

# Certificate of Test

QUOTE No.: NE8481

REPORT No.: FNE12705A

## AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

**TRADE NAME:** Alutile 3A Plus Aluminium Panel

**SPONSOR:** Alutile International Pty Ltd  
85 – 89 Asquith Street  
SILVERWATER NSW 2128  
AUSTRALIA

### DESCRIPTION OF

**SAMPLE:** The sponsor described the tested specimen as an aluminium composite panel comprised of the following layers:

- Layer 1: 27- $\mu$ m thick coating comprised of polyvinylidene fluoride (PVDF);
- Layer 2: 0.7-mm thick aluminium alloy 3003 H24 skin;
- Layer 3: 0.5-mm thick corrugated aluminium alloy 1100 H18 core;
- Layer 4: 0.5-mm thick aluminium alloy 3003 H24 backing;
- Layer 5: 27- $\mu$ m thick coating comprised of PVDF.

The aluminium layers were adhered together using a hot melt 0.05 mm thick membrane layer comprising of ethylene-vinyl acetate (EVA) copolymer and polyethylene.

Nominal mass: 4.8 kg/m<sup>2</sup>  
Nominal total thickness: 1.938 mm  
Colour: silver

**TEST PROCEDURE:** Six (6) samples were tested in accordance with AS/NZS 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.

**RESULTS:** The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (min)	N/A	N/A
Flame Spread Time (s)	N/A	N/A
Heat Release Integral (kJ/m <sup>2</sup> )	N/A	N/A
Smoke Release (log <sub>10</sub> D)	-2.744	0.042

For regulatory purposes these figures correspond to the following indices:

Ignitability Index	Spread of Flame Index	Heat Evolved Index	Smoke Developed Index
(0-20)	(0-10)	(0-10)	(0-10)
0	0	0	0-1

The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

DATE OF TEST: 25 February 2021

Issued on the 8<sup>th</sup> day of April 2021 without alterations or additions. This certificate supersedes report no. FNE12705 issued on 1<sup>st</sup> day of April 2021.



Stephen Smith  
Testing Officer



Brett Roddy  
Group Leader, Fire Testing & Assessment Facility

**End of Report**

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CSIRO INFRASTRUCTURE TECHNOLOGIES

14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA  
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 www.csiro.au

