



## Polyflor Australia Fire Certificates for NCC Spec C1.10 Compliance

Polyflors' products are manufactured and tested in the UK.

Polyflor has gone to great lengths to have the UK laboratory, Shirley Technologies Limited, Wira House BCTC, UKAS accredited to perform the fire test required by the Australian NCC, AS ISO 9239.1-2003.

In the Definitions section of the NCC, an Accredited Testing Laboratory means—

(a) an organisation accredited by the National Association of Testing Authorities (NATA) to undertake the relevant tests; or

**(b) an organisation outside Australia accredited to undertake the relevant tests by an authority recognised by NATA through a mutual recognition agreement;**

Polyflors' test certificates comply with definition (b). NATA is a signatory of ILAC (International Laboratory Accreditation Cooperation), a Mutual Recognition Program where international accreditation programs, like NATA, are recognised as similar acceptable quality standards.

UKAS is also a signatory and results obtained by a UKAS certified lab are recognised by NATA under this ILAC-MRA agreement.

The laboratory Polyflor uses, BCTC, is UKAS certified to perform AS ISO 9239.1-2003.

This compliance is available via their website and is also stamped on the report.

Regarding terminology, in the definitions section of the NCC, *Critical radiant flux means the critical heat flux at extinguishment as determined by AS ISO 9239.1.*

The *smoke development rate* as required under Clause 3 of Specification C1.10 is determined from the AS ISO 9239.1 test method and is by measurement of the smoke obscuration over time. This is expressed as Smoke Obscuration % x minutes.

The AS ISO test method has been developed from International Standards and hence the reason why the difference in terminology to the NCC.

The supplied fire certificate is acceptable in Australia as it is the Australian test performed by a NATA recognised certified laboratory for compliance to Specification C1.10 Clause 3.



# Confidential Report

**Our Ref: 26/02711D/03/20**



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Notified Body  
for PPE Directive,  
Construction Products Regulation  
& Marine Equipment Directive  
I.D. No. 0338 & 0339



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Date: 15 June 2020

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Your Ref: -

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Client: Polyflor Ltd  
PO Box 3  
Radcliffe New Road  
Whitefield  
Manchester  
M45 7NR

Job Title: Fire Test on One Sample of Vinyl Flooring Tile

Client's Order No: 2247870

Date of Receipt: 16 March 2020

Description of Sample(s): One sample of vinyl flooring tile  
Sample Reference: MiPlank Acoustic  
Nominal Thickness: 5.00mm  
Weight per Unit Area: --kg/m<sup>2</sup>  
Batch No: J0315/1  
Shade: 9065

Work Requested: We were asked to make the following test(s):  
  
AS ISO 9239-1

This report relates only to the samples submitted and as described in the report.

- \* subcontracted test, UKAS accredited
- \*\* subcontracted test, EN ISO/IEC 17025 accredited
- \*\*\* not UKAS accredited



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The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.  
Our laboratories are accredited to EN ISO/IEC 17025.

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Client: Polyflor Ltd

## FIRE TESTS ACCORDING TO AS ISO 9239-1:2003

### Reaction to fire tests for Floorings - Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1:2002)

Date of Test: 02/06/2020

## Conditioning

The specimens were conditioned in accordance with BS EN 13238:2002. The substrate used was a fibre cement board.

## Procedure

The test was carried out in accordance with AS ISO 9239-1. The sponsor sampled and cut the specimens to the dimensions stated.

Specimens were individually placed in the combustion chamber and allowed to preheat for two minutes under a radiant panel, which gives an imposed radiant flux ranging from approximately 11.0 kW/m<sup>2</sup> to 1.0 kW/m<sup>2</sup> along the specimen.

The pilot flame used was the line burner as described and was applied to the surface of the specimen for 10 minutes and then removed.

The flame front was measured at the end of the test or at 30 minutes if applicable.

Test termination was considered to be when the flame front self extinguished or at 30 minutes, whichever is the sooner.

The heat flux from the panel incident on the specimen when self extinguished or at 30 minutes (critical heat flux CHF or HF-30) was calculated from a prior calibration.

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## Results

The test results relate to the behaviour of the test specimens of a material under the particular conditions of test; they are not intended to be the sole criterion for assessing the full potential fire hazard of the materials in use.

<u>Specimen No.</u>	<u>Direction of spec.</u>	<u>Smoke Obscuration/ Development</u>		<u>Maximum Flame front (mm)</u>	<u>Heat Flux-30 (HF-30) (kW/m<sup>2</sup>)</u>	<u>Critical Heat/Radiant Flux (CHF/CRF) (kW/m<sup>2</sup>)</u>	<u>Duration of Flaming (sec)</u>
		<u>Max %</u>	<u>% x min</u>				
1	Machine	100	567	272	7.6	7.6	760
2	Across	100	514	220	8.7	8.7	754
3	Machine	100	500	242	8.3	8.3	763
4	Machine	100	526	250	8.0	8.0	753
Mean of 3 specs.	Machine	100	531	255	7.9	7.9	759

<u>Distance Burnt (mm)</u>	<u>Time for each specimen to burn (s)</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
50	145	150	170	140
100	200	195	200	166
150	300	240	220	207
200	360	310	250	285
250	390	--	--	360

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## Note

One specimen was initially tested in each direction and whichever direction gave the worst result a further two specimens were tested. Only the results of the 3 specimens in the same direction were used to calculate the mean results.

The specimens of floor covering were tested stuck down onto a 6mm fibre cement board using KIESEL OKATMOS® STAR adhesive supplied by client, as defined in BS EN 13238:2010.

Reported by:.....*B Marsden*..... B Marsden (Mrs), Senior Fire Technician

Countersigned by:.....*P Doherty*..... P Doherty, Executive Manager

Enquiries concerning this report should be addressed to Customer Services.



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