Exova Warringtonfire, Frankfurt
Industriepark Höchst, C369
Frankfurt am Main
D-65926
Germany

T : +49 (0) 69 305 3476
F : +49 (0) 69 305 17071
E : EBH@exova.com
W: www.exova.com

Testing. Advising. Assuring.

Classification report No. 2016-2031-K1

issued 08.11.2016

Applicant: Heytex Bramsche GmbH
Heywinkelstr. 1

49565 Bramsche

Order: **Classification of the burning behaviour according to DIN EN 13501-1 (2010-01)**

Date of order **03.11.2016**

Notification number of the test laboratory

NB 1378

Designation of the classificated building product

Sample material designated as H5873 various colours

This classification report lays down the classification of the building product above according to the procedures of DIN EN 13501-1.

This classification report is a translation of the German version 2016-2031-K1 (issued 08.11.2016). In case of doubt only the German version is valid.
This classification report contains 5 pages.

1. Description of the material

1.1 Details of the customer:

Trade name:	H5873
Sample Material:	Tarp
Kind of material:	PVC-P
Kind of manufacturing:	coatet
Thickness:	approx. 0,71 mm
Square weight:	approx. 900 g/m²
Colour:	grey/blue/white (all colours)
Flame retardant used:	Sicadisp ATO Z, Martinal ON 310, Saytex 8010
Manufacturer:	Sica, Omya (Albermarle)
Kind of flame retardant:	Antimontrioxid, Aluminiumhydroxid, Decabrodiphenylethan
Content of Flame-retardant:	Basic stroke 20% deck stroke 16%

For composite (e.g. multi-level) materials:

Kind of surface:	smooth
Material of the surface:	PVC-coating
Square weight of the surface:	630 g/m²
Material of the support layer:	PES-fabric
Square weight of the support layer:	approx. 270 g/m²
Thickness of the support layer:	not measurable
Intended application area:	textile building.

The samples were taken from serial material of the article and have been on their top labeled with article number and test direction.

1.2 At the specimen preparation from the Exova Warringtonfire determined values:

On both sides coatet fabric

Sample no.	colour	Test dirrection	thickness: [mm]	Surface weight [g/m²]
1	white	length	0,69	869
2	white	cross	0,69	869
3	blue	length	0,72	890
4	grey	length	0,71	900
5	blue	cross	0,72	890

Material construction und fixing see pictures below:

picture: edge of the large

fixing of specimensample wing

Test arrangement: Smooth surface, designated from the manufacturer to the burner

1.3 Production and pretreatment of the samples for the tests according to DIN EN 13823

The samples were provided for the tests in the necessary sample dimensions, by the applicant.
The tests were carried out full-laminar without joint design.
A 40 mm ventilated cavity was situated between the reverse face of the specimens and the plasterboard substrate in accordance with DIN EN 13823, Point 4.4.10 (calcium silicate, gross density 800 ± 150 kg/m³, thickness 12 ± 3 mm). All samples were tested in the same assembly.
The samples were conditioned for more then 48 h to constant mass according to DIN EN 13238 (June 2010) prior to the testing.

1.4 Production and pretreatment of the samples for the tests according to DIN EN 11925-2

The samples were provided for the tests in the necessary sample dimensions, by the applicant.
The samples were conditioned for more then 48 h to constant mass according to DIN EN 13238 (June 2010) prior to the testing.

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2. Test reports and test results

2.1 Test reports

Name of test laboratory	Customer	Report to form the basis	Test procedure
Exova Warringtonfire, Frankfurt	Heytex Bramsche GmbH	**2016-2031**	**DIN EN 13823 (SBI)** **EN ISO 11925-2 (30s ignition time surface ignition)**

2.2 Test results

Test procedures	Parameter / classes	Test results average
DIN EN 13823 (SBI)	FIGRA $_{0,2MJ}$ ≤120 [W/s] for class A2 FIGRA $_{0,2MJ}$ ≤ 120 [W/s] for class B	**28,09**
	FIGRA $_{0,4MJ}$ ≤ 250 [W/s] for class C FIGRA $_{0,4MJ}$ ≤ 750 [W/s] for class D	**14,34**
	THR $_{600s}$ [MJ] ≤ 7,5 MJ for class A2 THR $_{600s}$ [MJ] ≤ 7,5 MJ for class B THR $_{600s}$ [MJ] ≤ 15 MJ for class C THR $_{600s}$ [MJ] no requirement for class D	**0,52**
	SMOGRA-index ≤ 30 [m²/s²] für s1 SMOGRA-index ≤ 180 [m²/s²] für s2	**130,92**
	TSP $_{600s}$ ≤ 50 [m²] for s1 TSP $_{600s}$ ≤ 200 [m²] for s2	**111,95**
	LFS < edge of the specimen for class A2 LFS < edge of the specimen for class B LFS < edge of the specimen for class C	fulfilled
	no burning dripping off/dropping within 600s for class d0	fulfilled
DIN EN ISO 11925-2 (surface) 30s 15s	FS ≤ 150 mm within 60 s for class B, C u. D FS ≤ 150 mm within 20 s for class E	fulfilled

Explanations of table standing too above:
Figra$_{02MJ}$: Heat release rate with consideration of the THR of threshold value of 0,2MJ [W/s]
Figra$_{04MJ}$: Heat release rate with consideration of the THR of threshold value of 0,4MJ[W/s]
THR$_{600s}$: Total set free warmth during 600s [MJ]
SMOGRA: Smoke development rate
TSP$_{600s}$: Total set free smoke quantity during 600s [m²]
LFS: lateral propagation of flames

3 Classification and range of application

3.1 Reference

The classification was carried out according to the chapter 11 of DIN EN 13501-1

3.2 Classification

The tested material is ranked into the class **B** related to its behaviour in case of fire.
Concerning the smoke development the tested material is ranked into the class **s2**.
Concerning the dripping off behaviour the tested material is ranked into the class **d0**.

The classification of the tested material reads therefore:

B – s2, d0

3.3 Area of application

The classification is only valid for the in chapter one described material, in the tested colours, thicknesses and surface weights, in ventilated configuration.
The distance to other plane material must be more or equal to 40 mm.

The classification applies to all colours, of the tested material with a same or lower organic content.

4 Reservation

This classification report replaces not a possible required type admittance or type certification of the product.

Frankfurt 08th November 2016

P. Scheinkönig
Tester in charge

Dipl.-Ing. T. Zachäus
Head of rthe business