 2012 IRC), Westlake Royal Building Products (USA) Inc. Vinyl Siding may be installed over foam plastic sheathing in accordance with IRC Section R703.11.2.2. Fastening shall remain as specified in Tables 4 and 5 of this report for the model of siding selected, and the allowable wind pressures for the siding shall be reduced in accordance with 2015 or 2012 IRC Section R703.11.2.2 based on the wall assembly conditions listed therein.

4.0 PRODUCT DESCRIPTION

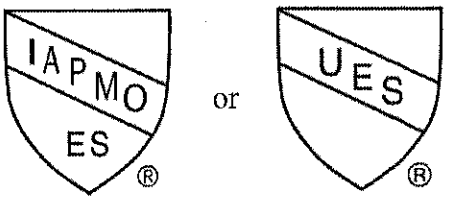
Westlake Royal Building Products (USA) Inc., Vinyl Siding is polyvinyl chloride (PVC) siding complying with ASTM D3679 as required by 2021 and 2018 IBC Section 1403.9, 2015 and 2012 IBC Section 1404.9, and IRC Section R703.11.

Westlake Royal Building Products (USA) Inc., Insulated Vinyl Siding is polyvinyl chloride (PVC) siding with a foam plastic backer complying with ASTM D7793 as required by 2021, 2018, and 2015 IRC Section R703.13. The Vinyl Siding with foam plastic backer provides a minimum R-value of 2.0.

The siding is available in various profiles for both horizontal and vertical installation and for use as soffit. The siding Brands, Product Families, and Styles are described in Tables 1 through 6 of this report. Various accessories such as flashing, corner moldings, and window trim are available for use with the siding products.

5.0 IDENTIFICATION

A label is affixed to the packaging and includes the Westlake Royal Building Products (USA) Inc. name or trademark, the manufacturer's address, and the product model number. The packaging for the Vinyl Siding conforms to the requirements of ASTM D3679; the packaging and labeling for the Insulated Vinyl Siding conforms to the requirements of ASTM D7793. The label also includes the Evaluation Report Number (ER-432). Either IAPMO UES Mark of Conformity may also be used as shown below:



IAPMO UES ER-432

6.0 SUBSTANTIATING DATA

6.1 Reports of testing in accordance with ASTM D3679 and ASTM D7793 as required by ICC-ES Acceptance Criteria for Vinyl Siding (AC37). Approved February 2014, editorially revised January 2021.

6.2 Reports of testing in accordance with Section 3.3 of ICC-ES AC37 Approved February 2014, editorially revised January 2021 to determine an alternative pressure equalization factor for the insulated vinyl siding.

6.3 Reports of Surface Burning Characteristics testing in accordance with ASTM E84.

6.4 Reports of fire-resistance testing in accordance with ASTM E119.

6.5 Reports of ignitability testing in accordance with NFPA 268.

6.6 The manufacturer's quality control documentation.

6.7 Test reports are from laboratories in compliance with ISO/IEC 17025

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Westlake Royal Building Products (USA) Inc. Vinyl Siding and Insulated Vinyl Siding to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. The siding is produced at locations noted in Section 2.3 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

TABLE 1 — ROYAL BRAND VINYL SIDING

Product Family	Product Code	Product Style	Orientation	Exposure (in)	Thickness (in)	Installation Method	Allowable Negative Wind Load (psf) 2021 IBC/IRC
Woodland	RWD45	Double 4.5" Traditional	Horizontal	9	0.046	Standard[1]/Staples[2]	73
	RWD45D	Double 4.5" Designer	Horizontal	9	0.046	Standard[1]/Staples[2]	80
	RWBB	Board and Batten	Vertical	7	0.046	Standard[1]/Staples[2]	60
Estate	ESTD4	Double 4" Traditional	Horizontal	8	0.044	Standard[1]/Staples[2]	80
	ESTD45D	Double 4.5" Designer	Horizontal	9	0.044	Standard[1]/Staples[2]	80
	ESTD5D	Double 5" Designer	Horizontal	10	0.044	Standard[1]/Staples[2]	52
	RCCOL6	Single 6" Beaded	Horizontal	6.5	0.044	Standard[1]/Staples[2]	93
Residential	RED4	Double 4" Traditional	Horizontal	8	0.042	Standard[1]/Staples[2]	47
	RED45	Double 4.5" Traditional	Horizontal	9	0.042	Standard[1]/Staples[2]	64
	RED45D	Double 4.5" Designer	Horizontal	9	0.042	Standard[1]/Staples[2]	64
	RED5	Double 5" Traditional	Horizontal	10	0.042	Standard[1]/Staples[2]	47
	RET3D	Triple 3" Traditional	Horizontal	9	0.042	Standard[1]/Staples[2]	64
Crest	RCD4	Double 4" Traditional	Horizontal	8	0.040	Standard[1]/Staples[2]	58
	RCD4D	Double 4" Designer	Horizontal	8	0.040	Standard[1]/Staples[2]	58
	RCD45D	Double 4.5" Designer	Horizontal	9	0.040	Standard[1]/Staples[2]	53
	RCD5	Double 5" Traditional	Horizontal	10	0.040	Standard[1]/Staples[2]	47
	RCD5D2	Double 5" Designer	Horizontal	10	0.040	Standard[1]/Staples[2]	47
	RCD4V10	Vertical Double 4"	Vertical	8	0.040	Standard[1]/Staples[2]	40
	RC8	Single 8" Traditional	Horizontal	8	0.040	Standard[1]/Staples[2]	47
Soffit as Siding	RSD5VSBF	Vertical Double 5"	Vertical	10	0.042	Standard[1]/Staples[2]	29
Genesis (Crest)	GEND45	Double 4.5" Traditional	Horizontal	9	0.040	Standard[1]/Staples[2]	53
	GEND45D	Double 4.5" Designer	Horizontal	9	0.040	Standard[1]/Staples[2]	53
	GENT3	Triple 3" Traditional	Horizontal	9	0.040	Standard[1]/Staples[2]	53

S.I. Units: 1 inch = 25.4 mm, 1 psf = 47.9 Pa

1. For horizontal siding- Standard fastening shall be minimum 0.120-inch diameter, smooth-shank roofing nails with 0.438-inch diameter heads. The fasteners shall be minimum $1^1/_2$ inches in length and penetrate minimum $1^1/_4$ inches into wood substrate at maximum 16 inches on-center.
   For vertical siding- Standard fastening shall be minimum 0.120-inch diameter, smooth-shank roofing nails with 0.438-inch diameter heads. The fasteners shall penetrate a minimum of $^1/_2$-inch into wood substrate at maximum 12 inches on-center.
2. For horizontal siding- Staple fastening shall be minimum 16 gauge, $^7/_{16}$" crown staple. The staples shall be minimum $1^1/_2$ inches in length and penetrate minimum $1^1/_4$ inches into wood substrate at maximum 16 inches on-center.
   For vertical siding- Staple fastening shall be minimum 16 gauge, $^7/_{16}$" crown staple. The staples shall be minimum $1^1/_2$ inches in length and penetrate minimum $1^1/_4$ inches into wood substrate at maximum 16 inches on-center.