

Certificate of Test

Quote No.: NE8089

REPORT No.: FNE12292

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

TRADE NAME: 4-mm ALPOLIC NC
SPONSOR: Mitsubishi Chemical Corporation
1-1, Maruouchi 1-chome
CHIYODA-KU 100-8251
JAPAN

DESCRIPTION OF SAMPLE:

The sponsor describe 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: silver (face)/ off-white (back)

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.

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)	-2.22	0.119

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: 6 December 2018

Issued on the 12th day of December 2018 without alterations or additions.


Shaw Tran
Testing Officer


Brett Roddy
Team Leader, Fire Testing and Assessments

Copyright CSIRO 2018 ©. Copying or alteration of this report without written authorisation from CSIRO is forbidden.



NATA Accredited Laboratory
Number: 165
Corporate Site No 3625

Accredited for compliance with ISO/IEC 17025 – Testing.

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

