

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
BS EN 13501-1:2007+A1:
2009.

Notified Body No:

0833

Product Name:

"EFP 2 / A2"

Report No:

306534

Issue No:

2

Prepared for:

Coopers Fire Limited
Edward House, Penner Road
Havant
Hampshire
PO9 1QZ

Date:

9th May 2011



1. Introduction

This classification report defines the classification assigned to "EFP 2 / A2", a glass fibre fabric with a fire retardant polyurethane coating applied to each face, in accordance with the procedures given in BS EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "EFP 2 / A2", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "EFP 2 / A2", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A glass fibre fabric with a fire retardant polyurethane based coating applied to each face
Product reference		"EFP 2 / A2"
Name of manufacturer		Technical Textiles and Coatings Ltd.
Overall thickness		0.4mm (stated by sponsor) 0.41mm (determined by Exova Warringtonfire)
Overall weight per unit area		455g/m ² (stated by sponsor) 448g/m ² (determined by Exova Warringtonfire)
Colour reference		"Silver-Grey"
Product configuration		<ul style="list-style-type: none"> • Coating • Glass cloth fabric • Coating
Coating	Product reference	"Mix 4.2"
	Generic type	Polyurethane based coating
	Detailed description / composition details	A blend of polyurethane, filler, flame retardant and micronized aluminium
	Name of manufacturer	See Note 1 Below
	Colour	"Silver-Grey"
	Number of coats	One per face
	Application rate per coat	20 g/m ²
	Application method	Knife coating
	Curing process	See Note 1 Below
Flame retardant details	See Note 1 Below	
Glass cloth fabric	Product reference	"05258"
	Generic type	100 % woven glass fabric
	Name of manufacturer	Fibertechs SAS
	Type of weave	2 x 2 Broken Twill
	Colour	"White"
	Thickness	0.4mm
	Weight per unit area	415g/m ²
	Flame retardant details	The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component

Continued on next page

Mounting and fixing details	The specimens were tested sandwiched between two "window frames" manufactured from 5mm steel sheet and bolted together utilising 5.85mm x 43.85mm bolts and wing nuts.
Air gap details	A 180mm ventilated cavity was situated between the reverse face of each specimen and the backing board
Brief description of manufacturing process	The fabric component is woven and then coated on both sides

Note 1: The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

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	Coopers Fire Limited	WF 306510	BS EN 13823
Exova warringtonfire	Coopers Fire Limited	WF 199783	BS EN ISO 1716
Exova warringtonfire	Coopers Fire Limited	WF 199784	BS EN ISO 1716
Exova warringtonfire	Coopers Fire Limited	WF 303417	BS EN ISO 1716 summary report

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA _{0.2MJ}	3	0.00	Compliant
	FIGRA _{0.4MJ}		0.00	Compliant
	THR _{600s}		0.33	Compliant
	LFS		None	Compliant
	SMOGRA		24.38	Compliant
	TSP _{600s}		17.22	Compliant
EN ISO 1716	PU coating - PCS (b)	3	0.4000	Compliant
	Glass cloth - PCS (b)	3	0.1196	Compliant
	PU coating - PCS (b)	3	0.4000	Compliant
	For the product as a whole PCS (e)	Summary result	2.0210	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of BS EN 13501-1:2007+A1:2009.

4.2 Classification

The product, "EFP 2 / A2", a glass fibre fabric with a fire retardant polyurethane coating applied to each face, in relation to its reaction to fire behaviour is classified:

A2

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 products excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
A2	-	s	1	,	d	0

i.e. **A2 – s1 , d0**

Reaction to fire classification: A2-s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall and ceiling applications
- ii) Construction applications mechanically installed without the presence of a substrate with a minimum air gap of 180mm.

This classification is also valid for the following product parameters:

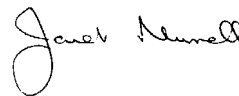
Overall product thickness	No variation allowed
Overall product weight per unit area	No variation allowed
Product composition	No variation allowed
Product configuration	No variation allowed
Coating application rate	No variation allowed
Fabric thickness	No variation allowed
Fabric weight per unit area	No variation allowed
Colour	No variation allowed

SIGNED



.....
Matthew Dale
Certification Engineer

APPROVED



.....
Janet Murrell
Technical Manager
For and 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 original signed paper version of this report is the sole authentic version. Only original paper versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.