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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-180308

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	**DICKSON SAINT CLAIR** 415, avenue de Savoie F-38110 Saint Clair de la Tour
description of samples	polyester fabric coated with polymers (acrylic and polyurethane) (colour: white)
name of the material	**„JET TEX COMFORT"**
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	28.02.2023
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 4 pages and 4 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

1. Description of test material in condition as delivered

PN 27076: "JET TEX COMFORT" colour: white

-polyester fabric coated with polymers (acrylic and polyurethane)-

side A: a little bit more even

characteristic values determined by the test laboratory:

area weight: about 392 g/m² thickness: about 0,46 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

#1045 flaming side A in warp direction
#1046 flaming side B in warp direction
#1047 flaming side A in weft direction

4. Date of test

CW 11 in 2018

5. Results

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

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	**#1045**	**#1046**	**#1047**	**---**	**---**	
	flamed direction flamed side	warp A	warp B	weft A	---	---	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	---	---	
2	Maximum flame height above bottom edge of the specimen	40	50	40	---	---	cm
3	Time [1]	0:13	0:21	1:09	---	---	min:s
4	Burn through / melting Time [1]	0:04	0:05	0:03	---	---	min:s
	Observations on the back side of the specimen						
	Flames / Glowing	./.	./.	./.	./.	./.	
5	Time [1]	./.	./.	./.	./.	./.	min:s
	Change of color	./.	./.	./.	./.	./.	
6	Time [1]	./.	./.	./.	./.	./.	min:s
	Falling of burning droplets	./.	./.	./.	./.	./.	
7	Start [1]	./.	./.	./.	./.	./.	min:s
	Extent						
8	sporatic falling of burning droplets [2]	./.	./.	./.	./.	./.	
9	continuous falling of burning droplets [2]	./.	./.	./.	./.	./.	min:s
	Falling of burning droplets	./.	./.	./.	./.	./.	
10	Start [1]						min:s
	Extent	./.	./.	./.	./.	./.	
11	sporatic falling of burning droplets [2]						
12	continuous falling of burning droplets [2]	./.	./.	./.	./.	./.	

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	**#1045**	**#1046**	**#1047**	**---**	**---**	
	flamed direction flamed side	warp A	warp B	weft A	---	---	
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	Premature end of test Final occurance of burning at the specimen [1]	./.	./.	./.	./.	./.	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
	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	28	14	32	---	---	% * min
29	> 400 % * min [4]	./.	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3	---	---	
	Residual lengths: individual value [3]						
	Specimen 1	62	68	58	---	---	cm
31	Specimen 2	66	60	61	---	---	cm
	Specimen 3	59	64	62	---	---	cm
	Specimen 4	58	62	60	---	---	cm
32	Average value, individual test [3]	**61**	**64**	**60**	**---**	**---**	
33	Photo of specimen in enclosure no.	1	2	3	---	---	
34	Flue gas temperature	114	117	114	---	---	°C
35	Maximum of average value Time [1]	09:57	09:54	09:27	---	---	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

6. Explanations concerning the testing procedure

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

7. Summary of results and additional establishments to Fire Behaviour

linen o.	measurement	Result with the tested specimen					dime nsion
	test-no.	#1045	#1046	#1047	---	---	
	flamed direction flamed side	warp A	warp B	weft A	---	---	
1	residual length	**61**	**64**	**60**	---	---	cm
2	max. smoke temperature	**114**	**117**	**114**	---	---	°C
3	density of smoke - integral	**28**	**14**	**32**	---	---	%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.
- 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, 19.03.2018

clerk in charge:

(Dipl.-Ing.(FH) Jürgen Hammer)

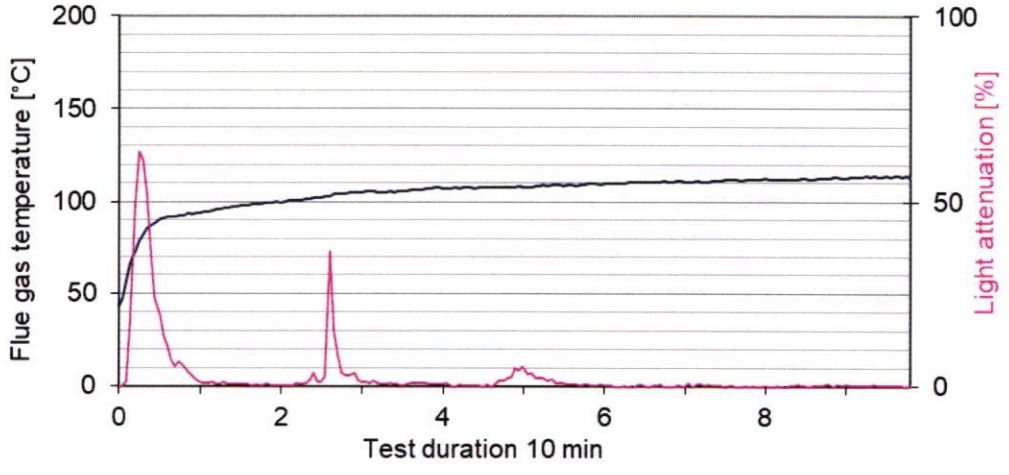
ANERKANNTE PRÜF-, ÜBERWACHUNGS- UND ZERTIFIZIERUNGSSTELLE
Hoch
Fladungen

Head of the test laboratory:

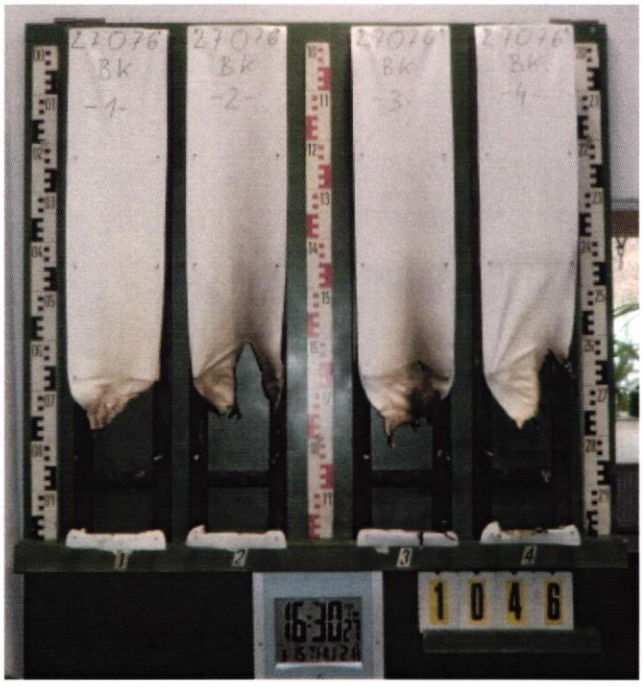
(Dipl.-Ing.(FH) Andreas Hoch)

„Brandschacht"-test #1045

measurement

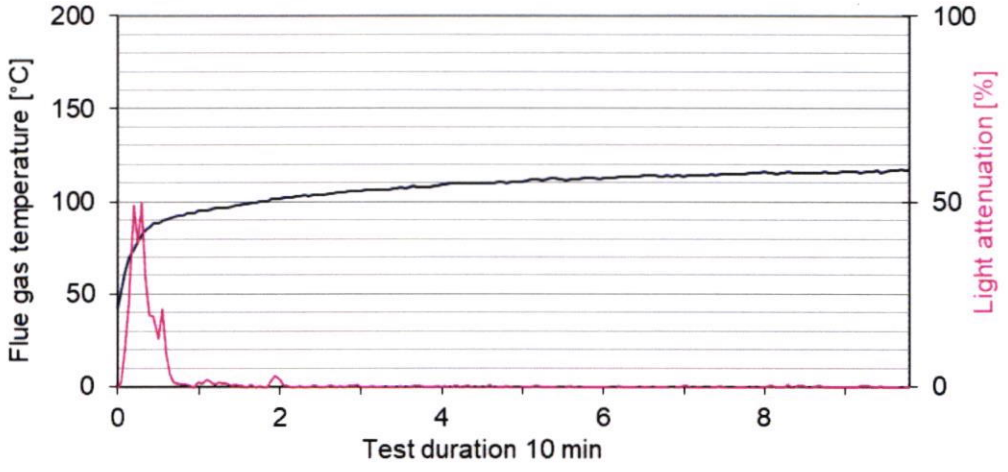


„Brandschacht“-test #1046



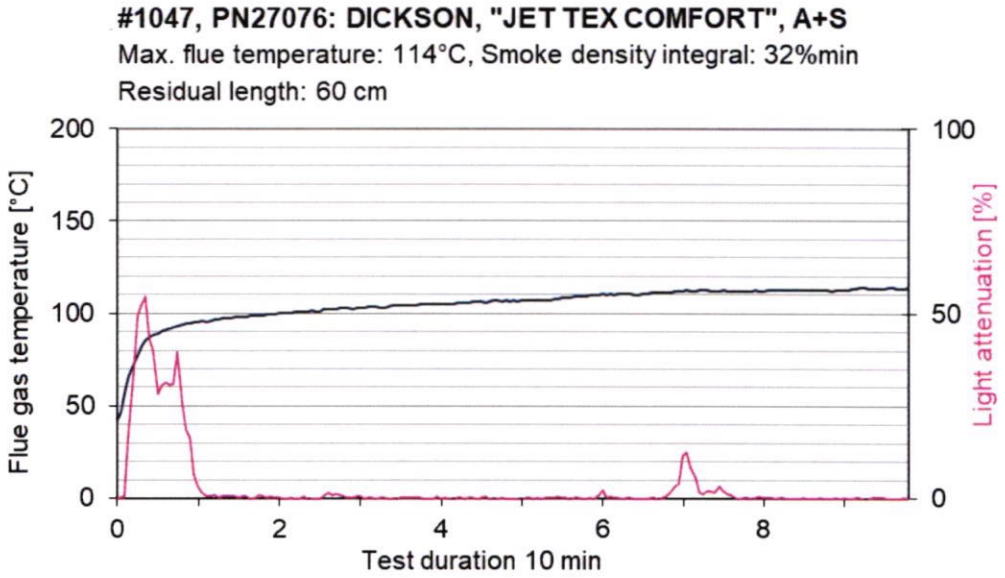
measurement

#1046, PN27076: DICKSON, "JET TEX COMFORT", B+K
Max. flue temperature: 117°C, Smoke density integral: 14%min
Residual length: 64 cm



„Brandschacht“-test #1047

measurement



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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 in weft direction / side A and side B
4. Date of test CW 11 in 2018
5. Results

PN 27076: flaming side B 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	3	4	--	1	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	s
max. flame height	9	10	10	10	11	--	11	--	--	--	--	--	cm
time	15	15	15	15	15	--	13	--	--	--	--	--	
self cessation of the flames end of afterflame[1)]	16	15	15	15	15	--	14	--	--	--	--	--	s
end of glowing[1)]	17	19	19	22	17	--	18	--	--	--	--	--	s
flames were extinguished after[1)]	./.	./.	./.	./.	./.	--	./.	--	--	--	--	--	
smoke development (visual)	heavy						heavy						./.
dropping of burning material during 20 s[1)]	./.	./.	./.	./.	./.	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 10 cm x width 5 cm													

PN 27076: 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	--	--	--	3	4	3	--	--	--	s
reaching the mark of measurement[1)2)]	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
max. flame height	9	9	10	--	--	--	10	11	11	--	--	--	cm
time	7	10	12	--	--	--	15	15	15	--	--	--	
self cessation of the flames end of afterflame[1)]	8	11	15	--	--	--	15	15	15	--	--	--	s
end of glowing[1)]	19	17	19	--	--	--	./.	17	17	--	--	--	s
flames were extinguished after[1)]	./.	./.	./.	--	--	--	./.	./.	./.	--	--	--	s
smoke development (visual)	heavy						heavy						
dropping of burning material during 20 s[1)]	./.	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
Appearance after test: burned out till max. height 10cm x width 5cm													

[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.