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NORX
WINDLOAD TEST REPORT

SCOPE OF WORK
ASTM D5206 WINDLOAD TESTING PER ICC-ES AC524 SECTION 3.8 ON ROME COLLECTION, VERTICAL CLADDING

REPORT NUMBER
P0941.06-109-40

TEST DATES
12/27/23 - 12/28/23

ISSUE DATE
02/12/24

RECORD RETENTION END DATE
12/28/27

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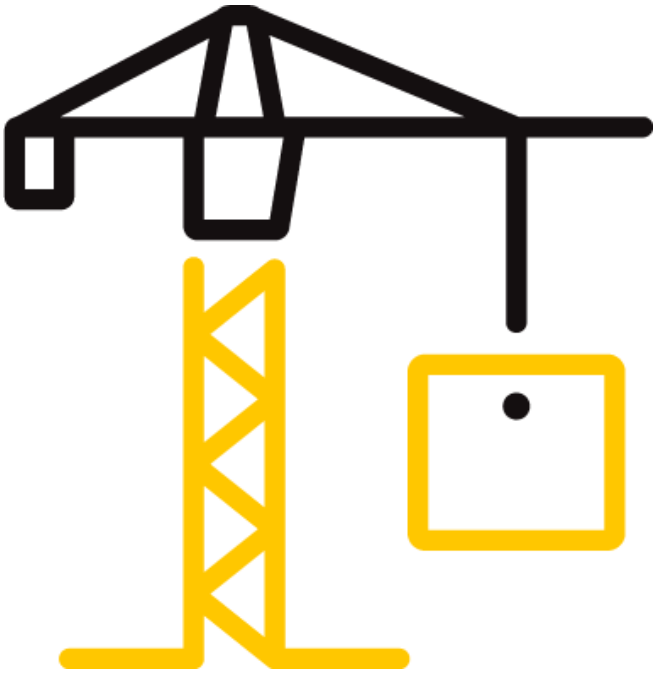

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TEST REPORT FOR NORX
Report No.: P0941.06-109-40
Date: 02/12/24

REPORT ISSUED TO

NORX
20807 Biscayne Blvd. Unit 304
Aventura, Florida 33180

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Norx to perform windload testing in accordance with ASTM D5206 per ICC-ES AC524 Section 3.8 on their Rome Collection, vertical cladding. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk Approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

COMPLETED BY:	Austin G. Beck	**REVIEWED BY:**	Ken R. Stough
TITLE:	Technician – Product Testing	**TITLE:**	Project Manager – Product Testing
SIGNATURE:	Austin G. Beck Digitally Signed by: Austin G. Beck	**SIGNATURE:**	Ken R. Stough Digitally Signed by: Ken Stough
DATE:	02/12/24	**DATE:**	02/12/24

AGB:mas

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SECTION 2
TEST METHODS

The specimens were evaluated in accordance with the following:

ASTM D5206-19, *Standard Test Method for Windload Resistance of Rigid Plastic Siding*

ICC-ES AC524 Section 3.8, *Acceptance Criteria for Wood-Plastic Composite Products used as Exterior Siding*

SECTION 3
MATERIAL SOURCE/INSTALLATION

The specimen(s) were selected by Intertek B&C personnel. The specimen(s) was/were witnessed during production and tagged prior to shipment on 02/13/23-02/14/23, (Reference Intertek B&C Test Specimen Selection Report No. P0941.01-119-19 dated 02/13/23-02/14/23).

The specimen was installed into test buck measuring 8' wide by 4' 1-1/4" high constructed of #2 Spruce-Pine-Fir nominal 2x4 lumber. Five studs were spaced 16" on center (six spans) and were attached to the top and bottom plates with 3" long drywall screws. A sheet of nominal 7/16" thick OSB, with five 4" diameter holes to allow pressure to transfer to the siding, was secured to the studs with #8 x 1-5/8" drywall screws. Spruce-Pine-Fir furring strips measuring 1-1/2" x 1-1/2" were secured to the wall horizontally, located 16" on center (three spans) with 3" long drywall screws. Silicone was utilized on the backside of the test panel to seal the perimeter. A 2-mil thick plastic film was loosely draped over the interior and exterior of the siding to enable attainment of negative and positive pressure.

The first course of cladding was mounted to the furring strips with a 1" wide, 1/16" thick U-shaped starter clip (CLAD-SSS11). A 5/32" drill bit was used to pre drill holes 16" on center to allow 1/8" diameter, 7/32" head, 1-1/2" long trim screws (CLAD-SSC1) to fasten the cladding to the furring strips.

SECTION 4
EQUIPMENT

Tape measure: 63788
Control Panel: 003921
Weather Station: 63316

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TEST REPORT FOR NORX
Report No.: P0941.06-109-40
Date: 02/12/24

SECTION 5
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jason R. Zeller	Intertek B&C
Ken R. Stough	Intertek B&C
Austin G. Beck	Intertek B&C

SECTION 6
TEST SPECIMEN DESCRIPTION

MANUFACTURER	Norx
SERIES/MODEL	Rome Collection
PRODUCT TYPE	Vertical cladding
MATERIAL TYPE	Composite
NOMINAL THICKNESS	0.177"
MEASURED THICKNESS	0.173"
NAIL HEM TYPE	Single
NAIL HEM THICKNESS	0.133"
NAIL SLOT EDGE DISTANCE	0.250"
EXTERIOR FINISH	Wood grain finish

Each specimen consisted of five vertical courses of siding with a female interlock on the right edge and a male interlock on the left edge.

SECTION 7
TEST RESULTS

The temperature during testing was 18-20°C (64-68°F). The results are tabulated as follows:

General Note: *All loads were negative pressure and were held for thirty seconds. A 5.0 psf pre-load was applied before running specimens to failure.*

Test Specimen #1:

PRESSURE	RESULTS
10.0 psf to 120.0 psf	No damage
123.0 psf	Nail hem over-rode the installation fasteners at the 3rd course.

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Test Specimen #2:

PRESSURE	RESULTS
10.0 psf to 120.0 psf	No damage
123.0 psf	Nail hem over-rode the installation fasteners at the 5th course.

Test Specimen #3:

PRESSURE	RESULTS
10.0 psf to 125.0 psf	No damage
127.7 psf	Nail hem over-rode the installation fasteners at the 2nd course.

General Note: *All loads were Positive pressure and were held for thirty seconds. A 5.0 psf pre-load was applied before running specimens to failure.*

Test Specimen #4:

PRESSURE	RESULTS
10.0 psf to 150.0 psf	No damage
150.0 psf	Exceeded the buck limitations

Test Specimen #5:

PRESSURE	RESULTS
10.0 psf to 150.0 psf	No damage
150.0 psf	Exceeded the buck limitations

Test Specimen #6:

PRESSURE	RESULTS
10.0 psf to 150.0 psf	No damage
150.0 psf	Exceeded the buck limitations

SECTION 8
CONCLUSION

The specimens #1-3 tested successfully achieved an Average Maximum Sustained Negative Pressure of 121.7 psf and an Average Ultimate Negative Test Pressure of 124.6 psf.

The specimens #4-6 tested successfully achieved an Average Maximum Sustained Positive Pressure of 150.0 psf and an Average Ultimate Positive Test Pressure of 150.0 psf.

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SECTION 9
PHOTOGRAPH

Photo No. 1
Test Specimen #1 Rome Collection, Vertical Cladding

SECTION 10
DRAWING

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

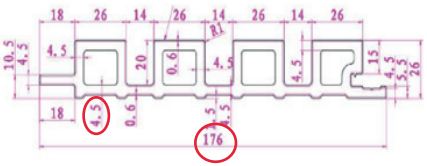
QA DEPARTMENT

Rome Square

SPEC SHEET

ISOMETRIC VIEW

ACTUAL SIZE



MEASURES
(mm / in)

176mm (≈ 6.9in)
26mm (≈ 1.02in)
20mm (≈ 0.78in)
18mm (≈ 0.70in)
16mm (≈ 0.62in)
15mm (≈ 0.6in)
14mm (≈ 0.55in)
10.5mm (≈ 0.41in)
5.5mm (≈ 0.21in)
4.5mm (≈ 0.17in)
1.5mm (≈ 0.05in)
0.6mm (≈ 0.02in)

TECHNICAL DETAILS

DENSITY	1.3g/m3 (Standard: ASTM D792-13 Method B)
TENSILE STRENGTH	24.9 MPa (Standard: ASTM D638-14)
FLEXURAL STRENGTH	34.5Mp (Standard: ASTM D790-10)
FLEXURAL MODULUS	3510Mpa (Standard: ASTM D790-10)
IMPACT STRENGTH	88J/m (Standard: ASTM D4812-11)
SHORE HARDNESS	D70 (Standard: ASTM D2240-05)
WATER ABSORPTION	0.63% (Standard: ASTM D570-98)
THERMAL EXPANSION	33.12 x10-6 (Standard: ASTM D696 - 08)
SLIP RESISTANT	R11 (Standard: DIN 51130:2014)

DIMENSIONS 26mm x 176 mm x 487cm (1 in x 7 in x 16 ft)

COLOURS Colosseum
Pantheon

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Report #: P0941.06
Date: 2/5/24
Verified by: Austin St. Burk

INSPECTION CRITERIA

1. Visual Check
1.1 Type of profile
1.2 Surface
1.3 Color
1.4 Sanding Structure
1.5 Crosscut & Lengthcut
1.6 Core Visual

2. Dimension Check
2.1 Control section and length

3. Measure
3.1 Weight
3.2 Density
3.3 Mechanical strength

DOC NO. 2103-011-ROM

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SECTION 11
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	02/12/24	N/A	Original Report Issue