

# CERTIFICATE

## Material Fire Test Certificate

IGNL-7055-05-02C I01 R01

DATE OF TEST 01.05.2023  
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**  
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Queanbeyan NSW 2620  
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*Test body is the test location*



### Specimen Name

3RT White Gum

### Specimen Description

The sponsor described the specimens as 3RT engineered hardwood. It is composed of 3RT hardwood and is light 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 140, 137, 177, 160 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
		1	2	3	4
Specimen number		1	2	3	4
Test duration	min	30.00	30.00	30.00	30.00
Time to reach 50mm	s	246	198	222	273
Flameout time	min	-	-	-	-
Flame spread at 10 min	mm	260	310	320	230
Flame spread at 20 min	mm	410	480	470	410
Flame spread at 30 min	mm	470	480	520	470
Flame spread at flameout	mm	470	480	520	470
Maximum light attenuation	%	3.93	4.08	3.43	4.90
HF-10	kW/m <sup>2</sup>	8.06	7.05	6.86	8.75
HF-20	kW/m <sup>2</sup>	4.99	3.94	4.10	4.99
HF-30	kW/m <sup>2</sup>	4.05	3.94	3.34	4.05
CHF	kW/m <sup>2</sup>	-	-	-	-
Critical heat flux	kW/m <sup>2</sup>	4.0	4.0	3.4	4.0
Smoke obscuration integration	%×min	9.57	18.76	5.72	13.41

### Result

Parameters	Unit	Results
Average flame spread	mm	490
Average critical heat flux	kW/m <sup>2</sup>	3.8
Average smoke obscuration integration	%×min	11.35

  
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**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 results of these fire tests 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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