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Classification report No. 201083-K1

issued 07.12.2020

Applicant:

BBT Brandschutz Technologie GmbH

Lochstrasse 27

CH - 9404 Rorschacherberg

Order:

Classification of the burning behaviour according to

DIN EN 13501-1 (2019-05)

Date of order

24.11.2020

Notification number of the test laboratory

NB 1378

Designation of the classificated building product

Product name:

BBT Anti-Flame 2050 W

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



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This classification report contains 5 pages.



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1. Description of the material

1.1 Details of the customer:

Product name:

BBT Anti-Flame 2050 W

Test page:

Whole part

Sample/material description:

Trade name:

BBT Anti-Flame

Sample material:

paper and textile

Material type:

uncoated papers / absorbent textiles

Type of production:

Textile woven

Total thickness:

Paper: 0.1 mm

Textile: 0.2 mm

Total area weight:

Paper: 70 g/m²

Textile: 200 g/m²

Colour:

Paper: white

Textile: white

Wet application:

Paper is approx. 130 ml./m² Textile: approx. 150 ml/m²

Manufacturer:

BBT Brandschutz Technologie GmbH

Type Flame retardant:

BBT Antiflame 2050 W

Planned field of application

of the product:

decorative items^

indoors



1.2 At the specimen preparation from the Warringtonfire Frankfurt GmbH determined values:

Flame retardant-equipped paper and fabric

Material	Colour:	Total thickness: [mm]	Total surface weight: [g/m²]
Paper with BBT Anti-Flame 2050 W	white	0,2	102
Fabric with BBT Anti-Flame 2050 W	white	0,5	251

Material construction und fixing see pictures below:



picture: edge of the large sample wing



fixing of specimen

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

The material was delivered by the manufacturer for testing and was provided for the tests in the necessary sample dimensions.

The test was carried out on a full scale.

A 80 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 $800 \pm 150 \text{ kg/m}^3$, thickness $12 \pm 3 \text{ mm}$).

The samples were conditioned to constant mass for more then 48h according to DIN EN 13238.

1.4 Production and pretreatment of the samples for the tests according to DIN EN 11925-2 The material was delivered by the manufacturer for testing and was provided for the tests in the necessary sample dimensions.

The samples were conditioned to constant mass for more then 48h according to DIN EN 13238.



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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
Warringtonfire, Frankfurt GmbH	BBT Brandschutz Technologie GmbH	201083	DIN EN 13823 (SBI) EN ISO 11925-2 (30s ignition time surface and edge ignition)

2.2 Test results

Z.Z Test Tesuits			
Test procedures	Parameter / classes	Test results average	
		on paper	on fabric
	FIGRA _{0,2MJ} ≤120 [W/s] for class A2 FIGRA _{0,2MJ} ≤ 120 [W/s] for class B	0,00	0,00
FI FI TI TI TI TI TI TI	FIGRA $_{0,4MJ} \le 250$ [W/s] for class C FIGRA $_{0,4MJ} \le 750$ [W/s] for class D	0,00	0,00
	THR $_{600s}$ [MJ] \leq 7,5 MJ for class A2 THR $_{600s}$ [MJ] \leq 7,5 MJ for class B THR $_{600s}$ [MJ] \leq 15 MJ for class C THR $_{600s}$ [MJ] no requirement for class D	0,327	0,578
	SMOGRA-index \leq 30 [m ² /s ²] für s1 SMOGRA-index \leq 180 [m ² /s ²] für s2	0,00	0,00
	TSP $_{600s}$ ≤ 50 [m ²] for s1 TSP $_{600s}$ ≤ 200 [m ²] for s2	29,23	35,46
	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	fulfilled
	no burning dripping off/dropping within 600s for class d0	fulfilled	fulfilled
	no burning dripping off/dropping > 10 s within 600s for class d1	-	-
	burning dripping off/dropping > 10 s within 600s for class d2		
DIN EN ISO 30s 11925-2	FS ≤ 150 mm within 60 s for class B, C u. D FS ≤ 150 mm within 20 s for class E	fulfilled	fulfilled
	no inflammation of the filter paper within 60 s for class d0	fullfilled	fullfilled
	inflammation of the filter paper within 60 s for class d2	-	-

Explanations of table standing to above:
Figra_{02MJ}: Heat release rate with consideration of the THR of threshold value of 0,2MJ [W/s]
Figra_{02MJ}: Heat release rate with consideration of the THR of threshold value of 0,4MJ[W/s]
FIGRa₀₀₀: 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



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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 incorporated regarding its behaviour in case of fire into the class **B**. Concerning the smoke development the tested material is incorporated into the class **s1**. Concerning the dripping of behaviour the tested material is incorporated into the class **d0**.

The classification of the tested material reads thus:

B - s1, d0

3.3 Area of application

The classification is only valid for the for the material described in chapter one, as a flame retardant for uncoated papers up to 70 g/m^2 and absorbent textiles up to 200 g/m^2 , in the tested colour and thickness, in a free-standing/free-hanging configuration. The distance to other plane material must be $\geq 80 \text{ mm}$.

4 Reservation

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

Frankfurt 07th December 2020

P. Scheinkönig Tester in charge

Technical Lab Leader construction product regulations

