CERTIFICATE

Material Fire Test Certificate

IGNL-4174-01-04C I01R00

DATE OF TEST	17.12.2020
ISSUE DATE	03.03.2021
EXPIRY DATE	02.03.2026

AS 1530.1:1994
Combustibility test for materials

SPONSOR
SUPA Coat Australia Pty Ltd
9 Fritz Road
Chatsworth QLD 4570

TEST BODY
Ignis Labs Pty Ltd
ABN 36 620 256 617
3 Cooper Place
Queanbeyan NSW 2620
Australia
www.ignislabs.com.au
(02) 6111 2909
Test body is the test location

Specimen Identification

PM 640 Cement Render Grey

Specimen Description

The sponsor described the tested specimen as cement render with the nominal composition being silica sands, Portland cement, calcium carbonates and fly-ash. The nominal density of the specimen is 1.45 kg/cm³ and the nominal thickness is 0-10 mm. The colour of the specimen is grey, and the end use is exterior cement render.

The test specimens are cylindrical, and each has:

(a)	Nominal diameter (mm):	43.93
(b)	Nominal height (mm):	50.24
(c)	Nominal volume (cm³)	76.10
(d)	Nominal Mass (g):	117.72
(e)	Colour:	Grey

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 five specimens' tests exhibited equivalent performance. No ignition was observed in any of the specimens. All tests were stopped at 60 mins without the temperature reaching equilibrium.

Results

The specimen achieved the following results:

	Symbol	Arithmetic
Mean furnace thermocouple temperature rise:	ΔTf	1.54 °C
Mean specimen centre thermocouple temperature rise:	ΔTc	0.15 °C
Mean specimen surface thermocouple temperature rise:	ΔTs	0.64 °C
Mean duration of sustained flaming:		0 s
Mean mass loss:		5.33 %

Combustibility

The specimens are NOT deemed COMBUSTIBLE according to the test criteria specified in Clause 3.4 of AS 1530.1-1994

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

Test Supervisor
Darren Laker

Technical Lead
Ram Prakash

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	20.00	21.10	22.20	23.40	24.90
Humidity	-	%RH	73.90	75.40	64.70	58.90	52.10
Height	h	mm	50.34	50.34	49.61	50.18	50.72
Diameter	d	mm	43.96	43.97	43.83	43.75	44.12
Initial specimen volume	V	cm^3	76.37	76.40	74.81	75.40	77.50
Initial specimen mass	msi	g	118.97	119.23	115.34	117.88	117.20
Density	r	kg/m^3	1557.84	1560.57	1541.63	1563.50	1512.16
Sample holder weight	w	g	0.00	0.00	0.00	0.00	0.00
Final specimen mass	msf	g	112.67	112.81	109.13	111.53	111.08
Mass loss	Δm=(msi-msf)/msi*100	%	5.29	5.38	5.38	5.39	5.22
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	749.90	751.00	746.20	749.70	749.10
Maximum furnace thermocouple temperature	Tfm	°C	761.90	764.90	762.90	768.80	764.10
Final furnace thermocouple temperature	Tff	°C	760.59	763.96	760.56	767.09	762.70
Furnace thermocouple temperature rise	ΔTf=Tfm-Tff	°C	1.31	0.94	2.34	1.71	1.40
Maximum specimen centre thermocouple temperature	Tcm	°C	772.60	767.30	768.50	766.80	763.10
Final specimen centre thermocouple temperature	Tcf	°C	772.39	767.21	768.38	766.66	762.90
Specimen centre thermocouple temperature rise	ΔTc=Tcm-Tcf	°C	0.21	0.09	0.12	0.14	0.20
Maximum specimen surface thermocouple temperature	Tsm	°C	801.30	791.60	798.10	786.70	783.20
Final specimen surface thermocouple temperature	Tsf	°C	800.83	790.91	797.70	785.68	782.58
Specimen surface thermocouple temperature rise	ΔTs=Tsm-Tsf	°C	0.47	0.69	0.40	1.02	0.62
Test duration	t	min	60.00	60.00	60.00	60.00	60.00

IGNL-4174-01-04C I01 R00

END OF TEST CERTIFICATE