# CERTIFICATE

Material Fire Test Certificate

**IGNL-9482-05-01C I01 R00**

| | |
|---|---|
| DATE RECEIVED | 26/09/2025 |
| DATE OF TEST | 28/11/2025 |
| | 01/12/2025 |
| ISSUE DATE | 17/12/2025 |
| EXPIRY DATE | 16/12/2030 |

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

**SPONSOR**

**Belgotex Floorcoverings (Australia)**
Building 3, Warehouse 8
161 Manchester Road
Auburn, NSW, 2144

**TEST BODY**

**Ignis Labs Pty Ltd**
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*Test body is the test location*

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

## Specimen Name

Sumptuous

## Specimen Description

The sponsor has described the specimen as a tufted cut pile carpet. It has a nominal composition of 100% premium soft solution dyed nylon. It has a nominal mass per unit area of 1560 g/m$^2$. The client requested the specimen to be laid over Dunlop Government Red Underlay.
The received specimen were grey tufted cut pile carpets with a felt backing and a brown pile. It had an average length of 1050 mm and a width of 230 mm. It had a measured pile thickness of 7.70 mm and a measured base thickness of 2.23 mm. The underlay had a measured thickness of 7.44 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.

## Test Method

Four (4) specimens were tested in accordance with Australia Standard 9239.1-2003 Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat source carried out in accordance with EN ISO 9239-1. The specimens were conditioned in accordance with BS EN 13238 at a temperature of 23 ±2 °C and relative humidity of 50 ±5 % for a minimum of 48 hours prior to testing. Specimens 1 to 3 were tested with production direction while specimen 4 was tested against the production direction. All specimens were tested until extinguishment.

## Observations

Comparing the critical heat flux values of specimens tested in two directions, the specimen with the production direction demonstrated a worse result and as such an additional two tests were completed in that direction. Smoke was observed within 5 to 15 seconds, with melting at the zero end by 30 seconds. Ignition occurred at 145 to 155 seconds into the test. By 3 minutes, flaming had penetrated the carpet and underlay. Flaming droplets fell from specimen 3 at 9.5 minutes and were extinguished at 10.5 minutes. After the test, the first half of all specimens was charred and discoloured.

## Calculations

| Parameters | Unit | Specimen | | | |
|---|---|---|---|---|---|
| | | With Product Direction | | Against Product Direction | |
| **Specimen number** | | 1 | 2 | 3 | 4 |
| **Test duration** | min | 50.73 | 44.28 | 58.02 | 52.73 |
| **Time to reach 50mm** | s | 246 | 262 | 265 | 270 |
| **Flameout time** | min | 50.73 | 44.28 | 58.02 | 52.73 |
| **Flame spread at 10 min** | mm | 380 | 400 | 370 | 340 |
| **Flame spread at 20 min** | mm | 480 | 580 | 510 | 490 |
| **Flame spread at 30 min** | mm | 520 | 620 | 560 | 520 |
| **Flame spread at flameout** | mm | 580 | 620 | 610 | 570 |
| **Maximum light attenuation** | % | 48.77 | 54.98 | 62.14 | 52.26 |
| **HF-10** | kW/m$^2$ | 5.70 | 5.33 | 5.88 | 6.43 |
| **HF-20** | kW/m$^2$ | 4.10 | 2.79 | 3.65 | 3.95 |
| **HF-30** | kW/m$^2$ | 3.53 | 2.35 | 3.04 | 3.53 |
| **CHF** | kW/m$^2$ | 2.79 | 2.35 | 2.42 | 2.91 |
| **Critical heat flux** | kW/m$^2$ | 2.8 | 2.4 | 2.4 | 3.0 |
| **Smoke obscuration integration** | %×min | 241.43 | 367.18 | 374.36 | 294.32 |

## Result

| Parameters | Unit | Results |
|---|---|---|
| **Average flame spread** | mm | **603.33** |
| **Average critical heat flux** | kW/m$^2$ | **2.6** |
| **Average smoke obscuration integration** | %×min | **327.66** |

**Test Supervisor**
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**Technical Lead**
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