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**Title:**

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

**Notified Body No:**

0833

**Product Name:**

Premier Oriel

**Report No:**

188122

**Issue No:**

1

**Prepared for:**

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

**Date:**

26<sup>th</sup> November 2009

## 1. Introduction

This classification report defines the classification assigned to 'Premier Oriel', a printed non woven vinyl wallcovering, in line with the procedures given in EN 13501-1:2007

## 2. Details of classified product

### 2.1 General

The product, 'Premier Oriel', a printed non woven vinyl wallcovering, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

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

General description		A printed wall covering bonded to a fibre cement board substrate.	
Product reference of wall covering		"Premier Fabric-Backed Wallcovering"	
Name of manufacturer		Newmor	
Overall wall covering thickness		0.4mm (Stated by sponsor) 0.4mm (Determined by Exova warringtonfire)	
Overall wall covering weight per unit area		400g/m <sup>2</sup> (Stated by sponsor) 400g/m <sup>2</sup> (Determined by Exova warringtonfire)	
Batch reference of wall covering		"040909"	
Range reference of wall covering		"Premier Oriel"	
Colour reference of wall covering		"DEL 225"	
Wallcovering	Coating	Product reference	See Note 1
		Generic type	Polyvinyl chloride plastisol
		Name of manufacturer	Newmor
		Application rate	340g/m <sup>2</sup>
		Application method	Reverse roll coating
		Curing process	Hot air oven at a temperature of 220°C for 30 seconds
		Flame retardant details	See Note 2
	Backing	Product reference	See Note 3
		Generic type	Polyester cellulose nonwoven
		Name of manufacturer	See Note 3
		Thickness	0.18mm
		Weight per unit area	60g/m <sup>2</sup>
	Adhesive	Product reference	"Dixon Turner Heavy"
		Generic type	PVA/starch/water
Name of manufacturer		See Note 1	
Application rate		200g/m <sup>2</sup>	
Application method		Lambswool roller	
Flame retardant details		See Note 2	
Primer	Product reference	"ET Primaseal"	
	Generic type	PVA/starch/water	
	Name of manufacturer	See Note 1	
	Application rate	85g/m <sup>2</sup>	

	Application method	Lambswool roller
	Flame retardant details	See Note 2
Substrate	Trade name	"NT D4 604"
	Generic type	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m <sup>3</sup>
Brief description of manufacturing process		Vinyl coating, printing and embossing

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 product / component.

Note 3: The sponsor was unable 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	Test reports/extended application report Nos.	Test method / extended application rules & date
Bodycote warringtonfire	Newmor	WF 187711	EN ISO 11925-2
Bodycote warringtonfire	Newmor	WF 186643	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 <sub>s</sub>	6	0	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure – edge)	F <sub>s</sub>	6	30	Compliant
	Flaming droplets/ particles		None	Compliant

EN 13823	FIGRA <sub>0.2MJ</sub>	3	8.79	Compliant
	FIGRA <sub>0.4MJ</sub>		8.79	Compliant
	THR <sub>600s</sub>		1.68	Compliant
	LFS		N	Compliant
	SMOGRA		1.38	Compliant
	TSP <sub>600s</sub>		80.22	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, 'Premier Oriel', a printed non woven vinyl 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 products excluding floorings is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	<b>-</b>	<b>s</b>	<b>2</b>	<b>,</b>	<b>d</b>	<b>0</b>

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 1800Kg/m<sup>3</sup>, having a minimum thickness of 6mm and a fire performance of A2 or better. (Excluding paper faced plaster board)
- ii) Substrate prepared utilising 'ET Primaseal', a PVA/starch/water based primer, at an application rate of 85g/m<sup>2</sup>.
- iii) Product installed utilising 'Dixon Turner Heavy' a PVA/starch/water based adhesive, at an application rate of 200g/m<sup>2</sup>.

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 colour/pattern	No variation allowed
Product construction	No variation allowed
Product application	No variation allowed

### 5. Limitations

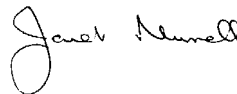
This document does not represent type approval or certification of the product

#### SIGNED



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**Simon Ince**  
Technical Officer  
Technical Department

#### APPROVED



.....  
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Technical Manager  
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on behalf of:  
**Exova Warringtonfire**

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