

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2007

Notified Body No:

0833

Product Name:

Harlequin Reversible

Additional Report No:

186129

Issue No:

1

Prepared for:

British Harlequin plc
Festival House
Chapman Way
Tunbridge Wells
Kent
TN2 3EF

Date:

21st August 2009

1. Introduction

This classification report defines the classification assigned to 'Harlequin Reversible', a calendered, two ply PVC floorcovering, in accordance with the procedures given in EN 13501-1:2007.

2. Details of classified product

2.1 General

The product, 'Harlequin Reversible', a calendered, two ply PVC floorcovering, is defined as being suitable for floor covering applications.

2.2 Product description

The product, 'Harlequin Reversible', a calendered, two ply PVC floorcovering, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

This classification report is additional to that issued as **WF 185324 (Issue 2)** dated the **19/08/09** and has been issued at the request of the sponsor. The sponsor's original name has been removed and **British Harlequins PLC** has been inserted. The original classification report remains valid and is not replaced by this additional classification report. The product referred to in the original classification report and this additional classification report has not been re-tested since the original test and neither has a technical review of the original test report resulting in any technical changes been carried out.

The original reference of the calendered, two ply PVC floorcovering has been removed and the product reference **'Harlequin Reversible'** has been inserted. The sponsor of the test has stated that the material described in this additional classification report is identical to the material which was tested. Both the original and alternative product reference, and the original and alternative names and addresses of the sponsor have been documented, and the documentation is maintained in the confidential file covering this investigation.

General description		A calendered, two ply PVC floorcovering bonded to one face of a 6mm fibre cement board utilising F Ball & Co Limited's "F44" adhesive
Floorcovering	Trade name / product reference	'Harlequin Reversible'
	Generic type	A PVC floorcovering
	Name of manufacturer	British Harlequin PLC
	Overall thickness	1.3mm (Stated by sponsor) 1.41mm (Determined by Bodycote warringtonfire)
	Overall weight per unit area	1.73kg/m ² (Stated by sponsor) 1.78kg/m ² (Determined by Bodycote warringtonfire)

	Colour	Test face ply – Black Reverse face ply – White (Observed by Bodycote warringtonfire)
	Pattern reference	Plain
	Flame retardant details	The sponsor was unwilling to provide this information
Adhesive	Trade name	"Balls F44"
	Generic type	Acrylic based adhesive
	Name of manufacturer	F Ball & Co. Ltd.
	Application rate	200g/m ²
	Application method	'V' notched trowel
	Flame retardant details	The manufacturer stated that no flame retardant additives were utilised in the construction of the adhesive
Substrate	Trade name	"NT D4 604"
	Generic type	Fibre cement board
	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 of the floor covering		The floorcovering is manufactured in two steps, as follows: Step 1 – Two individual plies of the floorcovering are produced. Step 2 – Both plies are laminated together utilising a calendar process.

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
Bodycote warringtonfire	British Harlequin plc	WF 185748	EN ISO 11925-2
Bodycote warringtonfire	British Harlequin plc	WF 185749	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	11.3	Compliant
	Smoke		133.82	Compliant
EN ISO 11925-2 (15s exposure – surface of decorative face)	F _s	6	57	Compliant
	Flaming droplets/particles		None	Compliant
EN ISO 11925-2 (15s exposure – edge of decorative face)	F _s	6	60	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

4.2 Classification

The product, 'Harlequin Reversible', a calendered two ply PVC floorcovering, 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_{FL} or better.
- ii) Installed utilising 'Balls F44' adhesive at a coverage rate of 200g/m².

This classification is also valid for the following product parameters:

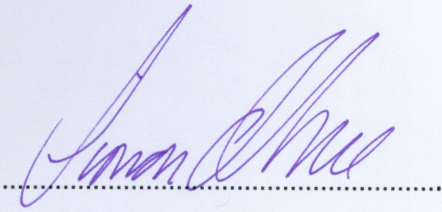
Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Colour/Pattern	Any variation allowed
Floorcovering composition	No variation allowed
Floorcovering construction	No variation allowed

5. Limitations

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



SIGNED



Simon Ince
Certification Engineer
Technical Department

APPROVED



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