

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-240390

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 & Co. KG Scheydgasse 29 A – 1210 Wien
description of samples	fabric consisting of Polyester FR coated with PVC on one side colour: black / light grey
name of the material	„planet“
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	31.03.2029
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. 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. 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 38697: „planet“ colour: black / light grey
-fabric consisting Polyester FR, coated with PVC on one side-
side A: front, black / side B: back, light grey
characteristic values determined by the test laboratory:
area weight: about 746 g/m² thickness: about 0,80 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

#7454: flaming side A in warp direction
#7455: flaming side B in warp direction
#7456: flaming side A in weft direction
#7459: flaming side A in weft direction
#7460: flaming side A in weft direction

4. Date of test CW 11 in 2024

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

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	#7454	#7455	#7456	#7459	#7460	
	flaming direction / side	warp / A	warp / B	weft / A	weft / A	weft / A	
1	<u>Number of specimen arrangement</u> acc. to. DIN 4102/T15, schedule 1	1	1	1	1	1	
2	<u>Maximum flame height above bottom</u> edge of the specimen	>100	60	>100	>100	>100	cm
3	Time ¹⁾	0:22	0:18	0:18	0:19	0:22	min:s
4	<u>Burn through / melting</u> Time ¹⁾	0:20	0:10	0:22	0:19	0:23	min:s
5	<u>Observations on the back side of the specimen</u> Flames / Glowing Time ¹⁾	---	---	---	---	---	min:s
6	Change of colour Time ¹⁾	./.	./.	./.	./.	./.	min:s
7	<u>Falling of burning droplets</u> Start ¹⁾	./.	./.	./.	./.	./.	min:s
8	Extent sporadic falling of burning droplets ²⁾	---	---	---	---	---	
9	continuous falling of burning droplets ²⁾	---	---	---	---	---	min:s
10	<u>Falling of burning droplets</u> Start ¹⁾	./.	./.	X 0:33	./.	X 1:44	min:s
11	Extent sporadic falling of burning droplets ²⁾	---	---	X	---	X	
12	continuous falling of burning droplets ²⁾	---	---	---	---	---	
13	<u>After flame time at the bottom of the sieve (max.)</u>	./.	./.	3:31	./.	1:44	min:s

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	#7454	#7455	#7456	#7459	#7460	
	flaming direction / side	warp / A	warp / B	weft / A	weft / A	weft / A	
14	Impairment of the burner by dropping or falling material: Time ¹⁾	./.	./.	./.	./.	./.	min:s
15	Final occurrence of burning at the specimen ¹⁾	0:55	2:10	1:50	1:20	0:45	min:s
16	Time of eventually end of test ¹⁾	./.	./.	./.	./.	./.	min:s
17	After flame 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
22	Afterglow after end of test Time ¹⁾	./.	./.	./.	./.	./.	min:s
23	Number of specimen	./.	./.	./.	./.	./.	
24	Place of appearance 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	Density of smoke ≤ 400 % * min	118	103	109	94	116	% * min
29	> 400 % * min ⁴⁾	./.	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3	4	5	
31	Residual lengths: individual value ³⁾ Specimen 1 Specimen 2 Specimen 3 Specimen 4	45 44 45 45	56 55 62 59	40 39 38 41	38 37 39 40	39 39 38 39	cm cm cm cm
32	Average value, individual test ³⁾	45	58	40	39	39	
33	Photo of specimen in enclosure no.	1	2	3	4	5	
34	Flue gas temperature	119	115	124	119	116	°C
35	Maximum of average value Time ¹⁾	09:42	0:55	0:28	0:24	0:27	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

lineo.	measurement	Result with the tested specimen					dim
	test-no.	#7454 warp / A	#7455 warp / B	#7456 weft / A	#7459 weft / A	#7460 weft / A	
1	residual length	45	58	40	39	39	cm
2	max. smoke temperature	119	115	124	119	116	°C
3	density of smoke - integral	118	103	109	94	64	%min
4	remarks: During the "Brandschacht"-tests #7456 and #7460 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, 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

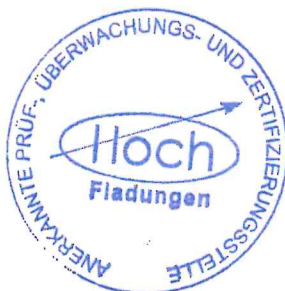
This test report is valid until the mentioned date on page 1. The test report becomes invalid in case the standards on which the tests are based are changed.

Fladungen, 10.04.2024

clerk in charge:



(Dipl.-Ing.(FH) Jürgen Hammer)



Head of the test laboratory:



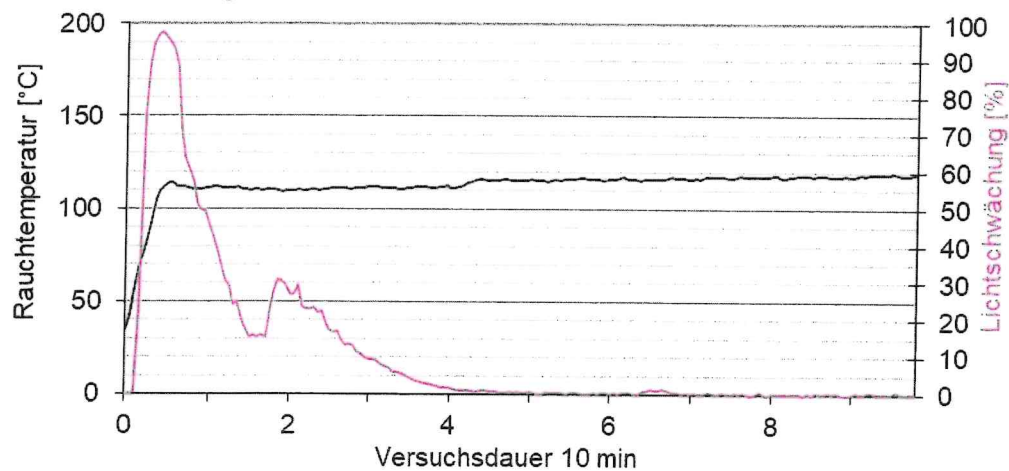
(Dipl.-Ing.(FH) Andreas Hoch)

„Brandschacht“-test #7454

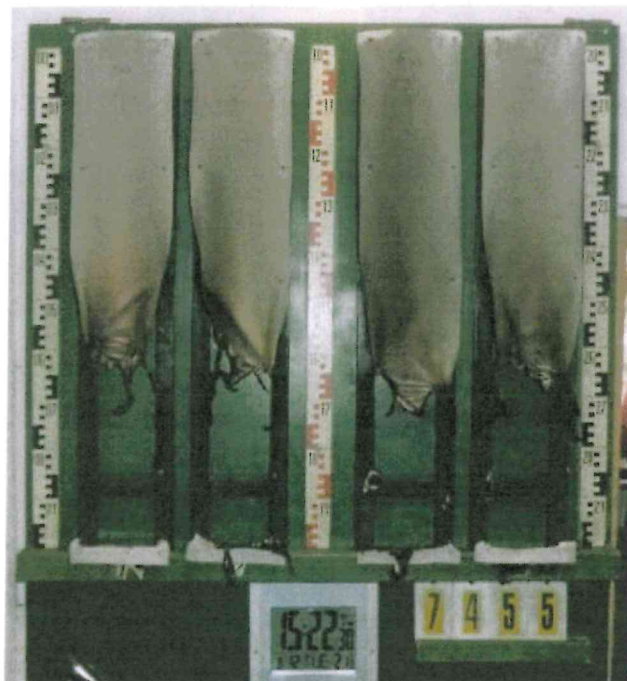


measurement

#7454, PN38697: ENGLISCH DEKOR, "planet", A + K
max. Rauchtemperatur: 119°C, Rauch-Integral: 118%min
Restlänge: 45 cm



„Brandschacht“-test #7455

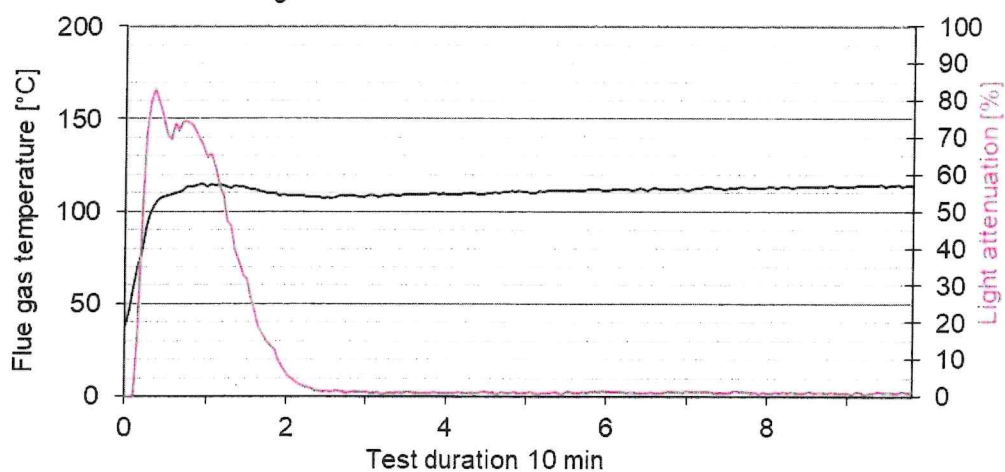


measurement

#7455, PN38697: ENGLISCH DEKOR, "planet", B + K

Max. flue temperature: 115°C, Smoke density integral: 103%min

Residual length: 58 cm



„Brandschacht“-test #7456

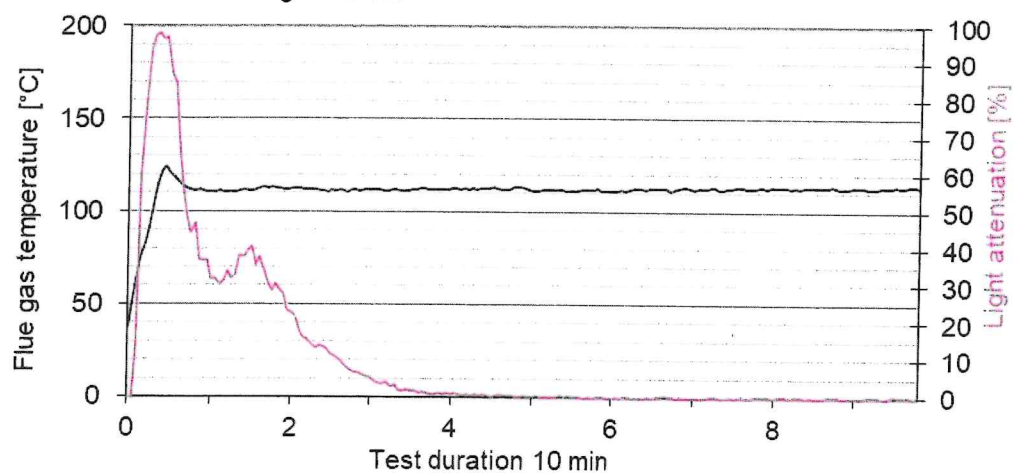


measurement

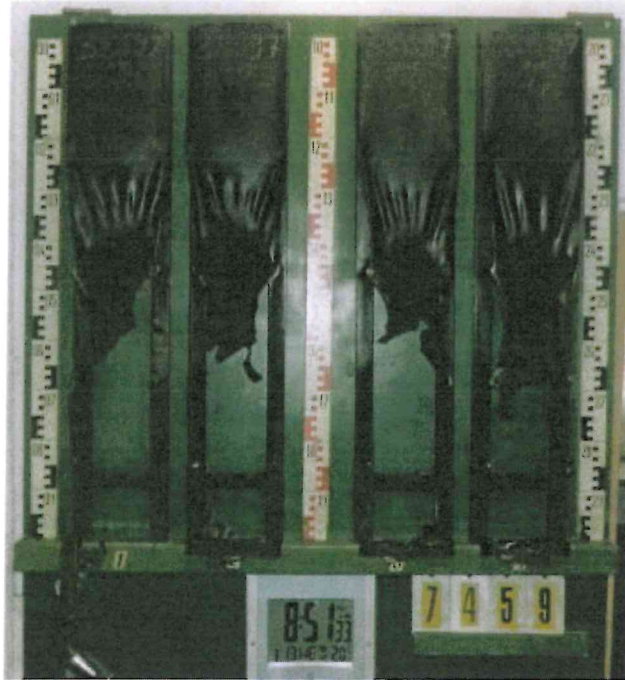
#7456, PN38697: ENGLISCH DEKOR, "planet", A+S

Max. flue temperature: 124°C, Smoke density integral: 109%min

Residual length: 40 cm



„Brandschacht“-test #7459

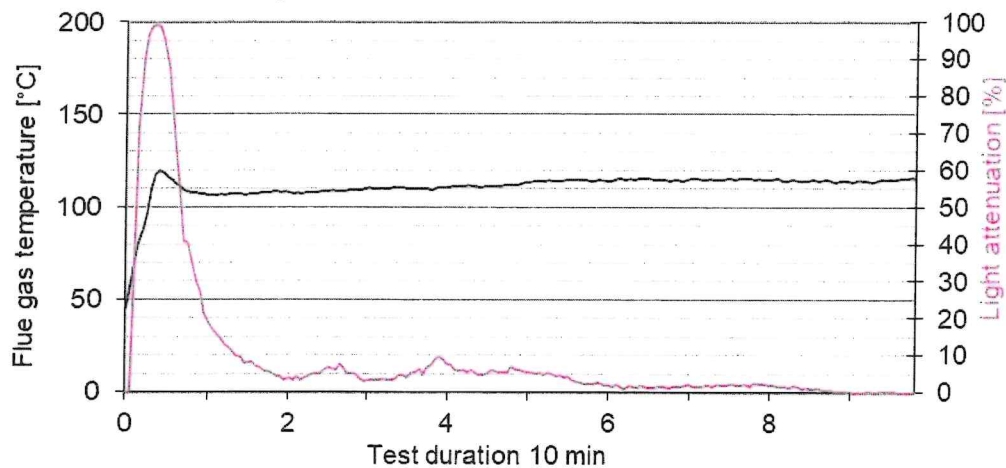


measurement

#7459, PN38697: ENGLISCH DEKOR, "planet", A + S

Max. flue temperature: 119°C, Smoke density integral: 94%min

Residual length: 39 cm



„Brandschacht“-test #7460

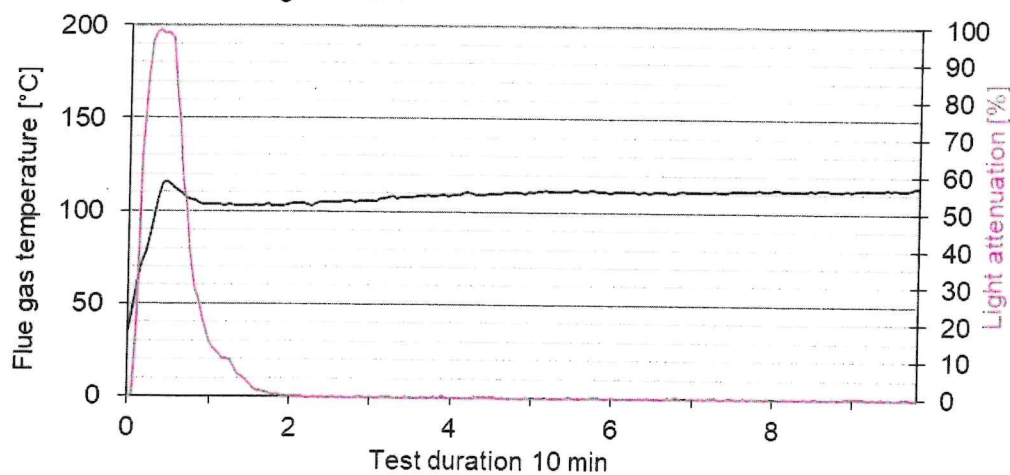


measurement

#7460, PN38697: ENGLISCH DEKOR, "planet", A + S

Max. flue temperature: 116°C, Smoke density integral: 64%min

Residual length: 39 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-

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

4. Date of test CW 11 in 2024

5. Results

PN 38697: flaming side B in warp	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	--	4	--	--	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	S
max. flame height	11	11	12	11	12	--	11	--	--	--	--	--	cm
time	10	10	10	10	10	--	15	--	--	--	--	--	
self-cessation of the flames end of afterflame ¹⁾	27	15	25	16	24	--	16	--	--	--	--	--	s
end of glowing ¹⁾	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	s
flames were extinguished after ¹⁾	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	s
smoke development (visual)	moderate						moderate						
dropping of burning material during 20 s ¹⁾	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	s
Appearance after test: burned out till max. height 12cm x width 3cm													

PN 38697: 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	A/S	B/S	--	--	--	A/K	A/S	B/S	--	--	--	
ignition ¹⁾	1	1	1	--	--	--	4	4	4	--	--	--	s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
max. flame height	10	10	10	--	--	--	8	8	10	--	--	--	cm
time	15	15	10	--	--	--	15	15	15	--	--	--	
self-cessation of the flames end of afterflame ¹⁾	18	18	20	--	--	--	16	16	16	--	--	--	s
end of glowing ¹⁾	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
flames were extinguished after ¹⁾	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
smoke development (visual)	moderate						moderate						
dropping of burning material during 20 s ¹⁾	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
Appearance after test: burned out till max. height 12 cm x width 3 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.