

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:

"DT8/0.7/WL/PU"

Report No:

WF 338880

Issue No:

1

Prepared for:

R-Tek Manufacturing Limited
Unit 1 Hamiltonsbawn Road
Industrial Estate
Hamiltonsbawn Road
Armagh
Co. Antrim
BT60 1HW

Date:

22nd October 2014



0249

1. Introduction

This classification report defines the classification assigned to “DT8/0.7/WL/PU”, an interlocking floor tile, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, “DT8/0.7/WL/PU”, an interlocking floor tile, is defined as being suitable for floorcovering applications.

2.2 Product description

The product, “DT8/0.7/WL/PU”, an interlocking floor tile, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Interlocking floor tile tested loose laid over a fibre cement board substrate	
Product reference		“DT8/0.7/WL/PU”	
Name of manufacturer		R-Tek Manufacturing Ltd.	
Overall thickness		7.75mm (stated by sponsor)	
Overall weight per unit area		9.64kg/m ² (stated by sponsor)	
Colour reference		Any colour / pattern	
Vinyl Insert	Product reference	“mFlor 2.5/0.7 WL/PU”	
	Product configuration	PU coating / Wear layer / Print layer/ PVC backing	
	Name of manufacturer	En-Design	
	Weight per unit area	0.5kg/m ²	
	Density	1.46g/cm ³	
	PU coating	Product reference	“LVT PU”
		Generic type	Polyurethane (PU) emboss matt
		Name of manufacturer	Jinka
		Weight per unit area	0.0004kg/m ²
		Number of layers	One
		Thickness of each layer	2mm
		Method of application	Spray
		Colour	“Clear”
	Flame retardant details	See Note 1 below	
	Wear layer	Generic type	Polyvinyl chloride (PVC)
Product reference		“DT WL”	
Name of manufacturer		Jinka	
Weight per unit area		0.07kg/m ²	
Density		1.2g/cm ³	
Thickness		0.7mm	
Flame retardant details	See Note 1 below		

Continued on next page

Vinyl insert continued....	Print layer	Generic type	LVT hot press print film	
		Product reference	"DT 7D"	
		Name of manufacturer	Jinka	
		Weight per unit area	0.005kg/m ²	
		Density	1.1g/cm ³	
		Thickness	0.2mm	
		Flame retardant details	See Note 1 below	
	PVC backing	Generic type	Polyvinyl chloride (PVC)	
		Product reference	"Design Tile Base"	
		Name of manufacturer	R-Tek Manufacturing Ltd.	
		Weight per unit area	6kg/m ²	
		Density	1.45g/cm ³	
		Thickness	5mm	
		Flame retardant details	See Note 1 below	
Adhesive	Trade name	"7005.1"		
	Generic type	Hot melt PUR		
	Name of manufacturer	Kliebert Adhesives		
	Application rate	100g/m ²		
	Application method	Roller coater		
	Flame retardant details	See Note 1 below		
PVC substrate	Trade name	"Moulded Design Tile Tray"		
	Generic description	7.75mm hidden join interlocking tray		
	Supplier	R-Tek Manufacturing Ltd.		
	Overall thickness	5.5mm		
	Overall density	1.45g/cm ²		
	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	1900 ± 200kg/m ³		
Brief description of manufacturing process		Injection moulded		

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 reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	R-Tek Manufacturing Limited	WF 338734	EN ISO 11925-2
Exova warringtonfire	R-Tek Manufacturing Limited	WF 338735	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	9.3	Compliant
	Smoke		235.40	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	6	33.3	Compliant
			Flaming droplets/ particles	None
	(15s exposure – edge of decorative face)	6	41.7	Compliant
			Flaming droplets/ particles	None

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, "DT8/0.7/WL/PU", an interlocking floor 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) 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

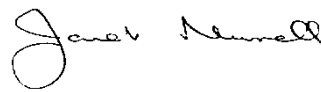


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Matthew Dale

Certification Engineer
Technical Department

APPROVED



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Janet Murrell

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

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