



ENGINEERING EVALUATION REPORT

Issue Date | 2025-04-22
Expiry Date | 2025-12-31
Report Number | 0093-1-2-6034
Client Name | Engage Building Products Inc.
Address | 101-4441 76th Ave SE, Calgary, AB T2C 2G8

Subject

QuickPanel Systems with Larson by Alucoil FR 4mm ACM, ASTM D635 and ASTM D1929 Flammability Testing Results.

Product Description

The QuickPanel Systems with Larson by Alucoil FR 4mm Aluminum Composite Material (ACM) is an exterior building cladding. The composite panel is nominally 4mm in thickness, composed of an inside and outside skin of nominal 0.5mm thick aluminum sheets bonded to a nominal 3mm thickness inner core of polyethylene with mineral (magnesium hydroxide) fire-retardant.

Evaluation

The FR core has been evaluated for flammability properties to:

Table 1: Testing Results

Standard	Property	Test Results	2018 IBC Section Reference
ASTM D635	Rate of Burn	Extent of Burning: NA Class CC1	1406.11.3.3, 1406.11.4.2, Table 1406.11.3.4
ASTM D1929	Self-Ignition Temperature	889 °F (476 °C)	1406.11.2.1, 1406.11.3.3, 1406.11.4.2

Testing has been completed in conformance with the respective subsections of 2018 International Building Code (IBC) section 1406, *Metal Composite Materials (MCM)* as cited in Table 1.

The date edition of the test standards used in laboratory testing were compared to the standard date edition in the 2018 IBC and it is found that the procedural results found in testing can be applied to those standard editions that are in the Code.

The manufacturer has confirmed via written statement that the sample material description in this report is accurate, and that the representative samples tested are of the same materials and manufacturing specifications as what is being supplied in present day to QuickPanel Systems.



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 D635 results: Intertek report 101510901MID-001a, dated January 24, 2014.
2. ASTM D1929 results: Intertek report 101451974MID-001a, dated December 9, 2013.

Signed

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

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

2025-04-22

Date



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