



# MFPA Leipzig GmbH

Testing, inspection and certification body for  
building materials, building products and building systems

**Division III - Structural Fire Protection**

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## Classification report no. KB 3.1/18-068-1

Reaction to fire classification report

from 16 February 2018

1st copy

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Client: TexRa GmbH  
Schüttendeich 4  
42477 Radevormwald  
Germany

Order: Reaction to fire classification according to DIN EN 13501-1:2010

Subject matter: Various "Knitted polyester fabric"

Date of order: 30. January 2018

Person in charge: Mathias Claus

This document consists of 5 pages.

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Deutsche  
Akkreditierungsstelle  
D-PL-11021-01-00

Testing laboratory accredited by DAKKS GmbH in accordance with DIN EN ISO/IEC 17025. The accreditation only applies to the testing methods listed in the certificate (marked with \* in this document). The certificate can be viewed at [www.mfpa-leipzig.de](http://www.mfpa-leipzig.de).

Approved test centre according to the Landesbauordnung [state building code] (SAC 02) and notified testing laboratory, inspection body and certification body (PÜZ-Stelle) according to the Construction Products Regulation (NB 0800).

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## 1 Details of classified product

### 1.1 General

The building products to be classified are knitted polyester fabrics which are used as displays, ad banners, wall hangings and in exhibition stand construction

According to the client, these building products are not subject to any harmonised European product standard.

### 1.2 Description

The building products specified in section 3.3 are described in the reports which are referred to in 2.1 for verification of the classification.

## 2 Test reports and test results in support of this classification

### 2.1 Reports

Name of laboratory	Client	Report no.	Test method
MFPA Leipzig GmbH	TexRa GmbH	PB 3.1/16-089-1 from 12/04/2016	DIN EN ISO 11925-2* Building Rules List A Part 1, Edition 2015/2, enclosure 0.2.3 or MVV TB C3 edition 2017/1, annex C 3.7
MFPA Leipzig GmbH	TexRa GmbH	PB 3.1/17-104-1 from 02/05/2017	DIN EN ISO 11925-2* Building Rules List A Part 1, Edition 2015/2, enclosure 0.2.3 or MVV TB C3 edition 2017/1, annex C 3.7
MFPA Leipzig GmbH	TexRa GmbH	PB 3.1/16-089-2 from 12/04/2016	DIN EN 13823*
MFPA Leipzig GmbH	TexRa GmbH	PB 3.1/17-104-1 from 02/05/2017	DIN EN 13823*

## 2.2 Results

Test method and test number	Parameter	Number of tests	Results	
			constant parameters, average value (m)	discrete parameters
DIN EN ISO 11925-2*	$F_s \leq 150\text{mm}$	24	(-)	compliant
	No flaming droplets/particles		(-)	compliant
DIN EN 13823*	FIGRA <sub>0.2 MJ</sub> [W/s]	3	0	(-)
	FIGRA <sub>0.4 MJ</sub> [W/s]		0	(-)
	THR <sub>600s</sub> [MJ]		0.2	(-)
	SMOGR <sub>A</sub> [m <sup>2</sup> /s <sup>2</sup> ]		0	(-)
	TSP <sub>600s</sub> [m <sup>2</sup> ]		13	(-)
	No lateral flame spread (LFS) to the edge of the sample		(-)	compliant
	No flaming droplets/particles		(-)	compliant
	No flaming droplets/particles, > 10 s		(-)	compliant

(-) not applicable

## 3 Classification and field of application

### 3.1 Reference for classification

This classification was carried out in accordance with DIN EN 13501-1:2010.

### 3.2 Classification

The building products specified in section 3.3 are classified as follows

are classified as follows in relation to their reaction to fire: **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 building products excluding floorings and pipe thermal insulation products is:

Reaction to fire		Smoke production			Flaming droplets/particles	
<b>B</b>	<b>-</b>	<b>s</b>	<b>1</b>	<b>,</b>	<b>d</b>	<b>0</b>

i.e. **B-s1, d0**

**Reaction to fire classification: B-s1, d0**

### 3.3 Area of application

This classification is valid for the following product types:

„350FR“, „350EFR“, „350FRS“, „350FRN“, „350FRM“, „350FRL“, „350EFRL“, „350FRX“, „350EFRN“, „350EFRM“, „350FRXU“

„3118FR“, „3118EFR“, „3118FRS“, „3118FRN“, „3118FRM“, „3118FRL“, „3118EFRL“, „3118FRX“, „3118EFRN“, „3118EFRM“, „3118FRXU“

„19FR“, „19EFR“, „19FRS“, „19FRN“, „19FRM“, „19EFRL“, „19FRL“, „19FRX“, „19EFRN“, „19EFRM“, „19FRXU“

„3166FR“, „3166EFR“, „3166FRS“, „3166FRN“, „3166FRM“, „3166FRL“, „3166EFRL“, „3166FRX“, „3166EFRN“, „3166EFRM“, „3166FRXU“

„377FR“, „377EFR“, „377FRS“, „377FRN“, „377FRM“, „377FRL“, „377EFRL“, „377FRX“, „377EFRN“, „377EFRM“, „377FRXU“

„2157FR“, „2157EFR“, „2157FRS“, „2157FRN“, „2157FRM“, „2157FRL“, „2157EFRL“, „2157FRX“, „2157EFRN“, „2157EFRM“, „2157FRXU“

„2191FR“, „2191EFR“, „2191FRS“, „2191FRN“, „2191FRM“, „2191FRL“, „2191EFRL“, „2191FRX“, „2191EFRN“, „2191EFRM“, „2191FRXU“

„3152FR“, „3152EFR“, „3152FRS“, „3152FRN“, „3152FRM“, „3152FRL“, „3152EFRL“, „3152FRX“, „3152EFRN“, „3152EFRM“, „3152FRXU“

„3158FR“, „3158EFR“, „3158FRS“, „3158FRN“, „3158FRM“, „3158FRL“, „3158EFRL“, „3158FRX“, „3158EFRN“, „3158EFRM“, „3158FRXU“

„3154FR“, „3154EFR“, „3154FRS“, „3154FRN“, „3154FRM“, „3154FRL“, „3154EFRL“, „3154FRX“, „3154EFRN“, „3154EFRM“, „3154FRXU“

„3160FR“, „3160EFR“, „3160FRS“, „3160FRN“, „3160FRM“, „3160FRL“, „3160EFRL“, „3160FRX“, „3160EFRN“, „3160EFRM“, „3160FRXU“

„3151FR“, „3151EFR“, „3151FRS“, „3151FRN“, „3151FRM“, „3151EFRL“, „3151FRL“, „3151FRX“, „3151EFRN“, „3151EFRM“, „3151FRXU“

„3172FR“, „3172EFR“, „3172FRS“, „3172FRN“, „3172FRM“, „3172FRL“, „3172EFRL“, „3172FRX“, „3172EFRN“, „3172EFRM“, „3172FRXU“

„3154FR“, „3154EFR“, „3154FRS“, „3154FRN“, „3154FRM“, „3154FRL“, „3154EFRL“, „3154FRX“, „3154EFRN“, „3154EFRM“, „3154FRXU“

„3179FR“, „3179EFR“, „3179FRS“, „3179FRN“, „3179FRM“, „3179FRL“, „3179EFRL“, „3179FRX“, „3179EFRN“, „3179EFRM“, „3179FRXU“

„3149FR“, „3149EFR“, „3149FRS“, „3149FRN“, „3149FRM“, „3149FRL“, „3149EFRL“, „3149FRX“, „3149EFRN“, „3149EFRM“, „3149FRXU“

„3139FR“, „3139EFR“, „3139FRS“, „3139FRN“, „3139FRM“, „3139FRL“, „3139EFRL“, „3139FRX“, „3139EFRN“, „3139EFRM“, „3139FRXU“

„2136FR“, „2136EFR“, „2136FRS“, „2136FRN“, „2136FRM“, „2136FRL“, „2136EFRL“, „2136FRX“, „2136EFRN“, „2136EFRM“, „2136FRXU“

„2264FR“, „2264EFR“, „2264FRS“, „2264FRN“, „2264FRM“, „2264FRL“, „2264EFRL“, „2264FRX“, „2264EFRN“, „2264EFRM“, „2264FRXU“

„2190FR“, „2190EFR“, „2190FRS“, „2190FRN“, „2190FRM“, „2190FRL“, „2190EFRL“, „2190FRX“, „2190EFRN“, „2190EFRM“, „2190FRXU“

This classification is valid for the following product parameters:

- The building products must have the compositions described in section 1.2.
- The building products must be made of 100% polyester.
- The building products must have a thickness between  $0.300 \pm 0.05$  mm and  $0.620 \pm 0.05$  mm.
- The building products must have an area density between  $110 \text{ g/m}^2 \pm 10\%$  and  $320 \text{ g/m}^2 \pm 10\%$ .
- The building products must have a fireproofing material content of at least 5%.
- The building products must be white.
- The building products must be manufactured in a knitting procedure.

The classification applies to the following end-use applications:

- The building products must be used with a distance of at least 80 mm to any adjacent building materials.
- The building products must be fixed in place mechanically.

#### 4 Limitations

- (1) A combination with other building products, especially insulating materials with other gross density ranges than specified in section 3.3, can have an adverse effect on the reaction to fire so that the classification in section 3.2 is no longer valid. The reaction to fire in combination with other building products or for other gross density ranges or thickness ranges must be tested separately.
- (2) The classification document is not a type approval or product certification and does not replace a verification according to German building law (*Landesbauordnung* [state building code]), which may be required.
- (3) This classification report is valid as long as the product composition or the product design, the raw materials or the production process and the construction regulations or the basis for the evaluation do not change.

The results of the tests refer exclusively to the test items described herein. This document does not replace any certificate of conformity or usability as defined by the building regulations (national/European).

Leipzig, 16 February 2018

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M. Claus  
*Person in charge*