



ENGINEERING EVALUATION REPORT

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| Issued Date | 2004-12-31 |
| Expiry Date | 2025-12-31 |
| Report Number | 0093-17-2-6034 |
| Client | FastPlank Systems Inc. |
| Address | 101-4441 76th Ave SE, Calgary, AB T2C 2G8 |

SUBJECT

Summary conclusion and application of test results derived from AAMA 508-21, *Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems* completed for installations of FastPlank Aluminium 6" Siding Rain Screen System.

TEST SUMMARY

One (1) representative wall assembly has been tested in accordance with AAMA 508-21 at Intertek in Coquitlam, British Columbia. Intertek is an accredited laboratory by International Accreditation Service (IAS).

PRODUCT DESCRIPTION

FastPlank Systems are aluminum siding planks with fastening clips and trim accessories, serving as an exterior wall covering. Planks are extruded 3/64 in. thick aluminum with a V-Notch™ profile, available in widths of 4 in. or 6 in. and in a length of 16 ft.

Table 1: FastPlank Aluminium Siding Rain Screen System Assembly¹

| Test Assembly | Configuration | Framing | Clip Fastener | Sheathing ² |
|---------------|--|---|---|---------------------------------|
| 1 | Fastplank P46 6" plank with aluminum fastening clips @ 32" o.c. horizontal spacing on ea. siding plank staggered @ 16" o.c. every course of planks, clips fastened in to framing studs, one clip @ termination of each plank with J-track and trim per manufacturer's instructions | 8'x8' wall, 2x6, 16 ga., 50 ksi steel studs @16" o.c. | # 12 x 1-1/2" hex head screw and gasketed washer, with sheathing tape | 1/2" clear poly carbonate sheet |

- For further assembly information, see the manufacturer's installation instructions: https://fastplank.com/wp-content/uploads/sites/2/2021/09/FastPlank-Installation-Guide_Jun27-2023.pdf.
- Polycarbonate sheathing used in test per the testing standard. Is substituted in testing for a typical field installation of nominal 1/2" code-compliant sheathing with water-resistive barrier.

Table 2: AAMA 508-21 Test Results¹

| Property | Standard ² | Test Results |
|-----------------------|--------------------------|---|
| Air Leakage | ASTM E283/E283M (Static) | Confirmed simulated air leakage of 0.6 L/s*m ² ± 10% @ 75 Pa |
| Pressure Equalization | ASTM E1233 | Met requirements of AAMA 508 to be considered pressure equalized |



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| Static Water Penetration Resistance | ASTM E331 | Tested at specified pressure differential of 720 Pa and met requirements of AAMA 508 as water droplets appeared on $\leq 5\%$ of surface area, and no continuous water stream |
| Dynamic Water Penetration Resistance | AAMA 501.1 | Tested at specified pressure differential of 720 Pa and met requirements of AAMA 508 as water droplets appeared on $\leq 5\%$ of surface area, and no continuous water stream |

1. Test results obtained from Intertek Report 105139889COQ-012.
2. ASTM E283/E283M, ASTM E1233, ASTM E331, and AAMA 501.1 are cited reference documents in AAMA 508-21.

CONCLUSION

The listed tested assembly has been tested in conformance with the following tests:

ASTM E283/E283M-19, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

ASTM E1233/1233M-14(2021), *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Static Air Pressure Differential*

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

AAMA 501.1-17, *Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure*

The listed tested assembly meets the criteria of AAMA 508-21, *Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems*.

SIGNED

This report has been prepared and reviewed on behalf of BOCA by:

Chris Bowness, P.Eng., P.E.

2024-12-31

Date



EVALUATION REPORT TERMS:

1. This report is a general evaluation of the building code sections and/or standards requirements as identified and applies only to the samples that were evaluated. It does not imply any endorsement or warranty, nor that the signatory Engineer is the Designer of Record of any construction project for which the information is used.
2. This Evaluation Report expires Dec. 31, 2025, open to renewal. Up to the renewal date, the report is valid until such time as the named product(s) changes, the Quality Assurance Agency changes, or provisions of the Code that relate to the product change.

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