

Report of the classification of the reaction to fire behaviour

No. 230009144-3
issued 19 June 2019

This report replaces the report with the same number from 17.12.2013,
which is no longer valid now

English version

Sponsor: Erfurt & Sohn KG
Hugo-Erfurt-Straße 1

D - 42399 Wuppertal

Order: Classification of the reaction to fire behaviour
according to DIN EN 13501-1

Date of order: 13 August 2013

Name of the classified building product:

Decorative wall covering in roll form according to DIN EN 15102 named
„ERFURT-Vlies“

This report determines the classification of the above-mentioned building product in
accordance with the test method given in DIN EN 13501-1.

1 Description of the testing material

Decorative wall covering in roll form according to DIN EN 15102 named „ERFURT-Vlies“. The wall covering consists of a white smooth non-woven fabric made of polyester fibres and cellulose fibres. The wall covering is to be glued onto the substrate with the wallpaper glue „NP Powergranulat plus“ of the company Henkel.

The wall covering is additionally coated with a dispersion paint according to DIN EN 13300 named „Media Star“ of the company Alligator. Maximum wet coating amount of 200 g/m².

Weight per unit area „ERFURT-Vlies“: approx. 85 g/m² to 170 g/m²
Thickness of „ERFURT-Vlies“: approx. 0,18 mm to 0,29 mm
Colour of the uncoated wall covering: white

2 Test reports and test results supporting the classification

2.1 Test reports

Name of the laboratory	Sponsor	Number of the test report	Test method
MPA NRW	Erfurt & Sohn KG Hugo-Erfurt-Straße 1 D - 42399 Wuppertal	230009144-1	DIN EN 13823
MPA NRW	Erfurt & Sohn KG Hugo-Erfurt-Straße 1 D - 42399 Wuppertal	230009144-2	DIN EN ISO 11925-2

2.2 Test results

The following test results form the basis of the classification. In the test reports listed in clause 2.1 the results of further tests are listed. They were carried out in order to determine the most unfavourable variants regarding the reaction to fire.

Test method	Number of tests	Parameter	Test results
DIN EN 13823	3	FIGRA _{0,2 MJ} (W/s)	94
		FIGRA _{0,4 MJ} (W/s)	68
		THR _{600s} (MJ)	2,1
		LFS	< edge
		SMOGRA (m ² /s ²)	0
		TSP _{600s} (m ²)	35
		Duration of production of flaming droplets / particles (s)	0
DIN EN ISO 11925-2 Flame impingement: 30 s	18	F _s (mm) Flaming droplets / particles	≤ 150 no

3 Classification and direct field of application

3.1 Reference

The classification was carried out in accordance with clause 11 and 14.1 of the standard DIN EN 13501-1: 2010.

3.2 Classification

The classification assigned to the material with regard to its reaction to fire is: **B**

The additional classification with regard to smoke production is: **s1**

The additional classification with regard to flaming droplets / particles is: **d0**

This results in the following reaction to fire classification of the material:

Reaction to fire	Smoke production	Flaming droplets / particles
B	s1	d0

i.e. **B – s1, d0**

3.3 Field of application of the product

The classification is solely valid for the building product described in clause 1 – glued with the wallpaper glue „NP Powergranulat plus“ of company Henkel – onto substrates made of gypsum boards or other substrates which are classified regarding the reaction to fire as class A1 and A2-s1, d0 according to DIN EN 13501-1. The minimum thickness of these substrates has to be 12 mm and the minimum density 525 kg/m³.

According to DIN EN 13300 the wall covering must be additionally coated with the dispersion paint „Media Star“ (company Alligator) with a wet coating amount of max. 200 g/m².

Remark:

On basis of available experience the testing laboratory has no concerns to transfer the test results and therefore the above-mentioned classification also to additional coatings with dispersion paints according to DIN EN 13300 (max. wet coating amount of 200 g/m²) which have a lower amount of of organic constituents of 11,7 % and a lower Q_{PCS}-value of 2,11 MJ/kg. Details to the organic content and to the Q_{PCS}-value of the dispersion paint can be seen in the test reports listed in clause 2.1.

4 Restrictions

This classification report does not replace any type approval or certification of the product.

This classification report written in English language is issued additionally to the report written in German language with the report number 230008059-3. In case of doubt the German version is valid solely.


Erwitte, 19.06.2019
 Head of the testing body



Dipl.-Ing. Rademacher



Engineer in charge



Dipl.-Ing. Jung

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