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**FireMax A10 G1 soffit Board**  
Foil Face



## CERTIFICATE

Material Fire Test Certificate

IGNL-5028-01-01C 001 R00

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

AS 1530.1:1994  
Combustibility test for materials

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Specimen Identification  
Firemax Aluminium

Specimen Description  
The sponsor described the tested specimen as:  
NC Aluminium designed 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/m<sup>3</sup> 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 clause 2.2.3 of AS 1530.1.

Dimensions in accordance with clause 2.2.3 of AS 1530.1:  
(a) Nominal diameter (mm): 200.00 ± 0.25  
(b) Nominal height (mm): 49.66 ± 0.21  
(c) Nominal volume (cm<sup>3</sup>): 76.87 ± 1.76  
(d) Nominal Mass (g): 158.07 ± 8.36

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 was conducted in accordance with the procedure in AS 1530.1:2010 which is subject to the provisions of clause 2.2.3 of AS 1530.1:2010. The test was conducted in accordance with the procedure in AS 1530.1:2010 which is subject to the provisions of clause 2.2.3 of AS 1530.1:2010. The test was conducted in accordance with the procedure in AS 1530.1:2010 which is subject to the provisions of clause 2.2.3 of AS 1530.1:2010.

Observations  
All specimens exhibited similar behaviour, and none ignited during the test. All the specimens started melting at around 25 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 that temperature.

Measurements in accordance with clause 2.2.3 of AS 1530.1:2010:  
Metric  
Mean specimen surface thermocouple temperature rise:  $\Delta T_s$  4.22 ± 7.18°C  
Mean duration of sustained flaming: 0 s  
Mean mass loss: 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

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MATERIAL FIRE TESTING  
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1530.1:1994

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Queanbeyan NSW 2620  
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www.ignislabs.com.au  
021 6111 2909  
Test body is the test location

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

Version: 1530.1:1994 (OP 03) Issue 03 Revision 03  
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 the 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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The specimens are NOT deemed COMBUSTIBLE according to the test criteria specified in Clause 3.4 of AS 1530.1:1994

Test Supervisor: Darren Laker  
Technical Lead: Ram Prakash



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SUMMARY OF MEASUREMENTS AND OBSERVATIONS OF SPECIMENS AND TEST

Parameter	Symbol or Test Method	Unit Symbol	Specimen Results				
Initial furnace temperature	-	°C	64.30	62.40	62.90	59.90	57.30
Height	h	mm	49.73	50.75	50.29	48.65	48.86
Diameter	d	mm					
Initial specimen volume	V	cm <sup>3</sup>					
Initial specimen mass	msi	msf					
Density	r	msf					
Sample holder weight	w	msf					
Final specimen mass	msf	msf					
Mass loss	$\Delta m$	(msi - msf) / (msi * 100)					
Total duration of sustained flaming	Cumulative totu of duration of flaming	Tf					
Initial furnace thermocouple temperature	Tfi	°C					
Maximum furnace thermocouple temperature	Tfm	°C					
Final furnace thermocouple temperature	Tff	°C					
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{fi}$	°C					
Maximum specimen centre thermocouple temperature	Tcm	°C					
Final specimen centre thermocouple temperature	Tcf	°C					
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C					
Maximum specimen surface thermocouple temperature	Tsm	°C					
Final specimen surface thermocouple temperature	Tsf	°C	688.06	673.80	692.76	679.60	690.71
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{sm} - T_{sf}$	°C	16.65	0.40	0.54	0.39	3.19
Test duration	t	min	30.00	25.62	25.07	25.05	27.38

END OF TEST CERTIFICATE  
IGNL-5028-01-01C 001 R00