



ENGINEERING EVALUATION REPORT

Issue Date	2024-12-04
Expiry Date	2025-12-31
Report Number	0093-22-1-5964
Client Name	FastPlank Inc.
Address	101-4441 76th Ave SE, Calgary, AB T2C 2G8

Subject

FastPlank Systems aluminum siding and soffit planks. Solar Reflectance and Thermal Emittance testing results.

Product Description

Fastplank Systems are aluminum siding and soffit planks with fastening clips and trim accessories, serving as an exterior wall covering. Planks are extruded 3/64" thick aluminum with a V-Notch™ profile, available in widths of 4" or 6" and 16' lengths. The plank exterior surface is typically finished with a powder-coat paint in a variety of colors.

Evaluation

Testing of the siding planks has been conducted in accordance with the referenced test standards at Intertek - Fresno, California location. Intertek is an independent testing laboratory accredited by the International Accreditation Service (IAS).

Standard	Year	Property	2024 IECC Requirements	Sample Description	Test Results
ASTM C1371	2004a(10)e1	Thermal Emittance	≥ 0.75	V-Notch plank, Dark Cherry	Average: 0.88
				V-Notch plank, Western Maple	Average: 0.90
ASTM C1549	2009(14)	Solar Reflectance	≥ 0.30	V-Notch plank, Dark Cherry	Average: 0.26 ¹
				V-Notch plank, Western Maple	Average: 0.50
ASTM E1980	2011	Solar Reflectance Index Calculation	N/A	V-Notch plank, Dark Cherry	Low wind: 25 Medium wind: 26 High wind: 26
				V-Notch plank, Western Maple	Low wind: 58 Medium wind: 59 High wind: 59

1. Does not meet minimum requirements per 2024 IECC section C402.3.

ASTM C1371-15, C1549-16 and E1980-19 are cited testing standards in 2024 International Energy Conservation Code (IECC) section C402.3 *Above-Grade Wall Solar Reflectance* and Ch 6 *Referenced Standards*. The referenced standards were used to determine the thermal emittance, solar reflectance and solar reflectance index for a FastPlank's light-colored sample (**Western Maple**) and a dark-colored sample (**Dark Cherry**). Both colors are powder-coated paint.



Supplemental Documents

The published versions of the following sources, current on the date of this evaluation, were used as reference material to support the conclusions made:

1. ASTM C1371, C1549 and E1980 results: Intertek report r4460.02-301-41-r0, dated October 18, 2024.

Signed

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

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

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EVALUATION REPORT TERMS

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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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