

Redacted reports (web use only)

FireMax A10 G1 soffit Board



CERTIFICATE

Material Fire Test Certificate

IGNIS-5028-01-101-001 R00

DATE OF TEST: 15.03.2021
 ISSUE DATE: 26.04.2021
 EXPIRY DATE: 25.04.2026

AS 1530-1:1994
 Combustibility test materials

Property of **FireMax group**
 Copies of original test results
 Contact us for certification copies

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Test body is the test location

Specimen Identification
Firemax Aluminium

Specimen Description
 The sponsor described the tested specimen as:
 NC Aluminium intended to be used as a fire safe surface or reflective insulation in applications for non-combustible materials. It has a nominal density of 2730 kg/m³ and a nominal thickness of 0.03mm. It is silver in colour. The tested specimen consisted of aluminium material layers stacked together to the required thickness in accordance with the following dimensions:

	40.60 ± 0.25	40.60 ± 0.25
(a) Nominal diameter (mm)	40.60 ± 0.25	40.60 ± 0.25
(b) Nominal height (mm)	76.87 ± 1.76	76.87 ± 1.76
(c) Nominal volume (cm ³)	150.07 ± 8.36	150.07 ± 8.36
(d) Nominal Mass (g)	4060 ± 210	4060 ± 210

Five (5) specimens were tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures. Part 1 – 1994, Combustible test for Materials. The test specimens were constructed in accordance with the requirements of AS 1530-1:2010 which has been adopted as the test method for this test. The test was conducted in accordance with the requirements of AS 1530-1:2010. The test results are as follows:

ISO 1182:2010.

Observations
 All specimens exhibited similar behaviour, and none ignited during the test. All the specimens started melting at around 23 minutes. Due to the phase change of the specimen (melting), all tests were stopped before reaching temperature equilibrium and unreliable mass loss was observed. The specimens, being aluminium, have a melting temperature of approximately 600°C and, therefore, evaluated in accordance with Clause A4 of AS 1530-1:1994 as applicable to thermally unstable materials. The tests were undertaken at 750±5°C, at which temperature the specimens were unstable.

Specimen	Temperature (°C)	Time (min)	Mass loss (g)
1	1600 °C	0 s	0 %
2	1600 °C	0 s	0 %
3	1600 °C	0 s	0 %
4	1600 °C	0 s	0 %
5	1600 °C	0 s	0 %

The reported uncertainty is based on a combined standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%.

Combustibility
 The specimens are **NOT** deemed **COMBUSTIBLE** according to the test criteria specified in Clause 3.4 of AS 1530-1:1994



NATA

NATA Accredited Laboratory
 Number: 20534 Site number: 24604
 Accredited for compliance with
 ISO/IEC 17025 - Testing

Version: IGNIS-02-031-Issue 03 Revision 02
 Disclaimer: These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use. The information contained in this document is provided for the sole use of the recipient and no reliance should be placed on the information by any other person. In the event that this information is disclosed or furnished to any other person, Ignis Labs Pty Ltd accepts no liability for any loss or damage incurred by that person whatsoever as a result of using the information.
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Parameter or symbol	Unit Symbol	Specimen Results				
Average temperature	-	°C				
Humidity	-	%RH	64.30	62.40	62.90	59.90
Height	h	mm	49.73	50.75	50.29	48.65
Diameter	d					
Initial specimen volume	V					
Initial specimen mass	msi					
Density	r					
Sample holder weight	w					
Final specimen mass	msf					
Mass loss	$\Delta m = (msi - msf) / msi \times 100$					
Total duration of sustained flaming	Cumulative tott of duration of flaming					
Initial furnace thermocouple temperature	Tfi					
Maximum furnace thermocouple temperature	Tfm					
Final furnace thermocouple temperature	Tff					
Furnace thermocouple temperature rise	$\Delta Tfi = Tfm - Tfi$					
Maximum specimen centre thermocouple temperature	Tcm					
Final specimen centre thermocouple temperature	Tcf					
Specimen centre thermocouple temperature rise	$\Delta Tc = Tcm - Tcf$					
Maximum specimen surface thermocouple temperature	Tsm					
Final specimen surface thermocouple temperature	Tsf					
Specimen surface thermocouple temperature rise	$\Delta Ts = Tsm - Tsf$					
Test duration	t	min	30.00	25.63	25.07	27.38

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END OF TEST CERTIFICATE

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