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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:**

"Palight, Palfoam, Palight  
Digital, Palight Print, Palfoam  
AS Digital"

**Report No:**

WF 370717

**Issue No:**

1

**Prepared for:**

Unit 2  
Doncaster Carr Industrial  
Estate  
White Rose Way  
Doncaster, DN4 5JH

**Date:**

17<sup>th</sup> August 2016



0249

## 1. Introduction

This classification report defines the classification assigned to “Palight, Palfoam, Palight Digital, Palight Print, Palfoam AS Digital”, a family of Polyvinyl chloride (PVC) sheet faced foam products, in line with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

The product, “Palight, Palfoam, Palight Digital, Palight Print, Palfoam AS Digital”, a family of Polyvinyl chloride (PVC) sheet faced foam products, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, “Palight, Palfoam, Palight Digital, Palight Print, Palfoam AS Digital”, a family of Polyvinyl chloride (PVC) sheet faced foam products, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Polyvinyl chloride (PVC) foamed flat sheet
Product reference		“Palight, Palfoam, Palight Digital, Palight Print, Palfoam AS Digital”
Name of manufacturer		Palram
Foamed PVC sheet	Generic type	PVC
	Product reference	“Palight, Palfoam, Palight Digital, Palight Print, Palfoam AS Digital”
	Name of manufacturer	Palram
	Thickness	2mm to 3mm
	Density	0.48-0.57g/cm <sup>3</sup> (stated by sponsor)
	Colour reference	“White”
	Flame retardant details	<b>See Note 1 below</b>
Mounting and fixing details		The specimens were tested clamped into a “window” frame manufactured from 5mm steel sheet.
Air space details		80mm and 180mm ventilated cavities were situated between the reverse face of each specimen and the calcium silicate based backing board (as defined in EN 13238: 2010)
Brief description of manufacturing process		PVC sheet extrusion

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/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
Exova Warringtonfire	Palram UK	WF 364224, 370263	EN ISO 11925-2
Exova Warringtonfire	Palram UK	WF 364223, 370261	EN 13823
Exova Warringtonfire	Palram UK	WF 370716	EN/TS 15117
Exova Warringtonfire	Palram UK	WF 364795	EN 13501

#### 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	6, 6	F <sub>s</sub>	53.3 (3mm) Nil (2mm)	Compliant
			Flaming droplets/ particles	None	Compliant
	30s exposure - edge	6, 6	F <sub>s</sub>	53.3 (3mm) 80 (2mm)	Compliant
			Flaming droplets/ particles	None	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	Formal test (3mm) Formal test (2mm)	84.72	Compliant	
			107.42		
	FIGRA <sub>0.4MJ</sub>	Formal test (3mm) Formal test (2mm)	73.40	Compliant	
			88.56		
	THR <sub>600s</sub>	Formal test (3mm) Formal test (2mm)	1.80	Compliant	
			1.23		
	LFS	Formal test (3mm) Formal test (2mm)	None	Compliant	
			None		
	SMOGRA	Formal test (3mm) Formal test (2mm)	109.62	Compliant	
			92.51		
	TSP <sub>600s</sub>	Formal test (3mm) Formal test (2mm)	124.43	Compliant	
			67.47		

## 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, "Palight, Palfoam, Palight Digital, Palight Print, Palfoam AS Digital", a family of Polyvinyl chloride (PVC) sheet faced foam products, 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 applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	-	<b>s</b>	<b>2</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 mechanically installed with a minimum airspace of 80mm.
- ii) Freestanding construction applications
- iii) 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, excluding paper faced plasterboard.

This classification is also valid for the following product parameters:

Product thickness	2mm to 3mm
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

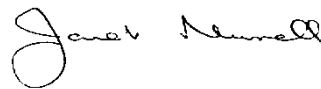


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Senior Certification Engineer  
Technical Department

### APPROVED



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### Janet Murrell

Technical Manager  
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on behalf of **Exova Warringtonfire**

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