

Product Evaluation Report

CERTIFIED BY INTERTEK

PER - 0803

Issue Date: May 19, 2022

Revision Date: May 20, 2025

Renewal Date: May 31, 2026



SUBJECT: Norandex Vinyl and Insulated Siding

CSI Section: 07 46 33 Plastic Siding

COMPANY:

Norandex Building Materials Distribution

1 ABC Parkway

Beloit, Wisconsin 53511

1.0 SCOPE OF EVALUATION

1.1 Norandex Vinyl Siding has been evaluated for use as exterior wall covering in accordance with the following building codes:

- 2024, 2021, 2018 *International Building Code*® (IBC)
- 2024, 2021, 2018 *International Residential Code*® (IRC)

Norandex Insulated Siding has been evaluated for use as exterior wall covering in accordance with the following building codes:

- 2024 *International Building Code*® (IBC)
- 2024, 2021, 2018 *International Residential Code*® (IRC)

Code sections referenced throughout this report apply to the 2024 IBC or 2024 IRC. See Table 1 for correlation with sections for other codes.

1.2 Norandex Vinyl and Insulated Siding has been evaluated for the following:

- Materials
- Installation
- Wind resistance
- Thermal resistance (insulated siding only)

1.3 Uses:

- IBC Type V construction
- All building types under the IRC

2.0 STATEMENT OF COMPLIANCE

Norandex Vinyl and Insulated Siding comply with the Codes listed in Section 1.1, for the properties and uses stated in

Section 1.2 and 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.

Norandex Vinyl Siding conforms to ASTM D3679 in accordance with:

IBC Sect. 1403.8

IRC Sect. R703.11

Norandex Insulated Siding conforms to ASTM D7793 in accordance with:

IBC Sect. 1403.14

IRC Sect. R703.13

3.0 DESCRIPTION

Norandex Vinyl and Insulated Siding are extruded PVC siding panels formed in various profiles and surface textures. Each panel has a continuous interlocking nail hem for attachment to the exterior wall.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Wind Resistance (Positive Pressure): Norandex Vinyl and Insulated Siding are not evaluated for positive wind pressure and must be installed over structural sheathing rated and installed for the required design wind pressure.

4.2 Wind Resistance (Negative Pressure): Maximum allowable design pressures are given in Tables 2 and 3 for the specified fastening. Specified fastening meets or exceeds IBC Section 1404.15.1 and IRC Sections R703.3, R703.11 and R703.13.

4.3 Thermal Resistance: Norandex Insulated Siding thermal resistance (R-values) are given in Table 4 when tested in accordance with ASTM C1363.

VSI-PCP-PER: [June 21, 2021]

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5.0 INSTALLATION

5.1 General:

Norandex Vinyl and Insulated Siding must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Norandex Vinyl and Insulated Siding shall be installed over structural sheathing designed and installed to resist required wind design pressures.

5.3 Flashing and an approved water-resistive barrier shall be provided in accordance with the code.

5.4 Fasteners shall be as specified in Table 2.

5.4.1 For siding installed horizontally, nails shall be spaced at a maximum of 16 inches along the nail hem with every nail penetrating a minimum of 1-1/4 inches into nailable wood substrate (sheathing and stud).

5.4.2 For siding installed vertically, nails shall be spaced at a maximum of 12 inches along the nail hem with each nail penetrating through minimum 7/16-inch wood sheathing.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this report, the manufacturer's published installation instructions, and the applicable code. In the event of a conflict with manufacturer's instructions, this report shall govern.

6.2 Norandex Vinyl and Insulated Siding are limited to exterior use in Type V (IBC) construction and construction permitted by the IRC.

6.3 Wind design pressures determined from nominal design wind speeds (V_{asd}) in accordance with IBC Section 1609 and IRC Section R301.2.1 and shall not exceed the allowable wind loads specified in Table 2.

6.4 The Norandex Vinyl and Insulated Siding are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Test data demonstrating compliance with ASTM D3679-21 [-17,-13] for vinyl siding.

7.2 Test data demonstrating compliance with ASTM D7793-20 [-17,-13] for insulated vinyl siding.

7.3 Compliance with VSI Product Certification Program.

8.0 IDENTIFICATION

The product recognized in this report is identified by labeling that includes

- The manufacturer's name (Norandex, LLC)
- The product name (Norandex Vinyl and Insulated Siding)
- The VSI certification program mark as shown below with the Product Evaluation Report number (PER-0803)
- In close proximity to the mark, the statement: "Certified by Intertek;" followed by the applicable standards and ratings.



CERTIFICATION PROGRAM

PER-0803

Certified by Intertek:

ASTM D3679 or D7793

Std Design Pressure
Rating: ## PSF (ASD)

R=#.##

9.0 PRODUCT EVALUATION REPORT USE

9.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2 Product Evaluation Reports shall not be used in any manner that implies an endorsement of the product by Intertek or VSI.

9.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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PCA-101

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TABLE 1 – CODE REFERENCES

SUBJECT	2024 IBC	2021 IBC 2018 IBC	2024 IRC	2021 IRC 2018 IRC
Vinyl Siding	1403.8	1403.9	R703.11	R703.11
Insulated Vinyl Siding	1403.14	n/a	R703.13	R703.13
Wind Resistance	1404.15	1404.14	R703.3.2	R703.3.1
Installation	1404.15.1	1404.14.1	R703.11.1	R703.11.1

TABLE 2 – VINYL SIDING WIND LOAD DESIGN PRESSURE (DP) RATING

Brand	Product	Style	Design Pressure Rating ¹	
			DP (PSF)	Fastening
Norandex	Board & Batten	Single 7 Vertical	80	1-1/2-inch long, 1/8-inch shank diameter nail with a 7/16-inch head diameter. Spacing shall be 12-inch o.c. for vertical siding and penetrating 1/2 inch OSB or plywood sheathing.
	Cambridge	Full-Beaded 6-1/2	42	1-1/2-inch long, 1/8-inch shank diameter nail with a 3/8-inch head diameter. Spacing shall be 16 inches o.c. for horizontal siding and penetrating framing.
	Cedar Knolls	Double 4 Horizontal	56	
		Double 5 Horizontal	56	
		Double 5 DutchLap	56	
	Great Barrier	Double 4 Horizontal	78	
		Double 5 Horizontal	78	
		Double 5 DutchLap	78	
	Great Barrier XL	Double 4 Horizontal	78	
		Double 5 Horizontal	78	
		Double 5 DutchLap	78	
	Premium D5 Vertical Vinyl Siding	Double 5 Vertical	33	
	Sagebrush	Double 5 DutchLap	51	
		Double 4 Horizontal	89	
	Shenandoah	Triple 3 Horizontal	40	1-1/2-inch long, 1/8-inch shank diameter nail with a 7/16-inch head diameter. Spacing shall be 16 inches o.c. for horizontal siding and penetrating framing
		Semi-Beaded 6-1/2	69	1-1/2-inch long, 1/8-inch shank diameter nail with a 3/8-inch head diameter. Spacing shall be 16 inches o.c. for horizontal siding and penetrating framing.
	Sterling	Single 8 Horizontal	44	1-1/2-inch long, 1/8-inch shank diameter nail with a 7/16-inch head diameter. Spacing shall be 16 inches o.c. for horizontal siding and penetrating framing
	Summit Manor	Double 4.5 DutchLap	40	1-1/2-inch long, 1/8-inch shank diameter nail with a 7/16-inch head diameter. Spacing shall be 16 inches o.c. for horizontal siding and penetrating framing
		Double 4 Horizontal	47	
		Double 4.5 Horizontal	38	
		Double 5 Horizontal	42	

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Brand	Product	Style	Design Pressure Rating ¹	
			DP (PSF)	Fastening
Norandex	Woodsman Select	Double 4 Horizontal	71	1-1/2-inch long, 1/8-inch shank diameter nail with a 3/8-inch head diameter. Spacing shall be 16 inches o.c. for horizontal siding and penetrating framing.
		Double 4 DutchLap	71	
		Double 5 DutchLap	31	
		Double 5 Horizontal	31	
	Beaded Porch Panel	Triple 2" Vertical	58	1-1/2-inch long, 1/8-inch shank diameter nail with a 7/16-inch head diameter. Spacing shall be 12-inch o.c. for vertical siding and penetrating 1/2 inch OSB or plywood sheathing

1. Design pressure rating is the maximum allowable negative wind load when installed with the fastening specified in the table.

TABLE 3 – INSULATED SIDING WIND LOAD DESIGN PRESSURE (DP) RATING

Brand	Product	Style	Design Pressure Rating ¹	
			DP (PSF)	Fastening
Norandex	Polar Wall Plus	Double 4 Horizontal	76	2-inch long, 1/8-inch shank diameter nail with a 3/8-inch head diameter. Spacing shall be 16 inches o.c. for horizontal siding and penetrating framing.
		Double 5 DutchLap	76	
		Double 6 Horizontal	76	
		Single 12 Vertical Board & Batten	80	2-inch long, 1/8-inch shank diameter nail with a 7/16-inch head diameter. Spacing shall be 12 inches o.c. for vertical siding and penetrating 7/16-inch OSB or plywood.

1. Design pressure rating is the maximum allowable negative wind load when installed with the fastening specified in the table.

TABLE 4 – THERMAL INSULATION VALUES

Brand	Product	Style	Thermal Insulation Value (R-value)
Norandex	Polar Wall Plus	Double 4 Horizontal	2.34
		Double 5 DutchLap	2.42
		Double 6 Horizontal	2.48
		Single 12 Vertical Board & Batten	2.73

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