Institut für Brandschutztechnik
und Sicherheitsforschung

CLASSIFICATION OF REACTION TO FIRE

IN ACCORDANCE WITH EN 13501-1:2018

Product name: Wall coverings with natural surfaces of the type „LIGHT“ and „MOOS“

Sponsor:	**Organoid GmbH** Nesselgarten 422/5 6500 Fließ Austria
Prepared by:	IBS - Institut für Brandschutztechnik und Sicherheitsforschung Gesellschaft m.b.H. Petzoldstraße 45 4020 Linz Austria
Notified Body No:	1322 Product standard: EN 15102:2007+A1
Editor:	Roland BECK

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1. Introduction

This classification report defines the classification assigned to Wall coverings with natural surfaces of the type „LIGHT“ and „MOOS“ in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

The products, Wall coverings with natural surfaces of the type „LIGHT“ and „MOOS“ are defined as a „decorative wall covering“.

2.2. Product description

The products, wall coverings with natural surfaces of the type "LIGHT" and "MOOS" are wall coverings consisting of moss, hay, grasses, or flowers, which are applied and pressed onto a flax fleece sprayed with binders.

A more detailed description can be found in the reports referenced in section 3.1.

The following versions in the "LIGHT" category are covered by the results of the fire tests:

Product name	**flax fleece 0,15 kg/m²**	**binders [kg/m²]**	**Material thickness 0,2 mm**	**organic material [kg/m²]**
Almwiese light FVP	X	0,02	X	0,225
Carpe Diem FVP	X	0,095	X	0,100
Violette FVP	X	0,02	X	0,100
Farbklecks FVP	X	0,02	X	0,100
Superbloom FVP	X	0,02	X	0,150

The following versions in the „MOOS“ category are covered by the results of the fire tests:

Product name	**flax fleece 0,15 kg/m²**	**binders: 0,095 kg/m²**	**Material thickness [mm]**	**organic material [kg/m²]**
MOOS ROT	X	X	1,1	1,0
MOOS GRAU FVP	X	X	1	0,804
MOOS HELLGRÜN FVP	X	X	1,2	0,804
MOOS MIX FVP	X	X	1	1,15

3. Reports and results in support of this classification

3.1. Reports

Name of Laboratory[1]	Name of sponsor	Report ref. no.	Test method and date
IBS	Organoid GmbH	325121101-1	EN 13823:2020
IBS	Organoid GmbH	325121101-2	EN ISO 11925-2:2020

[1)] **Name/Adress and Notified Body No::**
- IBS: IBS - Institut für Brandschutztechnik und Sicherheitsforschung Gesellschaft m.b.H., Petzoldstraße 45, 4020 Linz/Austria; Notified Body No: 1322

3.2. Results

From preliminary tests with versions of the category "LIGHT products", the "Carpe Diem" version was identified as the worst case.

Test method and test number	Parameter	No. Tests	Results	
			Continuous parameter - mean (m) (m)	Compliance with parameters/ Limit values from EN 13501-1
EN 13823 325121101-1	$FIGRA_{0,2}$ [W/s]	3	55	compliant B: ≤ 120 W/s
	THR_{600s} [MJ]		1,3	compliant B: ≤ 7,5 W/s
	SMOGRA [m^2/s^2]		0	Compliant s1: ≤ 30 m²/s²
	TSP_{600s} [m^2]		17	Compliant s1: ≤ 50 m²
	Falling droplets		no d0	compliant d0: no burning d1: ≤ 10s burning d2: > 10s burning
	LFS		yes compliant	Compliant < edge of the test speci-men

Test method and test number	Parameter	No. Tests	Results	
			Continuous parameter - mean (m) (m)	Compliance with parameters/ Limit values from EN 13501-1
EN ISO 11925-2 325121101-2 Flaming: 30 s	Fs Edge exposure	6	Max. value 25 mm	Compliant Fs: ≤ 150 mm
	Flaming droplets Ignition of the paper		no	Compliant d0: no ignition of the paper
	Fs Surface exposure	6	Max. value 0 mm	Compliant Fs: ≤ 150 mm
	Flaming droplets Ignition of the paper		no	Compliant d0: no ignition of the paper

From preliminary tests with versions of the category „MOOS“ the „MOOS ROT“ version was identified as the worst case.

Test method and test number	Parameter	No. Tests	Results	
			Continuous parameter - mean (m) (m)	Compliance with parameters/ Limit values from EN 13501-1
EN 13823 325121101-1	$FIGRA_{0,2}$ [W/s]	3	77	compliant B: ≤ 120 W/s
	THR_{600s} [MJ]		2,8	compliant B: ≤ 7,5 W/s
	SMOGRA [m^2/s^2]		2	compliant s1: ≤ 30 m²/s²
	TSP_{600s} [m^2]		27	compliant s1: ≤ 50 m²
	Falling droplets		no d0	compliant d0: no burning d1: ≤ 10s burning d2: > 10s burning
	LFS		yes compliant	compliant < edge of the test specimen
EN ISO 11925-2 325121101-2 Flaming: 30 s	Fs Edge exposure	6	max. value: 0 mm	Compliant Fs: ≤ 150 mm
	Flaming droplets Ignition of the paper		nein	Compliant d0: no ignition of the paper
	Fs Surface exposure	6	max. value: 0 mm	Compliant Fs: ≤ 150 mm
	Flaming droplets Ignition of the paper		no	Compliant d0: no ignition of the paper

4. Classification and field of application

4.1. Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2. Classification

The products, Wall coverings with natural surfaces of the type „LIGHT“ and „MOOS“, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire behavior		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

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

Classification of reaction to fire: B-s1,d0

4.3. Field of application

This classification is valid for the following product parameters:

- Product structure as tested (see test reports in 3.1)
- Maximum application rate of organic material in the "LIGHT Products" category is 0.225 kg/m²
- Maximum application rate of organic material in the "MOOS" category is 1.15 kg/m²
- Maximum application rate of binders in the "LIGHT Products" category is 0.02 kg/m²
- Maximum application rate of binders in the "MOOS" category is 0.25 kg/m²
- Valid only for products as described in the test report and according to the product list under point 2.2
- Horizontal and vertical edge-to-edge joints are permitted
- No overlaps or open edges
- Only with the tested adhesive type (Pufas CC clear wall covering adhesive) and an application rate of up to 0.175 kg/m²

The classification is valid for the following end use applications:

- The product may only be used on substrates corresponding to Euroclasses A1 or A2-s1, d0, as well as gypsum boards according to EN 520, with a minimum thickness of 12 mm and a minimum density of 525 kg/m³.
- The installation must be done using adhesive.
- Suitable for wall and ceiling coverings.
- The building product must not be used horizontally as a floor covering.

5. Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9th of March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

In general, the validity expires if the client makes inadmissible technical changes and exceeds or falls below the compositions on which the classification report is based (see test reports).

Furthermore, the validity expires if the testing and classification standards used are changed or if there are any restrictive provisions in future product standards.

IBS-Institut für Brandschutztechnik und Sicherheitsforschung Gesellschaft m.b.H.
Akkreditierte Prüf-, Inspektions- und Zertifizierungsstelle

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Roland BECK
Technician

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