

FASTPLANK INC.

TEST REPORT

TEST REPORT ISSUED TO

Fastplank Inc.
4115 72 Avenue SE
Calgary, AB T2C 2G5
Canada

SPECIFICATION(S) / STANDARD(S)

ASTM E331-00(2016)

PRODUCT SERIES & TYPE

6" Aluminum Fastplank Siding

EVALUATION PROPERTIES

Static Water Penetration Resistance

REPORT NUMBER

104634983COQ-002A

TEST DATE(S)

04/23/21

ISSUE DATE

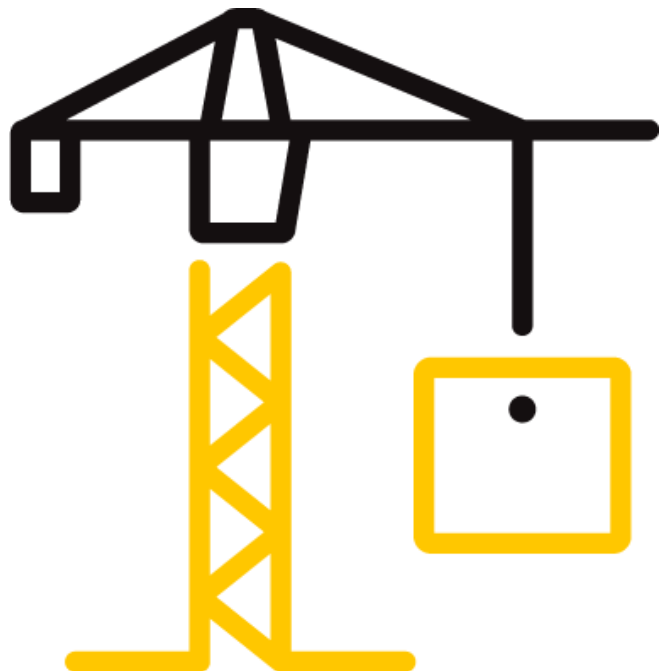
07/23/21

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TEST REPORT FOR FASTPLANK INC.

Report No.: 104634983COQ-002A

Date: 07/23/21

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Fastplank Inc. to perform testing on the Phenolic 6" Aluminum Fastplank Siding System in accordance with the following standard/specifications:

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

Testing was conducted at the Intertek test facility in Coquitlam, BC.

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:	Jason Komorski
TITLE:	Technician – Building Products
SIGNATURE:	
DATE:	07/23/21

REVIEWED BY:	David Park
TITLE:	Reviewer – Building Products
SIGNATURE:	
DATE:	07/23/21

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1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

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604-524-9186
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SECTION 2

SUMMARY OF TEST RESULTS

A summary of results are as indicated in the table below:

Evaluation Property	Results
Static Water Penetration Resistance- 120 min	Pass – 300 Pa (6.2 psf)
Static Water Penetration Resistance- 15 min	Pass – 575 Pa (12.0 psf)
Static Water Penetration Resistance- 15 min	Pass – 958 Pa (20.0 psf)

Details of the tested results can be found in Section 7 of this report.

SECTION 3

TEST METHOD(S)

The specimen was tested and 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

EQUIPMENT

ASSET #	DESCRIPTION	CAL DUE DATE
60650	Fenestration Control Unit	10/19/21
60651	Water Spray Assembly	10/19/21
60652	Water Spray Assembly	10/19/21

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SECTION 5

TEST PROCEDURE

STATIC WATER PENETRATION RESISTANCE

The Static Water Penetration test was tested in accordance with ASTM. This test was performed at the specified pressure differential of 300 Pa (6.2 psf), 575 Pa (12.0 psf) and 958 Pa (20.0 psf) and a water spray rate of at least 204 L/m² per hour (5.0 U.S. gal/ft² per hour). Each test was run for a minimum duration of fifteen minutes, during which the pressure and water spray were continuously applied.

DEVIATION FROM STANDARD METHOD

The test performed at 300 Pa (6.24 psf) was performed for a duration of 120 minutes.

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SECTION 6

TEST SPECIMEN DESCRIPTION

Series/Model: 6" Aluminum Fastplank Siding

Overall Test Size: 96" wide by 96" high

Configuration: Vertical joint is located 64" from the jamb. A 22-3/4" x 34" window is installed on the wider section of the assembly.

Construction of the assembly was performed as per the drawings, provided by the client, within Section 10 of this report. In addition to details provided in the drawing package, the wall assembly was weather-proofed with Tyvek building paper, stapled and sealed with tuck tape. Blue skin was used around the rough opening of the window, and the window installation flange was caulked in place. The window was secured with #8 x 1-1/4" decking screws in every 2nd nailing slot of the nailing flange.

Test Wall Set-up: The 96" wide by 96" high wall was constructed using nominal 2x4 #2 or better SPF with the studs placed at 16" on center. The window opening has a double stud on either side of the window, a double sill below the window and a single header above. Under the window there are 2x cripple studs on either side and 1x at mid-span, as well as 1x cripple stud above the window head at mid-span. The wall was then sheathed with 7/16" OSB sheathing secured with #8 x 1-1/4" decking screws approximately 16" o.c.

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SECTION 7

TEST RESULTS

WATER PENETRATION RESISTANCE #1

During the 120-minute test period, using a pressure differential of 300 Pa (6.2 psf), there was no water leakage observed. The system met the Water Penetration Resistance performance requirements of ASTM E331-00(2016).

WATER PENETRATION RESISTANCE #2

During the 15-minute test period, using a pressure differential of 575 Pa (12.0 psf), there was no water leakage observed. The system met the Water Penetration Resistance performance requirements of ASTM E331-00(2016).

WATER PENETRATION RESISTANCE #3

During the 15-minute test period, using a pressure differential of 958 Pa (20.0 psf), there was no water leakage observed. The system met the Water Penetration Resistance performance requirements of ASTM E331-00(2016).

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SECTION 8

CONCLUSION

The test specimen met the specified performance requirements as described in Section 7.

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SECTION 9 PHOTOGRAPHS



Photo No. 1
Test assembly – Exterior



Photo No. 2
Test assembly – Interior

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Photo No. 3
J-Trim top cap



Photo No. 4
J-Trim backplate



Photo No. 5
Vertical Trim top cap

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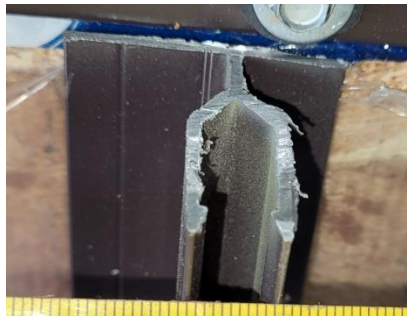


Photo No. 6
Vertical Trim backplate



Photo No. 7
Installation clip profile



Photo No. 8
Installation bolts

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Photo No. 9
Top installation track



Photo No. 10
Installation clips

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SECTION 10

DRAWINGS

The drawings for the 6" Aluminum Fastplank Siding System, as provided by the client, have been reviewed by Intertek B&C and are representative of the sample reported herein. Sample construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

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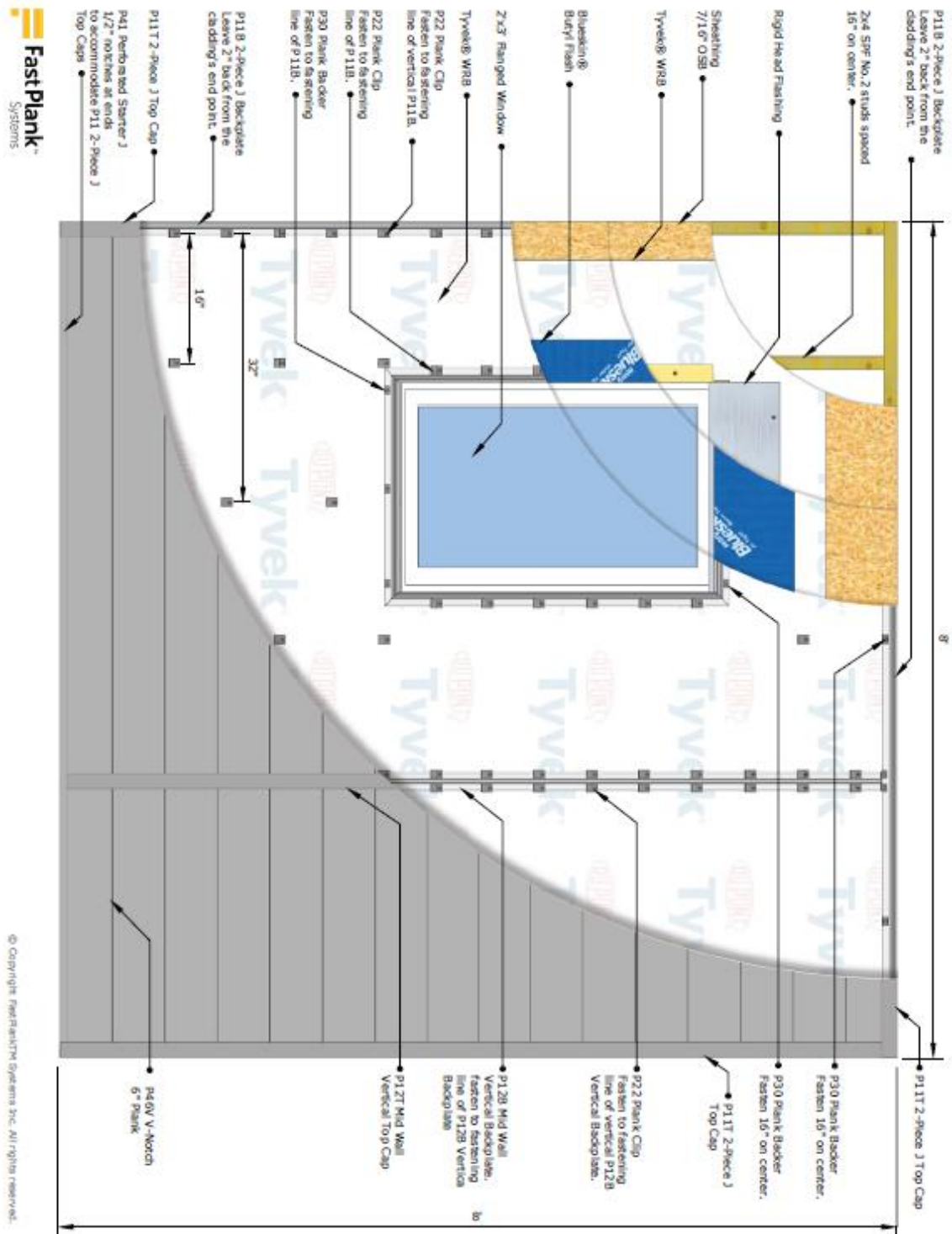
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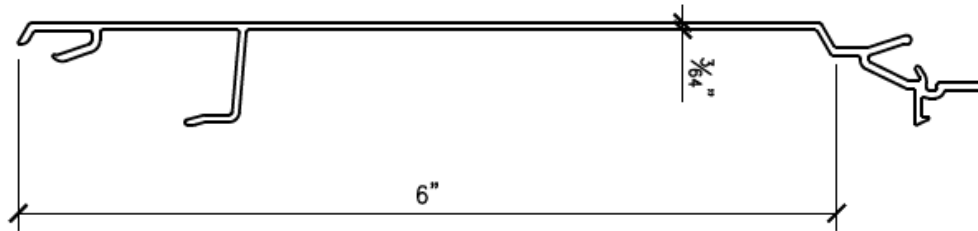
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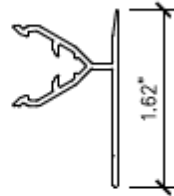
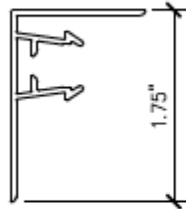
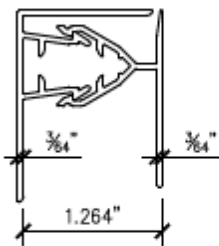


P26V

ASSEMBLY

TOP CAP

BACKPLATE



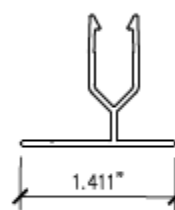
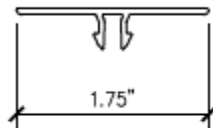
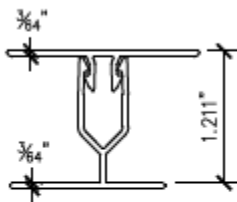
P11 J-TRIM CLIP

NOT-TO-SCALE

ASSEMBLY

TOP CAP

BACKPLATE



P12 VERTICAL TRIM

NOT-TO-SCALE

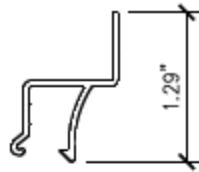
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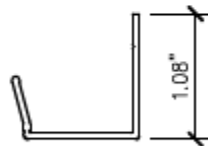
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C
3

 FASTPLANK CONNECTOR
NOT-TO-SCALE



D
3

 PERFORATED STARTER TRACK
NOT-TO-SCALE

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SECTION 11

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	07/23/21	N/A	Original Report Issue