

Title:

CLASSIFICATION OF REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2018.

Approved Body No:

0833

Product Name:

"Flotex Next"

Report No:

WF 521392

Issue No:

1

Prepared for:

Forbo Flooring UK Ltd
High Holborn Road
Ripley
Derbyshire
DE5 3NT

Date:

23rd September 2022

1. Introduction

This classification report defines the classification assigned to “Flotex Next”, a flocked floor covering product, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The product, “Flotex Next”, is defined as being suitable for flooring applications.

2.2 Product description

The product, “Flotex Next”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Item		Detail
General description		Flocked floorcovering
Product reference of system		“Flotex Next”
Name and address of manufacturer of system		Forbo Flooring UK Ltd
Overall thickness of system		3.9mm (stated by sponsor) 3.84mm (determined by Warringtonfire)
Weight per unit area or density of system		2150g/m ² (stated by sponsor) 2264.18g/m ² (determined by Warringtonfire)
Pile	Generic type	Nylon 6.6
	Product reference	“RA110-(15C71/150XYD)”
	Name of manufacturer	Domo / Invista
	Pile height above the backing	2mm
	Weight per unit area	250g/m ²
	Flame retardant details	See Note 1 below

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Fibreglass reinforcement #1	Generic type	Fibreglass nonwoven and scrim laminate
	Product reference	"RA171 / (M4107SF15C20040 OC Veil)"
	Name of manufacturer	Fothergill Crenette
	Thickness	0.60mm
	Weight per unit area	85g/m ²
	Flame retardant details	See Note 1 below
Fibreglass reinforcement #2	Generic type	Fibreglass nonwoven
	Product reference	"RA170 / (F22-AE27-2040)"
	Name of manufacturer	Owens Corning BV
	Thickness	0.22mm
	Weight per unit area	22g/m ²
	Flame retardant details	See Note 1 below
Pile adhesive	Generic type	Polyvinylchloride plastisol
	Product reference	"RWP02"
	Name of manufacturer	Forbo Flooring UK Ltd
	Thickness	0.25mm
	Weight per unit area	370g/m ²
	Flame retardant details	See Note 2 below
Back coating #1	Generic type	Compact polyvinylchloride
	Product reference	"RWP14"
	Name of manufacturer	Forbo Flooring UK Ltd BV
	Thickness	0.8mm
	Weight per unit area	875g/m ²
	Flame retardant details	See Note 1 below

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Back coating #2	Generic type	Closed cell polyvinylchloride
	Product reference	"RWP15"
	Name of manufacturer	Forbo Flooring UK Ltd
	Thickness	0.75mm
	Weight per unit area	550g/m ²
	Flame retardant details	See Note 1 below
Brief description of manufacturing process		A coating of a compact PVC is applied to a scrim reinforced fibreglass nonwoven, after which a second fibreglass nonwoven is added. After gelling, a closed cell PVC foam is coated on top of the second nonwoven. The material is then gelled and inverted and the flock adhesive is applied. The pile is then electrostatically flocked into the adhesive. After curing, the product is printed and is then cut into rolls.

Note 1: The sponsor stated that there were no flame retardant additives used in the production of the component.

Note 2: The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

3. Test reports/ test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test report Nos.	Test method & date
Warringtonfire	Forbo Flooring UK Ltd	517961	EN ISO 9239-1: 2010
Warringtonfire	Forbo Flooring UK Ltd	517962	EN ISO 11925-2: 2020

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 9239-1	Critical flux	3	8.4 kW/m ²	-
	Smoke		167% min	-
EN ISO 11925-2 (15s exposure - surface)	F _s	6	-	Compliant (≤40 mm)
	Flaming droplets/ particles		-	Compliant
EN ISO 11925-2 (15s exposure - edge)	F _s	6	-	Compliant (≤50 mm)
	Flaming droplets/ particles		-	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-1: 2018 and EN 14041: 2004/AC: 2006.

4.2 Classification

The product, "Flotex Next", a flocked floor covering product, in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for flooring applications is:

Fire Behaviour		Smoke Production	
B_{fl}	-	s	1

i.e. **B_{fl} – s1**

Reaction to fire classification: B_{fl} – s1

4.3 Field of application

This classification is valid for the following end use applications:

- i) Floorcovering applications applied over any wooden or Class A1 or Class A2-s1,d0 substrate with a density equal to or greater than 510kg/m³, having a minimum thickness of 18mm and a fire performance of C_{fl} – s1 or better.
- ii) Installed with or without adhesive.

This classification is also valid for the following product parameters:

Product thickness	3.9mm, no variation allowed
Product weight per unit area	2150g/m ² , no variation allowed
Product colour/pattern	Any variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

5. Limitations

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

Authored



Claire Lawrence
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Signed



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