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Title:

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1: 2018

Approved Body No:

0833

Product Name:

"Premier Vinyl Wallcovering"

Report No:

507190

Issue No:

2

Prepared for:

Newmor
Henfaes Lane
Welshpool
SY21 7BE

Date:

19th August 2021

1. Introduction

This classification report defines the classification assigned to "Premier Vinyl Wallcovering", a heavy-duty wallcovering, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The product, "Premier Vinyl Wallcovering", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Premier Vinyl Wallcovering", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Generic type			Heavy duty wallcovering which was tested bonded to a fibre cement board substrate
Product reference			"Premier Vinyl Wallcovering"
Name of manufacturer			Newmor
Overall weight per unit area of composite (including substrate)			16.41kg/m^2 (determined by Warringtonfire)
Overall thickness of composite (including substrate)			9.24mm (determined by Warringtonfire)
Wallcovering	Weight per unit area of wallcovering		800g/m^2 (stated by sponsor)
	Thickness of wallcovering		0.80mm (stated by sponsor)
	Composition details		740g/m^2 PVC coated onto a 60g/m^2 woven polyester/cotton (65%/35%)
	Colour reference		"001"
	Pattern reference		"FL"
	Coating	Product reference	**See Note 1 below**
		Generic type	Polyvinyl Chloride (PVC)
		Name of manufacturer	Newmor
		Application rate	740g/m^2
		Application method	Laminating
		Curing process	Hot air oven at a temperature of 220°C for 30 seconds
		Flame retardant details	**See Note 2 below**
	Backing	Product reference	**See Note 1 below**
		Generic type	Woven cotton fabric
		Name of manufacturer	**See Note 1 below**
		Thickness	0.25mm
		Pattern reference	"FL"
		Type of weave	Plain weave
		Thread count or threads per inch (TPI)	30 x 28
		Yarn count	24's PC/24's PC
		Weight per unit area	60 g/m^2
		Flame retardant details	**See Note 2 below**

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Brief description of manufacturing process		PVC lamination and embossing
Mounting and fixing		EN 13238:2010 compliant substrate primed utilizing "ET Primaseal" and product bonded using "Dixon Turner Heavy" adhesive as described below
Adhesive	Product reference	"Dixon Turner Heavy"
	Generic type	PVA/starch/water
	Name of manufacturer	**See Note 1 below**
	Application rate	200g/m^2
	Application method	Lambswool roller
	Flame retardant details	**See Note 2 below**
Primer	Product reference	"ET Primaseal"
	Generic type	PVA/starch/water
	Name of manufacturer	**See Note 1 below**
	Application rate	85g/m²
	Application method	Lambswool roller
	Flame retardant details	**See Note 2 below**
Substrate	Product reference	"NT D4 604"
	Generic type	Fibre cement board
	Name of manufacturer	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800kg/m³

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

Note 2: 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
Warringtonfire	**Newmor**	504127	EN ISO 11925-2: 2020
Warringtonfire	**Newmor**	548863	EN 13823: 2020 +A1: 2022

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
ISO 11925-2: 2020 (30s exposure - surface)	F_s	6	-	Compliant (≤60 mm)
	Flaming droplets/ particles		-	Compliant
ISO 11925-2: 2020 (30s exposure – edge)	F_s	6	-	Compliant (≤40 mm)
	Flaming droplets/ particles		-	Compliant
EN 13823: 2020 +A1: 2022	FIGRA $_{0.2MJ}$	3	67 W/s	-
	FIGRA $_{0.4MJ}$		10 W/s	-
	THR $_{600s}$		1.3 MJ	-
	LFS		-	Compliant
	SMOGRA		41 m^2s^2	-
	TSP_{600s}		86 m^2	
	Fall of Flaming Droplet/Particle?		-	Compliant
	Flaming of Fallen Particle Exceeding 10s?		-	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: 2018 and EN 15102: 2007+A1: 2011.

4.2 Classification

The product, "Premier Vinyl Wallcovering", a heavy-duty wallcovering, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	**-**	**s**	**2**	**,**	**d**	**0**

i.e. B – s2 , d0

Reaction to fire classification: B – s2, d0

4.3 Field of application

This classification is valid for the following end use applications:

i) Construction applications used over any substrate with a density equal to or greater than 1350kg/m^3, having a minimum thickness of 6mm and a fire performance of A2-s1, d0 or better (excluding paper faced gypsum plasterboard).

ii) Product installed utilising "Dixon Turner Heavy", a PVA/starch-based wall covering adhesive, at an application rate of 200g/m². Wall primed utilising ET Primaseal, a PVA/starch-based wall primer at an application rate of 85g/m².

This classification is also valid for the following product parameters:

Overall product thickness	0.80mm (No variation allowed)
Overall product weight per unit area	800g/m² (No variation allowed)
Colour reference	"007" (No variation allowed)
Coating application rate	740g/m² (No variation allowed)
Coating colour	White (No variation allowed)
Backing thickness	0.25mm (No variation allowed)
Backing weight per unit area	60g/m² (No variation allowed)
Product composition	No variation allowed
Product construction	No variation allowed
Flame retardant details	No variation allowed

5. Limitations

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

SIGNED

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Matthew Dale
Principal Certification Engineer
Technical Department

APPROVED

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Stacey Deeming
Principal Engineer
Technical Department
on behalf of **warringtonfire**

Issue No: 2	Re-issue Date: 29/09/2025
Revised By: L. Berry	Authorised By: S. Deeming
Reason for Revision: This document replaces Issue 1 (dated 19th August 2021) of the same number which has been withdrawn. Report amended to reflect new supporting EN 13823 test evidence following the re-testing of a product sample. The test evidence from the original product test was found to have been affected by a calibration issue, which required a sample of the product to be re-tested.	