

TEST REPORT

Order no: 11.02.2021

Signature: SL/Z-096/DIN4102-B1/130a/2021

Police, 02.03.2021

Test methods:

1. DIN 4102-1:1998-05 Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests.
2. EN ISO 9239-1:2010. Reaction to fire tests for floor coverings – Part 1. Determination of the burning behaviour using radiant heat source. Equivalent of DIN 4102-14:2015-09 Fire behaviour of building materials and building components - Part 14: "Brandschacht" tests
3. DIN 53438-2:1984-06 Testing of combustible materials; response to ignition by a small flame; edge ignition
4. DIN 53438-3:1984-06 Testing of combustible materials; response to ignition by a small flame; surface ignition

Content of request: Testing according to DIN 4102-1:1998-05 (floor coverings class B1)

Sponsor: Continental Grafix AG
Lettenstrasse 2
6343 Rotkreuz
Switzerland

Material: MYFloorFilm + MYFloorLaminate

Composition: -

Manufacturer/supplier: Continental Grafix AG
Lettenstrasse 2
6343 Rotkreuz
Switzerland

Assessment: The material fulfils the requirements of the building class B1 according to DIN 4102-1:1998-05

Validity of test report: 02.03.2026

The reprint and the copying: only with the agreement of Continental Grafix AG.

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Report applies only to the sample tested and is not necessarily indicative of the qualities of apparently identical or similar products.

Content of test report: seven pages with signature and numbers.

1. Test results class B1 according to DIN 4102-14: 2015-09 - Brandschacht tests (EN ISO 9239-1:2010)

Table 1.1. critical heat flux at extinguishment CHF

Name of measured quantity	Unit	Test direction	
		length direction	cross direction
Critical heat flux at extinguishment CHF	kW·m ⁻²	>11	-

Name of measured quantity	Unit	Specimen			Average	Standard deviation
		1	2	3		
Mass of the specimen	g	92,8	92,4	92,7	92,6	0,2
Specimen thickness	mm	0,3	0,3	0,3	0,3	0,0
Ignition time	s	591	611	509	570	54
Extinction time	s	724	716	722	721	4
Duration of the test	s	1800	1800	1800	1800	0
Flame spread distance after 10 min	mm	60	10	60	43	29
Flame spread distance after 20 min	mm	60	60	60	60	0
Maximum flame spread distance	mm	60	60	60	60	0
Critical heat flux at extinguishment CHF, requirement $\geq 4,5$	kW·m ⁻²	>11	>11	>11	>11	-

Table 1.2. Time of the movement of the flame front

Distance from exposed of the specimen	Calibration flux levels at the specimen	Time of arrival of the flame front		
		Specimen		
mm	kW·m ⁻²	1	2	3
110	10,9	-	-	-
160	10,2	-	-	-
210	9,5	-	-	-
260	8,4	-	-	-
310	7,3	-	-	-
360	6,2	-	-	-
410	5,1	-	-	-
460	4,2	-	-	-
510	3,6	-	-	-
560	2,9	-	-	-
610	2,6	-	-	-

Table 1.3. Smoke generation

Name of measured quantity	Unit	Specimen			Average	Standard deviation
		1	2	3		
Maximum light attenuation	%	9,9	8,1	11,9	10,0	1,9
Integrated smoke obscuration Sc, requirement ≤ 750	% · min	17	21	24	21	4

Remarks: none.

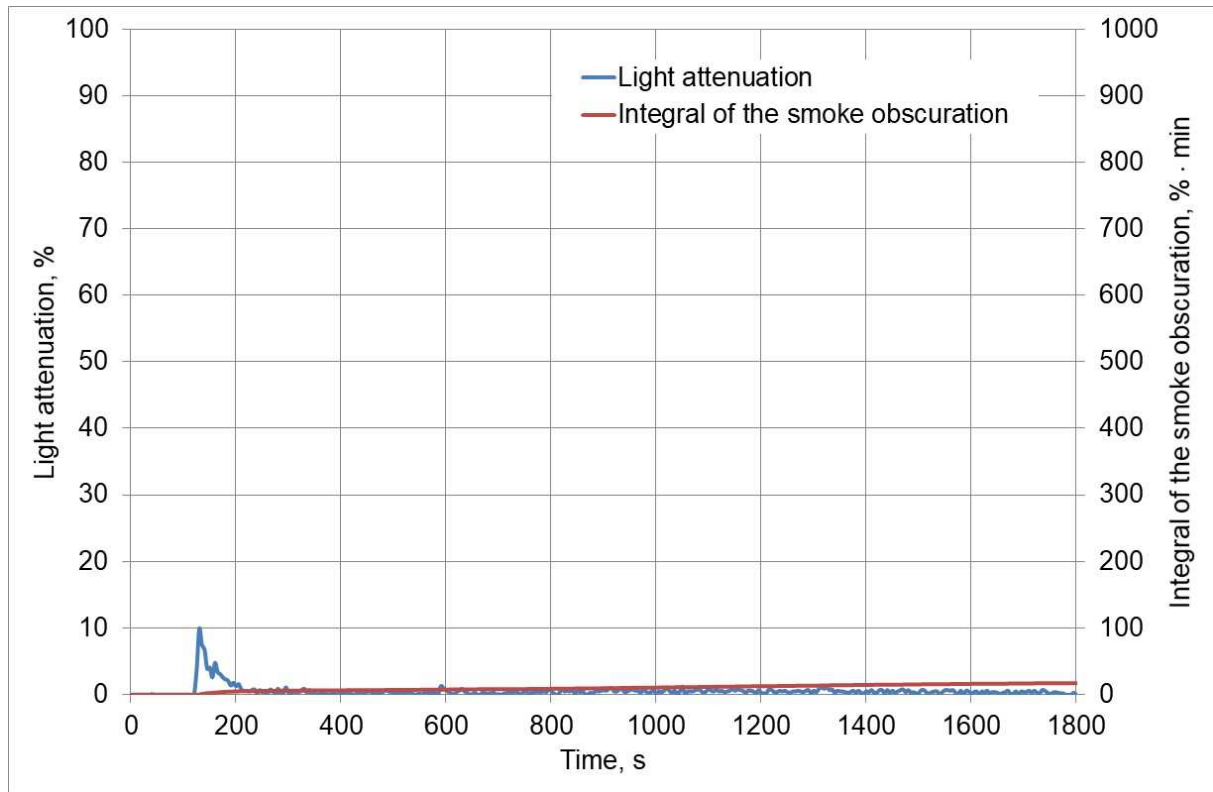


Fig. 1. Smoke generation during the test - specimen 1

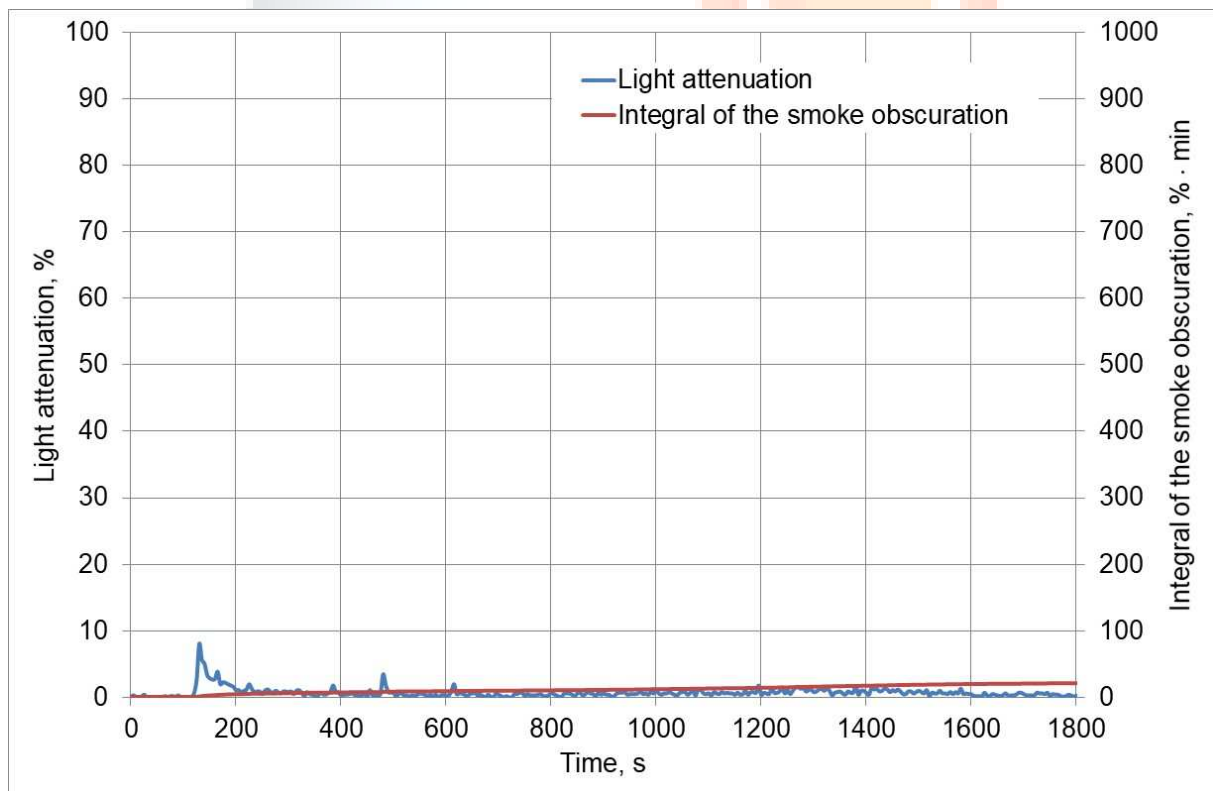


Fig. 2. Smoke generation during the test - specimen 2

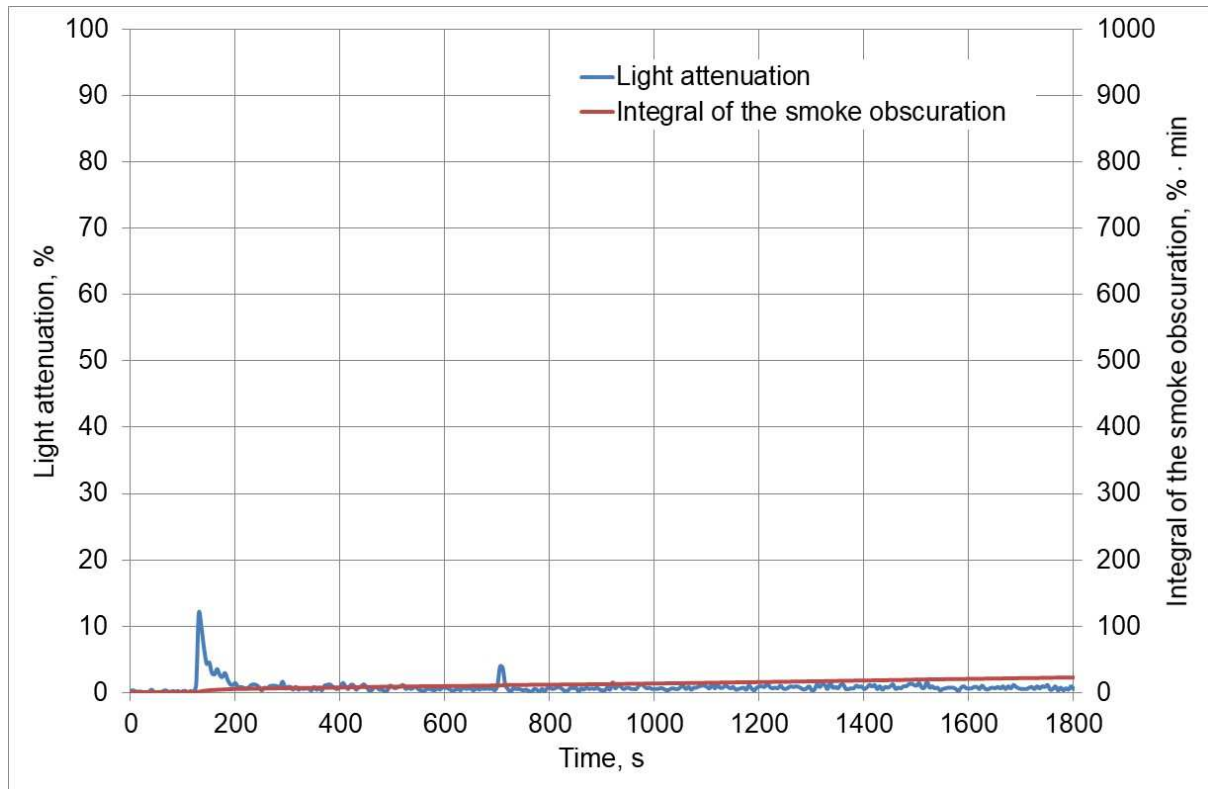


Fig. 3. Smoke generation during the test - specimen 3

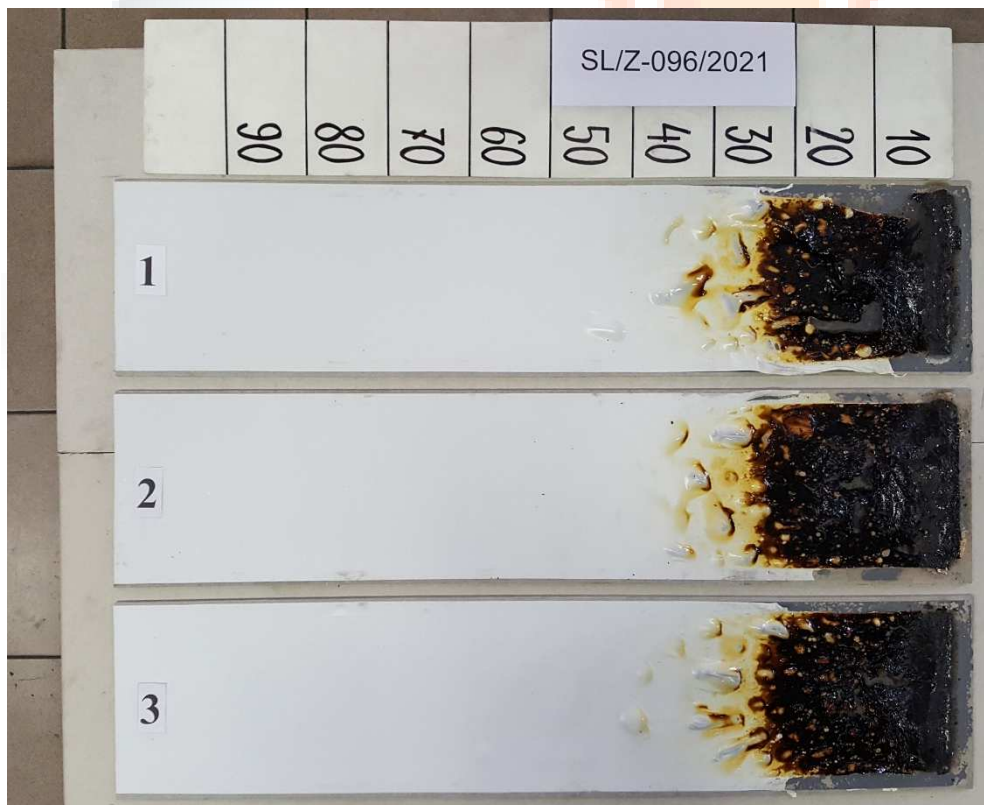


Fig. 4. Appearance of the specimens after the test

2. Test results class B2 according to DIN 4102-1 (DIN 53438-2 and DIN 53438-3: 1984-06)

2.1. Surface ignition

Exposure time of pilot burner flame - 15 s
Time from start of test.

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Specimen thickness	mm	0,3	0,3	0,3	0,3	0,3	-	-	-	-	-
Ignition time	s	4	4	4	4	5	-	-	-	-	-
Flame height 150 mm within 20 s	yes/no	no	no	no	no	no	-	-	-	-	-
Max. flame height Time	cm	4	3	4	5	5	-	-	-	-	-
	s	-	-	-	-	-	-	-	-	-	-
Extinction time	s	15	16	16	16	18	-	-	-	-	-
Flaming particles or droplets	yes/no	no	no	no	no	no	-	-	-	-	-
Ignition of paper	yes/no	no	no	no	no	no	-	-	-	-	-
Smoke development (visual impression)	-	lack of smoke									

Remarks: none.

2.2. Edge ignition

Exposure time of pilot burner flame - 15 s
Time from start of test.

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Specimen thickness	mm	0,3	0,3	0,3	0,3	0,3	-	-	-	-	-
Ignition time	s	1	2	1	2	1	-	-	-	-	-
Flame height 150 mm within 20 s	yes/no	no	no	no	no	no	-	-	-	-	-
Max. flame height Time	cm	2	2	3	2	4	-	-	-	-	-
	s	-	-	-	-	-	-	-	-	-	-
Extinction time	s	16	16	16	16	16	-	-	-	-	-
Flaming particles or droplets	yes/no	no	no	no	no	no	-	-	-	-	-
Ignition of paper	yes/no	no	no	no	no	no	-	-	-	-	-
Smoke development (visual impression)	-	lack of smoke									

Remarks: none



Figure 5. Appearance of the specimens after the small burner test

3. Assessment

The determined test results show that the material fulfils the requirements of the building class B2 according to DIN 4102-1:1998-05.

The determined test results show that the material fulfils the requirements **of the building class B1** according to DIN 4102-1:1998-05.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is not valid any longer. According to DIN 4102-1 the burning behaviour in combination with other materials has to be tested separately.

This report does not determine admission to the use of the product, when tested material is used as a construction product within the meaning of terrestrial technical requirements.

In the process of construction supervision test results can be the basis for a preliminary assessment of the compatibility/suitability.

4. Remaining required information

Date of receipt of samples: 16.02.2021

Sampling: sponsor took and delivered samples.

Description of the test material: self-adhesive white PVC-Folie (0,3 mm) on the carrier paper, total thickness of 0,4 mm and weight per unit area 510 g/m² with the carrier paper and 390 g/m² without the carrier paper. 4 samples dimension of 1050x228 mm, 5 samples dimension of 230x90 mm and 5 samples dimension of 190x90 mm were delivered by the sponsor.

Conditioning of specimens: after storing 14 days before the tests or constant mass at temperature of 23±2 °C and relative humidity of 50±5 % (DIN 50014-23/50-2).

Description of the substrate and fixing to the substrate: material was glued to a standard non-combustible substrate according to EN 13238:2010- fibre cement board with thickness (8 ± 2) mm, with density (1 800 ± 200) kg/m³ and with classification A2_{fl}-s1.

Declarations:

1. The test results relate to the behaviour of the test specimens under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.
2. The information provided on the first page of the report concerning the scope of research and identification of the tested object/objects was provided by the Sponsor.

Operators:

mgr inż. Andrzej Sychta

Signature:



Date and place of test - 19.02 and 02.03.2021, Police