

ALBUILD SYSTEMS TEST REPORT

SCOPE OF WORK

WATER PENETRATION TESTING ON VENTCLAD™ METAL RAINSCREEN SIDING SYSTEM

REPORT NUMBER

K5864.01-201-44 R0

TEST DATES

10/15/20

ISSUE DATE

10/30/20

RECORD RETENTION END DATE

10/15/24

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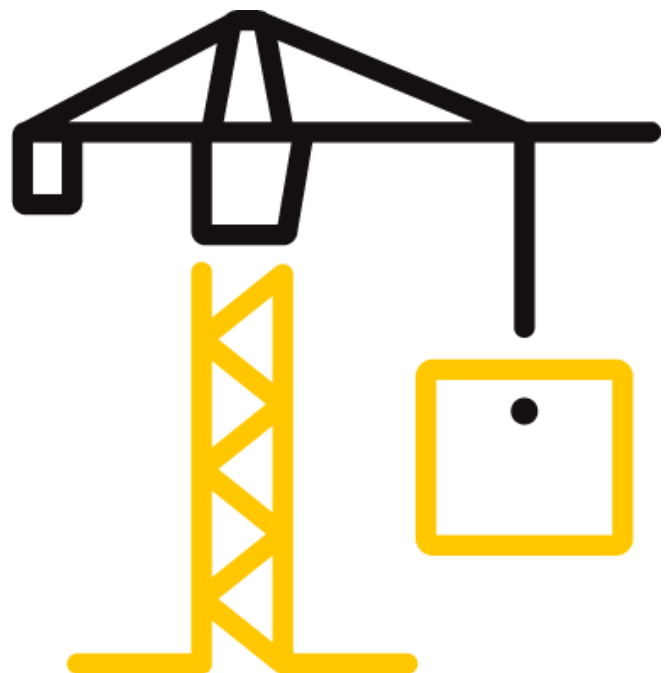
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TEST REPORT FOR ALBUILD SYSTEMS

Report No.: K5864.01-201-44 R0

Date: 10/30/20

REPORT ISSUED TO

Albuild Systems
13441 Erskine St.
Omaha, NE 68164

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Albuild Systems, LLC to perform testing in accordance with ASTM E331, on their Ventclad™ metal rainscreen siding system. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Fridley, MN.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

TITLE	RESULTS	NOTE
Water Penetration Resistance Test Pressure	720 Pa (15.04 psf)	1

For INTERTEK B&C:

COMPLETED BY:	[REDACTED]	REVIEWED BY:	[REDACTED]
TITLE:	Technician I – Building & Construction	TITLE:	Director – Regional Operations
SIGNATURE:	[REDACTED]	SIGNATURE:	[REDACTED]
DATE:	10/30/20	DATE:	10/30/20

KL: daj/wmr

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

ASTM E331-00(2016), *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

Test specimens were provided by the client and installed into Spruce-Pine-Fir wood buck. The stud wall consisted of 2x6 spf#2 studs spaced 16" on center. 1/4" thick polycarbonate was secured to the studs with #6 x 1-1/4" screws spaced 10-12" OC. A 3M™ 3015NP peel and stick water barrier was applied over the polycarbonate. Installation of the tested product was performed by the client, starting at the bottom, going up.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Starter J-channel, nailing flange	#12 x 3" hex head, self-tapping screw	One screw through J-channel, through "Z" bracket, into stud. One 3/4" x 3/4" piece of 3M™ VHB™ tape was used as gasket behind each screw.
Hat channel, corrugated flange	#12 x 3" hex head, self-tapping screw	One screw through flange into stud. Attached to stud wall, spaced 2" and 21-1/2" up from bottom of each panel. One 3/4" x 3/4" piece of 3M™ VHB™ tape was used as gasket behind each screw.
Double reveal H-channel, top nailing flange	#12 x 3" hex head, self-tapping screw	Screws through H-channel into stud. One 3/4" x 3/4" piece of 3M™ VHB™ tape was used as gasket behind each screw.

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SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Greg Albracht	Albuild Systems
Matt King	Albuild Systems
Amelia Albracht	Albuild Systems
[REDACTED]	Intertek B&C
[REDACTED]	Intertek B&C
[REDACTED]	Intertek B&C

SECTION 6

TEST SPECIMEN DESCRIPTION

Product Size(s):

OVERALL AREA:	WIDTH		HEIGHT	
	millimeters	inches	millimeters	inches
5.8 m ² (62.7 ft ²)				
Top Panel	2413	95	514	20-1/4
Middle Panel (x2)	1200	47-1/4	920	36-1/4
Bottom Panel	2413	95	920	36-1/4

Panel Construction:

PANEL MEMBER	MATERIAL	DESCRIPTION
Panel	0.050" thick aluminum	Painted panel.
FM3-VHV™ corrugated steel hat channel	Zinalume® steel	20-gauge, 2.7" wide. Attached with 3M™ VHB™ tape spaced 2-1/2", 12-3/8", 22", 28-1/4", and 34-5/8" up from bottom of panel.
"Z" rail bracket	Zinalume® steel	20-gauge, 1.875" wide. Attached to studs with #12 x 3" hex head, self-tapping screw. One 3/4" x 3/4" piece of 3M™ VHB™ tape was used as gasket behind each screw.

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SECTION 7

TEST RESULTS

The temperature during testing was 21°C (71°F). The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration, per ASTM E331 at 480 Pa (10.0 psf)	Pass	No leakage	2
Water Penetration, per ASTM E331 at 720 Pa (15.0 psf)	Pass	No leakage	2

Additional testing

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration, per ASTM E331 at 1200 Pa (25.0 psf)	Fail	No leakage	2, 3

General Note: All testing was performed in accordance with the referenced standard(s).

Note #1: Static pressure of 720 Pa (15.0 psf) is the highest test pressure for water infiltration listed in the AAMA/WDMA/CSA 101/I.S.2/A440-17 test standard.

Note #2: Several punctures were made into the 3M™ 3015NP barrier, prior to siding installation, to rid wall of air bubbles. Holes were made with a blade then covered with a 1" x 1" piece of the 3M™ 3015NP material.

Note #3: Water was observed coming through one screw penetration. Upon researching the cause, it was found this location was missing 3M foam tape gasket. All other penetrations were dry.



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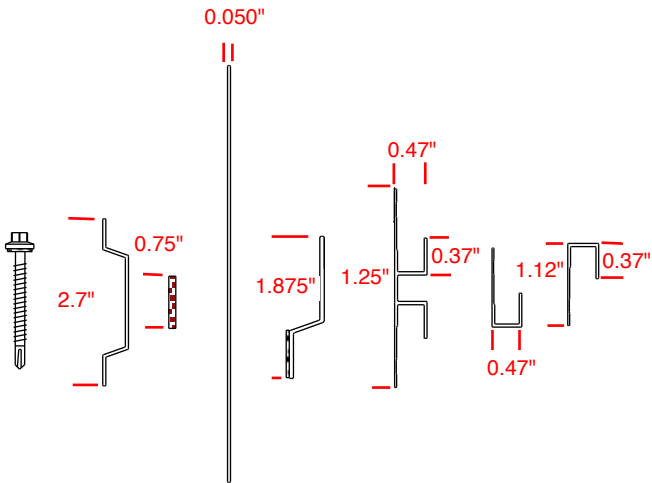
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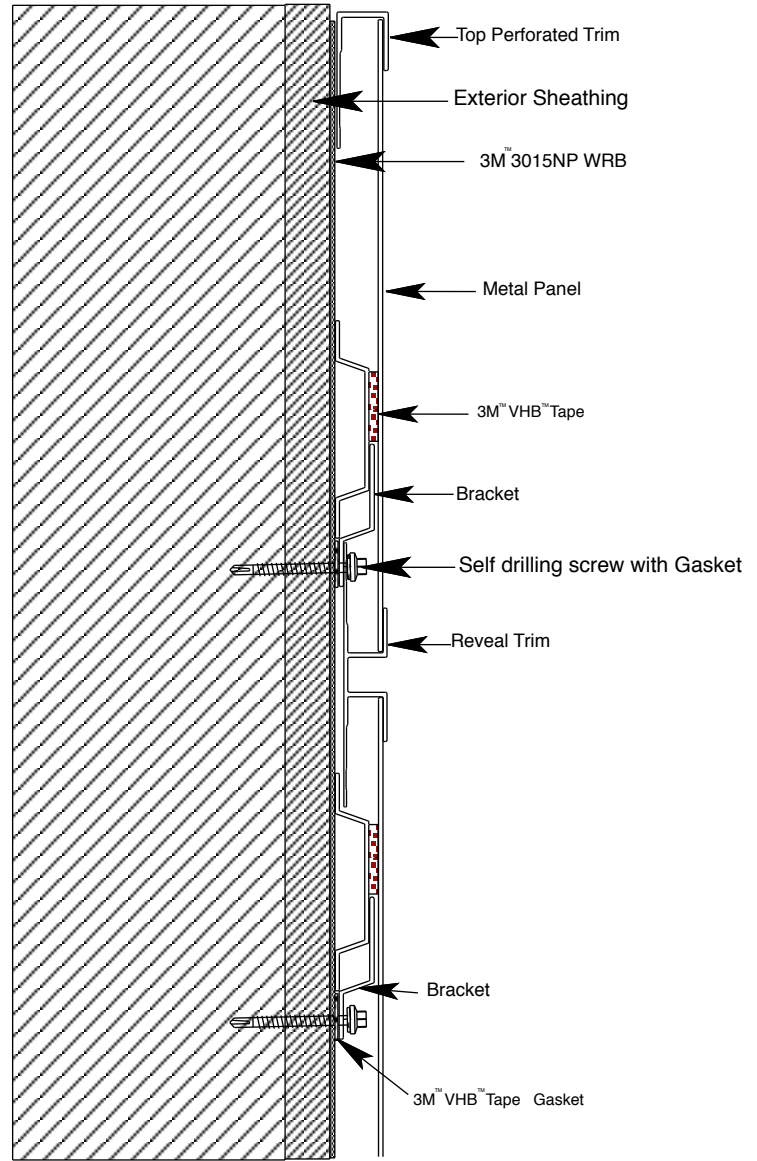
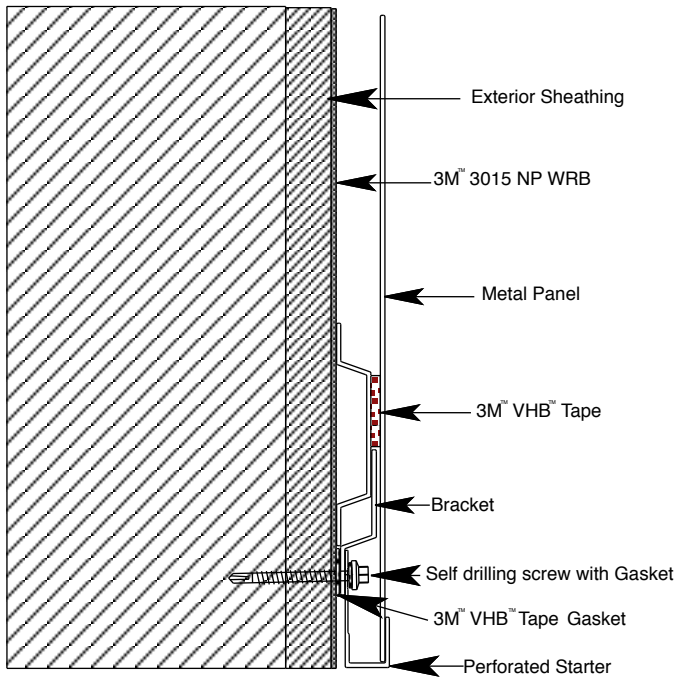
SECTION 8 DRAWINGS

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.

VentClad™ Components



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SECTION 9

REVISION LOG

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