

Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch
Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT

PZ-Hoch-220554

for the proof of Fire behaviour according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

company	Continental Grafix AG Lettenstrasse 2 CH-6343 Rotkreuz
description of samples	perforated self-adhesive PET-film with metallized front, in a nominal thickness of 150 μ
name of the material	„panoRama Silver“
sampling	by the company itself
content of request	Proof of flammability to classify building materials to class B1 “schwerentflammbar” according to DIN 4102, part 1
validity of test report	31.05.2027
result	The examined product meets glued on massive mineral substrates with a density of $\geq 1.500 \text{ kg/m}^3$ and thickness of $\geq 0,6\text{mm}$ the requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998).

This test report includes 4 pages and 3 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- „allgemeine bauaufsichtliche Zulassung“ (general building inspectorate approval) or by
- „allgemeines bauaufsichtliches Prüfzeugnis“ (general building inspectorate certificate) or by
- „Zustimmung im Einzelfall“ (exceptional approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for non-regular building products for the needed proofs of applicability.

This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

1. Description of test material in condition as delivered

PN 35201: „panoRama Silver“

-perforated self-adhesive PET-film, with metallized front, in a nominal thickness of 150µ-

front side: perforated, silver / reverse side: self-adhesive

characteristic values determined by the test laboratory:

whole thickness: about 0,24 mm

whole area weight: about 286 g/m²

thickness of self-adhesive foil: about 0,1 mm

area weight of self-adhesive foil: about 151 g/m²

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

2. Preparation of samples

The samples were kept in climate chamber 23/50 until they reached constant weight.

The self-adhesive film was glued on fiber cement boards with a thickness of about 6 mm, according to DIN 4102-16: 2015-09, point 4.4, a.

3. Arrangement of samples

#5437: flaming in machine direction, glued on fiber cement boards

#5438: flaming in transverse direction, glued on fiber cement boards

4. Date of test

CW 22 in 2022

5. Results

The test has been examined according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	#5437	#5438	---	---	---	
	flamed direction substrate	machine dir. fiber cement board	transv. dir. fiber cement board	---	---	---	
1	<u>Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1</u>	7	7	---	---	---	
2	<u>Maximum flame height above bottom edge of the specimen</u>	60	60				cm
3	<u>Time¹⁾</u>	4:00	4:30	---	---	---	min:s
4	<u>Burn through / melting Time¹⁾</u>	./.	./.	---	---	---	min:s
	<u>Observations on the back side of the specimen</u>						
5	Flames / Glowing Time ¹⁾	./.	./.	./.	./.	./.	min:s
6	Change of colour Time ¹⁾	./.	./.	./.	./.	./.	min:s
7	<u>Falling of burning droplets Start¹⁾</u>	./.	./.	./.	./.	./.	min:s
8	<u>Extent sporadic falling of burning droplets²⁾</u>	./.	./.	./.	./.	./.	
9	<u>continuous falling of burning droplets²⁾</u>	./.	./.	./.	./.	./.	min:s