

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:

"FCD300E, FCP250E, FC170E,
and FC150E Fortex Cladding"

Report No:

313057

Issue No:

1

Prepared for:

Freefoam Plastics Limited,
Central Commercial Park,
Centre Park Road, Cork,
Ireland

Date:

28th May 2012

1. Introduction

This classification report defines the classification assigned to “FCD300E, FCP250E, FC170E, and FC150E Fortex Cladding”, PVC cladding panels, in accordance with the procedures given in EN 13501-1:2007.

2. Details of classified product

2.1 General

The products, “FCD300E, FCP250E, FC170E, and FC150E Fortex Cladding”, PVC cladding panels are defined as unplasticized poly(vinyl chloride) (PVC-U) profiles and cellular unplasticized poly(vinyl chloride) (PVC-UE) profiles for interior and exterior wall and ceiling finishes as defined in EN 13245:2008 Incorporating corrigenda November 2009 and August 2010.

2.2 Product description

The products, “FCD300E, FCP250E, FC170E, and FC150E Fortex Cladding”, PVC cladding panels, are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A composite panel consisting of shiplap PVC cladding mechanically fixed to a timber frame.
Trade name/ product reference		“FCD300E, FCP250E, FC170E, and FC150E Fortex Cladding”
Thickness of cladding		5 – 8 mm (stated by sponsor)
Density of cladding		400-550kg/m ³ (stated by sponsor)
Decorative facing	Product reference	“Freefoam PVC Skin”
	Generic type	PVCu (Unplasticised Polyvinyl Chloride)
	Name of manufacturer	Freefoam Plastics Limited
	Thickness	0.6mm
	Flame retardant details	See Note 1
Core	Product reference	“PVC Cellular Material”
	Generic type	PVCuE
	Thickness	4.4 – 7.4 mm
	Name of manufacturer	Freefoam Plastics Limited
	Flame retardant details	See Note 1
Timber frame	Generic type	Softwood timber
	Dimensions	40mm x 40mm
Mounting and fixing details		The PVC cladding panels were mechanically fixed to a timber frame and a calcium silicate backing board was butted up against the reverse face of the timber.
Brief description of manufacturing process		Standard extrusion, co-extrusion and embossing

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

3. Test reports/extended application 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
Exova Warringtonfire	Freefoam Plastics Limited	WFR 316410, WFR 316408, WFR 316409, WFR 316411	EN 13823
Exova Warringtonfire	Freefoam Plastics Limited	WFR 312340, WFR 317738	EN ISO 11925-2
Exova Warringtonfire	Freefoam Plastics Limited	WFR 313058	EN/TS 15117

3.2 Test results

Test method & test number	Parameter	No. tests	Results		
			Continuous parameter - mean (m)	Compliance parameters	
EN 13823	Figra _{0.4 MJ} (W/s)	5	493	Compliant	
	THR _{600 s} (MJ)		34.2	Compliant	
	Smogra (m ² /s ²)		351	Compliant	
	TSP _{600 s} (m ²)		1505	Compliant	
	LFS (y/n)		N	Compliant	
	Flaming droplets (y/n)		Y	Compliant	
	<10 s (y/n) >10 s (y/n)		Y		
EN ISO 11925-2 30 s surface exposure	Flame spread (mm)	6	45	Compliant	
	Flaming droplets (y/n)		none	Compliant	
	30 s edge exposure	Flame spread (mm)	6	36	Compliant
		Flaming droplets (y/n)		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 13501-1:2007

4.2 Classification

The products, "FCD300E, FCP250E, FC170E, and FC150E Fortex Cladding", shiplap PVC cladding panels, in relation to its reaction to fire behaviour are classified:

Reaction to fire classification: D-s3, d2/AHM

4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall, ceiling and facade applications
- ii) Used over any substrate of class A2 or better with density of 870 kg/m³ or higher, with an air gap, mechanically fixed onto a timber (or metal) support frame.

This classification is also valid for the following product parameters:

Colour	any colour
Surface structure	stippled finish, or wood grain finish
Board width	150 mm or more
Joint geometry	shiplap or feather edge
Product thickness	5 – 8 mm
Product composition	No variation allowed

Within these product parameters will fall the products designated FC150E Fortex Cladding, FCD300E Fortex Cladding, FC170E Fortex Cladding, and FCP250E Fortex Cladding

"The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive. The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate. The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested."

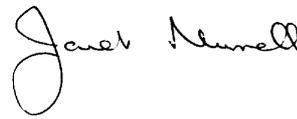
SIGNED



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Frans Paap
Certification Engineer

APPROVED



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Janet Murrell
Technical Manager
on behalf of **Exova Warringtonfire**

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