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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:

"Fastclad with Hanson
Worcestershire Red Multi
Slips"

Report No:

WF 350495

Issue No:

1

Prepared for:

Advanced Construction
Systems Limited
Fastclad Building
Granite Close
Enderby
Leicester
LE19 4AE

Date:

19th March 2015



0249

1. Introduction

This classification report defines the classification assigned to “Fastclad with Hanson Worcestershire Red Multi Slips”, a brick slip system adhered to preformed tongue and groove cement particle board, in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, “Fastclad with Hanson Worcestershire Red Multi Slips”, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “Fastclad with Hanson Worcestershire Red Multi Slips”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Brick slip system adhered to preformed tongue and groove cement particle board sections and fixed to a chipboard substrate with timber battens
Product reference		“Fastclad with Hanson Worcestershire Red Multi Slips”
Name of manufacturer		Advanced Construction Systems Ltd
Thickness of overall composite		45mm (determined by Exova Warringtonfire)
Weight per unit area overall composite		57.58 kg/m ² (determined by Exova Warringtonfire)
Thickness excluding battens and chipboard		32mm
Weight per unit area excluding battens and chipboard		48kg/m ²
Brick slip	Generic type	Category 2 HD clay masonry unit
	Product reference	“Hanson Worcestershire Red Multi”
	Name of manufacturer	Hanson
	Thickness	15mm
	Weight per unit area	21kg/m ²
	Colour reference	“Worcestershire Red Multi”
	Flame retardant details	See Note 1 below
Adhesive	Generic type	Epoxy
	Product reference	“S-2765E Thixotropic Tern Grey ACS”
	Name of manufacturer	Structural Adhesives Ltd
	Colour reference	“Tern Grey”
	Application rate	0.75kg/m ²
	Application method	Mechanised Roller
	Flame retardant details	See Note 1 below
	Curing process	Indoors ambient

Continued on next page

Cement particle board	Generic type	Cement particle board
	Product reference	"Versapanel"
	Composition details	Cement particle board to EN 634-2 comprising wood particles, OPC and small quantities of chemicals
	Name of manufacturer	Euroform Ltd
	Thickness	16mm
	Weight per unit area	20kg/m ²
	Colour reference	"Natural Grey"
	Flame retardant details	See Note 1 below
Mortar	Generic type	Lime mortar
	Product reference	"EA203"
	Name of manufacturer	Parex
	Colour reference	"EA203"
	Application rate	6kg/m ²
	Application thickness	15mm
	Application method	Trowel
	Flame retardant details	See Note 1 below
Curing process	12 day cure	
Chip board	Generic type	Chipboard
	Product reference	"Chipboard to BS EN 312 P2"
	Timber species	See Note 2 below
	Thickness	12mm
	Weight per unit area	8kg/m ²
	Name of supplier	CSB Timber Ltd
	Flame retardant details	See Note 1 below
	Cycle details	See Note 2 below
Battens	Generic type	Kiln dried ungraded eased edges carcassing timber
	Product reference	The sponsor has confirmed that no specific reference is used for this component
	Timber species	Ungraded whitewood
	Dimensions	45x45mm
	Weight per unit length	0.95kg/m
	Name of supplier	E H Smith
	Flame retardant details	See Note 1 below
	Cycle details	See Note 2 below
Brief description of manufacturing process		15mm face slips are cut from bricks and dried. Preformed tongued and grooved cement particle boards are passed under an adhesive roller and the slips are positioned onto the adhesive, five slips per board. The adhesive is cured and the finished product is packed.

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

Note 2: The sponsor was unable to provide this information.

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	Advanced Construction Systems Limited	WF 350002	EN ISO 11925-2
Exova warringtonfire	Advanced Construction Systems Limited	WF 350001	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 _s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge)	F _s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge turned at 90 degrees)	F _s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA _{0.2MJ}	3	0.00	Compliant
	FIGRA _{0.4MJ}		0.00	Compliant
	THR _{600s}		0.36	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP _{600s}		10.274	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, "Fastclad with Hanson Worcestershire Red Multi Slips", a brick slip system adhered to preformed tongue and groove cement particle board, 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	-	s	1	,	d	0

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 used over any substrate with a density equal to or greater than 680kg/m^3 , having a minimum thickness of 12mm and a fire performance of D-s2, d0 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

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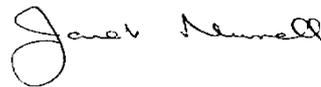


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APPROVED



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on behalf of **Exova warringtonfire**

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