



ENGINEERING EVALUATION REPORT

Report Number | 0093-46
Client | Engage Building Products Inc.
Address | 101-4441 76th Ave SE, Calgary, AB T2C 2G8

Issue Date | 2026-07-13
Issue Number | 1-5964
Expiry Date | 2026-12-31

Subject

FastPlank Systems aluminum siding planks. ASTM C1363 thermal performance of building materials.

Product Description

Fastplank Systems are aluminum siding and soffit planks with fastening clips and trim accessories, serving as an exterior cladding. 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 a base wall assembly and a base wall with FastPlank siding planks have been conducted in accordance with ASTM C1363, *Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus* at Intertek – York, Pennsylvania location. Intertek is an independent testing laboratory accredited by the International Accreditation Service (IAS).

Table 1: Thermal Testing Results as per ASTM C1363

Standard	Property	Sample Description	Test Results
ASTM C1363-24	Thermal Performance	Base Wall Assembly (interior to exterior): • 1/2" gypsum drywall, • 6 Mil Poly vapour barrier, • 2x6 SPF No. studs, • R21 fiberglass insulation, • 7/16" OSB sheathing, • Tyvek HomeWrap water resistive barrier	R-Value: 15.65 hr·ft²·F/Btu
ASTM C1363-24	Thermal Performance	Base Wall with FastPlank Assembly: • Base Wall Assembly • FastPlank siding planks and trims	R-Value: 16.25 hr·ft²·F/Btu Air Flow in airspace: 10 mm/sec

As shown in Table 1, the addition of FastPlank cladding increased the R-Value by 0.6 compared to the base wall. Therefore, the installation of FastPlank cladding does not negatively impact the thermal performance of an exterior wall assembly, for assembly details described in **Table 1** and **APPENDIX: ASTM C1363 TESTING ASSEMBLY DETAILS**. The Dark Cherry colored FastPlank planks were used for the ASTM C1363 test procedure. In accordance with BOCA reports 0093-22 and 0093-36, the Dark Cherry color scheme has the following properties:

Thermal Emittance: 0.88,

Solar Reflectance: 0.26,

Light Reflectance Value: 8%



It is deduced that due to the nature of the ASTM C1363 test procedure, the color of the aluminum plank does not affect the results shown in Table 1. Refer to **APPENDIX A: ASTM C1363 TESTING ASSEMBLY DETAILS** for details of the base wall assembly and FastPlank siding planks and trims.

The scope of this report is limited to the test results of ASTM C1363-24 results as summarized in **Table 1**.

Manufacturing Plants, Labeling and Quality Assurance

The products evaluated in this report were surveyed at the approved manufacturing locations: Calgary, Alberta with third-party quality assurance inspections and product certification labeling by Intertek. Labeling shall be in accordance with the requirements of the International Building Code, and the Accredited Quality Assurance Agency.

Source 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 C1363-24 results: Intertek report S5568.01, dated 2025-10-28.
2. ASTM C1371-04a(10) Thermal Emittance, and C1549-09(14) Solar Reflectance: BOCA report 0093-22.
3. ASTM D2244-21 – Light Reflectance Value: BOCA report 0093-36.

Signed

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

Tameem Haddad, E.I.T.

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

2026-07-13

Issue 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 2026-12-31, 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.

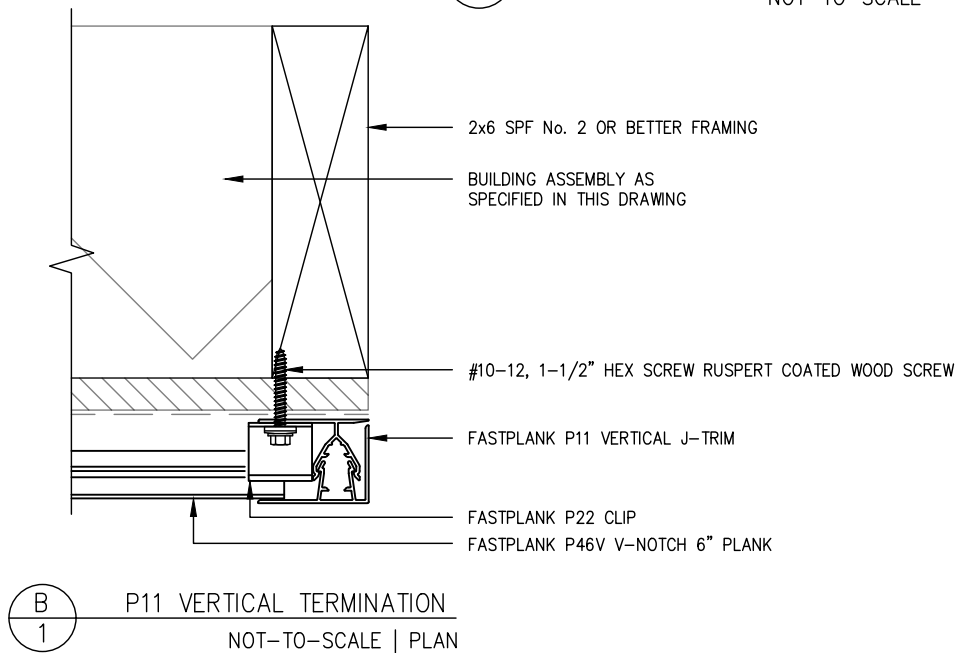
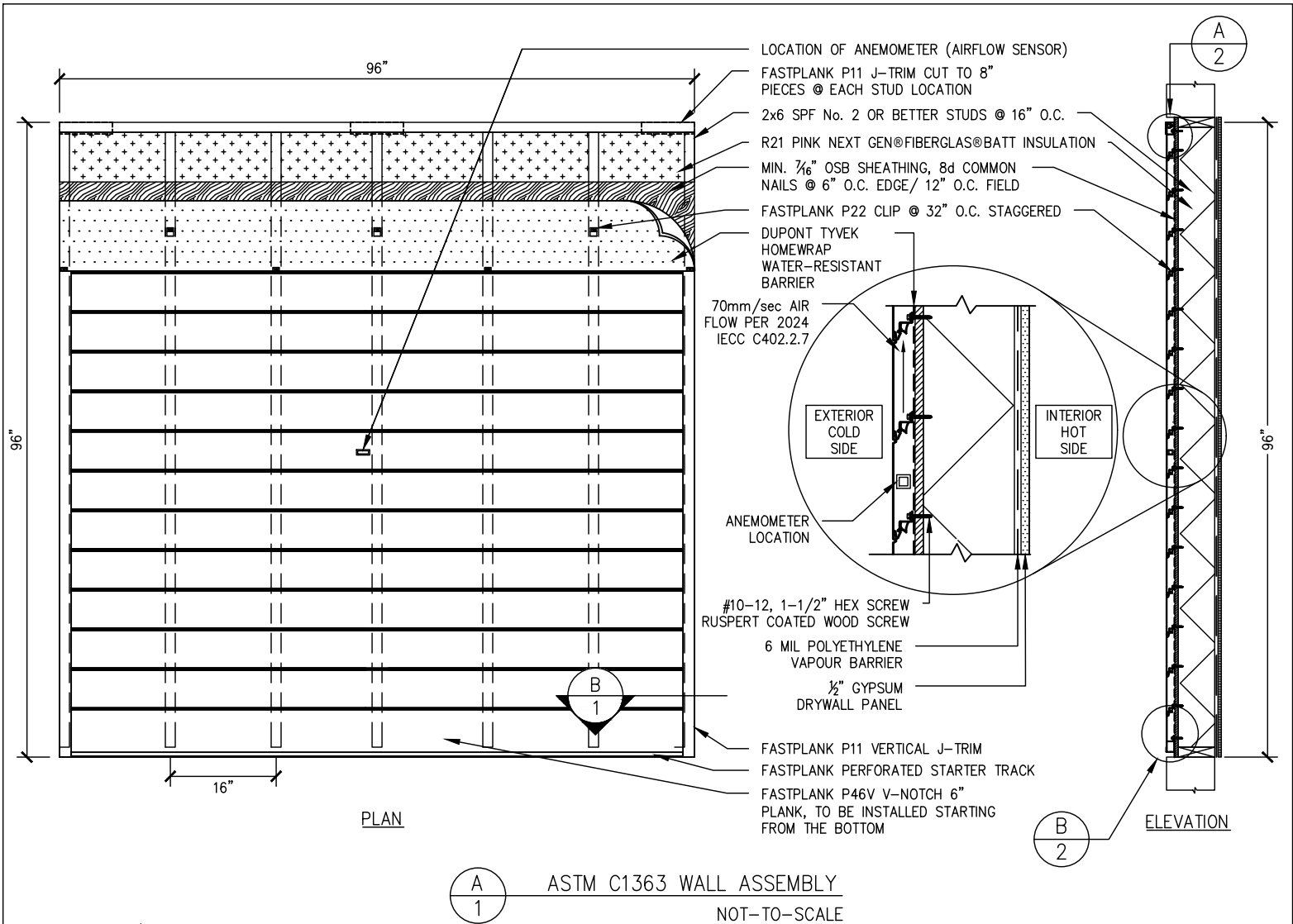
CERTIFICATION OF INDEPENDENCE:

1. Boca Engineering Co., its employees and shareholders, do not have, nor do they intend to or will acquire, a financial interest in any company manufacturing or distributing products that they evaluate.
2. Boca Engineering Co. is not owned, operated or controlled by any company manufacturing or distributing products that they evaluate.

-END-

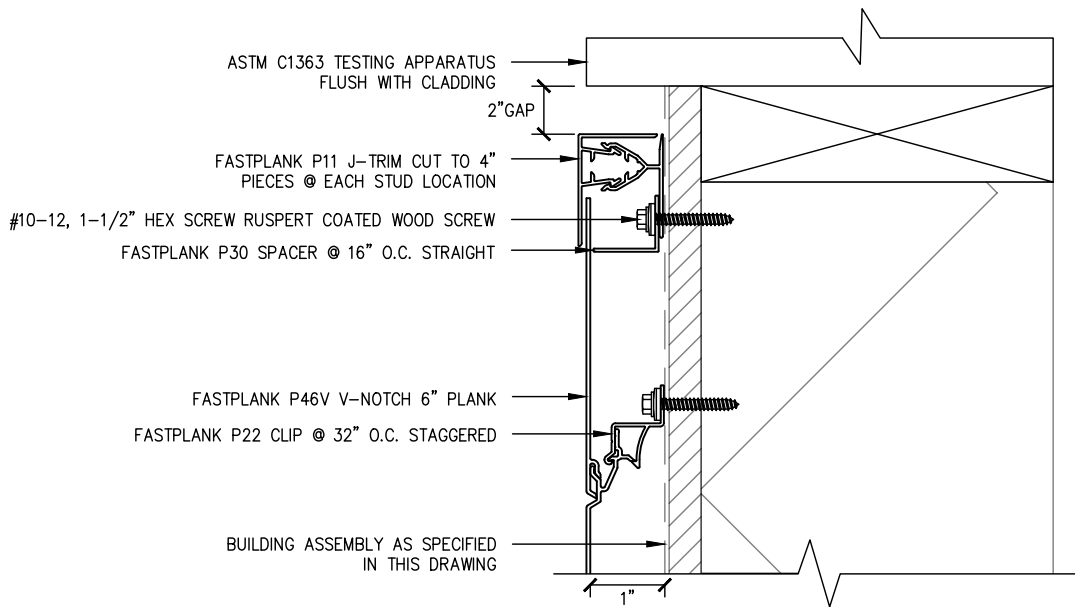
APPENDIX A: ASTM C1363 TESTING ASSEMBLY DETAILS

Drawings begin next page.

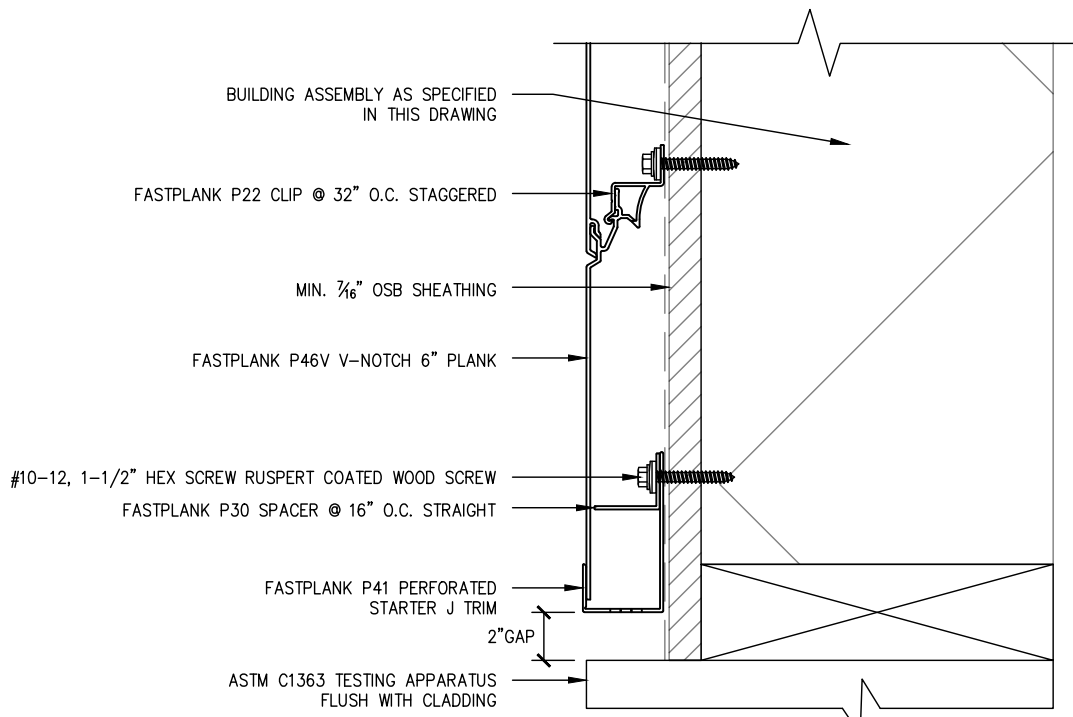


TITLE	CLIENT	PROJECT			
ASTM C1363 TESTING ASSEMBLY DETAILS	FASTPLANK SYSTEMS	FASTPLANK SYSTEM THERMAL TESTING			
 BOCA ENGINEERING STRUCTURAL AND CIVIL ENGINEERS #203-1001 CLOVERDALE AVE, VICTORIA BC V8X 4C9 250-477-7777 INFO@BOCAENGINEERING.COM WWW.BOCAENGINEERING.COM	DATE	REV.	FOR TESTING		CB
	JULY 13, 2026	2	ISSUE		APP
	DRAWING NO.	SHEET NO.	SCALE	DES.	DRN.
	5964-SK5	SHEET 1 OF 3	NOT TO SCALE	TH	TH
			CHK.	CB	

DRAWING FOR ENGINEERING
EVALUATION REPORT - NOT
FOR USE AS CONSTRUCTION
DESIGN DOCUMENTS



A
2 TOP OF WALL TERMINATION
NOT-TO-SCALE | ELEVATION

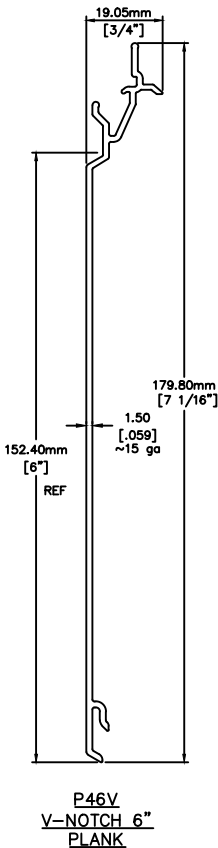


B
2 BOTTOM OF WALL STARTER J TRIM
NOT-TO-SCALE | ELEVATION

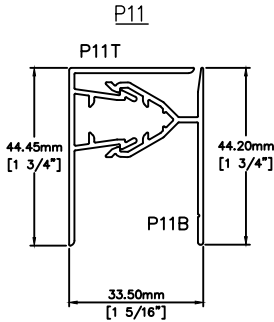
TITLE ASTM C1363 TESTING ASSEMBLY DETAILS	CLIENT FASTPLANK SYSTEMS	PROJECT FASTPLANK SYSTEM THERMAL TESTING			
 BOCA ENGINEERING STRUCTURAL AND CIVIL ENGINEERS #203-1001 CLOVERDALE AVE, VICTORIA BC V8X 4C9 250-477-7777 INFO@BOCAENGINEERING.COM WWW.BOCAENGINEERING.COM	DATE JULY 13, 2026		REV. 2	FOR TESTING	CB
	DRAWING NO. 5964-SK5	SHEET NO. SHEET 2 OF 3	SCALE NOT TO SCALE		ISSUE
			DES. TH	DRN. TH	CHK. CB

DRAWING FOR ENGINEERING
EVALUATION REPORT – NOT
FOR USE AS CONSTRUCTION
DESIGN DOCUMENTS

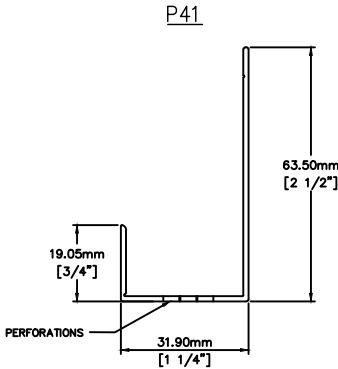
FASTPLANK SIDING PROFILES



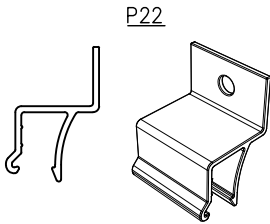
A
3 FASTPLANK V-NOTCH SIDING PLANKS
NOT-TO-SCALE



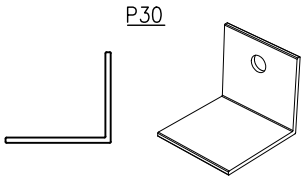
B
3 J-TRIM CLIP
NOT-TO-SCALE



C
3 PERFORATED STARTER TRACK
NOT-TO-SCALE



D
3 FASTPLANK CLIP
NOT-TO-SCALE



E
4 SPACER
NOT-TO-SCALE

TITLE ASTM C1363 TESTING ASSEMBLY DETAILS		CLIENT FASTPLANK SYSTEMS		PROJECT FASTPLANK SYSTEM THERMAL TESTING		
 BOCA ENGINEERING STRUCTURAL AND CIVIL ENGINEERS #203-1001 CLOVERDALE AVE, VICTORIA BC V8X 4C9 250-477-7777 INFO@BOCAENGINEERING.COM WWW.BOCAENGINEERING.COM		DATE JULY 13, 2026		REV. 2	FOR TESTING	CB
		DRAWING NO. 5964-SK5		SHEET NO. SHEET 3 OF 3	ISSUE	APP
		SCALE NOT TO SCALE	DES. TH	DRN. TH	CHK. CB	

DRAWING FOR ENGINEERING
EVALUATION REPORT – NOT
FOR USE AS CONSTRUCTION
DESIGN DOCUMENTS