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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:

"Type II"

Report No:

WF 334520

Issue No:

1

Prepared for:

Newmor,
Madoc Works
Henfaes Lane
Welshpool
Montgomeryshire
SY21 7BE

Date:

25th October 2013



0249

1. Introduction

This classification report defines the classification assigned to "Type II", a PVC film faced wallcovering, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "Type II", a PVC film faced wallcovering, is defined as a decorative wallcovering following EN 15102 suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Type II", a PVC film faced wallcovering, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description	Polyvinyl chloride (PVC) film faced wall covering bonded to the primed ("ET Primaseal Primer") face of an 8mm thick fibre cement board substrate utilising "Dixon Turner Standard" adhesive
Product reference of overall composite	"Type II"
Name of manufacturer of overall composite	Len-Tex Corporation
Thickness of wallpaper	0.018" (0.45mm) (stated by sponsor) 0.32mm (determined by Exova Warringtonfire)
Weight per unit area of wallpaper	20 oz per lineal yard at 54" width (450.9g/m ²) (stated by sponsor) 459g/m ² (determined by Exova Warringtonfire)
Thickness of overall composite	8.39mm (determined by Exova Warringtonfire)
Weight per unit area of overall composite	15.98kg/m ² (determined by Exova Warringtonfire)

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Wallcovering	PVC film	Generic type	Polyvinyl chloride film
		Product reference	"Vinyl"
		Detailed description / composition details	Plasticized vinyl film with biocide
		Name of manufacturer	Mississippi Polymers Inc.
		Thickness	0.0095" (0.24mm)
		Density / weight per unit area	16 oz per lineal yard at 54" (362.8g/m ²)
		Flame retardant details	See Note 1 below
	Adhesive	Generic type	Laminating adhesive
		Product reference	"Plastisol"
		Detailed description / composition details	PVC resin in plasticizer
		Name of manufacturer	Indusol Inc.
		Thickness	0.005" (0.13mm)
		Density / weight per unit area	1 oz per lineal yard at 54" (22.4g/m ²)
		Flame retardant details	See Note 1 below
	Nonwoven backing	Generic type	Nonwoven backing
		Product reference	"Backing"
		Detailed description / composition details	Polyester/cellulose wetlaid nonwoven
		Name of manufacturer	Ahlstrom Corporation
		Thickness	0.005" (0.13mm)
		Density / weight per unit area	2.18 oz per lineal yard at 54" (49.2g/m ²)
		Flame retardant details	See Note 1 below
	Adhesive	Generic type	Polyvinyl acetate (PVA) / starch / water
		Product reference	"Dixon Turner Heavy"
		Name of manufacturer	See Note 2 below
		Application rate	200g/m ²
		Application method	Lambswool roller
		Flame retardant details	See Note 1 below
	Primer	Curing process	Air dry
Generic type		Polyvinyl acetate (PVA) / starch / water	
Product reference		"ET Primaseal"	
Name of manufacturer		See Note 2 below	
Number of coats		One	
Application rate		85g/m ²	
Application method		Lambswool roller	
Curing process per coat	Air dry		
Flame retardant details	See Note 1 below		

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Substrate	Generic type	Fibre cement board
	Product reference	"NT D4 604"
	Name of manufacturer	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800kg/m ³
	Colour reference	"Grey"
	Flame retardant details	The substrate is inherently flame retardant
Brief description of manufacturing process		Printing, laminating/emboss

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

Note 2 - The sponsor was unwilling to provide this information.

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports Nos.	Test method
Exova warringtonfire	Newmor	WF 328561	EN 13823
Exova warringtonfire	Newmor	WF 328562	EN ISO 11925-2

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F _s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge)	F _s	6	7	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA _{0.2MJ}	3	7.72	Compliant
	FIGRA _{0.4MJ}		7.72	Compliant
	THR _{600s}		1.35	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP _{600s}		55.41	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1:2009 and EN 15101.

4.2 Classification

The product, "Type II", a PVC film faced wallcovering, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: B-s2, d0



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4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall and ceiling applications.
- ii) Used over any substrate of class A2 or better, with a density of 1800 kg/m³ or higher.
- iii) Product installed utilising "Dixon Turner Heavy", a PVA based adhesive at an application rate of 200g/m² and substrate primed utilising "ET Primaseal", a PVA based primer at an application rate of 85g/m².

This classification is also valid for the following product parameters:

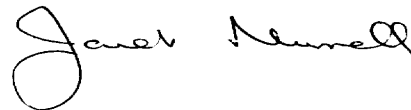
Product thickness	No variation allowed
Product composition	No variation allowed
Colour/pattern	Any colour/pattern

SIGNED



.....
Matthew Dale
Certification Engineer

APPROVED



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

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