

classification report

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2002

Notified Body No:

0833

Product Name:

G2 HELIX

Report No:

156405

Issue No:

1

Prepared for:

Tessera Carpet Tiles, Unit 92,
Seedlee Road, Walton
Summit, Preston, Lancashire,
PR5 8AE

Date:

29th August 2006

1. Introduction

This classification report defines the classification assigned to 'G2 HELIX', a loop pile tufted carpet tile, in accordance with the procedures given in EN 13501-1:2002

2. Details of classified product

2.1 General

The product, 'G2 HELIX', a loop pile tufted carpet tile, is defined as being suitable for floorcovering applications.

2.2 Product description

The product, 'G2 HELIX', a loop pile tufted carpet tile, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Product configuration		Carpet tile Adhesive Substrate
Carpet tile	General description	Loop Pile Tufted Carpet Tile
	Product reference of carpet tile	G2 HELIX
	Name of manufacturer of carpet tile	Bonar Floors
	Overall thickness of carpet tile	7.5mm
	Overall weight per unit area of carpet tile	4355 g/m ²
	Colour reference of carpet tile	"Oxide"
	Pattern reference of carpet tile	See Note 1
	Pile	Product reference
		See Note 2
		Generic type
		Nylon
		Name of manufacturer
		Invista
	Backing	Pile height above the backing
		4.5mm
		Weight per unit area
		740 g/m ²
		Flame retardant details
		See Note 3
	Back Coating	Trade name / product reference
		See Note 2
		Generic type
		Polyester
		Name of manufacturer
		Johns Manville
		Thickness
		0.1mm
		Weight per unit area
		90 g/m ²
		Flame retardant details
		See Note 3
		Trade name / product reference
		See Note 2
		Generic type
		Modified Bitumen
		Name of manufacturer
		Nynas
		Thickness
		2.7mm
		Weight per unit area
		2500 g/m ²
		Flame retardant details
		See Note 3



Back coating applied to reverse face	Trade name / product reference	See Note 2
	Generic type	Latex
	Name of manufacturer	ILC
	Thickness	0.2mm
	Weight per unit area	995 g/m ²
	Flame retardant details	See Note 3
Adhesive (carpet tile to substrate)	Product reference	"Balls Styccobond F41" Surface Tackifier
	Generic type	Solvent free Acrylic Polymer Emulsion adhesive
	Name of manufacturer	F Ball & Co. Limited
	Application Rate	Approximately 7m ² per litre
	Application Method	Brush
Substrate	Product reference	"NT D4 604"
	Generic type	Fibre cement board
	Name of supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m ³
	Flame retardant details	The substrate is inherently flame retardant
Brief description of manufacturing process utilised in the production of the carpet tile		See Note 1

Note 1: the sponsor was unwilling to provide this information.

Note 2: the sponsor confirmed that there is no specific trade name or product reference associated with this component.

Note 3: the sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / 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	Tessera Carpet Tiles	WF 156921	EN ISO 11925-2
warringtonfire	Tessera Carpet Tiles	WF 156913	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	10.6	Compliant
	Smoke		81.13	Compliant
EN ISO 11925-2 (15s exposure – surface of decorative face)	F _s	6	30	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (15s exposure – edge of decorative face)	F _s	6	42	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (15s exposure – edge of decorative face to substrate adhesive layer through 90°)	F _s	6	25	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 11 of EN 13501-1:2002



4.2 Classification

The product, 'G2 HELIX', a loop pile tufted carpet tile, 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) Flooring applications, used over any substrate with a density equal to or greater than 1800Kg/m³, having a minimum thickness of 6mm and a fire performance of A2 or better.
- ii) Installed directly to the substrate utilising 'Balls Styccobond F41' adhesive, applied at a nominal rate of 7m²/litre



This classification is also valid for the following product parameters:

Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Colour/Pattern	Any variation allowed
Individual components	No variation allowed
Floorcovering construction	No variation allowed
Adhesive	No variation allowed

SIGNED

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APPROVED

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