

Exova Warringtonfire
Holmesfield Road
Warrington
WA1 2DS
United Kingdom

T : +44 (0) 1925 655 116
F : +44 (0) 1925 655 419
E : warrington@exova.com
W: www.exova.com



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:

"INLINE"

Report No:

WF 338263

Issue No:

1

Prepared for:

Forbo Flooring UK Limited
Unit 92, Seedlee Road
Walton Summit
Preston
PR5 8AE

Date:

21st March 2014



1. Introduction

This classification report defines the classification assigned to "INLINE", a tufted bitumen backed carpet tile, in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. Details of classified product

2.1 General

The product, "INLINE", a tufted bitumen backed carpet tile, as defined in the EN 14041, suitable for flooring applications.

2.2 Product description

The product, "INLINE", a tufted bitumen backed carpet tile, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Tufted bitumen backed carpet tile which was bonded to a fibre cement board substrate utilising "Balls F46" adhesive		
Product reference		"INLINE"		
Overall thickness		15.26mm (determined by Exova Warringtonfire)		
Overall weight per unit area		18.61kg/m ² (determined by Exova Warringtonfire)		
Carpet	Product reference of floorcovering		"INLINE"	
	Name of manufacturer of floorcovering		Forbo Flooring (UK) Ltd	
	Overall thickness of floorcovering		6.80mm	
	Overall weight per unit area of floorcovering		4025g/m ²	
	Pile	Product reference		"Yarn"
		Generic type		Polyamide
		Name of manufacturer		Universal
		Pile height above the backing		3.8mm
		Pile weight above the backing		300g/m ²
		Weight per unit area		510g/m ²
	Flame retardant details		See Note 1 Below	
	Latex tuft lock	Product reference		"Latex"
		Generic type		Antistatic latex
		Name of manufacturer		ILC
		Thickness		0.6mm
		Weight per unit area		800g/m ²
	Flame retardant details		See Note 1 Below	
	Primary backing	Product reference		"SM/TM"
		Generic type		Spunbond nylon
		Name of manufacturer		Bonar
Thickness		0.2mm		
Weight per unit area		120g/m ²		
Flame retardant details		See Note 1 Below		

Continued on next page

Carpet tile cont...	Hot-melt lamination adhesive	Product reference	"Bitumix"
		Generic type	Composite of polymer modified bitumen (PMB) cariphate + limestone
		Name of manufacturer	Total/Longcliffe
		Thickness	2.0mm
		Weight per unit area	2500g/m ²
		Flame retardant details	See Note 1 Below
	Secondary backing	Product reference	"Secondary backing"
		Generic type	Polyester
		Name of manufacturer	Johns Manville
		Thickness	0.2mm
		Weight per unit area	95g/m ²
		Flame retardant details	See Note 1 Below
	Adhesive	Generic type	Acrylic based adhesive
		Product reference	"Balls F46"
Name of manufacturer		F Ball & Co. Ltd.	
Application rate		180g/m ²	
Application method		'V' notched trowel	
Flame retardant details		See Note 1 Below	
Substrate	Trade name	"NT D4 604"	
	Generic type	Fibre cement board	
	Supplier	Scheerders van de Kerkhove (SVK)	
	Thickness	8mm	
	Density	1800 ± 200 kg/m ³	
Brief description of manufacturing process		Tufting, latexing, laminating, cutting	

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test report Nos.	Test method
Exova Warringtonfire	Forbo Flooring UK Limited	WFR 337942	EN ISO 9239-1
Exova Warringtonfire	Forbo Flooring UK Limited	WFR 337947	EN ISO 11925-2

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 9239-1	Critical Heat Flux (kW/m ²)	3	8.8 kW/m ²	Compliant
	Smoke (% x min)		177.03 %	Compliant
EN ISO 11925-2 15 s surface exposure	Flame spread (mm)	6	30mm	Compliant
EN ISO 11925-2 15 s edge exposure	Flame spread (mm)		41.7mm	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 12 of EN 13501-1:2007+A1:2009

4.2 Classification

The product, "INLINE", a tufted bitumen backed carpet tile, in relation to its reaction to fire behaviour is classified:

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
- ii) Bonded to any substrate of class A2_{fl} or better, with a thickness of 8mm or higher and a density of 1800kg/m³ or higher utilising "Styccobond F46", an acrylic based adhesive

This classification is also valid for the following product parameters:

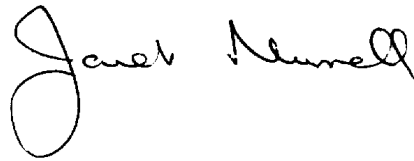
Product thickness	No variation allowed
Product mass per unit area	No variation allowed
Product composition	No variation allowed
Colour and design	Any colour and design, unless different colour and design change the composition, thickness or mass per unit area

SIGNED



.....
Matthew Dale
Certification Engineer

APPROVED



.....
Janet Murrell
Technical Manager
on behalf of **Exova Warringtonfire**

This copy has been produced from a .pdf format electronic file that has been provided by Exova Warringtonfire to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of Exova Warringtonfire. The pdf copy supplied is the sole authentic version of this document. All pdf versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.