Fire Test Certificate - Specimen

Fabric: Wide Width Canvas 4.2
Type: B1

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Inspiration in every performance

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Hoch Fladungen

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-250301

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

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description of samples	fabric consisting of Cotton, in 3 different colours
name of the material	**„CO Bühnennessel"**
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	28.02.2030
result	**The examined product meets in any colour 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 5 pages and 8 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

member of egolf
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.

DAkkS Deutsche Akkreditierungsstelle D-PL-11005-01-00

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1. **Description of test material in condition as delivered**

PN 40999: **"CO Bühnennessel"** colour: white
-fabric consisting of Cotton-
There is no difference between side A and side B.
characteristic values determined by the test laboratory:
area weight: about 338g/m² thickness: about 0,57 mm

PN 41000: **"CO Bühnennessel"** colour: beige
-fabric consisting of Cotton-
There is no difference between side A and side B.
characteristic values determined by the test laboratory:
area weight: about 361g/m² thickness: about 0,66 mm

PN 41001: **"CO Bühnennessel"** colour: black
-fabric consisting of Cotton-
There is no difference between side A and side B.
characteristic values determined by the test laboratory:
area weight: about 327g/m² thickness: about 0,56 mm

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

#8853	flaming side A in warp direction	black
#8889	flaming side B in weft direction	black
#8944	flaming side A in warp direction	black
#8945	flaming side A in warp direction	black
#8891	flaming side A in warp direction	beige
#8892	flaming side A in warp direction	white

4. **Date of test** CW 10 and 11 in 2025

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

line no.	Measurement	Result with the tested specimen						Dim.
	Test number	#8853	#8889	#8944	#8945	#8891	#8891	
	flamed direction flamed side	warp A	weft B	warp A	warp A	warp A	warp A	
	colour of fabric	Black				beige	white	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	1	1	
2	Maximum flame height above bottom edge of the specimen	>100	>100	>100	>100	70	50	cm
3	Time [1]	0:20	0:11	0:25	0:21	0:20	0:07	min:s
4	Burn through / melting Time [1]	0:26	0:15	0:35	0:24	0:10	0:23	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
	Extent		./.	./.	./.	./.	./.	
8	sporatic falling of burning droplets [2]	---						
9	continuous falling of burning droplets [2]	---	./.	./.	./.	./.	./.	min:s
10	Falling of burning droplets Start [1]	./.	./.	./.	./.	./.	./.	min:s
	Extent		./.	./.	./.	./.	./.	
11	sporatic falling of burning droplets [2]	---						
12	continuous falling of burning droplets[2]	---	./.	./.	./.	./.	./.	
13	Afterflame time at the bottom of the sieve (max.)	./.	./.	./.	./.	./.	./.	min:s
14	Impairment of the burner by dropping or falling material: Time [1]	./.	./.	./.	./.	./.	./.	min:s
15	Final occurance of burning at the specimen [1]	0:50	0:50	5:00	0:55	0:40	0:23	min:s
16	Time of eventually end of test [1]	./.	./	./.	./.	./.	./.	min:s
17	Afterflame after end of test Time [1]	./.	./.	./.	./.	./.	./.	min:s
18	Number of specimen	./.	./.	./.	./.	./.	./.	
19	Front side of specimen [2]	./.	./.	./.	./.	./.	./.	
20	Back side of specimen [2]	./.	./.	./.	./.	./.	./.	
21	flame length	./.	./.	./.	./.	./.	./.	cm

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Type: B1

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line no.	Measurement	Result with the tested specimen						Dim.
	Test number	#8853	#8889	#8944	#8945	#8891	#8891	
	flamed direction flamed side	warp A	weft B	warp A	warp A	warp A	warp A	
	Afterglow after end of test	./.	./.	./.	./.	./.	./.	
22	Time [1]	./.	./.	./.	./.	./.	./.	min:s
23	Number of specimen	./.	./.	./.	./.	./.	./.	
	Place of appearance	./.	./.	./.	./.	./.	./.	
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]	./.	./.	./.	./.	./.	./.	
	Density of smoke							
28	≤ 400 % * min	9	10	15	12	8	8	% * min
29	> 400 % * min[4]	./.	./.	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3	4	5	6	
	Residual lengths: individual value[3]							
31	Specimen 1	27	27	1	24	43	47	cm
	Specimen 2	21	32	21	17	46	45	cm
	Specimen 3	12	23	11	19	45	43	cm
	Specimen 4	13	20	26	18	45	48	cm
32	Average value, individual test [3]	**18**	**26**	**15**	**20**	**45**	**46**	
33	Photo of specimen in enclosure no.	1	2	3	4	5	6	
34	Flue gas temperature	162	134	136	134	123	120	°C
35	Maximum of average value Time [1]	0:25	0:21	0:24	0:24	0:21	0:21	min:s
36	Diagram: encl. no.	1	2	3	4	5	6	
37	Remarks: - none -							

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[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

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6. Explanations concerning the testing procedure

-none-

7. Summary of results and additional establishments to Fire Behaviour

line no.	measurement	Result with the tested specimen						dimension
	test-no.	#8853	#8889	#8944	#8945	#8891	#8891	
	flamed direction flamed side	warp A	weft B	warp A	warp A	warp A	warp A	
	colour of fabric	black				beige	white	
1	residual length	18	26	15	20	45	46	cm
2	max. smoke temperature	162	134	136	134	123	120	°C
3	density of smoke - integral	9	10	15	12	8	8	%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 7 & 8).

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.
- Additional base for validity for all colours is test report PZ-Hoch-250347.
- 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, im 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, 25.03.2025

clerk in charge:

(Dipl.-Ing.(FH) Jürgen Hammer)

ANERKANNTE PRÜF-, ÜBERWACHUNGS- UND ZERTIFIZIERUNGSSTELLE Hoch Fladungen

Head of the test laboratory:

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

End of report

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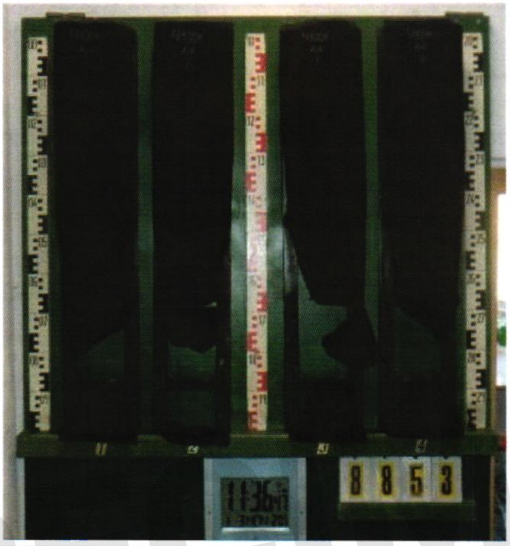
Fabric: Wide Width Canvas 4.2
Type: B1

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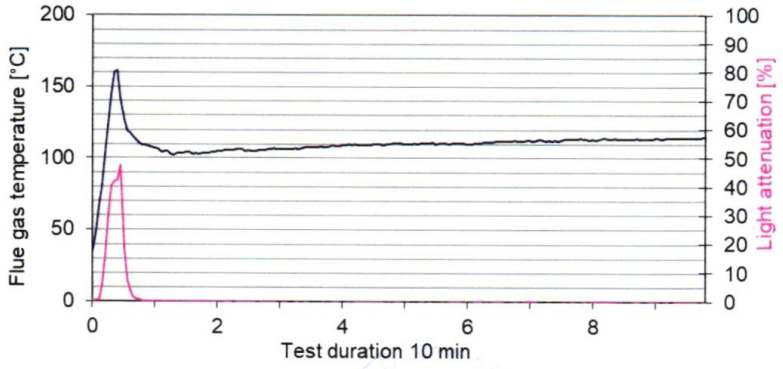
enclosure 1 to test report
PZ-Hoch-250301

„Brandschacht"-test #8853



measurement

#8853, PN41001: A + K
Max. flue temperature: 162°C, Smoke density integral: 9%min
Residual length: 18 cm



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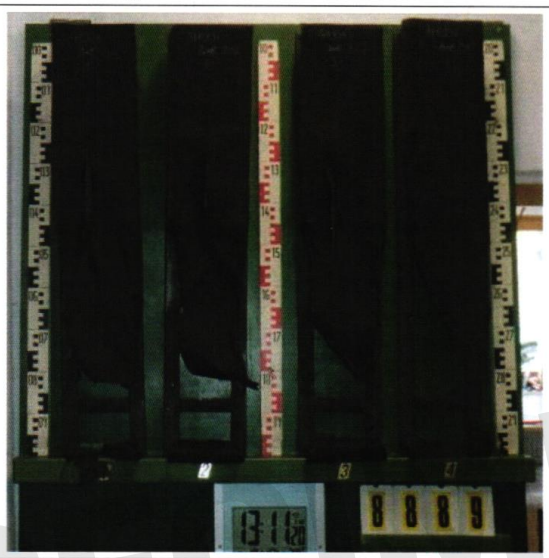
Fabric: Wide Width Canvas 4.2
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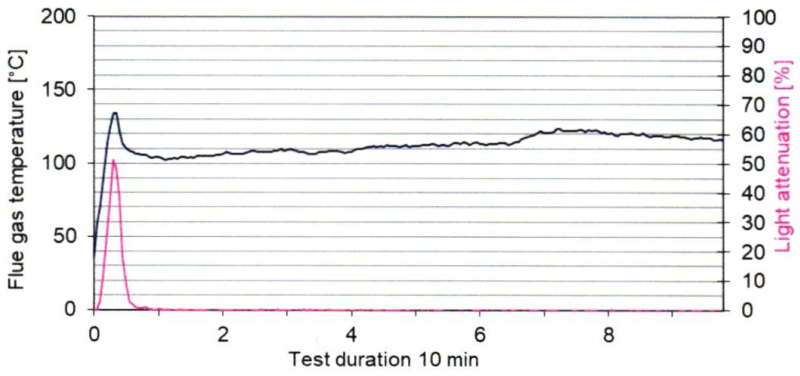
enclosure 2 to test report
PZ-Hoch-250301

„Brandschacht"-test #8889



measurement

#8889, PN41001: B+S
Max. flue temperature: 134°C, Smoke density integral: 10%min
Residual length: 26 cm



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Type: B1

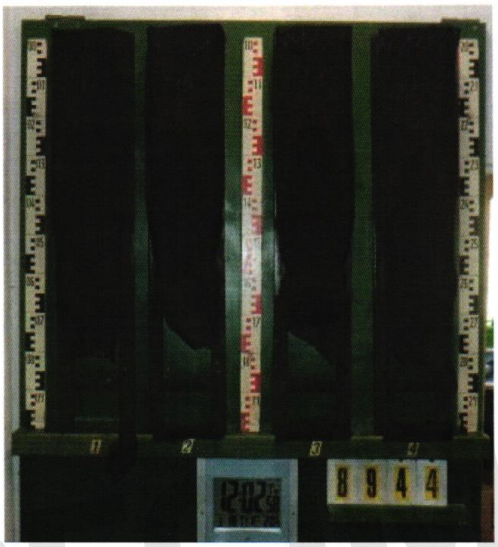
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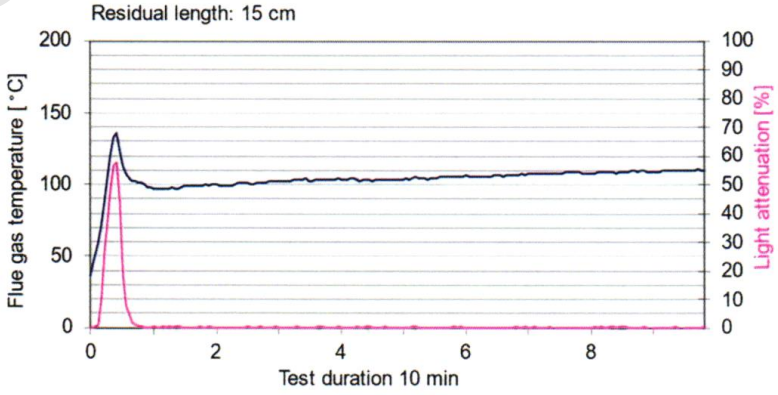
enclosure 3 to test report
PZ-Hoch-250301

„Brandschacht"-test #8944



measurement

#8944, PN41001: A+K
Max. flue temperature: 136 °C, Smoke density integral: 15%min
Residual length: 15 cm



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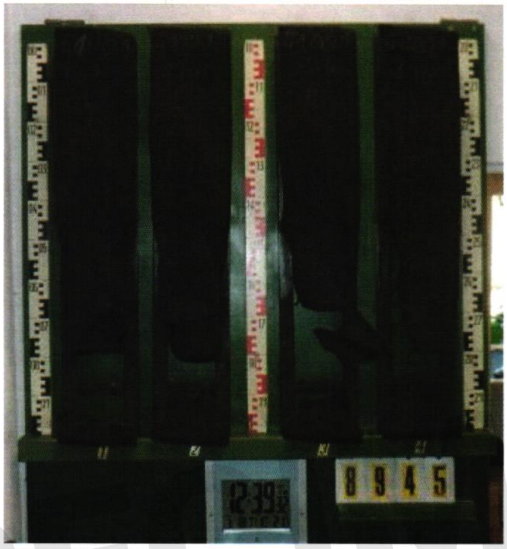
Fabric: Wide Width Canvas 4.2
Type: B1

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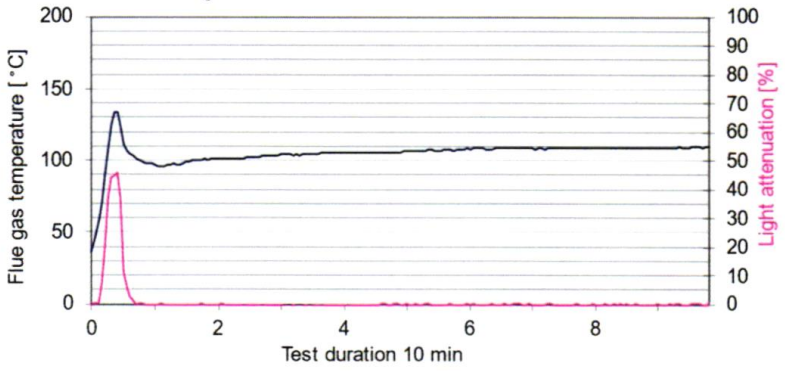
enclosure 4 to test report
PZ-Hoch-250301

„Brandschacht"-test #8945



measurement

#8945, PN41001: A+K
Max. flue temperature: 134 °C, Smoke density integral: 12%min
Residual length: 20 cm



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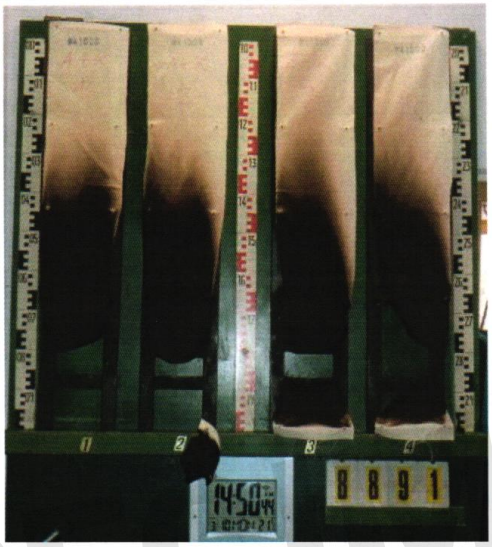
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Type: B1

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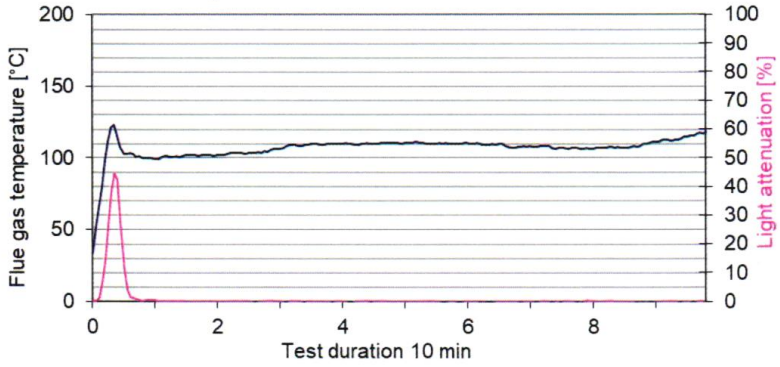
enclosure 5 to test report
PZ-Hoch-250301

„Brandschacht"-test #8891



measurement

#8891, PN41000: A+K
Max. flue temperature: 123°C, Smoke density integral: 8%min
Residual length: 45 cm



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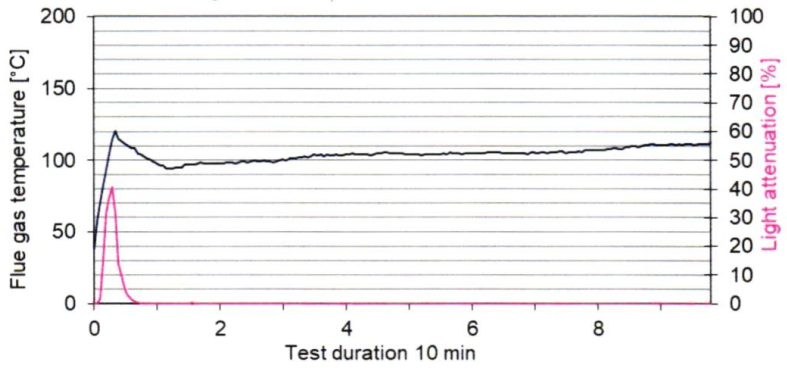
enclosure 6 to test report
PZ-Hoch-250301

„Brandschacht"-test #8892



measurement

#8892, PN40999: A+K
Max. flue temperature: 120°C, Smoke density integral: 8%min
Residual length: 46 cm



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enclosure 7 to test report
PZ-Hoch-250301

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 / side A and side B
4. Date of test — CW 07 and 10 in 2025
5. Results

PN 41001: flaming side A in weft direction	**surface-test**						**edge-test**						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition[1]	3	3	3	2	2	--	1	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
max. flame height	**7**	**7**	**7**	**8**	**6**	**--**	**4**	--	--	--	--	--	cm
time	14	15	14	15	15	--	3	--	--	--	--	--	
self cessation of the flames end of afterflame[1)]	15	15	15	15	15	--	15	--	--	--	--	--	s
end of glowing[1)]	-/-	-/-	-/-	-/-	-/-	--	16	--	--	--	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	
smoke development (visual)	little						little						
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 8 cm x width 2 cm													

PN 41001: additional tests	**edge-test**						**surface-test**						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
arrangement of samples side / direction	A/K	B/K	B/S	--	--	--	A/K	B/K	B/S	--	--	--	
ignition[1)]	1	1	1	--	--	--	2	2	2	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
max. flame height	**4**	**4**	**4**	**--**	**--**	**--**	**6**	**6**	**6**	--	--	--	cm
time	3	3	3	--	--	--	15	15	15	--	--	--	
self cessation of the flames end of afterflame[1)]	15	15	15	--	--	--	-/-	-/-	-/-	--	--	--	s
end of glowing[1)]	16	16	16	--	--	--	-/-	-/-	-/-	--	--	--	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 8cm x width 2cm													

[1)] time mentioned from the beginning of the test [2)] during 20 Sec -/- no appearance -- no information
K: warp / S: weft

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Type: B1

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enclosure 8 to test report
PZ-Hoch-250301

PN 41000: additional tests	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
arrangement of samples side / direction	A/K	B/S	A/S	B/S	--	--	A/K	B/K	A/S	B/S	--	--	
ignition[1)]	1	1	1	1	--	--	4	2	2	3	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
max. flame height	**3**	**3**	**3**	**4**	--	--	**5**	**5**	**6**	**5**	--	--	cm
time	10	9	7	7	--	--	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)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visual)	little						moderate						
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. height 6cm x width 2cm													

PN 40999: additional tests	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
arrangement of samples side / direction	A/K	B/K	A/S	B/S	--	--	A/K	B/K	A/S	B/S	--	--	
ignition[1)]	1	1	1	1	--	--	3	3	3	3	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
max. flame height	**4**	**4**	**4**	**4**	--	--	**4**	**4**	**4**	**4**	--	--	cm
time	14	11	10	10	--	--	10	12	13	13	--	--	
self cessation of the flames end of afterflame[1)]	15	15	15	15	--	--	15	15	15	15	--	--	s
end of glowing[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visual)	little						moderate						
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. height 6cm x width 2cm													

SPECIMEN

[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.

End of enclosures

P06-04-FB05 eng Rev01

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