

**Title:**

CLASSIFICATION OF REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1:2018

**Notified Body No:**

0833

**Product Name:**

"Terralon"

**Report No:**

WF 417705

**Issue No:**

1

**Prepared for:**

**Roysons Corporation**

40 Vanderhoof Avenue  
Rockaway  
NJ 07866  
USA

**Date:**

17<sup>th</sup> September 2019

## 1. Introduction

This classification report defines the classification assigned to "Terralon", a fabric backed non-woven wallcovering, in line with the procedures given in EN 13501-1:2018.

## 2. Details of classified product

### 2.1 General

The product, "Terralon", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

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

General description		Fabric backed non woven wallcovering adhered to a calcium silicate based substrate	
Thickness of composite		14.12mm (determined by <a href="#">Warringtonfire</a> )	
Weight per unit area of composite		11.95kg/m <sup>2</sup> (determined by <a href="#">Warringtonfire</a> )	
Wallcovering	Product reference		"Terralon"
	Name of manufacturer		Roysons Corporation
	Thickness		0.53mm (determined by <a href="#">Warringtonfire</a> )
	Weight per unit length		403g/m (13oz/ 54" linear yard)
	Weight per unit area		320g/m <sup>2</sup> (determined by <a href="#">Warringtonfire</a> )
	Batch reference		"23Z576"
	Pattern reference		"Plain"
	Colour reference		"White"
	Non woven (decorative face)	Product reference	"Non-woven"
		Generic type	Decorative printable non-woven
		Name of manufacturer	<b>See Note 1 below</b>
		Colour	"White"
		Thickness	0.24mm
		Weight per unit area	180g/m <sup>2</sup>
		Flame retardant details	<b>See Note 2 below</b>
	Adhesive	Product reference	"Acrylic"
		Generic type	Water based acrylic
		Colour	"Clear"
		Name of manufacturer	<b>See Note 1 below</b>
		Thickness	0.02mm
		Application method	Meyer rod
		Flame retardant details	<b>See Note 2 below</b>
	Fabric backing	Curing process	Heat cured
		Product reference	"OSNA"
		Generic type	Polyester OSNA
		Name of manufacturer	<b>See Note 1 below</b>
		Colour	"White"
		Thickness	0.27mm
		Weight per unit area	110g/m <sup>2</sup>
		Flame retardant details	<b>See Note 2 below</b>

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Adhesive	Product reference	"Dreamgrip F10"
	Generic type	Polyvinyl acetate (PVA)
	Name of manufacturer	Nor known
	Application rate	600g/m <sup>2</sup>
	Application method	Roller
	Flame retardant details	<b>See Note 3 below</b>
Substrate	Generic type	Calcium silicate board
	Product reference	"Promat Brandschutzbauplatten Promatect – H"
	Name of supplier / manufacturer	Promat
	Thickness	12mm
	Density	870kg/m <sup>3</sup>
	Flame retardant details	The substrate is inherently flame retardant
Brief description of manufacturing process of wall covering		Lamination composite

**Note 1.** The sponsor of the test 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 of the test was unable to provide this information.

### 3. Test reports and test results in support of classification.

#### 3.1 Test reports.

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Roysons Corporation	WF 417628	EN ISO 11925-2
Warringtonfire	Roysons Corporation	WF 417627	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	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure – edge)	F <sub>s</sub>	6	≤ 30mm	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	382.56	Compliant
	FIGRA <sub>0.4MJ</sub>		334.02	Compliant
	THR <sub>600s</sub>		2.42	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP <sub>600s</sub>		23.26	Compliant
	Flaming droplets		None	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 13501-1:2018 and EN 15102.

### 4.2 Classification

The product, "Terralon", a fabric backed non-woven wallcovering, in relation to its reaction to fire behaviour is classified:

**D**

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 applications, excluding flooring and linear pipe thermal insulation is:

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

i.e. D – s1 , d0

## Reaction to fire classification: D – 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/m<sup>3</sup>, having a minimum thickness of 12mm and a fire performance of A2 or better (excluding paper faced plasterboard).
- ii) Product installed utilising “Dreamgrip F10”, a PVA wall covering adhesive, at an application rate of 600g/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 colour/pattern	Any variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

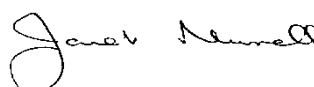
#### SIGNED



#### Matthew Dale

Senior Certification Engineer  
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#### APPROVED



#### Janet Murrell

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on behalf of **Warringtonfire**

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