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Hoch Fladungen

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

TEST REPORT
PZ-Hoch-261137

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	**ENGLISCH DEKOR HandelsGmbH & Co.KG** Scheydgasse 29 A-1210 Wien
description of samples	fabric consisting of PVC, PES FR, CV and PU colour: brown / white
name of the material	**„smarTex"**
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	31.08.2031
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.** **The examined product shows burning droplets.**

This test report includes 4 pages and 6 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

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

1. Description of test material in condition as delivered

PN 44744: **"smarTex"** colour: brown / white

-fabric consisting of 76% PVC, 11% PES FR, 10% CV und 3% PU-

side A: brown front side side B: white backside

characteristic values determined by the test laboratory:

area weight: about 636 g/m² thickness: about 1,02 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

#2160	flaming side A in warp direction
#2161	flaming side B in warp direction
#2162	flaming side A in weft direction
#2166	flaming side A in weft direction
#2167	flaming side A in weft direction

4. Date of test

CW 34 in 2026

5. Results

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

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	**#2160**	**#2161**	**#2162**	**#2166**	**#2167**	
	flamed direction flamed side	warp dir. A	warp dir. B	weft dir. A	weft dir. A	weft dir. A	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	1	
2	Maximum flame height above bottom edge of the specimen	>100	70	>100	>100	>100	cm
3	Time [1]	0:15	0:18	0:15	0:15	0:14	min:s
4	Burn through / melting Time [1]	0:17	0:09	0:17	0:15	0:16	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 sporatic falling of burning droplets [2]	---	---	---	---	---	
9	continuous falling of burning droplets [2]	---	---	---	---	---	min:s
10	Falling of burning droplets Start [1]	./.	./.	./.	X 0:40	X 0:28/1:08	min:s
11	Extent sporatic falling of burning droplets [2]	---	---	---	X	X	
12	continuous falling of burning droplets[2]	---	---	---	---	---	

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	#2160	#2161	#2162	#2166	#2167	
	flamed direction flamed side	warp dir. A	warp dir. B	weft dir. A	weft dir. A	weft dir. A	
13	Afterflame time at the bottom of the sieve (max.)	./.	./.	./.	0:18	0:10/3:06	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]	1:45	1:45	1:10	3:50	1:08	min:s
16	Time of eventually end of test [1]	./.	./	./	./	./	min:s
	Afterflame after end of test						
17	Time [1]	./.	./.	./.	./.	./.	min:s
18	Number of specimen	./.	./.	./.	./.	./.	
19	Front side of specimen [2]	./.	./.	./.	./.	./.	
20	Back side of specimen [2]	./.	./.	./.	./.	./.	
21	flame length	./.	./.	./.	./.	./.	cm
	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	69	87	97	64	60	% * min
29	> 400 % * min [4]	./.	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3	4	5	
	Residual lengths: individual value [3]						
31	Specimen 1	38	52	36	36	35	cm
	Specimen 2	40	45	37	38	35	cm
	Specimen 3	40	52	38	34	35	cm
	Specimen 4	41	46	40	38	37	cm
32	Average value, individual test [3]	**40**	**49**	**38**	**37**	**36**	
33	Photo of specimen in enclosure no.	1	2	3	4	5	
34	Flue gas temperature	119	121	120	122	122	°C
35	Maximum of average value Time [1]	09:39	09:15	09:51	0:22	0:21	min:s
36	Diagram: encl. no.	1	2	3	4	5	
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

line no.	measurement	Result with the tested specimen					dimension
	test-no.	#2160	#2161	#2162	#2166	#2167	
	flamed direction flamed side	warp dir. A	warp dir. B	weft dir. A	weft dir. A	weft dir. A	
1	residual length	**40**	**49**	**38**	**37**	**36**	cm
2	max. smoke temperature	**119**	**121**	**120**	**122**	**122**	°C
3	density of smoke - integral	**69**	**87**	**97**	**64**	**60**	%min
4	remarks: During the "Brandschacht"-test #2167 the material showed burning droplets for >20 seconds.						

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 6).

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, 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
- 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, 25.08.2026

clerk in charge:

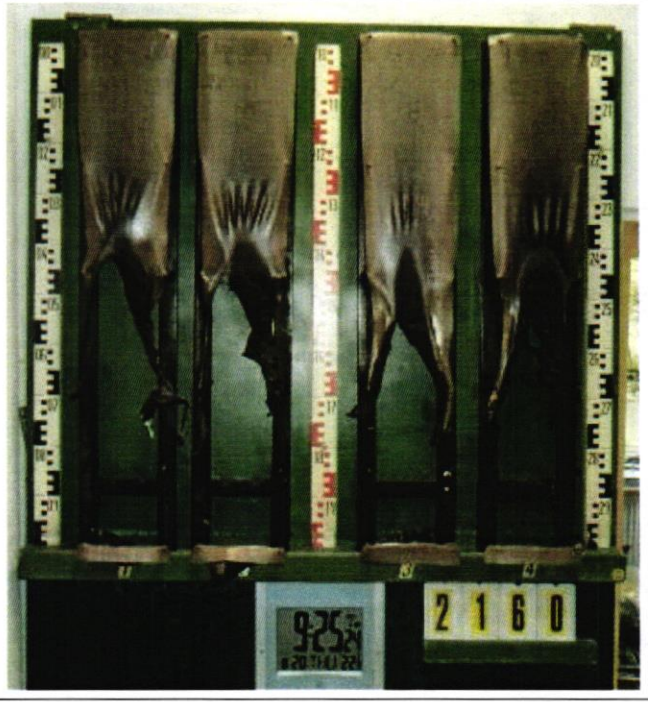
(Dipl.-Ing.(FH) Jürgen Hammer)

ANERKANNTE PRÜF-, ÜBERWACHUNGS- UND ZERTIFIZIERUNGSSTELLE Hoch Fladungen

Head of the test laboratory:

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

„Brandschacht"-test #2160

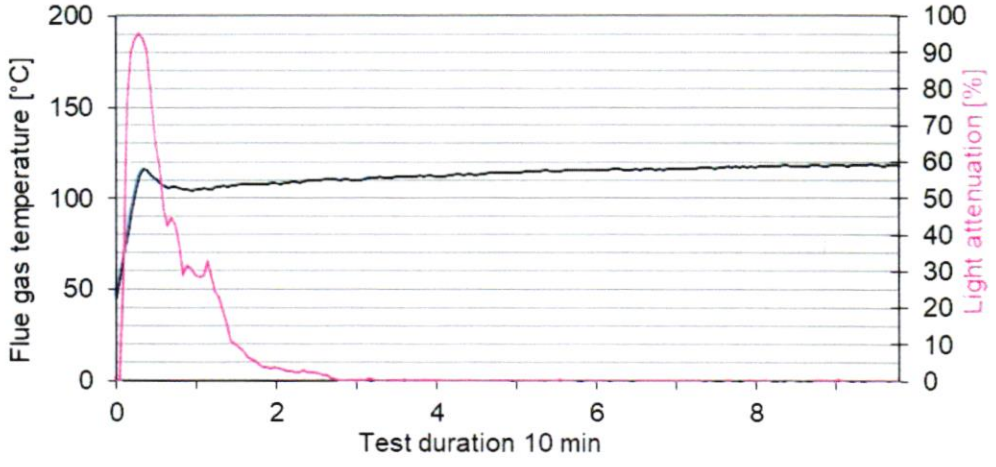


measurement

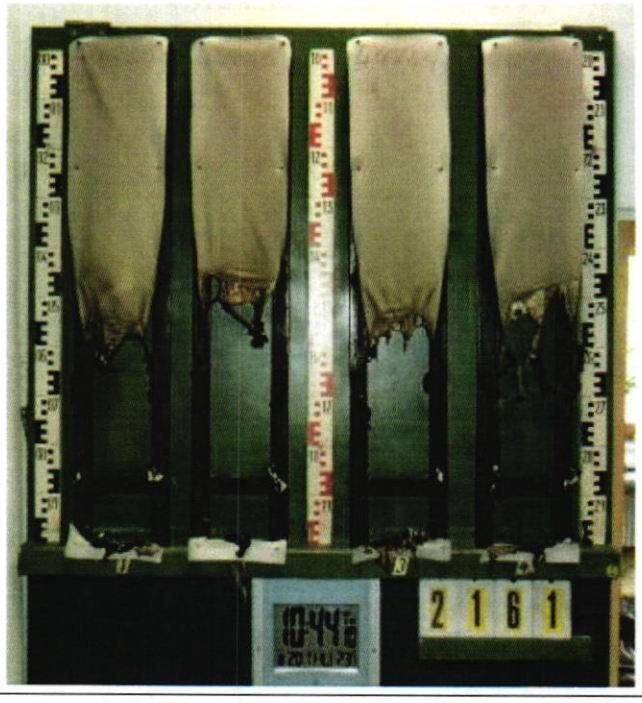
#2160, PN44744: A + K

Max. flue temperature: 119°C, Smoke density integral: 69%min

Residual length: 40 cm



„Brandschacht“-test #2161

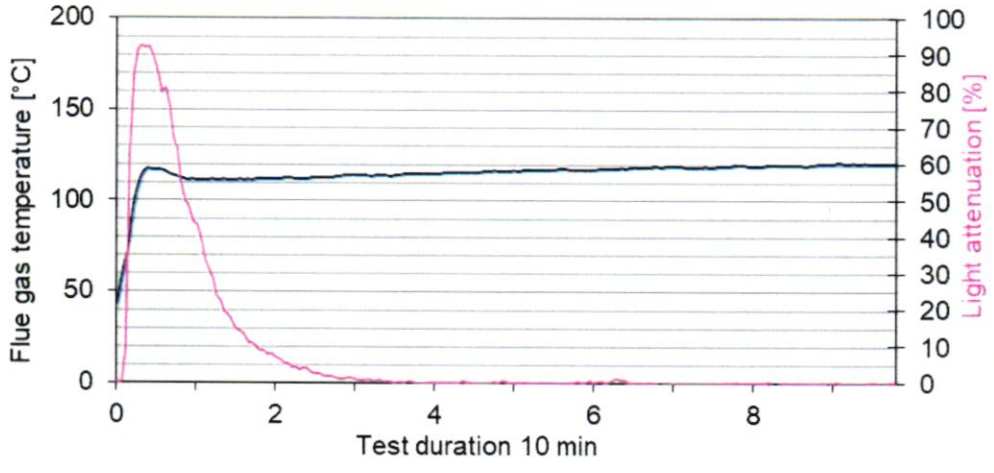


measurement

#2161, PN44744: B + K

Max. flue temperature: 121°C, Smoke density integral: 87%min

Residual length: 49 cm



„Brandschacht"-test #2162

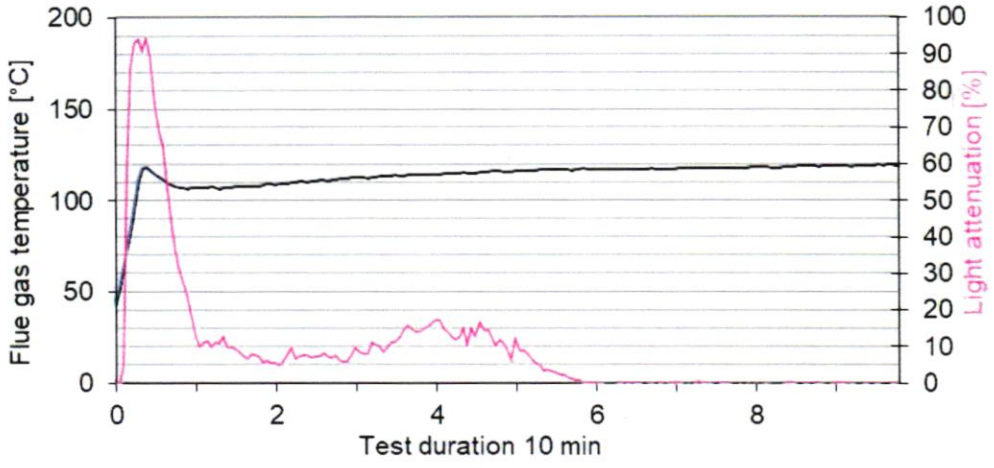


measurement

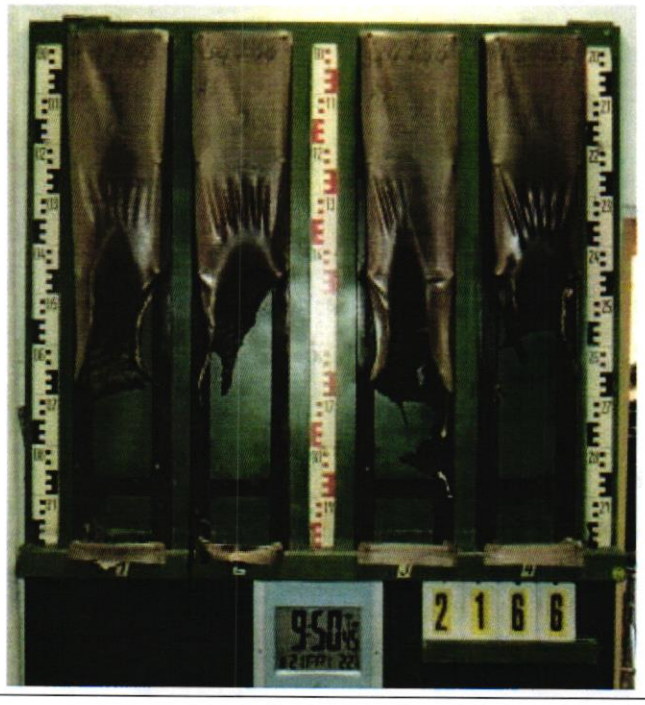
#2162, PN44744: A + S

Max. flue temperature: 120°C, Smoke density integral: 97%min

Residual length: 38 cm



„Brandschacht"-test #2166

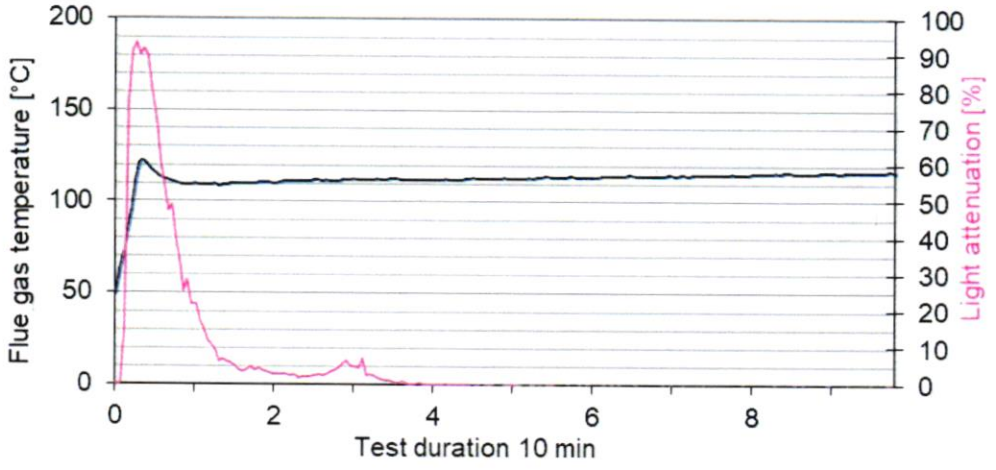


measurement

#2166, PN44744: A + S

Max. flue temperature: 122°C, Smoke density integral: 64%min

Residual length: 37 cm



„Brandschacht"-test #2167

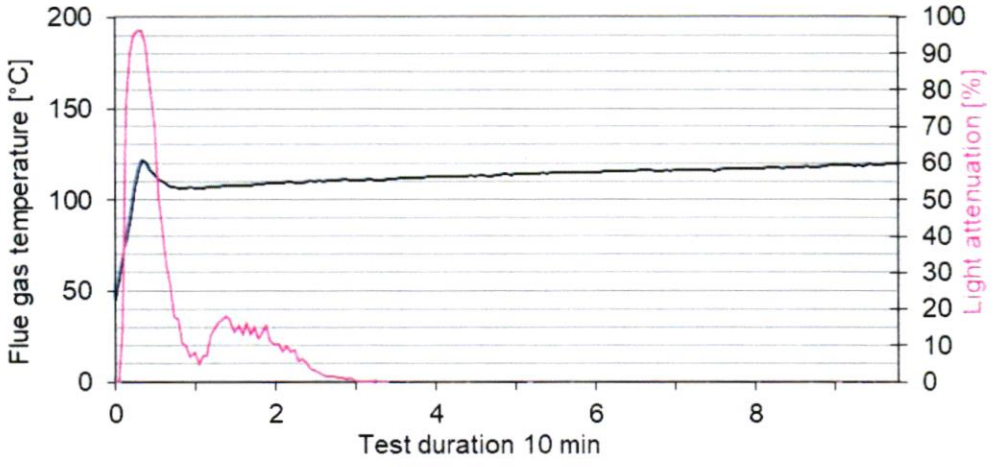


measurement

#2167, PN44744: A + S

Max. flue temperature: 122°C, Smoke density integral: 60%min

Residual length: 36 cm



Hoch
Fladungen

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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 direction and weft direction / side A and side B
4. Date of test CW 34 in 2026
5. Results

PN 44744: side B in weft 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	--	3	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	-/-	-/-	--	./.	--	--	--	--	--	s
max. flame height	**14**	**12**	**10**	**10**	**10**	--	**9**	--	--	--	--	--	cm
Time	15	11	12	9	12	--	12	--	--	--	--	--	
self cessation of the flames end of afterflame[1)]	30	20	15	16	16	--	15	--	--	--	--	--	s
end of glowing[1)]	-/-	-/-	-/-	-/-	-/-	--	./.	--	--	--	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	
smoke development (visual)	very heavy						very heavy						./.
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 8 cm x width 2,5 cm													

PN 44744: 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	--	--	--	A/K	B/K	A/S	--	--	--	
ignition[1)]	1	1	1	--	--	--	3	3	3	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
max. flame height	**12**	**10**	**12**	**--**	**--**	**--**	**9**	**9**	**12**	--	--	--	cm
time	12	10	14	--	--	--	13	10	15	--	--	--	
self cessation of the flames end of afterflame[1)]	15	22	15	--	--	--	15	17	16	--	--	--	s
end of glowing[1)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
smoke development (visual)	very heavy						very heavy						
dropping of burning material during 20 s[1)]	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
Appearance after test: burned out till max. height 9cm x width 2,5cm													

[1)] time mentioned from the beginning of the test [2)] during 20 Sec -/- no appearance -- no information
L: machine direction / Q: transverse direction

6. Remarks and explanations to the testing procedure - none –
7. Opinion concerning the dropping of burning material
   The examined product shows no burning dripping material during the test for normal flammability.

End of enclosures