

Test laboratory for the fire behavior of building materials
Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT

PZ-Hoch-241577-2

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	Antalis 8, rue de Seine F-92100 Boulogne Billancourt
description of samples	fabric consisting of cotton and polyester, with acrylic coating on one side colour: light beige / white
name of the material	„Coala Canvas W”
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	30.11.2029
result	The examined product meets glued with "Methylan Vinyl + Spezial" • on massive mineral substrates with a density of $\geq 1.500 \text{ kg/m}^3$ and a thickness of $\geq 0,6 \text{ mm}$ • on massive mineral substrates with a density of $\geq 650 \text{ kg/m}^3$ and a thickness of $\geq 11 \text{ mm}$ • on non-combustible building boards 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 5 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer 1, 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 40327: „Coala Canvas W” colour: light beige / white

- fabric consisting of cotton and polyester FR, with acrylic coating on one side -
side A: light beige / side B: white, coated side

characteristic values determined by the test laboratory:

area weight: about 341g/m² thickness: about 0,52mm

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

2. Preparation of samples

For tests the material was glued with “Methylan Vinyl + Spezial” on gypsum plasterboards according to DIN EN 520: thickness (12,5±0,5)mm area weight (700±100) kg/m³, class A2-s1,d0 according to EN 13501-1, in compliance with DIN 4102-16: 2020-11, point 5.4,c.

The light beige side was glued on the gypsum plasterboards.

The glue application quantity was about 250g/m².

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

3. Arrangement of samples mounting: glued on gypsum plasterboards

#8399: flaming in warp direction

#8451: flaming in weft direction

#8559: flaming in warp direction

#8560: flaming in warp direction

4. Date of test CW 42, CW 45 and CW 49 in 2024

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

line	S	Measurement	Result with the tested specimen				Dim.
		Test number	#8399	#8451	#8559	#8560	
		<u>flaming direction</u>	warp	weft	warp	warp	
1		<u>Number of specimen arrangement</u> acc. to. DIN 4102/T15, schedule 1	7	7	7	7	
2		<u>Maximum flame height above bottom</u> edge of the specimen	>100	>100	>100	>100	cm
3		<u>Time</u> ¹⁾	1:02	0:54	0:55	0:53	min:s
4		<u>Burn through / melting</u> <u>Time</u> ¹⁾	./.	./.	./.	./.	min:s
		<u>Observations on the back side of the</u> <u>specimen</u>					
5		Flames / Glowing <u>Time</u> ¹⁾	---	---	---	---	min:s
6		Change of colour <u>Time</u> ¹⁾	./.	./.	./.	./.	min:s
7		<u>Falling of burning droplets</u> <u>Start</u> ¹⁾	./.	./.	./.	./.	min:s
8		<u>Extent</u> sporadic falling of burning droplets ²⁾	---	---	---	---	
9		continuous falling of burning droplets ²⁾	---	---	---	---	min:s

line no	Measurement	Result with the tested specimen				Dim.
	Test number	#8399	#8451	#8559	#8560	
	<u>flaming direction</u>	warp	weft	warp	warp	
10	<u>Falling of burning droplets</u>	./.	./.	./.	./.	min:s
	Start ¹⁾					
	Extent				./.	
11	sporadic falling of burning droplets ²⁾	---	---	---		
12	continuous falling of burning droplets ²⁾	---	---	---	./.	
13	<u>After flame time at the bottom of the sieve (max.)</u>	./.	./.	./.	./.	min:s
14	<u>Impairment of the burner by dropping or falling material:</u>					
	Time ¹⁾	./.	./.	./.	./.	min:s
15	Final occurrence of burning at the specimen ¹⁾	2:25	10:00	10:00	10:00	min:s
16	Time of eventually end of test ¹⁾	./.	./.	./.	./.	min:s
17	<u>After flame after end of test</u>					min:s
	Time ¹⁾	./.	./.	./.	./.	
	Number of specimen	./.	./.	./.	./.	
	Front side of specimen ²⁾	./.	./.	./.	./.	
	Back side of specimen ²⁾	./.	./.	./.	./.	
20	Back side of specimen ²⁾	./.	./.	./.	./.	cm
21	flame length	./.	./.	./.	./.	
22	<u>Afterglow after end of test</u>	./.	./.	./.	./.	min:s
	Time ¹⁾	./.	./.	./.	./.	
	Number of specimen	./.	./.	./.	./.	
	<u>Place of appearance</u>	./.	./.	./.	./.	
	Lower half of the specimen ²⁾	./.	./.	./.	./.	
	Upper half of the specimen ²⁾	./.	./.	./.	./.	
	Front side of specimen ²⁾	./.	./.	./.	./.	
	Back side of specimen ²⁾	./.	./.	./.	./.	
28	<u>Density of smoke</u>					% * min % * min
	≤ 400 % * min	43	46	42	50	
	> 400 % * min ⁴⁾	./.	./.	./.	./.	
30	Diagram: incl. no.	1	2	3	4	
31	<u>Residual lengths: individual value³⁾</u>					
	Specimen 1	36	37	36	36	cm
	Specimen 2	36	38	35	37	cm
	Specimen 3	34	36	30	40	cm
	Specimen 4	37	38	34	36	cm
32	<u>Average value, individual test ³⁾</u>	36	37	34	37	
33	<u>Photo of specimen in enclosure no.</u>	1	2	3	4	
34	<u>Flue gas temperature</u>	121	137	182	134	°C
35	Maximum of average value Time ¹⁾	01:07	01:01	3:47	0:58	min:s
36	Diagram: incl. no.	1	2	3	4	
37	Remarks: - none -					

¹⁾ indication of times: from the begin of testing procedure ²⁾ checked off if applicable

³⁾ indication of carrier/foam layer separated in case of fire-proofing agents

4) very strong development of smoke

6. Explanations concerning the testing procedure

-none-

7. Summary of results and additional establishments to Fire Behaviour

lineo.	measurement	Result with the tested specimen				dimension
	test-no.	#8399 warp	#8451 weft	#8559 warp	#8560 warp	
1	residual length	36	37	34	37	cm
2	max. smoke temperature	121	137	182	134	°C
3	density of smoke - integral	43	46	42	50	%min
4	remarks: -none-					

According to DIN 4102, part 1, "schwerentflammbare" (hardly flammable) building materials must meet the requirements of class B2.

Pursuant to additional tests in the ignitability apparatus this can be determined (appendix 5).

8. Special remarks

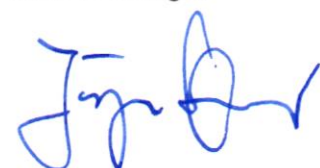
- This report is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or grounds etc. the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions.
- This test report is not valid, as soon as the fabric is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, in particular private proprietary rights.
- For legal interests only the German original version is relevant.
- In General Building Inspectorates procedures this test report can be based for
 - regular building materials for the required proof of accordance
 - for not regular building materials for the required proof of applicability

9. Validity

This test report is valid until the mentioned date on page 1. The test report becomes invalid in case the standards on which the tests are based are changed.

Fladungen, 16.09.2025

clerk in charge:



(Dipl.-Ing.(FH) Jürgen Hammer)



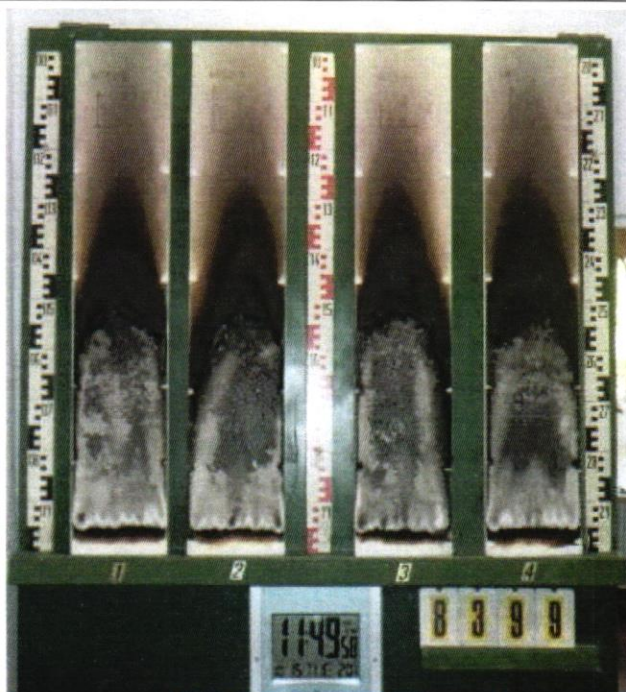
Head of the test laboratory:



(Dipl.-Ing.(FH) Andreas Hoch)

----- End of report -----

„Brandschacht“-test #8399

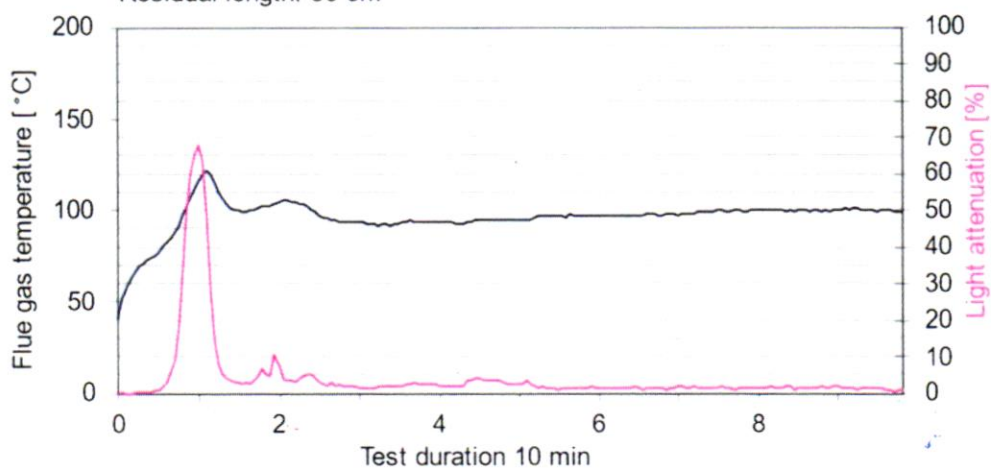


measurement

#8399, PN40327: B+K

Max. flue temperature: 121 °C, Smoke density integral: 43%min

Residual length: 36 cm



„Brandschacht“-test #8451

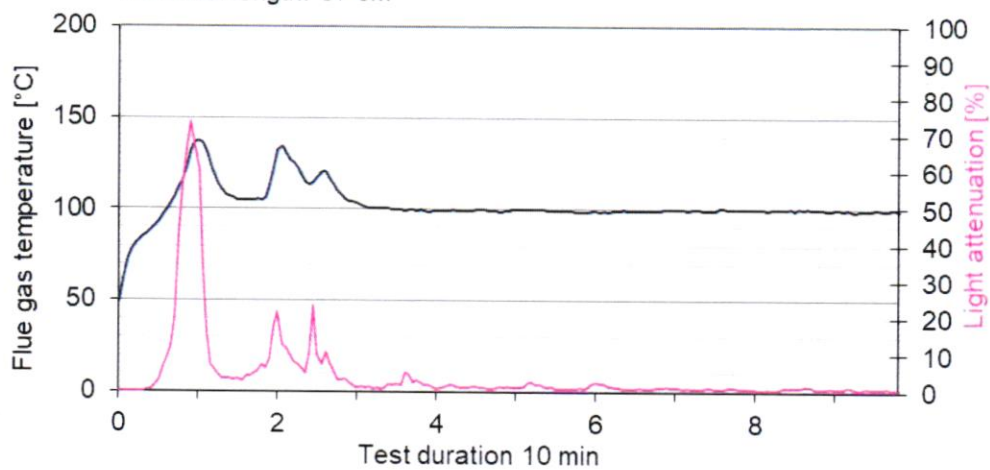


measurement

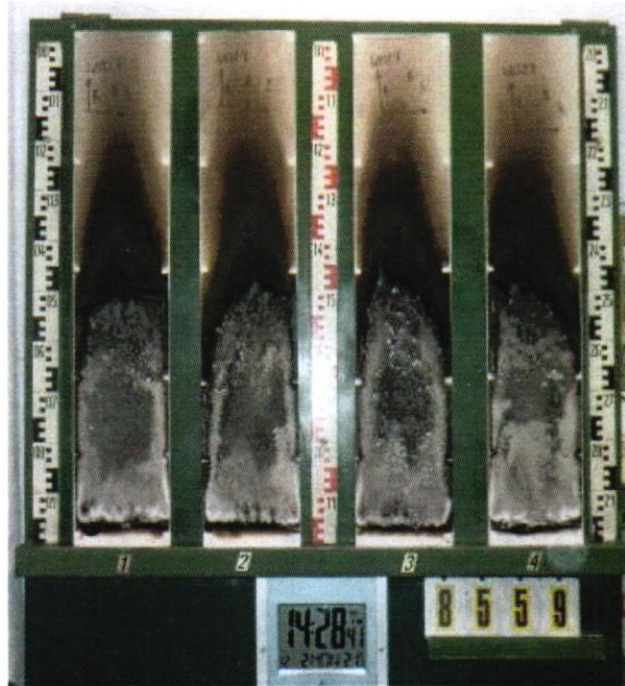
#8451, PN40327: B+S

Max. flue temperature: 137°C, Smoke density integral: 46%min

Residual length: 37 cm



„Brandschacht“-test #8559

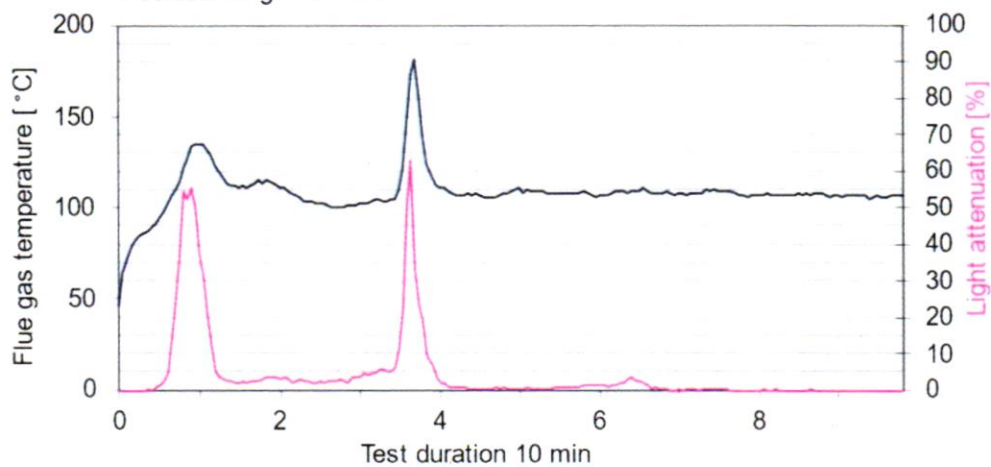


measurement

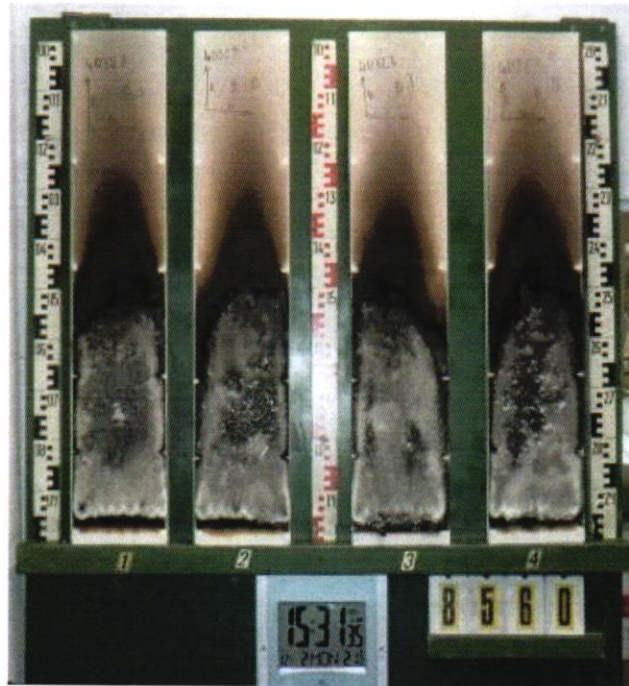
#8559, PN40327: B+K

Max. flue temperature: 182 °C, Smoke density integral: 42%min

Residual length: 34 cm



„Brandschacht“-test #8560

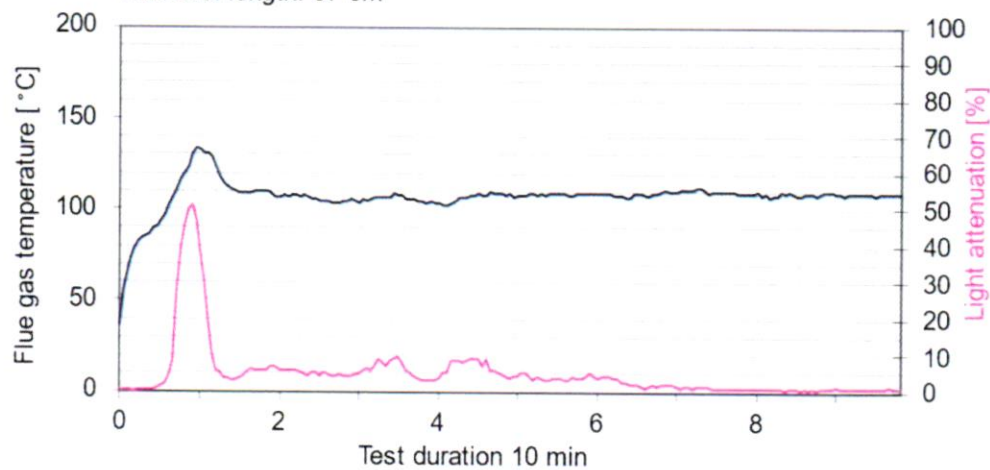


measurement

#8560, PN40327: B+K

Max. flue temperature: 134 °C, Smoke density integral: 50%min

Residual length: 37 cm



**Test for normal flammability
classifying B2 according to DIN 4102**

1. Description of test material in condition as delivered look at page 2

2. Preparation of samples

Out of the material there have been cut samples for the ignitability apparatus.
The samples were kept in a climate 23/50 until they reached constant weight.

3. Arrangement of samples:

-glued on gypsum plasterboards-

4. Date of test CW 48 in 2024

5. Results

PN 40327:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition ¹⁾	1	1	1	1	1	1	3	3	--	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.	./.	./.	./.	./.	./.	--	--	--	--	S
max. flame height	3	3	3	3	3	3	2	2	--	--	--	--	cm
time	15	15	15	15	15	15	15	15	--	--	--	--	
self cessation of the flames end of afterflame ¹⁾	15	15	15	15	15	15	15	15	--	--	--	--	s
end of glowing ¹⁾	15	17	15	15	15	15	./.	./.	--	--	--	--	s
flames were extinguished after ¹⁾	./.	./.	./.	./.	./.	./.	./.	./.	--	--	--	--	s
smoke development (visual)	little						little						
dropping of burning material during 20 s ¹⁾	./.	./.	./.	./.	./.	./.	./.	./.	--	--	--	--	s
Appearance after test: burned out till max. height 6 cm x width 2 cm													

¹⁾ time mentioned from the beginning of the test ²⁾ during 20 Sec -/- no appearance -- no information
wa: warp direction / we: weft direction

6. Remarks and explanations to the testing procedure - none –

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no burning dripping material.

----- End of enclosures -----