

# classification report

**Title:**

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

**Notified Body No:**

0833

**Product Name:**

'Insulfrax<sup>®</sup> Paper'

**Report No:**

171606

**Issue No:**

1

**Prepared for:**

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Mill Lane  
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**Date:**

28<sup>th</sup> March 2008



## 1. Introduction

This classification report defines the classification assigned to, 'Insulfrax® Paper' a family of wet laid alkaline earth silicate paper, in line with the procedures given in EN 13501-1:2007

## 2. Details of classified product

### 2.1 General

The products, 'Insulfrax® Paper' a family of wet laid alkaline earth silicate paper, are defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The products, 'Insulfrax® Paper' a family of wet laid alkaline earth silicate paper, are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Wet Laid Alkaline Earth Silicate Paper
Product reference		"Insulfrax® Paper"
Detailed description / composition details		Flexible paper product manufactured from calcium-magnesium-silicate Insulfrax fibres bonded with a flexible acrylic latex emulsion
Name of manufacturer		Unifrax Limited
Density / weight per unit area		150 kg/m <sup>3</sup> (stated by sponsor)
Thickness		1 -10mm
Colour		"White"
Flame retardant details		The sponsor has stated that no flame retardant additives were utilised in the manufacture of the product.
Brief description of manufacturing process		An aqueous slurry of fibre and binder is deposited onto the forming wire of a paper machine. The slurry is de-watered under vacuum and the dried in a linear dryer. The process is continuous and the finished product is supplied as rolls.
Substrate	Trade name	"Promat - Brandschutzbauplatten; Promatect-H"
	Generic type	Calcium Silicate based board
	Manufacturer	Promat
	Thickness	12mm
	Density	870 kg/m <sup>3</sup>
	Flame retardant details	The substrate is inherently flame retardant
	Fixing details	For the purpose of the test the specimen was fixed in place to the substrate by means of 'bulldog' clips.

### 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	Unifrax Limited	WF 170252	EN ISO 1716
Bodycote warringtonfire	Unifrax Limited	WF 171571, 171570	EN 13823
Bodycote warringtonfire	Unifrax Limited	WF 171607	EN/TS 15117

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 1716	PCS	3	1.8536	Compliant
EN 13823	FIGRA 0.2MJ	3, 1	1.33, 0	Compliant
	THR600s		0.58, 0.41	Compliant
	LFS		N, N	Compliant
	SMOGRA		0, 0	Compliant
	TSP600s		25.45, 23.63	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 products, 'Insulfrax® Paper' a family of wet laid alkaline earth silicate paper, in relation to their reaction to fire behaviour are classified:

**A2**

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 is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>A2</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

**Reaction to fire classification: A2-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 6mm and a fire performance of A2 or better.

This classification is also valid for the following product parameters:

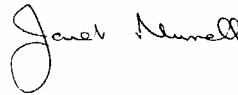
Product thickness	1 – 10 mm
Product density	No variation from manufacturers tolerances
Product composition	No variation from manufacturers tolerances

**SIGNED**



.....  
**Simon Ince**  
Technical Officer  
Technical Department

**APPROVED**



.....  
**Janet Murrell**  
Technical Manager  
Technical Department  
on behalf of:  
**Bodycote warringtonfire**

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