

2017

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FACSIMILE

[CERTIFICAZIONE IGNIFUGA EU]

DETTAGLIO APPLICATIVO E CERTIFICAZIONE

SCHEDA TECNICA IGNIFUGO A CERTIFICAZIONE CEE SL 415/30 oppure SL 418/30 SCHICHTLACK (Nuova serie)

Rivestimento ignifugo AQUA SL-415/30 SCHICHTLACK INCOLORE o AQUA SL 418/30 SCHICHTLACK INCOLORE a base acqua.

Prodotto ignifugo trasparente ad alta resistenza chimico fisica per poro aperto e poro chiuso. Si verniciano legni masselli e Mdf ignifugo, Produzione di mobili e rivestimenti di pareti, in generale arredamenti d'interni. Si raccomanda l'uso a temperatura asciutta sopra i 12 c°. applicazione a pennello, rullo o spruzzo

Certificato Ignifugo in classe europea.

Applicazione n.2 strati

Resa: grammi 150 al mq. (applicazione a rullo) Tenere uso grammi 300 al mq.



Testing. Advising. Assuring.

Classification report No. 2014-1071-K1-1

issued 20.01.2014

Applicant: Remmers Baustofftechnik GmbH
Bernhard-Remmers-Str. 13
49624 Lönigen

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

Date of order 09.01.2014

Notification number of the test laboratory

NB 1378

Designation of the classified building product

Exova SL-4

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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The abridged account of a classification report is only allowed with the agreement of the Exova Warringtonfire, Frankfurt.

This classification report is a translation of the German version 2014-1071-K1 (issued 20.01.2014). 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:

Products designation: Aqua SL-415 Finish / Aqua SL-418/30

Trade name: Aqua SL-415/50 / SL 418-30 Finish silk gloss
Aqua SL-415/10 / SL 418/30 Finish matt blunt

Sample material: lacquered MDF board
Type of material: water-based acrylic paint
Method of production: coated
Colour: colourless
Flame retardants: none
Used substrate: Fibrapan, Fa. Finsa, B-s2,d0 nach EN 13501-1
Raw density 780 kg/m³, thickness 19 mm
Intended end use: wood coating in interior design

Coating log:

Test group / product	Aqua SL-415 Finish / SL 418	
number	415.1/418.3	415.2/418.2
shade or gloss	gloss 10 matt blunt	gloss gloss
layer thickness	20 ml/m ² (= 2x 12 ml/m ²)	

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

Painting on wood material, thickness: 19 mm (front surface and edges painted)

sample No.	material	number / gloss level	colour	total thickness	total square weight
1	coating	418.2 / 50	colourless shiny	19 mm	15,0 kg/m ²
2	coating	418.1 / 10	colourless matt	19 mm	14,9 kg/m ²
3	coating	418.1 / 10	colourless matt	19 mm	14,9 kg/m ²
4	coating	418.1 / 10	colourless matt	19 mm	14,9 kg/m ²

Test arrangement: Lacquered surface to the burner

Material construction and fixing see fotos:



picture: edge of the large sample wing



picture: specimen

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

The samples were provided and delivered for the tests in the necessary sample dimensions, by the manufacturer. The test was conducted fully without joint.

The test was conducted without a gap to the plasterboard substrate in accordance with DIN EN 13823. Point 10 (calcium silicate, gross density $800 \pm 150 \text{ kg/m}^3$, thickness $12 \pm 3 \text{ mm}$).

The samples were conditioned for more than 48 h 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 and delivered for the tests in the necessary sample dimensions, by the manufacturer.

The samples were conditioned for more than 48 h 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.

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	Remmers Baustofftechnik GmbH	2014-1071	DIN EN 13823 (SBI) EN ISO 11925-2 (30s ignition time and 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	235,57
	FIGRA _{0,2MJ} ≤ 120 [W/s] for class A	
	FIGRA _{0,4MJ} ≤ 250 [W/s] for class C	235,20
	FIGRA _{0,4MJ} ≤ 750 [W/s] for class B	
	THR _{600s} [MJ] ≤ 5 MJ for class A	7,43
	THR _{600s} [MJ] ≤ 15 MJ for class B	
	THR _{600s} [MJ] ≤ 30 MJ for class C	
	THR _{600s} [MJ] no requirement for class D	
	SMOGRA-index ≤ 30 [m ² /s] for s1	6,30
	SMOGRA-index ≤ 180 [m ² /s] für s2	
	TSP _{600s} ≤ 50 [m ²] for s1	73,53
	TSP _{600s} ≤ 200 [m ²] for s2	
	LFS ≤ edge of the specimen for class A2	fulfilled
	LFS < edge of the specimen for class B	
	LFS < edge of the specimen for class C	
	no flaming dripping off/dropping within 600s for class d0	fulfilled
EN ISO 11925-2	FS ≤ 150 mm within 60 s for class B, C u. D	fulfilled
	FS ≤ 150 mm within 20 s for class E	

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 Heat Release during 600s [MJ]

SMOGRA: Smoke development rate

TSP_{600s}: Total Smoke Production 600s [m²]

LFS: Lateral Flame Spread

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 **C** 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:

C – s2 d0

3.3 Area of application

The classification is only valid for the coatings described in chapter 11, in tested gloss levels, on the wood material Fibrapan, Fa. Finsa, B. 1001-1 (raw density 780 kg/m³, thickness 19 mm).

According to the experience of the test laboratory in the classification even in between gloss levels included.

4 Reservation

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

This classification report is the English translation of the classification report 2014-1071-K1 issued 17.02.2014 (date of signature), which is invalid from now on.

Frankfurt, 26th March 2014

A handwritten signature in blue ink, appearing to read "P. Scheinkönig".

P. Scheinkönig
Tester in charge

A handwritten signature in blue ink, appearing to read "T. Zachäus".

Dipl.-Ing. T. Zachäus
Laboratory Supervisor