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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:

"PU coated glass fibre fabric"

Report No:

WF 346733

Issue No:

1

Prepared for:

Valmiera Glass UK Ltd Westbury Sherborne Dorset DT9 3RB UK

Date:

14th November 2014



0249

1. Introduction

This classification report defines the classification assigned to "PU coated glass fibre fabric", a product group of flame retardant grade coated glass fabric, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product group, "PU coated glass fibre fabric", a range of flame retardant grade coated glass fabrics, is defined as being suitable for construction applications.

2.2 Product range overview

The individual products in the product group, "PU coated glass fibre fabric", covered in this classification report, with some composition details, is listed below.

Type designation	Fabric type	1- or 2- sided coat	coating type	coating weight (g/m²)
1032-1-SP	1032	1	SP	15
1032-1-SP(SC)	1032	1	SP(SC)	15
1032-1-SP(HP)	1032	1	SP(HP)	15
1032-1-PW	1032	1	PW	15
3200-1-SP	3200	1	SP	20
3200-1-SP(SC)	3200	1	SP(SC)	20
3200-1-SP(HP)	3200	1	SP(HP)	20
3200-1-PW	3200	1	PW	20
4415-1-SP	4415	1	SP	25
4415-1-SP(SC)	4415	1	SP(SC)	25
4415-1-SP(HP)	4415	1	SP(HP)	25
4415-1-PW	4415	1	PW	25
TG-430-G-PU-1	TG430	1	SP	20
KA-600-G-PU-1	KA600	1	SP	25

2.3 Product description

The product group, "PU coated glass fibre fabric", a group of flame retardant grade coated glass fabrics, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description			woven glass fabric coated with a flame retardant			
			grade polyurethane coating			
Product reference			See separate listing in section 2.2			
Name of manufa	Name of manufacturer		Valmiera Glass UK Limited			
Overall nominal	thickness		0.2 – 0.4 mm			
Overall nominal weight			220 - 690 g/m ²			
Product configuration			PU Coating			
			Glass Fibre Fabric			
			PU Coating (back side optional)			
	Product reference		SP; SP(SC); PW; SP(HP); G-PU			
	Generic type		Polyurethane coating with aluminium or white			
			mineral filler			
PU Coating	Name of manufacturer		See Note 1 below			
	Weight per unit area		15 – 25 g/m ² (for a one-sided coat)			
	Colour		"silver" or "white"			
	Flame retardant details		See Note 2 below			
	Product reference		1032; 3200; 4415; TG430; KA600			
	Generic type		E-glass fibres, with optionally steel fibres included in			
Glass fibre			the fabric			
fabric	Name of manufacturer		See Note 1 below			
	Weight per unit area		206 – 640 g/m ²			
	Flame retardant details		See Note 3 below			
Brief description	of manufacturing	The	e fabric component is woven and then coated			
process						
Mounting and fixing details		Th	The specimens were tested clamped into a "window"			
		frame manufactured from 5mm steel sheet.				
Air space details			A 180mm ventilated cavity was situated between the			
		reverse face of each specimen and the calcium silicate				
			backing board (defined in EN 13238: 2010)			
Brief description of manufacturing		Th	The fabric component is woven and then coated			
process						

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.

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

Note 3: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

3. Test reports & test results in support of classification

3.1 Test reports and Extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Valmiera Glass UK Ltd	WF 339618, WF 339620	EN 13823
Exova warringtonfire	Valmiera Glass UK Ltd	WF 339612, WF 339613, WF 343220, WF 343222	EN ISO 1716
Exova warringtonfire	Valmiera Glass UK Ltd	WF 346709	EN/TS 15117

3.2 Test results

3.2 Test results					
Test method &			Results		
test number	Parameter	No. tests	Continuous parameter - mean (m)	Compliance parameters	
EN 13823	Figra _{0.2 MJ} (W/s)		2.9	Compliant	
	THR _{600 s} (MJ)		0.63	Compliant	
	Smogra (m²/s²)		0	Compliant	
	TSP _{600 s} (m ²)	3 + 3	17.7	Compliant	
	LFS (y/n)		N	Compliant	
	Flaming droplets (y/n) <10 s (y/n) >10 s (y/n)		N	Compliant	
	PCS glass fibre fabric				
	Type 1032	3	0.331 MJ/kg		
	3.		0.068 MJ/m ²	Compliant	
	Type 3200	3	0.456 MJ/kg		
			<0.274 MJ/m ²	Compliant	
	PCS Polyurethane				
	SP; G-PU	3	23.74 MJ/kg		
EN ISO 1716	()	_	<0.594 MJ/m ²	Compliant	
	SP(SC)	3	23.34 MJ/kg	0 " 1	
	DW	2	<0.584 MJ/m ²	Compliant	
	PW	3	19.71 MJ/kg <0.493 MJ/m²	Compliant	
	SP(HP)	3	19.58 MJ/kg	Compilant	
	51 (111 <i>)</i>		$< 0.490 \text{ MJ/m}^2$	Compliant	
				·	
	Product as a whole	Calculated	< 2.0 MJ/kg	Compliant	

The values listed are the 'worst case' results for a full set of test results achieved on the product range covered in this report.

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 group, "PU coated glass fibre fabric", a range of flame retardant grade coated glass fabrics, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: A1

4.3 Field of application

This classification is valid for the following end use applications:

i) Construction applications; free standing

This classification is valid for the product parameters as defined in the Table in section 2.2. No further variations are allowed.

APPROVED

Janet Nemell

Frans Paap
Certification Engineer

SIGNED

Janet Murrell
Technical Manager
on behalf of Exova warringtonfire

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