

CERTIFICATE

Material Fire Test Certificate

IGNL-8282-01C I01 R00

DATE OF TEST 06.08.2024
 ISSUE DATE 22.08.2024
 EXPIRY DATE 21.08.2029

AS 1530.1:1994
 Combustibility test for materials

SPONSOR
Stonini
 3/14 Anne Street
 St Marys NSW 2760

TEST BODY
Ignis Labs Pty Ltd
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 3 Cooper Place
 Queanbeyan NSW 2620
 Australia
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 Test body is the test location



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

Specimen Identification

Stonini Wall Panel

Specimen Description

The sponsor described the test specimen as decorative wall panel. It is composed of 98 % Gypsum and 2 % Alumino Silicate. It has a nominal mass per unit area of 1.3 kg/m², a nominal thickness of 12 mm, and is ivory in colour.

The received specimens were white chalky cylinders of a masonry material with a centre hole pre-drilled. The specimens were slightly outside the required diameter and were fabricated to the test dimensions by Ignis Labs.

Ignis Labs was not responsible for the sampling stage. All specimens were sampled and fabricated by the test sponsor. The test results apply to the specimens as received.

The test specimens are cylindrical, and each has:

(a) Nominal diameter (mm):	44.46
(b) Nominal height (mm):	50.06
(c) Nominal volume (cm ³):	77.70
(d) Nominal Mass (g):	69.84
(e) Colour:	White

Test Method

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 apparatus is constructed in accordance with the requirements of ISO 1182:2010 which has been verified to be equivalent to the apparatus requirements of AS 1530.1:1994 with the exception that a suitable alternative insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

Observations

All specimens exhibited equivalent behaviour, and none ignited during the test. Cracking was observed on the top face of the specimens around the centre thermocouple during the test. Specimen 2 did not reach thermal stability within 60 minutes, and the test was ended at this point. After the test, the specimens were crumbly when removed from the furnace.

Results

The specimen achieved the following results:

	Symbol	Arithmetic
Mean furnace thermocouple temperature rise:	ΔTf	1.50 °C
Mean specimen centre thermocouple temperature rise:	ΔTc	3.87 °C
Mean specimen surface thermocouple temperature rise:	ΔTs	2.45 °C
Mean duration of sustained flaming:		0 s
Mean mass loss:		8.30 %

Combustibility

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
 Tom Lewis

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Disclaimer: These test results relate only to the testwork performed at the test facility under the test conditions of the test. Ignis Labs Pty Ltd is not responsible for the safety of the test results. The information contained in this document is provided for the sole use of the recipient and no reliance should be placed on this information by any other persons or the extent that the information is provided to any other person. Ignis Labs Pty Ltd accepts no liability for any loss or damage incurred by the person who uses this information without the information.

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SUMMARY OF MEASUREMENTS AND OBSERVATIONS OF SPECIMENS UNDER TEST

Parameter	Symbol or expression	Unit Symbol	Specimen Results				
			1	2	3	4	5
Atmospheric temperature	-	°C	19.90	18.80	19.90	21.20	22.00
Humidity	-	%RH	35.90	34.90	37.50	34.10	33.00
Height	h	mm	50.14	50.33	49.38	50.38	50.09
Diameter	d	mm	44.05	44.71	44.60	44.70	44.26
Initial specimen volume	v	cm ³	76.37	78.98	77.11	79.02	77.03
Initial specimen mass	msi	g	66.57	71.67	67.50	69.69	73.76
Density	r	kg/m ³	871.68	907.44	875.37	881.93	957.55
Sample holder weight	w	g	15.25	14.79	14.94	14.90	15.35
Final specimen mass	msf	g	61.09	65.45	61.92	63.90	67.84
Mass loss	$\Delta m = (msi - msf) / msi * 100$	%	8.23	8.68	8.27	8.31	8.03
Total duration of sustained flaming	Cumulative total of duration of flaming	s	0.00	0.00	0.00	0.00	0.00
Initial furnace thermocouple temperature	Tfi	°C	747.40	746.60	748.00	753.00	751.80
Maximum furnace thermocouple temperature	Tfm	°C	743.50	774.10	727.90	731.20	750.10
Final furnace thermocouple temperature	Tff	°C	741.90	773.60	723.80	730.40	749.60
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	1.60	0.50	4.10	0.80	0.50
Maximum specimen centre thermocouple temperature	Tcm	°C	729.17	756.27	722.87	723.87	737.07
Final specimen centre thermocouple temperature	Tcf	°C	725.50	756.10	712.80	718.90	736.60
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	3.67	0.17	10.07	4.97	0.47
Maximum specimen surface thermocouple temperature	Tsm	°C	776.97	801.97	753.27	748.07	771.87
Final specimen surface thermocouple temperature	Tsf	°C	776.40	801.50	746.10	744.70	771.20
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{sm} - T_{sf}$	°C	0.57	0.47	7.17	3.37	0.67
Test duration	t	min	45.00	60.00	55.00	45.00	35.00

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END OF TEST CERTIFICATE