



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:

"Palboard"

Report No:

WF 369057

Issue No:

1

Prepared for:

Palram UK

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Estate
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Date:

6th July 2016



1. Introduction

This classification report defines the classification assigned to "Palboard", 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, "Palboard", 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, "Palboard", 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) sheet faced and backed foam product
Product reference		"Palboard"
Name of manufacturer		Palram
Thickness		3mm to 10mm
Density		0.58 g/cm ³ to 0.62g/cm ³
Product configuration		<ul style="list-style-type: none"> • PVC sheet • Foam core • PVC sheet
PVC Sheet	Generic type	PVC
	Product reference	"Palboard"
	Name of manufacturer	Palram
	Thickness	300 microns
	Density	1.4g/cm ³
	Colour reference	"White"
	Flame retardant details	See Note 1 below
PVC foam core	Generic type	PVC
	Product reference	"Palboard"
	Name of manufacturer	Palram
	Thickness	2.4mm to 9.4mm
	Density	0.5g/cm ³
	Colour reference	"Black"
	Flame retardant details	See Note 1 below
Mounting and fixing details		The specimens were tested clamped into a "window" frame manufactured from 5mm steel sheet.
Air space details		An 80mm ventilated cavity was 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 367375, WF 367368	EN ISO 11925-2
Exova Warringtonfire	Palram UK	WF 367374, WF 367367	EN 13823
Exova Warringtonfire	Palram UK	WF 369055	EN/TS 15117

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 _s	6, 6	56.7 (3mm) 55.0 (10mm)	Compliant
		Flaming droplets/ particles		None	Compliant
	30s exposure – edge	F _s	6, 6	51.7 (3mm) 60.8 (10mm)	Compliant
		Flaming droplets/ particles		None	Compliant
EN 13823		FIGRA _{0.2MJ}	Formal test (3mm)	106.34	Compliant
			Formal test (10mm)	84.97	
		FIGRA _{0.4MJ}	Formal test (3mm)	68.17	Compliant
			Formal test (10mm)	78.56	
		THR _{600s}	Formal test (3mm)	2.11	Compliant
			Formal test (10mm)	4.64	
		LFS	Formal test (3mm)	None	Compliant
			Formal test (10mm)	None	
		SMOGRA	Formal test (3mm)	68.94	Compliant
			Formal test (10mm)	124.27	
		TSP _{600s}	Formal test (3mm)	86.62	Compliant
			Formal test (10mm)	397.43	

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, "Palboard", 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:

s3

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	-	s	3	,	d	0

i.e. B – s3 , d0

Reaction to fire classification: B – s3, 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) Construction applications used over any substrate with a density equal to or greater than 870kg/m³, 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	3mm to 10mm
PVC foam core thickness	2.4mm to 9.4mm
Product composition	No variation allowed
Product construction	No variation allowed

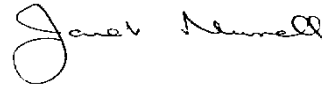
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