

Classification report

No. 200907-K1

issued 30.09.2020

Applicant: Frescolori.de GmbH
Ferdinand-Braun-Straße 2
46399 Bocholt
Germany

Order: Classification of the burning behaviour according to
DIN EN 13501-1 (2019-05)

Date of order 17.09.2020

Notification number of the test laboratory

NB 1378

Designation of the classified building product

Product name: FRESCOLORI® CARTORA

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 is a translation of the German version 200907-K1 (issued 30.09.2020). 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:

Product name:	FRESCOLORI® CARTORA
<u>Product description:</u>	
Trade name:	FRESCOLORI® CARTORA
Sample material:	Design wallpaper
Material type:	Lime-plastic mixture
Type of production:	Filled
Total thickness:	max. 1,0 mm
Total surface weight:	1,2 kg/m ² (with glue)
Colour:	Grey
Flame retardant:	./.
Manufacturer:	Frescolori.de GmbH
Type of surface:	Design wallpaper
Material of surface:	Lime-plastic mixture
Surface weight of the surface:	1,0 kg/m ²
Thickness of the surface:	1,0 mm
Material, additional layers, components:	Wallpaper glue
Weight per unit area / content of further layers / components:	0,25 kg/m ²
Glue: Kleber	FRESCOLORI®-CARTORA
Manufacturer:	Frescolori.de GmbH
Glue type:	Dispersion^

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

Wallpaper glued on 12,5 mm gypsum board:

Sample no.	Material:	Color:	Thickness: [mm]	Surface weight [g/m ²]
1	FRESCOLORI® CARTORA	grey	1,0	1074,66
2	FRESCOLORI® CARTORA	grey	1,0	1074,66
3	FRESCOLORI® CARTORA	grey	1,0	1074,66

Test arrangement: wallpaper surface to the burner

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 wall paper samples were delivered by the manufacturer and prepared by the test laboratory for the tests.

The wall paper was glued with CA9205 Cartora® Kleber, approx. 240 g/m², on gypsum board. The material was tested without distance to the seal plate to DIN EN 13823, Point 4.4.10 (calcium silicate, gross density 800 ± 150 kg/m³, thickness 12 ± 3 mm).

Before the test, the samples were conditioned for more than 48 h until constant weight according to DIN EN 13238 (February 2015)

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

The wall paper samples were delivered by the manufacturer and prepared by the test laboratory for the tests.

The samples were conditioned to constant mass for more than 48h according to DIN EN 13238 (February 2015)

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	Frescolori.de GmbH	200907	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	47,18	
	FIGRA _{0,4MJ} ≤ 250 [W/s] for class C FIGRA _{0,4MJ} ≤ 750 [W/s] for class D	16,56	
	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	1,04	
	SMOGRA-index ≤ 30 [m ² /s ²] für s1 SMOGRA-index ≤ 180 [m ² /s ²] für s2	6,13	
	TSP _{600s} ≤ 50 [m ²] for s1 TSP _{600s} ≤ 200 [m ²] for s2	37,40	
	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 30s 11925-2 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 to above:

Figra_{0,2MJ}: Heat release rate with consideration of the THR of threshold value of 0,2MJ [W/s]

Figra_{0,4MJ}: 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 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 off 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 wall paper described in chapter one in the tested colour, thickness and surface weight glued on gypsum boards and other mineral substrates of the building classes A1 and A2 according to DIN EN 130501-1. (Raw density $\geq 700 \pm 100 \text{ kg/m}^3$).

4 Reservation

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

Frankfurt 30th September 2020



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Tester in charge



P. Scheinkönig
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