



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.



Polyflor Ltd
Mr. Graham King
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Your notice of
 13-02-2019

Your reference

Date
 08-04-2019

Analysis Report 19.00930.10

Required tests :

EN 13501-1 (2007) + A1 (2009)

Identification number	Information given by the client	Date of receipt
T1903509	Silentflor PUR	13-02-2019



Kristina De Temmerman
 Order responsible

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 The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples.
 In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.



Reference: T1903509 - Silentflor PUR

Information given by the client

Product standard	EN 13501-1 (2007) + A1 (2009)
Floor covering type	Polyvinyl chloride floor coverings with foam layer
EN product standard	EN 651
FR treated	no
Mass	2.55 kg/m ²
Thickness	3.7 mm

Notified body No: 0493

Reference: T1903509 - Silentflor PUR

Reaction to fire tests – Ignitability of building products subjected to direct impingement of flame - Single-flame source test

Product standard EN 13501-1 (2007) + A1 (2009)

Classification of resilient floor coverings in accordance with EN 14041 (2004) § 4.1.4
“The resilient floor coverings listed in Table 3, in the end uses identified in the table, are classified without further testing (CWFT) in the classes shown and do not require testing in respect of these end uses and classes”.

Table 3 – Classes of reaction to fire for resilient floor coverings, classified without further testing

Floor covering type ¹	EN product standard	Minimum mass (kg/m ²)	Maximum mass (kg/m ²)	Minimum overall thickness (mm)	Class ² Floorings
Plain and decorative Linoleum	EN 548	2.3	4.9	2	Efl
Homogeneous and heterogeneous polyvinyl chloride floor coverings	EN 649	2,3	3,9	1,5	Efl
Polyvinyl chloride floor coverings with foam layer	EN 651	1.7	5.4	2	Efl
Polyvinyl chloride floor covering with cork-based backing	EN 652	3.4	3.7	3.2	Efl
Expanded (cushioned) polyvinyl chloride floor coverings	EN 653	1,0	2,8	1,1	Efl
Semi-flexible polyvinyl chloride tiles	EN 654	4.2	5.0	2	Efl
Linoleum on corkment backing	EN 687	2.9	5.3	2.5	Efl
Homogeneous and heterogeneous smooth rubber floor coverings with foam backing	EN 1816	3.4	4.3	4	Efl
Homogeneous and heterogeneous smooth rubber floor coverings	EN 1817	3.0	6.0	1.8	Efl
Homogeneous and heterogeneous relief rubber floor coverings	EN 12199	4.6	6.7	2.5	Efl
¹⁾ Floor covering loose laid over any wood based substrate of at least Class D-s2,d0 or any substrate of at least Class A2-s1,d0.					
²⁾ Class as provided for in Table 2 in the Annex to Decision 2000/147/EC.					



Classification

Class E_n



Reference: T1903509 - Silentflor PUR

Reaction to fire tests for floorings - Determination of the burning behaviour using a radiant heat source

Date of ending the test	02-04-2019
Standard used	EN ISO 9239-1 (2010)
Product standard	EN 13501-1 (2007) + A1 (2009)
Deviation from the standard	-
Conditioning	23°C, relative humidity 50% Minimum 14 days or until constant mass is achieved

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

Test specimen

Substrate	Particle board - density $(680 \pm 50) \text{ kg/m}^3$
Mounting	Stuck down with UZIN KE 2000 S / solvent-free dispersion adhesive
Specimens have not been cleaned	

Radiant heat flux

	Flame spread distance (cm)			Flame time	Heat flux *
	10 min	20 min	30 min		kW/m ²
Length					
#1	26	26	26	16 min 00 s	8.3
Width					
#1	26	26	27	27 min 40 s	8.0
#2	26	26	26	20 min 10 s	8.3
#3	26	26	26	14 min 30 s	8.3
Average					8.2

* Heat flux at the time of flame extinguishment or after a test duration of 30 minutes.

Fire classification in accordance with EN 13501-1 (2007) + A1 (2009)		
Class	EN ISO 11925-2 or CWFT	EN ISO 9239-1 (test duration = 30 min)
B _{f1}	E _{f1}	heat flux ≥ 8,0 kW/m ²
C _{f1}	E _{f1}	heat flux ≥ 4,5 kW/m ²
D _{f1}	E _{f1}	heat flux ≥ 3,0 kW/m ²

Smoke production: Light attenuation

	Maximum (%)	Total (%.min)
Length		
#1	87	210
Width		
#1	92	247
#2	94	241
#3	92	280
Average		256

Additional classification in accordance with EN 13501-1 (2007) + A1 (2009)	
smoke production ≤ 750%.min	s1
smoke production > 750%.min	s2



Reaction to fire classification : B_{fl}/ s1

*Glued on a combustible substrate**

** End use substrates of wood and of classes A1 and A2-s1,d0 (EN 13238:2010 § 5.2.3)*

Limitations

This classification document does not represent type approval or certification of the product.

“The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 of assessment and verification of constancy of performance and CE marking under the Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.”