

TEST REPORT

PZ-Hoch-260202-2

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	ALPHATEX Route du gîte F-76490 Saint Wandrille Rançon
description of samples	net consisting of HDPE in mesh size of 19mm x 19mm colour 1: black / red colour 2: black / black
name of the material	„Alphatex PE“ mesh size: 19mm x 19mm
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	31.01.2031
result	The examined product meets in a mesh size of • 19mm x 19mm • with threads in black / red and black / black the requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998), suspended freely or with distance of > 40 mm to same or other plain materials.

This test report includes 4 pages and 4 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 10, there is no need for a general building supervisory test report.

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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 43240: "Alphatex" 19mm x 19mm black / red

-net consisting of HDPE with black and red threads-
mesh size: about 19mm x 19mm

PN 43971: "Alphatex" 19mm x 19mm black / black

-net consisting of HDPE with black threads-

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

mesh size: about 19mm x 19mm

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.

3. Arrangement of samples mounting: freely suspended

#1335: flaming in 2-layer black / red

#1702:	flaming in 2-layer	black / black
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4. Date of test CW 05 and CW 19 in 2026

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

No.	Measurement	Result with the tested specimen					Dim.
		#1335	#1335	---	---	---	
1	Test number	#1335	#1335	---	---	---	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	---	---	---	
2	Maximum flame height above bottom edge of the specimen	30	30	---	---	---	cm
3	Time ¹⁾	0:02	0:02	---	---	---	min:s
4	Burn through / melting Time ¹⁾	0:04	0:03	---	---	---	min:s
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾	---	---	./. ./.	./. ./.	./. ./.	min:s
6	Change of color Time ¹⁾	---	---	./. ./.	./. ./.	./. ./.	min:s
7	Falling of burning droplets Start ¹⁾	./. ./.	./. ./.	./. ./.	./. ./.	./. ./.	min:s
8	Extent sporadic falling of burning droplets ²⁾	---	---	./. ./.	./. ./.	./. ./.	min:s
9	continuous falling of burning droplets ²⁾	---	---	./. ./.	./. ./.	./. ./.	min:s

No.	Measurement	Result with the tested specimen					Dim.
	Test number	#1335	#1335	---	---	---	
10	<u>Falling of burning droplets</u> Start ¹⁾	./.	./.	./.	./.	./.	min:s
11	Extent				./.	./.	
12	sporadic falling of burning droplets ²⁾ continuous falling of burning droplets ²⁾	---	---	---	./.	./.	
13	<u>Afterflame 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⁾	0:20	0:10	./.	./.	./.	min:s
16	Time of eventually end of test ¹⁾	./.	./.	./.	./.	./.	min:s
17	<u>Afterflame after end of test</u> Time ¹⁾	./.	./.	./.	./.	./.	min:s
18	Number of specimen	./.	./.	./.	./.	./.	
19	Front side of specimen ²⁾	./.	./.	./.	./.	./.	
20	Back side of specimen ²⁾	./.	./.	./.	./.	./.	
21	flame length	./.	./.	./.	./.	./.	
22	<u>Afterglow after end of test</u> Time ¹⁾	./.	./.	./.	./.	./.	min:s
23	Number of specimen	./.	./.	./.	./.	./.	
	<u>Place of appearance</u>	./.	./.	./.	./.	./.	
24	Lower half of the specimen ²⁾	./.	./.	./.	./.	./.	
25	Upper half of the specimen ²⁾	./.	./.	./.	./.	./.	
26	Front side of specimen ²⁾	./.	./.	./.	./.	./.	
27	Back side of specimen ²⁾	./.	./.	./.	./.	./.	
28	<u>Density of smoke</u> ≤ 400 % * min	1	1	---	---	---	% * min % * min
29	> 400 % * min ⁴⁾	./.	./.	./.	./.	./.	
30	Diagram: encl. no.	1	2	---	---	---	
31	<u>Residual lengths: individual value³⁾</u> Specimen 1 Specimen 2 Specimen 3 Specimen 4	50 45 40 49	49 40 47 61	---	---	---	cm cm cm cm
32	<u>Average value, individual test ³⁾</u>	46	49	---	---	---	
33	<u>Photo of specimen in enclosure no.</u>	1	2	---	---	---	
34	<u>Flue gas temperature</u>	125	128	---	---	---	°C min:s
35	Maximum of average value Time ¹⁾	09:45	09:57	---	---	---	
36	Diagram: encl. no.	1	2	---	---	---	
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

There were no additional tests proceeded because of the residual length of $\geq$ than 45cm.

7. Summary of results and additional establishments to Fire Behaviour

line no.	measurement	Result with the tested specimen					dimension
	test-no.	#1335	#1702	---	---	---	
1	residual length	46	49	---	---	---	cm
2	max. smoke temperature	125	128	---	---	---	°C
3	density of smoke - integral	1	1	--	--	--	%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 3 & 4).

8. Special remarks

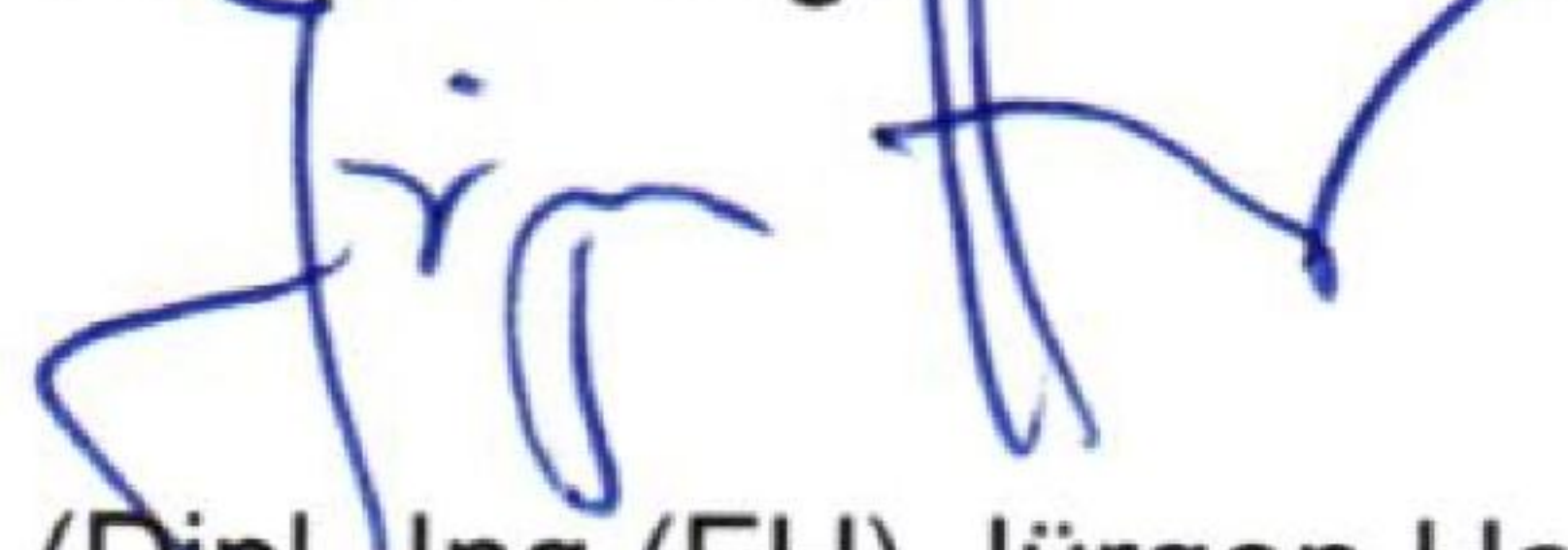
- This report is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or grounds etc. the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions.
- This test report is no substitute 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
- No measurement uncertainties of the results were taken into account in the assessment.

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, 05/05.2026

clerk in charge:



(Dipl.-Ing.(FH) Jürgen Hammer)



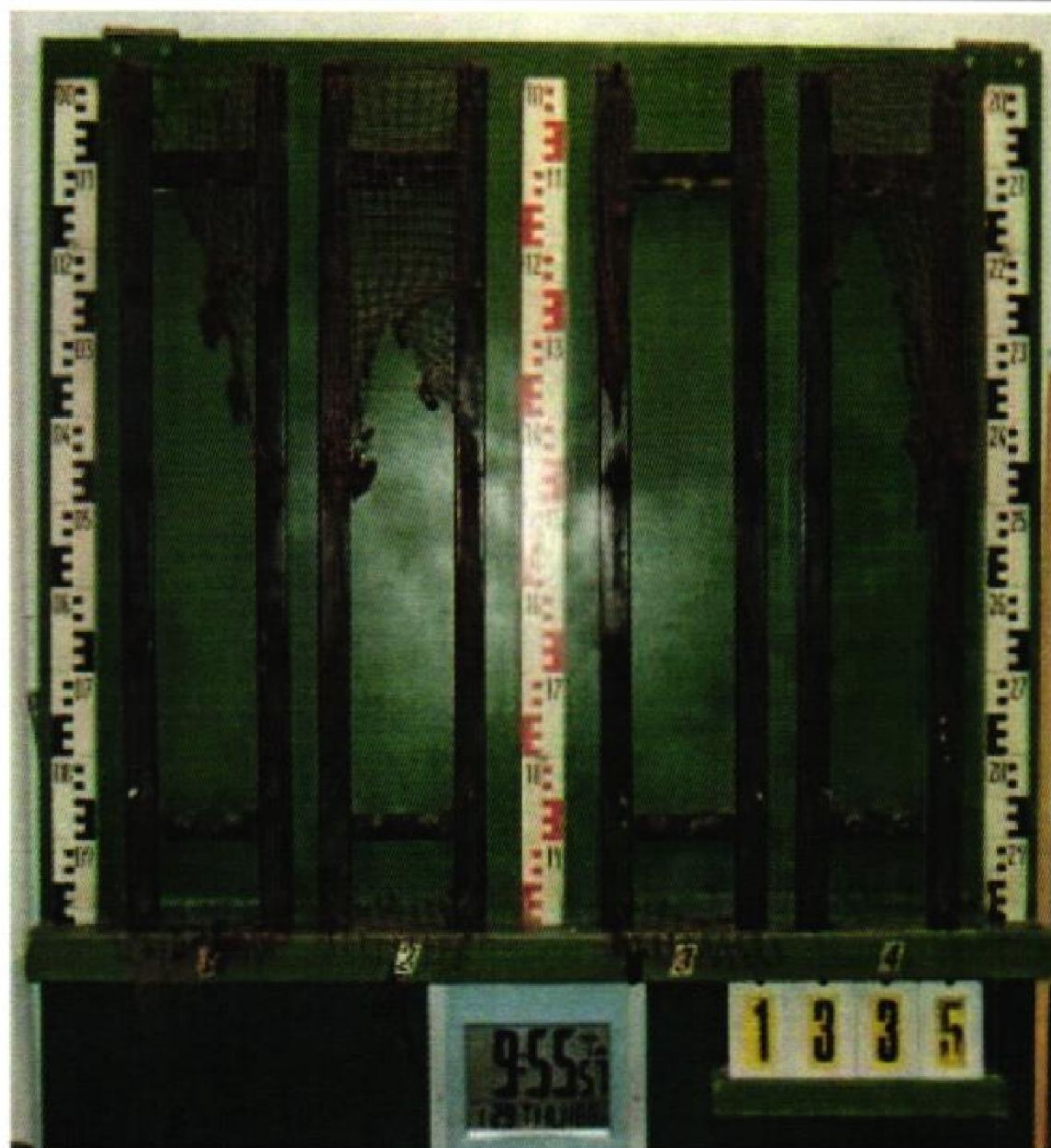
Head of the test laboratory:



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

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

„Brandschacht“-test #1335

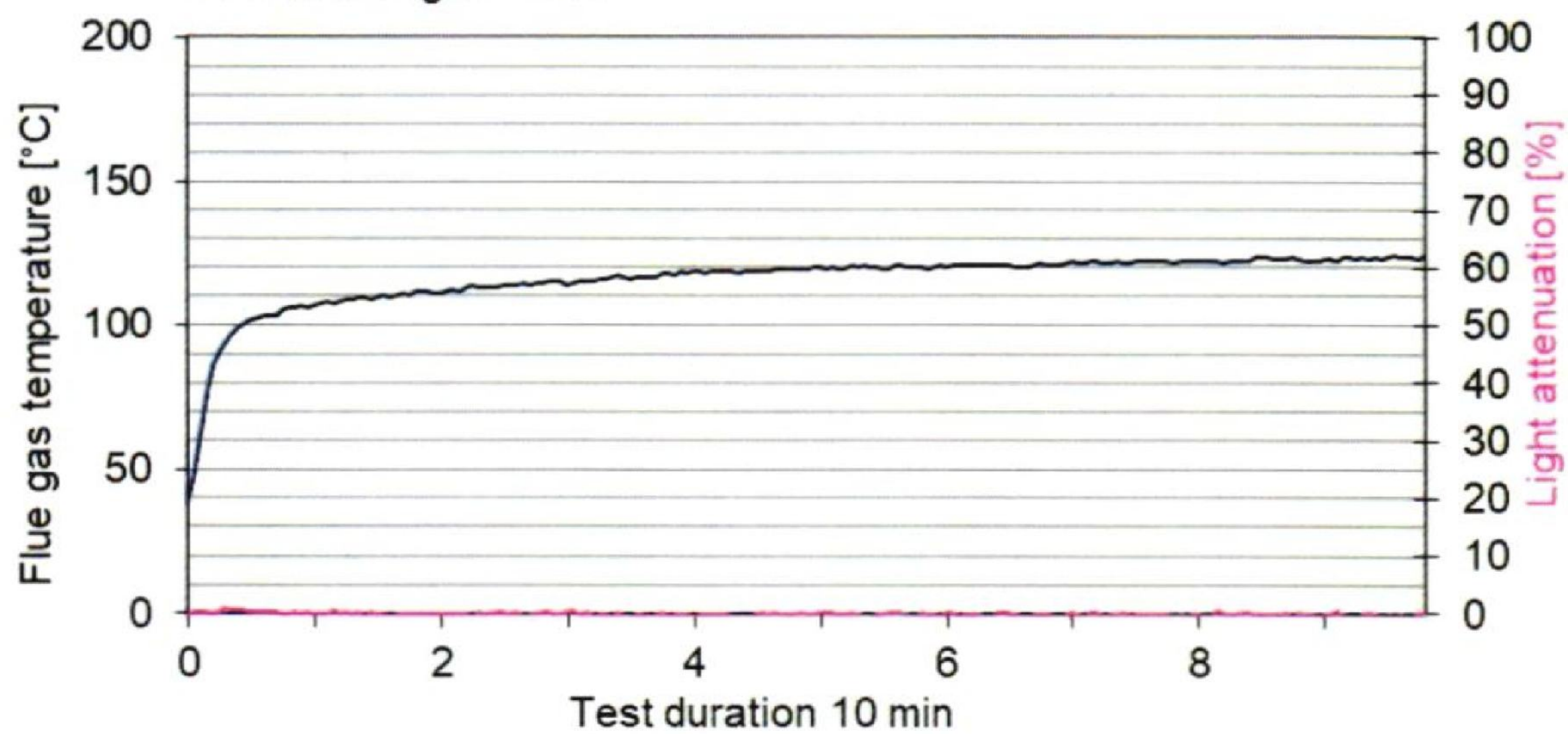


measurement

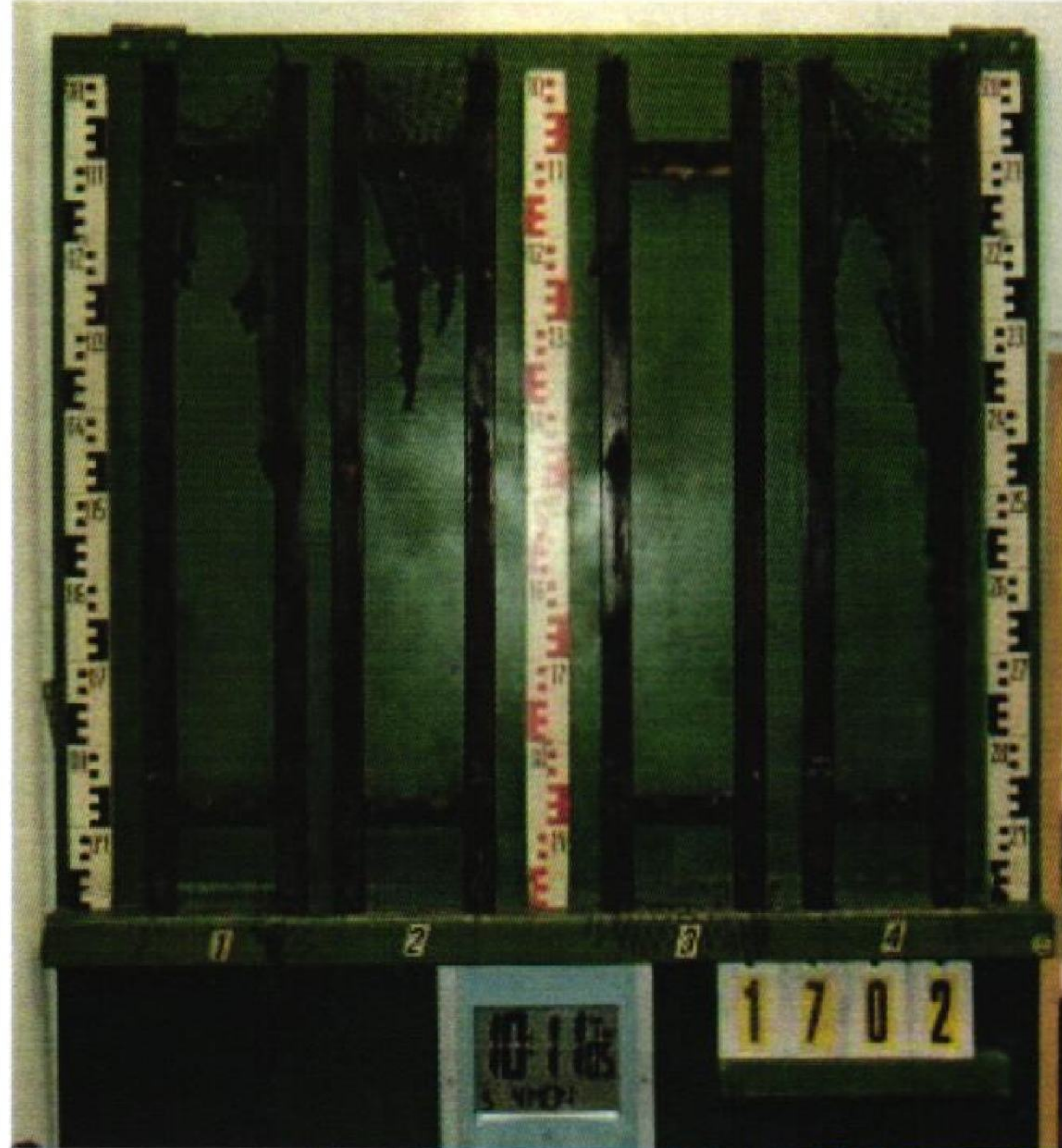
#1335, PN43240: 2-lagig

Max. flue temperature: 125°C, Smoke density integral: 1%min

Residual length: 46 cm



„Brandschacht“-test #1702

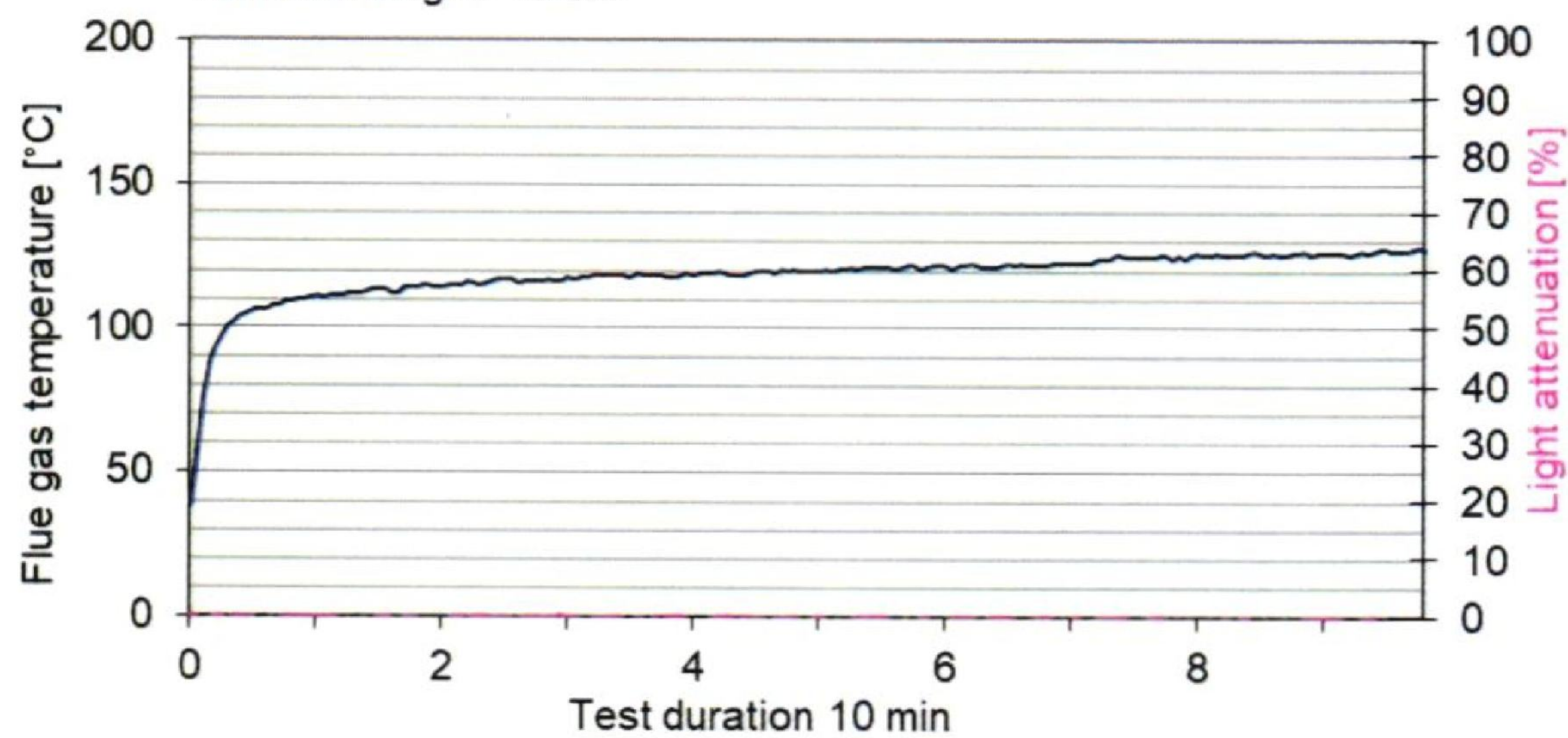


measurement

#1702, PN43971: 2-layer

Max. flue temperature: 128°C, Smoke density integral: 1%/min

Residual length: 49 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 -freely suspended- / in 2-layer

Flaming in machine direction and in transverse direction

4. Date of test CW 03 and CW 18 in 2026

5. Results

PN 43240 flaming in machine direction	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	--	--	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
max. flame height	5	5	3	3	4	--	5	--	--	--	--	--	cm
time	10	8	3	3	3	--	8	--	--	--	--	--	
self cessation of the flames end of afterflame ¹⁾	16	9	4	4	15	--	10	--	--	--	--	--	s
end of glowing ¹⁾	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	
smoke development (visual)	moderate						little						
dropping of burning material during 20 s ¹⁾	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 8 cm x width 2 cm													

additional tests	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	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
max. flame height	3	5	5	--	--	--	4	3	3	--	--	--	cm
time	4	9	8	--	--	--	6	3	3	--	--	--	
self cessation of the flames end of afterflame ¹⁾	6	10	9	--	--	--	14	4	4	--	--	--	s
end of glowing ¹⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
smoke development (visual)	moderate						little						
dropping of burning material during 20 s ¹⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
Appearance after test: burned out till max. height 8 cm x width 2 cm													

¹⁾ time mentioned from the beginning of the test ²⁾ during 20 Sec -/- no appearance -- no information

PN 43971: additional tests	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	--	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	--	--	--	--	-/-	-/-	--	--	--	--	s
max. flame height	4	4	--	--	--	--	6	6	--	--	--	--	cm
time	5	3	--	--	--	--	9	12	--	--	--	--	
self cessation of the flames end of afterflame ¹⁾	12	4	--	--	--	--	10	13	--	--	--	--	s
end of glowing ¹⁾	-/-	-/-	--	--	--	--	-/-	-/-	--	--	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	--	--	--	--	-/-	-/-	--	--	--	--	s
smoke development (visual)	very little						very little						
dropping of burning material during 20 s ¹⁾	-/-	-/-	--	--	--	--	-/-	-/-	--	--	--	--	s
Appearance after test: burned out till max. height 10 cm x width 1,5 cm													

¹⁾ time mentioned from the beginning of the test ²⁾ during 20 Sec -/- no appearance -- no information

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 -----