

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:

"Foil Wallcovering", a family of
non woven backed, foil faced
wallcoverings, having a
backing weight of between
144g/m² and 196g/m²

Report No:

194691

Issue No:

1

Prepared for:

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

Date:

13th October 2010

1. Introduction

This classification report defines the classification assigned "Foil Wallcovering", a family of non woven backed, foil faced wallcoverings, having a backing weight of between 144g/m² and 196g/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, "Foil Wallcovering", a family of non woven backed, foil faced wallcoverings, having a backing weight of between 144g/m² and 196g/m², are defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product family "Foil Wallcovering", a family of non woven backed, foil faced wallcoverings, having a backing weight of between 144g/m² and 196g/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 (FOIL) bonded to the primed face of a 8mm thick fibre cement board substrate, utilising "Murabond Standard" adhesive
Trade name / product reference of wallcovering	"Foil Wallcovering"
Overall wallcovering thickness	0.17 mm to 0.258mm (stated by Sponsor) 0.17mm to 0.26mm (determined by Exova Warringtonfire)
Overall wallcovering weight per unit area	144g/m ² to 196g/m ² (stated by Sponsor) 145g/m ² to 207g/m ² (determined by Exova Warringtonfire)
Pattern reference of wallcovering	Any pattern
Colour reference of wallcovering	Any colour

Continued on next page

Wallcovering	Print	Trade name / product reference	"Diamond Ink System"
		Generic type	Waterbased acrylic
		Name of manufacturer	Steyports Inks
		Application rate	0 to 2g/m ²
		Application method	Flexographic printing
		Curing process (duration and temperature)	Gas Heated at 165 ⁰ C for a period of 2 seconds
		Flame retardant details	See note 1
	Aluminium	Trade name / product reference	"Metpol"
		Generic type	Aluminium metalised polyester film
		Name of manufacturer	API Laminates
		Thickness	8 microns
		Weight per unit area	14 g/m ²
	Flame retardant details	See note 1	
	Backing	Trade name / product reference	"8941 Grade Smooth Coated"
		Generic type	Non woven
		Name of manufacturer	Ahlstrom
		Thickness	170 to 250 microns
		Weight per unit area	130 to 180 g/m ²
	Flame retardant details	See note 1	
	Primer	Trade name / product reference	"Alkali Resisting Primer"
		Generic type	Solvent based
Name of manufacturer		Johnstones	
Application rate		See note 2	
Application method		Brush	
Flame retardant details		See note 2	
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 1		
Substrate	Product reference	"NT D4 604"	
	Generic type	Fibre cement board	
	Name of manufacturer	Scheeders van de Kerkhove (SVK)	
	Thickness	8mm	
	Density	1800kg/m ³	
Brief description of manufacturing process		See note 3	

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

Note 2 – The sponsor of the test was unable to provide this information.

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 197573	EN ISO 11925-2
Exova warringtonfire	The Surface Print Company	WF 195500, 195501, 195502, 195503	EN 13823
Exova warringtonfire	The Surface Print Company	WF 194679	EN 13501
Exova warringtonfire	The Surface Print Company	WF 194678, 194690	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 1	6.15	Compliant	
			Indicative Test 2	6.66		
			Indicative Test 3	4.35		
			Formal Test	6.99		
	FIGRA _{0.4MJ}			Indicative Test 1	6.15	Compliant
				Indicative Test 2	6.66	
				Indicative Test 3	4.35	
				Formal Test	6.99	
	THR _{600s}			Indicative Test 1	1.10	Compliant
				Indicative Test 2	1.10	
				Indicative Test 3	0.64	
				Formal Test	1.19	
	LFS			Indicative Test 1	None	Compliant
				Indicative Test 2	None	
				Indicative Test 3	None	
				Formal Test	None	
	SMOGRA			Indicative Test 1	0.00	Compliant
				Indicative Test 2	1.15	
				Indicative Test 3	1.52	
				Formal Test	0.83	
	TSP _{600s}			Indicative Test 1	35.71	Compliant
				Indicative Test 2	39.42	
				Indicative Test 3	40.40	
				Formal Test	37.69	

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, "Foil Wallcovering", a family of non woven backed, foil faced wallcoverings, having a backing weight of between 144g/m² and 196g/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 1600kg/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:

Wallcovering thickness	0.17mm to 0.258mm (stated by Sponsor)
Wallcovering total weight per unit area	144g/m ² to 196g/m ² (stated by Sponsor)
Print application rate	0g/m ² (least print) to 2g/m ² (most print)
Backing weight per unit area	130g/m ² to 180g/m ²
Backing thickness	170 microns to 250 microns
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.

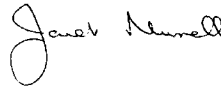
SIGNED



.....
Matthew Dale

Certification Engineer
Technical Department

APPROVED



.....
Janet Murrell

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

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