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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:

"Expona Design."

Report No:

306937

Issue No:

1

Prepared for:

Polyflor Limited, PO Box 3,
Radcliffe New Road,
Whitefield, Manchester,
M25 7NR

Date:

27th April 2011

1. Introduction

This classification report defines the classification assigned to "Expona Design", a luxury vinyl floor tile product, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "Expona Design", a luxury vinyl floor tile product, is defined as being suitable for floorcovering applications.

2.2 Product description

The product, "Expona Design", a luxury vinyl floor tile product, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description of range		Luxury Vinyl Floor Tile
Product reference		"Expona Design"
Floorcovering	Generic type	Luxury vinyl floor tile
	Name of manufacturer	Polyflor Limited
	Overall thickness	3.0mm
	Overall weight per unit area	5100/m ²
	Colour reference	Any colour
	Pattern reference	Any pattern
	Surface Coating	Trade name
		See 'Note 1' below
		Generic type
		Matt polyurethane (PU) coating
		Name of manufacturer
		See 'Note 1' below
	Floorcovering core	Application rate
		See 'Note 1' below
		Application method
		Roller coater
		Flame retardant details
		See 'Note 2' below
		Trade name
		See 'Note 1' below
		Generic type
		Calendered Clear PVC
		Name of manufacturer
		Polyflor Limited
		Overall weight per unit area
		See 'Note 1' below
		Wear layer thickness
		0.7mm
		Print layer thickness
		0.07mm
		Middle layer thickness
		1.16mm
		Backing layer thickness
		1.07mm
		Flame retardant details
		See 'Note 1' below
Adhesive (floor covering to substrate)	Trade name	"Styccobond F44"
	Generic type	Acrylic based adhesive
	Name of manufacturer	F Ball & Co. Ltd
	Application rate	200 g/m ²
	Application method	'V' notched trowel
	Flame retardant details	See 'Note 2' below

Continued on next page

Substrate	Generic type	Fibre cement board (ISO 390)
	Overall thickness	6 mm
	Overall weight per unit area	1800 kg/m ³
	Flame retardant details	The substrate is inherently flame retardant
	Preparation details	None
Brief description of manufacturing process of the floor covering		Calendering / Lamination

Note 1 – The sponsor was unwilling to provide this information.

Note 2 – The sponsor / manufacturer stated that no flame retardant additives were utilised in the construction of the component.

Note: The precise composition of the product submitted for test is regarded by the sponsor to be of a highly confidential nature and as a consequence this information is maintained by Polyflor at their Whitefield factory. This information can be inspected by Exova warringtonfire at anytime and the information is checked, stamped, signed and dated by a member of Exova warringtonfire to prevent misuse.

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 / Classification report Nos.	Test method / extended application rules & date
BTTG / BCTC	Polyflor Limited	2600135A/08/05, 2600135B/08/05, 2600907/07/09, 2600625/11/07, 2601146/10/10, 25/02546A/04/09, 2600647/12/07, 2600233A/02/06, 2600233A/02/06, 2600232A/02/06, 2600232B/02/06	EN ISO 11925-2 / EN ISO 9239-1
Exova warringtonfire	Polyflor Limited	WF 306936	EN/TS 15117

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	9.3 to ≥ 11.0	Compliant
		Smoke		25 to 181	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F _s	6	None	Compliant
	(15s exposure – edge of decorative face)	F _s	6	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, "Expona Design", a luxury vinyl floor tile 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 bonded directly to any substrate with a minimum density of 1800kg/m³, having a minimum thickness of 6mm and a fire performance of A2_{FL} or better.
- ii) Installed directly to the substrate utilising 'F44' adhesive, applied at a nominal rate of 200g/m²

This classification is also valid for the following product parameters:

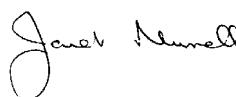
Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Floorcovering composition	No variation allowed
Colour/Pattern	Any variation allowed

SIGNED



.....
Matthew Dale
Certification Engineer

APPROVED



.....
Janet Murrell
Technical Manager
For and on behalf of:
Exova Warringtonfire

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