



LETTER OF RENEWAL

Issue Date | 2026-07-13
Expiry Date | 2026-12-31
Report No. | 0093-46

LOR No. | 46-5964-LOR
Client | Engage Building Products Inc.
Address | 101-4441 76th Ave SE, Calgary, AB T2C 2G8

Product Deliverables

FastPlank Systems aluminum exterior cladding engineering evaluation report has been renewed through until December 31, 2026 to the following state code(s) and/or standard(s):

Subject Matter	Standard(s) and/or Code(s)	BOCA Report Number
Thermal Performance of Building Materials and Envelope Assemblies	ASTM C1363-24	009-46-1-5964

Update Summary

The following items have been completed in the evaluation renewal process:

- Evaluation reports produced.
- Code sections and referenced standards review.
- Reviewed test reports results for product performance.
- Reviewed testing standards to ensure testing is compliant.
- Considered any new public information available about the use of this type of product within the construction professionals' industry (designers, regulators, builders, etc.).

Preparation for Next Renewal

BOCA Engineering considers the following items applicable for preparation during the next annual renewal period, known at this time:

Limitations

The intent of the engineering evaluation report is to connect the ASTM C1363 test to a building code requirement [e.g. International Energy Conservation Code (IECC)]. ASTM C1363 is cited in the 2024 IECC section C402.2.7 *Airspaces* and Ch. 6 *Reference Standards*. However, due to the following limitations, Boca does not have enough actionable information nor deem the test results in comparison to the 2024 IECC provisions satisfactory enough to make a compliance statement to the proposed code. Limitations include, but are not limited to:

1. Cladding is typically tested facing the cold side of the hot box chamber. Due to space and equipment constraints, Intertek was unable to effectively test the FastPlank system facing the hot side of the hot box chamber.
2. The airspace shall be enclosed within an unventilated cavity bound on all sides by building components to minimize airflow into and out of the enclosed airspace, as per C402.2.7(1) *Airspaces* in the 2024 IECC. It is not practical to have an unventilated cavity as the cladding system is designed to allow space behind the cladding to "breathe" and allow infiltrated water to drain through the perforated bottom track.



3. The measured 10mm/sec air flow does not meet the requirement of 70 mm/sec airflow ventilated cavities, per section C402.2.7(exception).
 - a. The addition of the airflow into the space between the cladding and the wall assembly posed logistical difficulties during testing, due to the ASTM C1363 apparatus set up and procedure. The procedure itself limits the airflow within the apparatus chambers to achieve equilibrium. Therefore, the addition of the airflow per IECC C402.2.7 contradicts the ASTM C1363 standard.
 - b. Per the IECC commentary to the same clause, the language regarding the airspace mostly refers to masonry wall applications. It is queried whether the IECC 70mm/sec airflow requirement is applicable to other cladding systems.

Referenced Standard Amendments and Additions

- 2027 IECC is anticipated to supersede the 2024 IECC.

Inspections and Certifications

- Confirmation of continuous inspection program under accredited third-party agency.

Engineering Requirements

- Test standard years in test report differ from 2024 IECC referenced years. Conduct a procedural comparison of newer testing standard editions in regards to current test report(s).

Recommended Enhancements

- Perform additional ASTM C1363 with various modifications to the assembly installations. Details to be confirmed.

Other Considerations

Additionally, Boca researched various available resources to determine an equivalent manual analysis of an air cavity within a wall assembly, including but limited to:

- ASHRAE 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings;
- Manual on Moisture Analysis in Buildings, Chapter 7 Manual Analysis Tools, by Anton TenWolde;
- Building Envelope Thermal Bridging Guide v1.6-2021, by various Canadian public entities;

It was found that the manual R-value analysis of an air space cavity ranged between **0.61 and 0.90 hr·ft²·F/Btu**. Therefore, the obtained result of 0.6 hr·ft²·F/Btu is near the anticipated range.

Signed

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

Tameem Haddad, E.I.T.

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

2026-07-13

Date

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