

Title:

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

Approved Body No:

0833

Product Name:

“Digiflor Tactile Digital Print Flooring”

Report No:

WF 429752

Issue No:

1

Prepared for:

Papergraphics Ltd.

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Date:

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1. Introduction

This classification report defines the classification assigned to “Digiflor Tactile Digital Print Flooring”, a family of printed foam backed polyvinylchloride flooring products, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The products, “Digiflor Tactile Digital Print Flooring”, are defined as being suitable for flooring applications.

2.2 Product description

The products, “Digiflor Tactile Digital Print Flooring”, are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Digitally printed flooring
Product reference of overall composite		“Digiflor Tactile digital print flooring”
Name of manufacturer of overall composite		See Note 1 Below
Thickness of overall composite		2mm (stated by sponsor) 2.17 (determined by Warringtonfire)
Weight per unit area of overall composite		1000g/m ² (stated by sponsor) 857.96g/m ² (determined by Warringtonfire)
Ink	Product reference	“Latex” or “UVC”
	Colour	“Any colour / pattern”
	Generic type	Aqueous based polymer
	Name of manufacturer	Various
	Application method	Inkjet
	Application rate	12 ml/m ²
	Specific gravity	1.01 - 1.03
Coating	Generic type	See Note 1 Below
	Product reference	See Note 1 Below
	Name of manufacturer	See Note 1 Below
	Colour reference	“Any colour/pattern”
	Number of coats	See Note 1 Below
	Application rate / thickness per coat	See Note 1 Below
	Density / specific gravity	See Note 1 Below
	Application method	See Note 1 Below
	Curing process per coat	See Note 1 Below
	Flame retardant details	See Note 1 Below

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Fabric	Generic type	Woven fabric
	Trade name	See Note 1 Below
	Name of manufacturer	See Note 1 Below
	Composition details	100% polyester
	Thickness	0.32mm
	Weight per unit area	170g/m ²
	Colour reference	"White"
	Type of weave	Plain weave
	Threads per inch (TPI)	105x300 threads per inch
	Yarn count	100x300 dtex
	Flame retardant details	See Note 2 Below
Foam	Generic type	Expanded polyvinylchloride
	Product reference	See Note 1 Below
	Name of manufacturer	See Note 1 Below
	Thickness	1.7mm
	Density / weight per unit area	650 g/m ²
	Colour reference	"White"
	Flame retardant details	See Note 1 Below
Brief description of manufacturing process		See Note 1 Below
Substrate		The specimens were tested with a nominally 8mm thick fibre cement board (as specified in EN 13238: 2010) present.

Note 1: 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.

Note 2: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

3. Test reports/ extended application reports & test results in support of classification

3.1 Test reports/ extended application reports

Name of Laboratory	Name of sponsor	Test reports/ extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Papergraphics Ltd	WF 429737 (indicative) & WF 429739 (formal)	EN ISO 11925-2: 2020
Warringtonfire	Papergraphics Ltd	WF 429736 (indicative) & WF 429738 (formal)	EN ISO 9239-1: 2010
Warringtonfire	Papergraphics Ltd	WF 429753	EN 15725:2010 and EN/TS 15117:2005

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 – Latex ink	$\geq 11.0 \text{ kW/m}^2$	-
		1 – UV ink	$\geq 11.0 \text{ kW/m}^2$	
	Smoke	3 – Latex ink	51 % min	-
		1 – UV ink	43 % min	
EN ISO 11925-2 (15s exposure - surface)	F_s	6 – Latex ink	-	Compliant ($\leq 80 \text{ mm}$)
		2 – UV ink		Compliant ($\leq 70 \text{ mm}$)
	Flaming droplets/ particles	6 – Latex ink	-	Compliant
		2 – UV ink		
EN ISO 11925-2 (15s exposure – edge)	F_s	6 – Latex ink	-	Compliant ($\leq 70 \text{ mm}$)
		2 – UV ink		Compliant ($\leq 60 \text{ mm}$)
	Flaming droplets/ particles	6 – Latex ink	-	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, BS EN 15725: 2010, EN/TS 15117: 2005, and EN 14041: 2004/AC: 2006.

4.2 Classification

The products, “Digiflor Tactile Digital Print Flooring”, a family of printed foam backed polyvinylchloride flooring products, 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 substrate with a minimum density of 1800kg/m³, having a minimum thickness of 6mm and a fire performance of A2_{fl}-s1 or better.
- ii) Installed with or without adhesive.

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour/pattern	Any variation allowed
Ink type	Latex or UV as described above
Product composition	No variation allowed other than print ink detailed above
Product construction	No variation allowed other than print ink detailed above

5. Limitations

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

SIGNED



Stacey Deeming

Principal Engineer
Technical Department

APPROVED



Matthew Dale

Principal Certification Engineer
Technical Department
on behalf of [Warringtonfire](#)

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