

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:**

"Ceilume"

**Report No:**

WF 376545

**Issue No:**

1

**Prepared for:**

Empire West / Ceilume  
P.O.Box 511  
9270 Graton Road  
Graton  
CA 95444  
USA

**Date:**

22<sup>nd</sup> November 2016



0249

## 1. Introduction

This classification report defines the classification assigned to "Ceilume", a 100% rigid polyvinyl chloride (PVC) ceiling tile, in line with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

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

### 2.2 Product description

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

General description		100% rigid polyvinyl chloride (PVC) ceiling tile
Ceiling tile	Product reference	"Ceilume"
	Name of manufacturer	Empire West Inc / Ceilume
	Thickness	0.76mm (0.030") (stated by sponsor) 0.76mm (determined by <b>Exova Warringtonfire</b> )
	Weight per unit area	0.98 - 1.15kg/m <sup>2</sup> (0.2017 - 0.2360lbs/ft <sup>2</sup> ) (stated by sponsor) 1.04kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
	Colour reference	"White"
	Flame retardant details	<b>See Note 1 below</b>
Substrate	Product reference	"Gyproc Soundbloc"
	Generic type	Paper faced plasterboard
	Name of manufacturer	British Gypsum
	Thickness	12.5mm
	Density	700kg/m <sup>3</sup>
Mounting and fixing details		The tiles were fixed into a metal ceiling grid and an 80mm ventilated cavity was situated between the reverse face of the specimens and the plasterboard substrate
Brief description of manufacturing process		Thermoforming

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

### 3. Test reports & 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
Exova warringtonfire	Empire West / Ceilume	WF 374927	EN ISO 11925-2
		WF 374926	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	58.3	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge)	F <sub>s</sub>	6	51.7	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	18.26	Compliant
	FIGRA <sub>0.4MJ</sub>		3.06	Compliant
	THR <sub>600s</sub>		0.56	Compliant
	LFS		None	Compliant
	SMOGRA		26.35	Compliant
	TSP <sub>600s</sub>		28.97	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+A1:2009.

##### 4.2 Classification

The product, "Ceilume", a 100% rigid polyvinyl chloride (PVC) ceiling tile, in relation to its reaction to fire behaviour is 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 applications, excluding flooring and linear pipe thermal insulation is:

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

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, free standing with no substrate.
- ii) Construction applications used over any substrate with a density equal to or greater than 870kg/m<sup>3</sup>, having a minimum thickness of 12.5mm and a fire performance of A2 or better.

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	No 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**

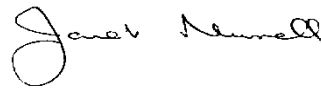


.....

**Matthew Dale**

Senior Certification Engineer  
Technical Department

**APPROVED**



.....

**Janet Murrell**

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

This copy has been produced from a .pdf format electronic file that has been provided by **Exova Warringtonfire** to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of **Exova Warringtonfire**. The pdf copy supplied is the sole authentic version of this document. All pdf versions of this report bear authentic signatures of the responsible **Exova Warringtonfire** staff.