

classification report

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2007

Notified Body No:

0833

Product Name:

Linden

Report No:

168188

Issue No:

1

Prepared for:

Newmor, Madoc Works,
Henfaes Lane, Welshpool,
Montgomeryshire, SY21 7BE

Date:

14th November 2007

1. Introduction

This classification report defines the classification assigned to 'Linden', a fabric backed vinyl wall covering, in line with the procedures given in EN 13501-1:2007

2. Details of classified product

2.1 General

The product, 'Linden', a fabric backed vinyl wall covering, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, 'Linden', a fabric backed vinyl wall covering, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A fabric backed vinyl wall covering bonded to a fibre cement board substrate
Product reference of wall covering		"Linden"
Name of manufacturer		Newmor
Overall wall covering thickness		0.5mm (stated by sponsor) 0.43mm (determined by Bodycote warringtonfire)
Overall wall covering weight per unit area		400g/m ² (stated by sponsor) 440/m ² (determined by Bodycote warringtonfire)
Batch reference of wall covering		"06/1335"
Colour reference of wall covering		"BMF1551"
Coating	Product reference	"F91/92"
	Generic type	Polyvinyl Chloride (PVC) plastisol
	Name of manufacturer	Newmor
	Application rate	360g/m ²
	Application method	Polyvinyl Chloride (PVC) casting
	Curing process	Hot air dried at a temperature of 195°C for a period of 20 seconds and subsequent embossing (after printing) is carried out at a temperature of 215°C for a period of 20 seconds.
	Flame retardant details	See Note 1 Below
Backing	Product reference	See Note 2 Below
	Generic type	Woven cotton scrim
	Name of manufacturer	See Note 2 Below
	Thickness	0.16mm nominal
	Weight per unit area	40gsm nominal
	Flame retardant details	See Note 1 Below

Adhesive	Product reference	"Dixon Turner Heavy"
	Generic type	Polyvinyl acetate (PVA)/starch/water based adhesive
	Name of manufacturer	See Note 2 Below
	Application rate	200g/m ²
	Application method	Lambswool roller
	Flame retardant details	See Note 1 Below
Primer	Product reference	"Dixon Turner primer"
	Generic type	Polyvinyl acetate (PVA)/starch/water based adhesive
	Name of manufacturer	See Note 2 Below
	Application rate	85g/m ² nominal wet
	Application method	Lambswool roller
	Flame retardant details	See Note 1 Below
Substrate	Trade name	"NT D4 604"
	Generic type	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m ³
Brief description of manufacturing process		Vinyl coating, printing and embossing

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 has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are held on the confidential file relating to this investigation.

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	Test reports/extended application report Nos.	Test method / extended application rules & date
Bodycote warringtonfire	Newmor	WF 167274	EN ISO 11925-2
Bodycote warringtonfire	Newmor	WF 167044	EN 13823

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	7	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure – edge)	F _s	6	43	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA _{0.2MJ}	3	29.41	Compliant
	THR _{600s}		2.00	Compliant
	LFS		N	Compliant
	SMOGRA		10.64	Compliant
	TSP _{600s}		95.23	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

4.2 Classification

The product, 'Linden', a fabric backed vinyl wall covering, 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 products excluding floorings 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) Wall or Ceiling Applications used over any substrate with a density equal to or greater than 1800Kg/m³, having a minimum thickness of 6mm and a fire performance of A2_{FL} or better.
- ii) Substrate prepared utilising 'Dixon Turner Primer', at an application rate of 85g/m².
- iii) Product installed utilising 'Dixon Turner Heavy' adhesive, at an application rate of 200g/m².

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

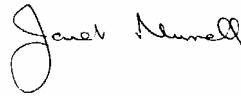
SIGNED



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APPROVED



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on behalf of:

Bodycote warringtonfire

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