Warringtonfire
Holmesfield Road
Warrington
WA1 2DS

T: +44 (0)1925 655 116
info.warrington@warringtonfire.com
warringtonfire.com

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.
Diva Innovation Ctr.
Crompton Way
Crawley
West Sussex
RH10 9QR

Date:

28th June 2021

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	≥11.0 kW/m^2	-
		1 – UV ink	≥11.0 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 (≤80 mm)
		2 – UV ink		Compliant (≤70 mm)
	Flaming droplets/ particles	6 – Latex ink	-	Compliant
		2 – UV ink		
EN ISO 11925-2 (15s exposure – edge)	F_s	6 – Latex ink	-	Compliant (≤70 mm)
		2 – UV ink		Compliant (≤60 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

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Stacey Deeming
Principal Engineer
Technical Department

APPROVED

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Matthew Dale
Principal Certification Engineer
Technical Department
on behalf of Warringtonfire