

Certificate of Test

Quote No.: NE8333

REPORT No.: FNE12526A

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

TRADE NAME: 4-mm ALPOLIC NC
SPONSOR: Tamaya Pty Ltd trading as Network Architectural
71 Marigold Street
RESVESBY NSW 2212
AUSTRALIA

DESCRIPTION OF SAMPLE:

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

- Layer 1: 28- μ m thick fluoropolymer coating;
- Layer 2: 0.5-mm thick aluminium alloy skin;
- Layer 3: 35- μ m thick adhesive film;
- Layer 4: 3-mm thick core comprised of polymers, aluminium hydroxide (Al(OH)₃), calcium carbonate (CaCO₃) and additives.
- Layer 5: 35- μ m thick adhesive film;
- Layer 6: 0.5-mm thick aluminium alloy skin;
- Layer 7: 5- μ m thick polyester coating.

The aluminium alloy skin was adhered onto the core with an adhesive film applied at an application rate of 0.057-m²/L.

Nominal total thickness: 4 mm
Nominal total mass: 8.6 kg/m²
Colour: range of colours (white, red, black) [face] / off-white (observed) [back]

Note: The specimen was tested on the coloured face as the exposed face.

TEST PROCEDURE:

Six 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. As per clause 2.2.1 of the standard where a result is required to cover a range of colours, the laboratory tested the lightest and darkest colours of the range as prescribed by the sponsor.

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 ²)	N/A	N/A
Smoke Release (log ₁₀ D)	-1.755	0.062

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	2

The results only apply to the specimen mounted as described in this report. 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: 9 January 2020

Issued on the 14th day of January 2020 without alterations or additions. This report supersedes report no. FNE12526 issued on 17th January.



Shaw Tran
Testing Officer



Stephen Smith
Team Leader, Reaction to Fire & Façade Fire Laboratory

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