



Testing. Advising. Assuring.

Classification report

No. 2016-2144-K1

issued 08.12.2016

Applicant: SIMONA AG
Teichweg 16
55606 Kirn

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

Date of order 30.11.2016

Notification number of the test laboratory

NB 1378

Designation of the classified building product

Simona Simopor Light

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 2016-2144-K1 (issued 08.12.2016). 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: Simona Simopor Light

Sample material: PVC foamed hard
 Total thickness: 1 mm and 19 mm
 Total surface weight: 0,6 kg/m² and 11,4 kg/m²
 Colour: white
 Test surface : Both sides equal

Intended usage area: Construction, advertising, trade fair construction

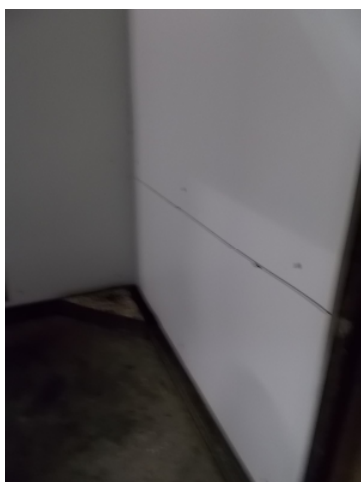
1.2 At the specimen preparation from the Exova Warringtonfire determined values:

Panel material

Sample no.	Kind of material:	Colour:	Total thickness: [mm]	Surface weight: [kg/m ²]
1	Simona Simopor Light	white	1,13	0,67
2	Simona Simopor Light	white	19,63	9,94
3	Simona Simopor Light	white	19,63	9,94
4	Simona Simopor Light	white	19,63	9,94

Red protective film is deducted for the test.

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 samples were provided for the tests in the necessary sample dimensions, by the applicant.

The material was bolted for the test on a calcium silicate plate (12 mm thickness) and was tested without any distance to 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 $12 \pm 3 \text{ mm}$).

All samples were tested in the same assembly.

The samples were conditioned to constant mass at a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ 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 to constant mass for more than 48h at a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ prior to the testing.

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	SIMONA AG	2016-2144	DIN EN 13823 (SBI) EN ISO 11925-2 (30s ignition time surface and edge 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	113,34	
	FIGRA _{0,4MJ} ≤ 250 [W/s] for class C FIGRA _{0,4MJ} ≤ 750 [W/s] for class D	113,21	
	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	6,93	
	SMOGRA-index ≤ 30 [m ² /s ²] für s1 SMOGRA-index ≤ 180 [m ² /s ²] für s2	184,69	
	TSP _{600s} ≤ 50 [m ³] for s1 TSP _{600s} ≤ 200 [m ³] for s2	908,93	
	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 (surface and edge)	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_{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 [m³]

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 **s3**. Concerning the dripping off behaviour the tested material is incorporated into the class **d0**.

The classification of the tested material reads thus:

B – s3, d0

3.3 Area of application

The classification is only valid for the material described in chapter one, in the tested colour, range of thicknesses 1 up to 19 mm and surface weights on substrates from massive mineral surfaces of classes A1 and A2 (raw density $\geq 870 \pm 50 \text{ kg/m}^3$) according to DIN EN 13501-1.

4 Reservation

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

Frankfurt 08th December 2016

A handwritten signature in black ink, appearing to be "P. Scheinkönig".

P. Scheinkönig
Tester in charge

A handwritten signature in black ink, appearing to be "T. Zachäus".

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