

Fire Test Certificate - Specimen

Fabric: Embrace

Type: B1

J&C Joel 
Inspiration in every performance

Prüfinstitut Hoch

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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-250028

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

description of samples -fabric consisting of 100% polyester, with blackout coating-
colour: beige / white

name of the material

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 31.12.2029

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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

Prüf-Institut
member of 
notified body no.: 1508

By the DAkkS according to DIN EN ISO/IEC 17025 accredited test laboratory.
The accreditation is valid for the testing methods specified in the certificate.



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page 3 of 4 of the test report
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line no.	Measurement	Result with the tested specimen				Dim.
		#8613	#8614	#8615	---	
	Test number	#8613	#8614	#8615	---	
	flaming direction / side	warp / A	warp / B	weft / B	---	
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⁾	1:15	0:50	0:40	. / .	min:s
16	Time of eventually end of test ¹⁾	. / .	. / .	. / .	. / .	min:s
17	<u>After flame 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	. / .	. / .	. / .	. / .	cm
22	<u>Afterglow after end of test</u> Time ¹⁾	. / .	. / .	. / .	. / .	min:s
23	Number of specimen	. / .	. / .	. / .	. / .	
24	<u>Place of appearance</u> 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	40	43	22	---	% * min
29	> 400 % * min ⁴⁾	. / .	. / .	. / .	. / .	% * min
30	Diagram: encl. no.	1	2	3	---	
31	<u>Residual lengths: individual value³⁾</u> Specimen 1	62	60	61	---	cm
	Specimen 2	64	61	57	---	cm
	Specimen 3	60	62	60	---	cm
	Specimen 4	55	61	58	---	cm
32	<u>Average value, individual test ³⁾</u>	60	61	59	---	
33	Photo of specimen in enclosure no.	1	2	3	---	
34	<u>Flue gas temperature</u>	118	115	113	---	°C
35	Maximum of average value Time ¹⁾	09:58	10:00	09:58	---	min:s
36	Diagram: encl. no.	1	2	3	---	
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

FD-04-FB01-001-Rev 01

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6. Explanations concerning the testing procedure

There were no additional tests proceeded because of the residual length of more than 45 cm.

7. Summary of results and additional establishments to Fire Behaviour

lineno.	measurement test-no.	Result with the tested specimen				dimen sion
		#8613 warp / A	#8614 warp / B	#8615 weft / B	---	
1	residual length	60	61	59	---	cm
2	max. smoke temperature	118	115	113	---	°C
3	density of smoke - integral	40	43	22	---	%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 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, washing or cleaning with chemicals.
- 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, 15.01.2025

clerk in charge:

(Dipl.-Ing. (FH) Jürgen Hammer)



Head of the test laboratory:

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

PZ-Hoch-250028 eng Rev01

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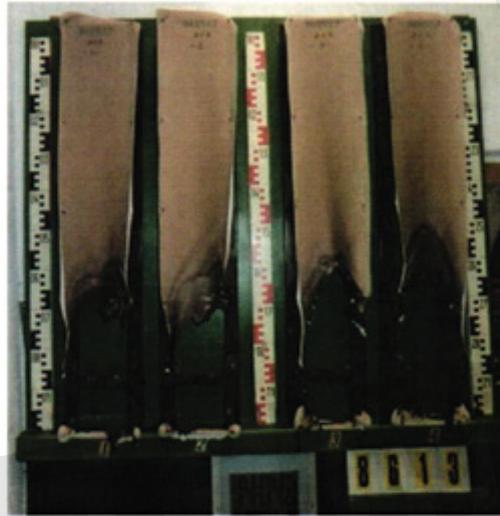
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enclosure 1 test report
PZ-Hoch-250028

„Brandschacht“-test #8613

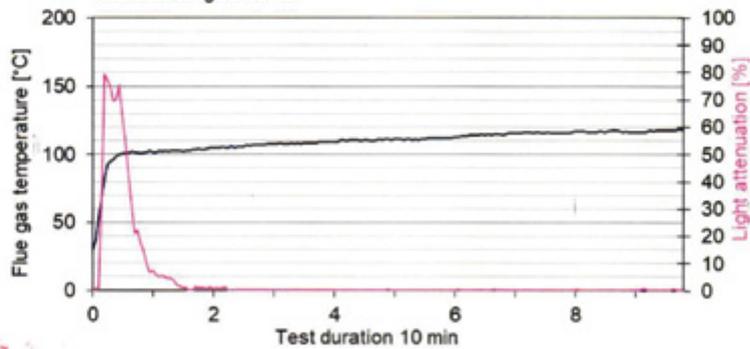


measurement

#8613, PN40507: A+K

Max. flue temperature: 118°C, Smoke density integral: 40%min

Residual length: 60 cm



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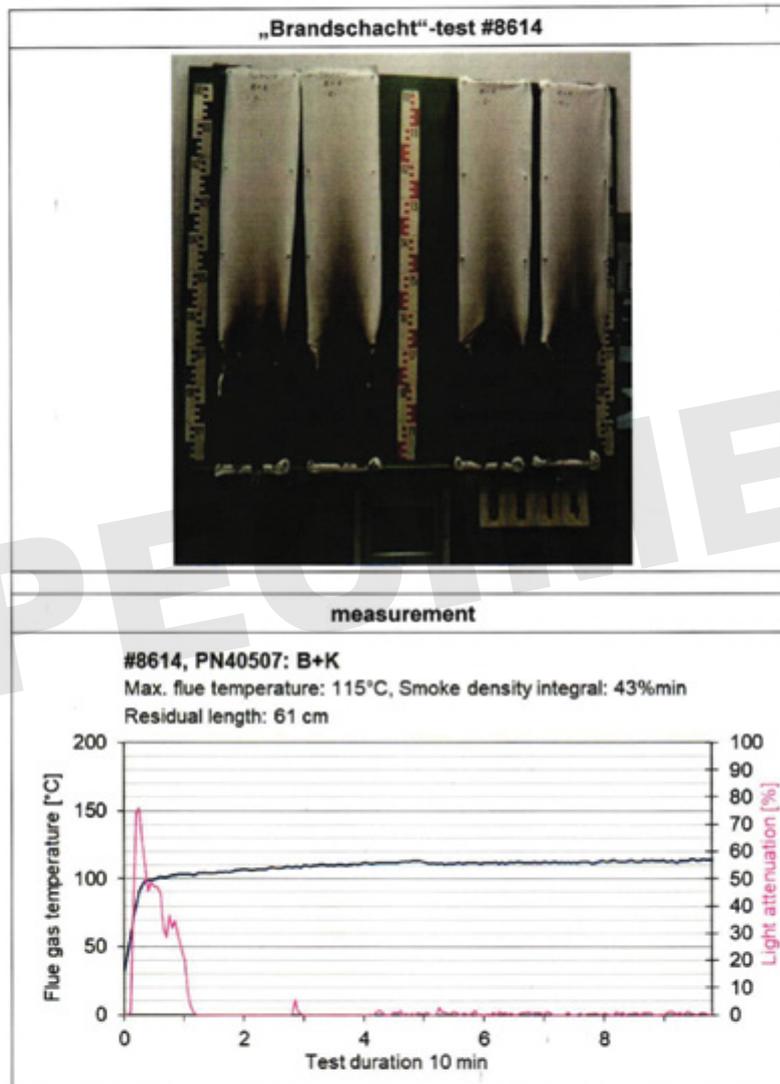
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enclosure 2 test report
PZ-Hoch-250028



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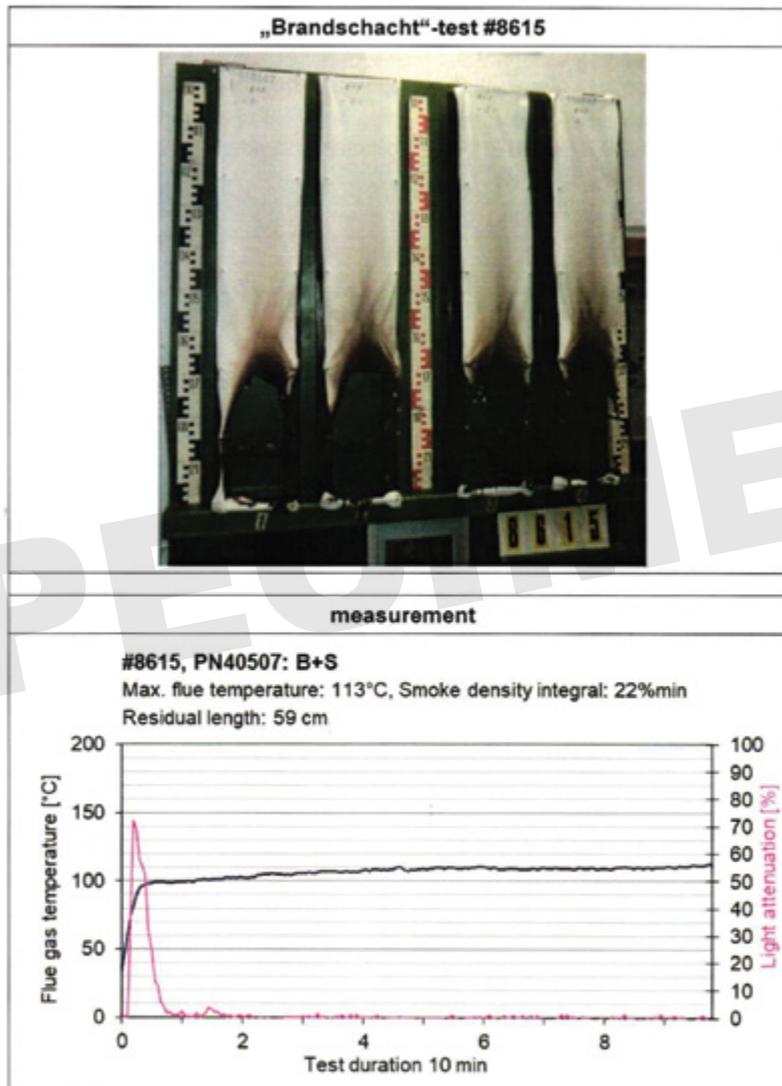
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enclosure 3 test report
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enclosure 4 to test report
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**Test for normal flammability
classifying B2 according to DIN 4102**

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-

Flaming in warp and weft direction / Flaming side A and side B

4. Date of test CW 50 in 2024

5. Results

PN 40507: flaming side B in warp samples no.	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
ignition ¹⁾	1	1	1	1	1	--	4	--	--	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	J.	J.	J.	J.	J.	--	J.	--	--	--	--	--	S
max. flame height	13	11	12	13	13	--	12	--	--	--	--	--	cm
time	12	12	13	14	14	--	15	--	--	--	--	--	
self cessation of the flames end of afterflame ¹⁾	15	15	15	15	15	--	15	--	--	--	--	--	s
end of glowing ¹⁾	22	27	28	32	26	--	18	--	--	--	--	--	s
flames were extinguished after ¹⁾ smoke development (visual)	J.	J.	J.	J.	J.	--	J.	--	--	--	--	--	s
dropping of burning material during 20 s ¹⁾	J.	J.	J.	J.	J.	--	J.	--	--	--	--	--	s
Appearance after test: burned out till max. height 15cm x width 5cm													

PN 40507: additional tests samples no.	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
arrangement of samples side / direction	A/K	A/S	B/S	--	--	--	A/K	A/S	B/S	--	--	--	
ignition ¹⁾	1	1	1	--	--	--	5	5	4	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	J.	J.	J.	--	--	--	J.	J.	J.	--	--	--	s
max. flame height	13	13	13	--	--	--	10	10	11	--	--	--	cm
time	12	12	12	--	--	--	15	15	15	--	--	--	
self cessation of the flames end of afterflame ¹⁾	15	15	15	--	--	--	15	27	15	--	--	--	s
end of glowing ¹⁾	28	27	20	--	--	--	J.	J.	18	--	--	--	s
flames were extinguished after ¹⁾ smoke development (visual)	J.	J.	J.	--	--	--	J.	J.	J.	--	--	--	s
dropping of burning material during 20 s ¹⁾	J.	J.	J.	--	--	--	J.	J.	J.	--	--	--	s
Appearance after test: burned out till max. height 15 cm x width 5 cm													

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

K: warp / S: weft

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.

PN 04-1505 eng Rev01