

MFPA Leipzig GmbH

Leipzig Institute for Materials
Research and Testing

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

Business Division III: Structural Fire Protection

Head of Division:
Dipl.-Ing. Michael Juknat
Tel.: +49 (0) 341-6582-134
Fax: +49 (0) 341-6582-197
brandschutz@mfpa-leipzig.de

Work Group 3.1 Fire Behaviour of Building Products

Contact Person:

Dipl.-Ing. (FH) M. Klose
Tel.: +49 (0) 341-6582-173
m.klose@mfpa-leipzig.de

Classification Report No. KB 3.1/23-129-2

5 June 2024

No. Copy 1

This is a translation of the German Classification report KB 3.1/23-129-2.

Client: JUTEC Hitzeschutz und Isoliertechnik GmbH
Am Autobahnkreuz 6-8
26180 Rastede
Deutschland

Order: Reaction to fire classification according to
DIN EN 13501-1:2019-05

Subject matter: Heat protection fabric "JT650G1"

Date of order: 6 February 2024

Person in charge: Dipl.-Ing. (FH) Marcel Klose

This document consists of 4 pages.

In case of doubt the German version shall apply.

This document may only be reproduced in its unabbreviated form. All publication, even in excerpts, requires the prior written permission of MFPA Leipzig GmbH. The legal binding form is the written German form with the original signatures and original stamp of the authorized signatory / signatories. General terms and conditions of MFPA Leipzig GmbH are valid.

1 Details of classified product

1.1 General

According to the client, this building product is not subjected to any harmonised European product standard.

1.2 Product description

The building product "JT650G1" is described below:

According to the client, the building product to be classified is a heat protection fabric consisting of E-glass with a flame-retardant Alufix coating on one side. The building product is used as a protective material that is not permanently installed. The color of the material is grey.

Parameters according to the client's information:

- Thickness of the product: $0,65 \pm 0,1 \text{ mm}$
- Mass per unit area of the product: $660 \text{ g/m}^2 \pm 5 \%$

2 Reports and results in support of this classification

2.1 Reports

Name of laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
MFPA Leipzig GmbH	JUTEC Hitzeschutz und Isoliertechnik GmbH	PB 3.1/23-129-1 from 05.06.2024	DIN EN ISO 1716:2010-11
MFPA Leipzig GmbH	JUTEC Hitzeschutz und Isoliertechnik GmbH	PB 3.1/23-129-1 from 05.06.2024	DIN EN 13823:2020-09

2.2 Results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
DIN EN ISO 1716	Product as a whole Q_{PCS} [MJ/kg]	3	2,7	(-)
DIN EN 13823	FIGRA _{0,2 MJ} [W/s]	3	0	(-)
	FIGRA _{0,4 MJ} [W/s]		0	(-)
	THR _{600s} [MJ]		0,1	(-)
	SMOGR _A [m ² /s ²]		0	(-)
	TSP _{600s} [m ²]		15	(-)
	No lateral flame spread (LFS) to the edge of the sample		(-)	compliant
	No flaming droplet/particles ≤ 10 s		(-)	compliant
	No flaming droplets/particles, > 10 s		(-)	compliant

(-) not applicable.

3 Classification and field of application

3.1 Reference of classification

This classification has been carried out in accordance with DIN EN 13501-1:2019-05.

3.2 Classification

The product "JT650G1"

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 building products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour		Smoke production			Flaming droplets/particles	
A2	-	s	1	,	d	0

i.e. A2-s1, d0

Reaction to fire classification: A2-s1, d0

3.3 Field of application

This classification is valid for the following product parameters:

- The composition of the product to be classified described in section 1.2 must be used according to these specifications. Further requirements under building law for the constructive design are to be considered.
- The building product must have a thickness of $0,65 \pm 0,1$ mm.
- The building product must have a mass per unit area of $660 \text{ g/m}^2 \pm 5 \%$.

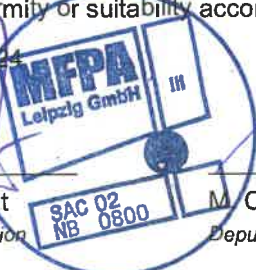
4 Limitations

- (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 fire behaviour 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 exclusively relate to the items tested. This document does not replace a certificate of conformity or suitability according to national and European building codes.

Leipzig, 5 June 2024

Dipl.-Ing. M. Juknat
Head of Business Division



M. Claus
Deputy Head of Laboratory


Dipl.-Ing. (FH) M. Klose
Testing Engineer