



CERTIFICATE

Material Fire Test Certificate

IGNL-9319-05-01C I01R00

DATE OF TEST 02.09.2025
ISSUE DATE 16.10.2025
EXPIRY DATE 15.10.2030

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

SPONSOR

Belgotex Floorcoverings (Australia) Pty Ltd
Building 3, Warehouse 8
161 Manchester 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



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

Specimen Name

Bjelin S/M/L

Specimen Description

The sponsor described the specimen as hardened timber flooring. It is composed of an ultra HDF core and has a nominal thickness of 9 mm. The sponsor described its colour as 'terra brown' (dark brown) and has an end use in residential and commercial applications. The exposed face has a veneer wood layer with a lacquered surface.

The specimen was received as hardened timber flooring and was tested on Belgotex Aqua Elite underlay. The flooring was dark brown in colour and had an average measured thickness of 9.24 mm. The underlay was blue in colour and had an average measured thickness of 2.15 mm. The specimens had an average measured total thickness of 11.34 mm and was tested on a 7.5 mm fibre cement substrate.

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. Specimens 1 to 3 were tested with the production direction, and specimen 4 was tested against the production direction. As per the request of the sponsor, the specimens were tested until extinguishment.

Observations

Comparing the critical heat flux values of specimens tested in two directions, the specimen tested with the production direction yield the worst result and as such an additional two tests were completed and detailed below. The specimen tested with the product direction exhibited similar behaviour. Smoke and bubbling were observed prior to ignition, and ignition occurred at 208, 198, and 200 seconds into the test for specimens 1 to 3 respectively. Flameout occurred at 2242, 912, and 1028 seconds. After the test, the specimens were charred black and cracked where flaming had occurred. Charring and bubbling were also observed up to 350 mm from the zero point. After the test, the membrane on the specimen surfaces had cracked and bubbled. The burnt sections were cracked, bulged, and heavily charred.

Calculations

Parameters	Unit	Specimen			Against the production direction
		With the production direction			
		1	2	3	4
Specimen number					
Test duration	min	37.65	30.00	30.00	30.00
Time to reach 50mm	s	314	305	286	450
Flameout time	min	37.37	15.2	17.13	12.0
Flame spread at 10 min	mm	110	190	220	110
Flame spread at 20 min	mm	310	250	260	110
Flame spread at 30 min	mm	310	250	260	110
Flame spread at flameout	mm	310	250	260	110
Maximum light attenuation	%	6.28	12.56	14.92	4.90
HF-10	kW/m ²	11.20	9.65	9.07	11.00
HF-20	kW/m ²	7.23	8.45	8.25	11.00
HF-30	kW/m ²	7.23	8.45	8.25	11.00
CHF	kW/m ²	7.23	8.45	8.25	11.00
Critical heat flux	kW/m ²	7.2	8.4	8.2	11.0
Smoke obscuration integration	%xmin	8.57	17.42	23.38	8.39

Result

Parameters	Unit	Results
Average flame spread	mm	273.33
Average critical heat flux	kW/m ²	8.0
Average smoke obscuration integration	%xmin	16.46

D. Laker

Test Supervisor
Darren Laker

Jessica Ying

Technical Lead
Jessica Ying

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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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