



MFPA Leipzig GmbH

Testing, Inspection and Certification Authority for
Construction Products and Construction Types

Business Division III - Structural Fire Protection

Dr.-Ing. Peter Nause

Work Group 3.1 - Fire Behavior of Building Products

Mathias Claus

Telephone +49 (0) 341 - 6582-125

claus@mfpaleipzig.de

-Certified translation from German-

Classification Report No. KB 3.1/13-180-11

Report on the classification of the fire behavior

of 20 August 2013

1st copy

Client: Vitrolan Textile Glass GmbH
Bernecker Strasse 8
95509 Marktschorgast

Subject matter: Classification of the fire behavior according to DIN EN 13501-1:2010

Object: Group 5: SYSTEXX „Fiber glass fabric for the decorative and functional wall design with sound-absorbing rear side lamination of polyester, non-colored“

Order date: 03/06/2013

Prepared by: M. Claus

This classification report consists of 5 sheets.

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Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen Leipzig mbH (MFPA Leipzig GmbH)

Sitz: Hans-Weigel-Str. 2b – 04319 Leipzig/Germany
Geschäftsführer: Prof. Dr.-Ing. Frank Dehn
Handelsregister: Amtsgericht Leipzig HRB 17719
USt-Id Nr.: DE 813200649
Tel.: +49 (0) 341 - 6582-0
Fax: +49 (0) 341 - 6582-135

1 Details of the classified building product

According to the client, the building product to be classified was a product representative of group 5: SYSTEXX „Fiber glass fabric for the decorative and functional wall design with sound-absorbing rear side lamination of polyester, non-colored“, which was glued over the full surface of plasterboards by commercial fabric glue.

The fiber glass fabric had a white color.

The specimens were prepared without additional paint-coat.

According to the client, the building product met the following European product certifications: DIN EN 15102:2011.

1.1 Properties of the classified building products

The client grouped the products in a product family with the appropriate properties.

Table 1: Information submitted by client:

Thickness [mm]	$2.9 \pm 10\%$
Weight per unit area [g/m ²]	$609 \pm 10\%$
Loss on ignition [g/m ²]	$365 \pm 10\%$

1.2 Setup for tests according to DIN EN 13823

The 3 mm thick samples were glued to 12.5 mm thick plasterboards according to DIN EN 13238 Table 1.

The product representative of group 5: SYSTEXX was arranged vertically forming a cross joint according to DIN EN 13823, section 5.2.2, item e) at the plasterboard carrier panel.

2 Test reports and test results used as basis for classification

2.1 Test reports

Name of laboratory	Client	Number of test report	Test method
MFPA Leipzig GmbH	VITRULAN Textile Glass GmbH	PB3.1/13-180-8 of 31/07/2013	DIN EN 13823
MFPA Leipzig GmbH	VITRULAN Textile Glass GmbH	PB3.1/13-180-9 of 31/07/2013	DIN EN ISO 11925-2 (30s flaming time)

2.2 Test results according to DIN EN 13823 for the selected product representative of group 5 SYSTEXX

Test method	Parameter	Number of tests	Test results	
			Constant parameters (average value)	Requirement met (Y/N)
EN 13823	Figra _{0.2 MJ}	3	113	(-)
	Figra _{0.4 MJ}	3	105	(-)
	LFS < edge	3	(-)	Y
	THR _{600s} [MJ]	3	2,0	(-)
	Smogra [m ² /s ²]	3	0	(-)
	TSP _{600s} [m ²]	3	38	(-)
	Burning dripping down/dropping down	3	(-)	No burning dripping down/dropping down

(-) not applicable

2.3 Test results according to DIN EN ISO 11925-2 for the selected product representative of group 5 SYSTEXX

Test method	Parameter	Number of tests	Test results	
			Constant parameters (average value)	Requirement met (Y/N)
DIN EN ISO 11925-2 Flaming period 30s	Fs ≤ 150 mm	8	(-)	Y
	Burning dripping down/dropping down	8	(-)	No burning dripping down/dropping down
	Ignition of filter paper	8	(-)	No ignition

(-) not applicable



3 Classification and field of application

3.1 Basis of classification

This classification was carried out in accordance with sections 11 and 14.1 of the norm DIN EN 13501-1:2010 as well as the product norm DIN EN 15102:2011.

3.2 Classification

The product representative of group 5: SYSTEXX „Fiber glass fabric for the decorative and functional wall design with sound-absorbing rear side lamination of polyester, non-colored “

Is classified in terms of its fire behavior: B

Additional classification in terms of smoke development: s1

Additional classification in terms of burning dripping down/dropping down is: d0

The format of classification of the fire behavior of the building product is:

Fire behavior		Smoke development			Burning dripping down/dropping down	
B	-	s	1		d	0

i.e. B – s1, d0

Classification of fire behavior: B – s1, d0

3.3 Field of application of product

This classification in section 3.2 shall be valid only for the building products described in section 1 and shall be applicable to the following final conditions of application:

- The product representative of group 5: SYSTEXX „Fiber glass fabric for the decorative and functional wall design with sound-absorbing rear side lamination of polyester, non-colored, may be used at plasterboards and substrates of Euro class A1 or A2-s1, d0 with a min. bulk density of 525 kg/m³ and a min. thickness of 12 mm.
- The thickness of the glass fabric shall be $\leq 2.9 \pm 10\%$ mm.
- Classification for the glass fabrics shall be applicable to weights per unit area of $\leq 609 \pm 10\%$ g/m².
- Classification shall be applicable to gluing with commercial fabric glue for a wet application amount of ≤ 350 g/m².
- Classification shall be applicable to glass fabrics with a maximum loss on ignition of $365 \pm 10\%$ g/m².
- Classification shall be applicable to use without paint coat.

4 Restrictions

- 4.1 In connection with other building products, in particular insulation materials with bulk density ranges other than those given in section 3.3, the fire behavior may be affected such that the classification in section 3.2 is no longer applicable. The fire behavior in connection with other building products or other bulk density ranges or thickness ranges shall be demonstrated separately.
- 4.2 This document shall not be deemed a type approval or product certification and shall not substitute a verification of applicability according to State building regulations; if any, as required under the provisions of the German building law (State building regulations).
- 4.3 This classification report shall be valid as long as the product composition and the product structure, respectively, the base materials or the production process and building regulations and/or the basis of evaluation are not modified.

Leipzig, 20 August 2013

Dr.-Ing. P. Nause
Head of Business Division

Dipl.-Phys. G. Brinkmann
Head of Testing Centre

M. Claus
Testing Engineer

Having been publicly appointed and generally sworn in as a translator for English by the President of the Leipzig Regional Court, I hereby certify the above translation of the document submitted to me as an original in the German language to be correct and complete.

Leipzig, 16/09/2013

