CERTIFICATE

Material Fire Test Certificate

IGNL-7055-05-01C I01 R01

DATE OF TEST	27.04.2023 24.05.2023
ISSUE DATE	18.08.2023
EXPIRY DATE	17.08.2028

AS ISO 9239.1-2003 Determination of the burning behaviour using a radiant heat source

SPONSOR
3RT Technologies Pty Ltd
Suite 9, 13 Corporate Drive
Heatherton, VIC 3202

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

3RT Blackbutt

Specimen Description

The sponsor described the specimens as 3RT engineered hardwood. It is composed of 3RT hardwood and is pale brown in colour. Its end use is as stairs and flooring.
The received specimens were hardwood panels with a measured nominal thickness of approximately 35mm. 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.

Test Method

Four (4) specimens were tested in accordance with Australia Standard AS ISO 9239.1-2003 Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat source. Specimens 1-3 were tested along the production direction and specimen 4 was tested against the production direction. The specimens were tested for 30 minutes.

Observations

All specimens exhibited equivalent performance. Sustained flaming of specimens was observed starting from 153, 219, 141, and 150 seconds for specimens 1 to 4 respectively.
After testing, the specimens were charred up to the flame front.

Calculations

Parameters	Unit	Specimen			
		With Production Direction			Against Production Direction
Specimen number		1	2	3	4
Test duration	min	30.00	30.00	30.00	30.00
Time to reach 50mm	s	311	276	288	302
Flameout time	min	-	-	-	-
Flame spread at 10 min	mm	180	230	240	200
Flame spread at 20 min	mm	350	410	390	380
Flame spread at 30 min	mm	410	480	460	390
Flame spread at flameout	mm	410	480	460	390
Maximum light attenuation	%	6.40	3.96	3.70	31.09
HF-10	kW/m²	9.97	8.99	8.75	9.64
HF-20	kW/m²	6.27	5.09	5.48	5.68
HF-30	kW/m²	5.09	3.94	4.26	5.48
CHF	kW/m²	-	-	-	-
Critical heat flux	kW/m²	5.0	4.0	4.2	5.4
Smoke obscuration integration	%×min	52.67	15.09	20.19	43.37

Result

Parameters	Unit	Results
Average flame spread	mm	450
Average critical heat flux	kW/m²	4.4
Average smoke obscuration integration	%×min	29.32

Test Supervisor
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Technical Lead
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