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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1:2007+A1: 2009.

Notified Body No:

0833

Product Name:

“Digiflor”

Report No:

WF 340391

Issue No:

1

Prepared for:

Papergraphics Limited
Diva Innovation Centre
Crompton Way
Crawley
West Sussex
RH10 9QR

Date:

22nd May 2014

UKAS TESTING
0249

1. Introduction

This classification report defines the classification assigned to “Digiflor”, a digitally printable PVC flooring product, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, “Digiflor”, a digitally printable PVC flooring product, is defined as being suitable for floorcovering applications.

2.2 Product description

The product, “Digiflor”, a digitally printable PVC flooring product, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description			Digitally printable PVC flooring tested loose laid over cement based board
Product reference of composite flooring			“Digiflor”
Name of manufacturer of composite flooring			**See Note 1 below**
Thickness of composite flooring			2.20mm (stated by sponsor) 2.09mm (determined by **Exova Warringtonfire**)
Weight per unit area of composite flooring			1000g/m² (stated by sponsor) 1252.8g/m² (determined by **Exova Warringtonfire**)
Coated fabric	Generic type		85% PVC / 15% polyester
	Product reference		“Digiflor”
	Name of manufacturer		**See Note 1 below**
	Thickness		2.20mm
	Weight per unit area		1000g/m²
	Coating	Generic type	PVC Plastisol
		Product reference	“Print Floor 1,2”
		Name of manufacturer	**See Note 2 below**
		Colour reference	**See Note 2 below**
		Number of coats	1
		Application thickness	0.1mm
		Specific gravity	1.2
		Application method	**See Note 2 below**
		Curing process	**See Note 2 below**
		Flame retardant details	**See Note 2 below**

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Coated fabric continued...	Fabric	Generic type	PES woven
		Product reference	"Polyester 24x16"
		Name of manufacturer	**See Note 2 below**
		Thickness	0.3mm
		Weight per unit area	145g/m^2
		Colour reference	**See Note 2 below**
		Pattern reference	**See Note 2 below**
		Type of weave	Plain weave
		Flame retardant details	**See Note 2 below**
	Coating	Generic type	PVC Plastisol
		Product reference	"Print Floor 1,2"
		Name of manufacturer	**See Note 2 below**
		Colour reference	**See Note 2 below**
		Number of coats	1
		Application thickness	0.1mm
		Specific gravity	1.2
		Application method	**See Note 2 below**
		Curing process	**See Note 2 below**
		Flame retardant details	**See Note 2 below**
	Foam	Generic type	Expanded PVC Plastisol
		Product reference	"Print Floor 3,4"
		Name of manufacturer	**See Note 2 below**
		Thickness	1.7mm
		Weight per unit area	650g/m^2
		Colour reference	**See Note 2 below**
		Flame retardant details	**See Note 2 below**
	Substrate	Product reference	"NT D4 604"
		Generic type	Fibre cement board
		Name of manufacturer	Scheerders van de Kerkhove (SVK)
		Thickness	8mm
		Density	1800±200kg/m^3
Brief description of manufacturing process			**See Note 2 below**

Note 1. The sponsor of the test was unwilling to provide this information.
Note 2. The sponsor of the test was unable to provide this information.

3. Test reports & test results in support of classification.

3.1 Test reports.

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Papergraphics Limited	WF 340376	EN ISO 11925-2
Exova warringtonfire	Papergraphics Limited	WF 340375	EN ISO 9239-1

3.2 Test results

Test method & test number		Parameter	No. tests	Results	
				Continuous parameter - mean (m)	Compliance with parameters
EN ISO 9239-1		Critical flux	3	10.7	Compliant
		Smoke		104.29	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F_s	6	60	Compliant
		Flaming droplets/ particles		None	Compliant
	(15s exposure – edge of decorative face)	F_s	6	58.3	Compliant
		Flaming droplets/ particles		None	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 13501-1:2007+A1: 2009.

4.2 Classification

The product, “Digiflor”, a digitally printable PVC flooring 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 floorings 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 8mm and a fire performance of $A2_{FL}$ or better.
ii) Installed with or without adhesive.

This classification is also valid for the following product parameters:

Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Floorcovering composition	No variation allowed
Floorcovering construction	No variation allowed
Colour/Pattern	Any variation allowed

SIGNED

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Matthew Dale
Certification Engineer
Technical Department

APPROVED

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Janet Murrell
Technical Manager
Technical Department
on behalf of **Exova warringtonfire**