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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:

"Non Woven Wallcovering", a family of printed Non Woven wallcoverings, having a backing weight of between 130-160g/m²

Report No:

194679

Issue No:

1

Prepared for:

The Surface Print Company
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Date:

20th August 2010

1. Introduction

This classification report defines the classification assigned to "Non Woven Wallcovering", a family of printed Non Woven wallcoverings, having a backing weight of between 130-160g/m², in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product family, "Non Woven Wallcovering", a family of printed Non Woven wallcoverings, having a backing weight of between 130-160g/m², are defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product family, "Non Woven Wallcovering", a family of printed Non Woven wallcoverings, having a backing weight of between 130-160g/m², are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A printed non-woven wallcovering bonded to a primed face of a 12.5mm thick plasterboard substrate, utilising "Murabond Standard" adhesive	
Trade name / product reference of wallcovering		Non Woven Wallcovering	
Overall wallcovering thickness		0.29mm (determined by Exova Warringtonfire)	
Overall wallcovering weight per unit area		160-190g/m ² (stated by Sponsor)	
Pattern reference of wallcovering		Any pattern	
Colour reference of wallcovering		Any colour	
Wallcovering	Print	Trade name / product reference	"Diamond Ink System"
		Generic type	Waterbased acrylic
		Name of manufacturer	Steyports Inks
		Application rate	2g/m ²
		Application method	Surface / Flexographic printing
		Curing process (duration and temperature)	Steam heated at a temperature of 150 ⁰ C for a period of 25 seconds / Gas heated at a temperature of 165 ⁰ C for a period of 2 seconds
		Flame retardant details	See Note 2

Continued on next page

Wallcovering cont...	Coating	Trade name / product reference	"XXC 234 Matt Medium"
		Generic type	Waterbased acrylic
		Name of manufacturer	Cavendish Inks
		Application rate	8g/m ²
		Application method	Flexographic printing
		Curing process (duration and temperature)	Gas heated at a temperature of 165 ⁰ C for a period of 2 seconds
		Flame retardant details	See Note 2
	Grounding	Trade name / product reference	"3064/2 Coral Ground Coat"
		Generic type	Waterbased acylic
		Name of manufacturer	Steyport Inks
		Application Rate	20g/m ²
		Application method	Air knife coated
		Curing process (duration and temperature)	Gas heated at a temperature of 150 ⁰ C for a period of 15 seconds
	Backing	Flame retardant details	See Note 2
		Trade name / product reference	"8802 / 8810 Grade Smooth Coated"
		Generic type	Non woven
		Name of manufacturer	Ahlstrom
		Thickness	173-282 microns
	Adhesive	Weight per unit area	130-160g/m ²
		Flame retardant details	See Note 2
		Trade name / product reference	"Murabond Standard"
Generic type		Polyvinyl acetate (PVA)	
Name of manufacturer		Halls Beeline	
Application rate		6-8 m ² /kg	
Substrate	Application method	Brush applied	
	Flame retardant details	See Note 2	
	Product reference	"Gyproc Soundbloc"	
	Generic type	Paper faced plasterboard	
	Name of manufacturer	British Gypsum	
Brief description of manufacturing process	Thickness	12.5mm	
	Density	840kg/m ³	
Brief description of manufacturing process		See Note 3	

Note 1 – The sponsor was unable to provide this information.

Note 2 – The sponsor of the test has confirmed that no flame retardant additives were utilised in the manufacture of the product/component.

Note 3 – The sponsor was unwilling to provide this information.

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	Reports	Test method / rules
Exova warringtonfire	The Surface Print Company	WF 194669 (Issue 2)	EN ISO 11925-2
Exova warringtonfire	The Surface Print Company	WF 192423 (Issue 2), 192424, 192425, 193718 (Issue 2)	EN 13823
Exova warringtonfire	The Surface Print Company	WF 194678	EN 13501

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
	30s exposure - edge	F _s	6	5mm	Compliant
		Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA _{0.2MJ}	Formal test 1 average		105.54	Compliant
		Indicative 1		58.62	
		Indicative 2		61.71	
		Formal test 2 average		87.72	
	FIGRA _{0.4MJ}	Formal test 1 average		76.56	Compliant
		Indicative 1		22.36	
		Indicative 2		29.27	
		Formal test 2 average		62.82	
	THR _{600s}	Formal test 1 average		2.09	Compliant
		Indicative 1		1.05	
		Indicative 2		1.28	
		Formal test 2 average		2.15	
	LFS	Formal test 1 average		None	Compliant
		Indicative 1		None	
		Indicative 2		None	
		Formal test 2 average		None	
	SMOGRA	Formal test 1 average		0.86	Compliant
		Indicative 1		0.00	
		Indicative 2		0.00	
		Formal test 2 average		0.00	
	TSP _{600s}	Formal test 1 average		42.03	Compliant
		Indicative 1		41.41	
		Indicative 2		41.98	
		Formal test 2 average		35.23	

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.

4.2 Classification

The product family, "Non Woven Wallcovering", a family of printed Non Woven wallcoverings, having a backing weight of between 130-160g/m², in relation to their reaction to fire behaviour are classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

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

Fire Behaviour		Smoke Production			Flaming Droplets	
B	-	s	1	,	d	0

i.e. **B – s1 , d0**

Reaction to fire classification: B – s1, 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 870kg/m³, having a minimum thickness of 6 mm and a fire performance of A2 or better.
- ii) Product installed utilising "Murabond Standard", a PVA based wall covering adhesive, at an application rate of 6-8m²/litre.

This classification is also valid for the following product parameters:

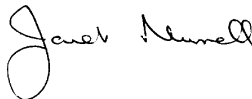
Product thickness	No variation allowed
Total weight per unit area	160g/m ² to 190g/m ²
Backing weight per unit area	130g/m ² to 160g/m ²
Backing thickness	173 to 282 microns
Product colour/pattern	Any variation allowed
Printing method	Surface / flexographic
Curing method	Gas / steam heated
Product composition	No variation allowed
Product construction	No variation allowed

5. Limitations

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

SIGNED

APPROVED



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Matthew Dale
Certification Engineer
Technical Department

.....
Janet Murrell
Technical Manager
Technical Department
on behalf of **Exova warringtonfire**

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