

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:

"Flock Wallcovering", a family
of non woven flock
wallcoverings, having a
backing weight of 140g/m²

Report No:

194683

Issue No:

1

Prepared for:

The Surface Print Company
Broadley Mill
Hill Street
Clayton Le Moors
Lancashire
BB5 5EA

Date:

4th October 2010

1. Introduction

This classification report defines the classification assigned to "Flock Wallcovering", a family of Non Woven Flock wallcoverings, having a backing weight of 140g/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, "Flock Wallcovering", a family of Non Woven Flock wallcoverings, having a backing weight of 140g/m², are defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product family "Flock Wallcovering", a family of Non Woven Flock wallcoverings, having a backing weight of 140g/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 an 8mm thick fibre cement board substrate, utilising "Murabond Standard" adhesive
Trade name / product reference of wallcovering	"Flock Wallcovering"
Overall wallcovering thickness	0.30-1.30mm (un-flocked / flocked area) - (determined by Exova Warringtonfire)
Overall wallcovering weight per unit area	206g/m ² to 212g/m ² (stated by Sponsor) 206g/m ² to 208g/m ² (determined by Exova Warringtonfire)
Pattern reference of wallcovering	Any pattern
Colour reference of wallcovering	Any colour

Continued on next page

Wallcovering	Flock	Trade name / product reference	"Polyamide 66"
		Generic type	Nylon flock (1mm 3.3 Dtex semi dull)
		Name of manufacturer	Casati
		Application method	Electrostatic
		Weight per Unit Area	18g/m ² to 22g/m ²
		Curing process	Gas heated at 160°C for a period of 150 seconds
		Flame retardant details	See note 2
	Adhesive used with flock	Trade name / product reference	"Magnaprint Flock Binder SPC"
		Generic type	Water based synthetic polymer emulsion
		Name of manufacturer	Magna Colours Ltd
		Application rate	13g/m ² to 15g/m ²
		Application method	Surface
		Flame retardant details	See note 2
	Coating	Trade name / product reference	"XXC 234 Matt Medium"
		Generic type	Water based acrylic
		Name of manufacturer	Cavendish Inks
		Application rate	8g/m ²
		Application method	Flexographic printing
		Curing process (duration and temperature)	Gas heated at 165°C for a period of 2 seconds
	Flame retardant details	See note 2	
	Grounding	Trade name / product reference	"3795 Aquamarine Mica"
		Generic type	Waterbased acrylic
		Name of manufacturer	Steyport Inks
		Application rate	20g/m ²
Application method		Air knife coated	
Curing process (duration and temperature)		Gas heated at 150°C for a period of 15 seconds	
Flame retardant details	See note 2		
Backing	Trade name / product reference	"8001 Grade Fibrous"	
	Generic type	Non woven	
	Name of manufacturer	Ahlstrom	
	Thickness	263 microns	
	Weight per unit area	147g/m ²	
Flame retardant details	See Note 2		

Continued on next page

Adhesive	Trade name / product reference	"Murabond Standard"
	Generic type	Polyvinyl acetate (PVA)
	Name of manufacturer	Halls Beeline
	Application rate	6-8 m ² /kg
	Application method	Brush applied
	Flame retardant details	See Note 2
Substrate	Product reference	"NT D4 604"
	Generic type	Fibre cement board
	Name of manufacturer	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800kg/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 of the test 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 197098	EN ISO 11925-2
Exova warringtonfire	The Surface Print Company	WF 195509, 195510	EN 13823
Exova warringtonfire	The Surface Print Company	WF 194679	EN 13501
Exova warringtonfire	The Surface Print Company	WF 194678, 193682	EN/TS 15117

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	Nil	Compliant
		Flaming droplets/ particles		None	Compliant
EN 13823		FIGRA _{0.2MJ}	Indicative test	8.89	Compliant
			Formal test	11.76	
		FIGRA _{0.4MJ}	Indicative test	8.89	Compliant
			Formal test	9.85	
		THR _{600s}	Indicative test	1.43	Compliant
			Formal test	1.51	
		LFS	Indicative test	None	Compliant
			Formal test	None	
		SMOGRA	Indicative test	2.06	Compliant
			Formal test	1.13	
		TSP _{600s}	Indicative test	44.07	Compliant
			Formal test	39.08	

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, "Flock Wallcovering", a family of Non Woven Flock wallcoverings, having a backing weight of 140g/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 1800kg/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/kg.

This classification is also valid for the following product parameters:

Product thickness	- No variation allowed
Total weight per unit area	- 206g/m ² to 212g/m ²
Flock application rate / weight per unit area	- 18g/m ² to 22g/m ²
Adhesive (used in application of beads) weight per unit area	- 13g/m ² to 15g/m ²
Backing weight per unit area	- No variation allowed
Backing thickness	- No variation allowed
Product colour/pattern	- Any variation allowed
Product composition	- No variation allowed
Product construction	- No variation allowed

5. Limitations

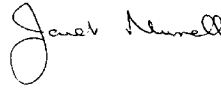
This document does not represent type approval or certification of the product.

SIGNED



.....
Matthew Dale
Certification Engineer
Technical Department

APPROVED



.....
Janet Murrell
Technical Manager
Technical Department
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 original signed paper version of this report is the sole authentic version. Only original paper versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.