

CERTIFICATE

Material Fire Test Certificate

IGNL-7059-03C I01R00

Test Date 24.03.2023 Issue Date 04.04.2023 **Expiry Date** 03.04.2028

AS 1530.3-1999

Simultaneous determination of ignitability, flame propagation, heat release and smoke release

Sponsor

Bighands Building Supply Australia Pty Ltd 60-68 Hampstead Road

Auburn, NSW 2144

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 Name

EPS External Wall Cladding and Roof

Description

The sponsor described the specimens as panels with 0.362 mm metal sheets on both faces with a 50 mm polystyrene insulating core. It has a nominal density of 14 kg/m³ and a nominal thickness of 50 mm. It is light grey in colour.

The received specimens were EPS panels with a white painted metal sheeting on each face. An orange-coloured adhesive material was visible between the expanded polystyrene core and the metal faces. The specimens had a measured thickness of 49.09 mm.

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. Some damage was observed at the corners of the specimens.

Test Method

Six (6) specimens were tested in accordance with Australian Standard 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.

Observation

All specimens exhibited equivalent behaviours, and none ignited during the tests. The adhesive began to melt and after the test the metal facing was separating from the polystyrene core.

After testing, there was a slight marking in the centres of the specimens.

Parameter	Symbol	Unit				Res	ults				
Specimen number			1	2	3	4	5	6	7	8	9
Ignition time	Ti	min	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flame Propagation time	Tf	S	-	-	-	-	-	-	-	-	-
Heat release integral		kJ/m²	-	-	-	-	-	-	-	-	-
Optical density (ignition)	D	/m	-	-	-	-	-	-	-	-	-
Optical density (non ignition)	DNI	/m	0.11	0.13	0.07	0.09	0.01	0.11	-	-	-
Smoke release (ignition)	Log10(D)		-	-	-	-	-	-	-	-	-
Smoke release (non ignition)	Log10(D)NI		-0.98	-0.88	-1.15	-1.07	-1.89	-0.97	-	-	-

Calculation

Parameter	Mean	Standard Error	Uncertainty	Comment
Ignition time	-	-		
Flame Propagation time	-	-		
Heat release integral	-	-		
Optical density (ignition)	-	-		
Optical density (non ignition)	0.09	0.02		
Smoke release	-1.16	0.15		

Result

Indices	Range	Result	
Ignitability	0-20	0	
Spread of Flame	0-10	0	
Heat Evolved	0-10	0	
Smoke Developed	0-10	4	

The results only apply to the specimen mounted as described in this report.

Jessica Ying

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. The results only apply to the specimen mounted as described in this report. The results of this fire test may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions

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