

Report of the classification of the reaction to fire behaviour

No. 231000492-3

of 26.11.2019

English version

Sponsor

Resopal GmbH
Hans-Böckler-Straße 4

64823 Groß-Umstadt

Order

Reaction to fire classification according to DIN EN 13501-1

Date of order:

12.09.2019

Name of the classified building product:

HPL-sheet „RESOPLAN® F“

This report determines the classification of the above-mentioned building product in accordance with the method specified in DIN EN 13501-1 „Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests; German version EN 13501-1:2018“, Edition May 2019.

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This classification report has 4 pages.

1. Description of the building product

HPL-compact sheet (EDF) according to EN 438-6 in different colour variants.

Thickness: ≥ 6 mm

Raw density: ≥ 1350 kg/m³

2. Test reports and test results, which form the basis of the classification

2.1 Test reports

Name of the laboratory	Sponsor	Number of the test reports	Test method
MPA NRW	Resopal GmbH Hans-Böckler-Straße 4 64823 Groß-Umstadt	231000492-1 of 26.11.2019	DIN EN 13823
MPA NRW	Resopal GmbH Hans-Böckler-Straße 4 64823 Groß-Umstadt	231000492-2 of 26.11.2019	DIN EN ISO 11925-2

2.2 Test results

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Continuous parameter average values
DIN EN 13823	3	FIGRA _{0,2} (W/s)	58	--
		FIGRA _{0,4} (W/s)	49	--
		THR _{600s} (MJ)	5.2	--
		LFS < outer edge	--	yes
		SMOGRA (m ² /s)	4	--
		TSP _{600s} (m ²)	46	--
		Flaming droplets / particles (s)	0	--

Notice: the values for SMOGRA and TSP_{600s} were calculated using the alternative calculation method according to DIN EN 13823, note to clause A.6.1.2.

Test method	Number of tests	Parameter	Test results	
			Continuous parameter average values	Discrete parameter
DIN EN ISO 11925-2	6 x F	F _s ≤ 150 mm Flaming droplets / particles	--	yes
	6 x K		--	no

Remark: K = Tested with flame exposure to the edge, F = Tested with flame exposure to the surface

3. Classification and direct field of application

3.1 Reference

The classification was carried out in accordance with clauses 11 and 14.1 of the standard DIN EN 13501-1: 2018.

3.2 Classification

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

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

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

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

Reaction to fire	Smoke production	Flaming drop-lets / particles
B	s1	d0

i.e. **B-s1, d0**

3.3 Field of application of the product

The classification is only valid for the product described in clause 1 in any colour.

According to clause B4 DIN EN 438-7:2005 the classification is also valid for

- sheet thicknesses ≥ 6 mm
- substructures made of usual material (e.g. timber, aluminium, steel)
- when insulation materials are used which are classified as class A2-s1, d0 or without using insulation
- with closed joints (butt-joints) or open joints with a width of up to 8 mm.
- with mechanical attachment to the substructure with distances between the attachments of up to 800 mm at maximum.

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 same report number. In case of doubt, the German version is solely valid.

Erwitte, 26.11.2019

On behalf



Dipl.-Ing. Rademacher

Head of the testing body

