

CERTIFICATE

Material Fire Test Certificate

IGNL-7055-05-01C I01 R01

DATE OF TEST 27.04.2023
24.05.2023
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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
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Heatherton, VIC 3202

TEST BODY

Ignis Labs Pty Ltd
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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 |
| | | 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 | 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/m ² | 9.97 | 8.99 | 8.75 | 9.64 |
| HF-20 | kW/m ² | 6.27 | 5.09 | 5.48 | 5.68 |
| HF-30 | kW/m ² | 5.09 | 3.94 | 4.26 | 5.48 |
| CHF | kW/m ² | - | - | - | - |
| Critical heat flux | kW/m ² | 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/m ² | 4.4 |
| Average smoke obscuration integration | %×min | 29.32 |


Test Supervisor
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Technical Lead
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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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