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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-240493

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	**DigiPrint Supplies c/o BMG Media Source SL** **Ronda General Mitre, N° 28-30 – Pl. BJ** **ES 08017 Barcelona**
description of samples	polyester fabric with adhesive film on one side and polymer coating on the other side
name of the material	**„DIGIMEDIA Removable Adhesive Fabric“**
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 glued on massive mineral substrates with a density of ≥ 1.500 kg/m³ and thickness of ≥ 0,6mm the requirements of class B1 for “schwerentflammbare” (hardly flammable) building materials according to DIN 4102, part 1 (May 1998).**

This test report includes 4 pages and 5 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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

1. Description of test material in condition as delivered

PN 38825: „DIGIMEDIA Removable Adhesive Fabric“

-polyester fabric with adhesive film and protection film on one side and polymer coating on the other side-

front side: white, coated / reverse side: self-adhesive, grey

characteristic values determined by the test laboratory:

whole thickness: about 0,31 mm
whole area weight: about 342 g/m²
thickness of self-adhesive foil: about 0,16 mm
area weight of self-adhesive foil: about 189 g/m²

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.
The self-adhesive film was glued on fiber cement boards with a thickness of about 6 mm, according to DIN 4102-16: 2020-11, point 5.4, a.

3. Arrangement of samples

#7535: flaming in machine direction, glued on fiber cement boards
#7536: flaming in transverse direction, glued on fiber cement boards
#7599: flaming in transverse direction, glued on fiber cement boards
#7600: flaming in transverse direction, glued on fiber cement boards

4. Date of test

CW 13 and 15 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	**#7535**	**#7536**	**#7599**	**#7600**	---	
	flamed direction substrate	machine dir. fiber cement board	transv. dir. fiber cement board	machine dir. fiber cement board	transv. dir. fiber cement board	---	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	7	7	7	7	---	
2	Maximum flame height above bottom edge of the specimen	60	60	80	60		cm
3	Time [1]	0:26	7:40	6:45	4:30	---	min:s
4	Burn through / melting Time [1]	./.	./.	./.	./.	---	min:s
	Observations on the back side of the specimen						
	Flames / Glowing	---	---	---	---	./.	
5	Time[1]	./.	./.	./.	./.	./.	min:s
	Change of colour	---	---	---	---	./.	
6	Time [1]	./.	./.	./.	./.	./.	min:s
	Falling of burning droplets	./.	./.	./.	./.	./.	
7	Start [1]	./.	./.			./.	min:s
	Extent						
8	sporadic falling of burning droplets [2]	---	---	---	---	./.	
9	continuous falling of burning droplets [2]	./.	./.	---	---	./.	min:s

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	**#7535**	**#7536**	**#7599**	**#7600**	---	
	flamed direction substrate	machine dir. fiber cement board	transv. dir. fiber cement board	machine dir. fiber cement board	transv. dir. fiber cement board	---	
	Falling of burning droplets	./.	./.	./.	./.	./.	
10	Start [1]						min:s
	Extent	./.	./.	./.	./.	./.	
11	sporadic falling of burning droplets [2]						
12	continuous falling of burning droplets [2]	./.	./.	./.	./.	./.	
13	After flame 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 occurrence of burning at the specimen [1]	5:00	7:50	10:00	10:00	./.	min:s
16	Time of eventually end of test [1]	./.	./.	./.	./.	./.	min:s
	After flame 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	1	4	18	17	---	% * min
29	> 400 % * min [4]	./.	./.	./.	./.	./.	% * min
30	Diagram: encl. no.	1	2	3	4	---	
	Residual lengths: individual value [3]						
	Specimen 1	44	42	40	40	---	cm
31	Specimen 2	35	33	30	33	---	cm
	Specimen 3	43	39	38	39	---	cm
	Specimen 4	43	34	28	42	---	cm
32	Average value, individual test [3]	**41**	**37**	**34**	**39**	**---**	
33	Photo of specimen in enclosure no.	1	2	3	4	---	
34	Flue gas temperature	109	108	123	114	---	°C
35	Maximum of average value Time [1]	09:24	08:07	06:44	09:18	---	min:s
36	Diagram: encl. no.	1	2	3	4	---	

[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

linen o.	measurement / test-no.	Result with the tested specimen					dimension
		#7535	#7536	#7599	#7600	---	
	flamed direction substrate	machine dir. fiber cement board	transv. dir. fiber cement board	machine dir. fiber cement board	transv. dir. fiber cement board	---	
1	residual length	**41**	**37**	**34**	**39**	---	cm
2	max. smoke temperature	**109**	**108**	**123**	**114**	---	°C
3	density of smoke - integral	**1**	**4**	**18**	**17**	--	%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 5).

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, 15.04.2024

clerk in charge:

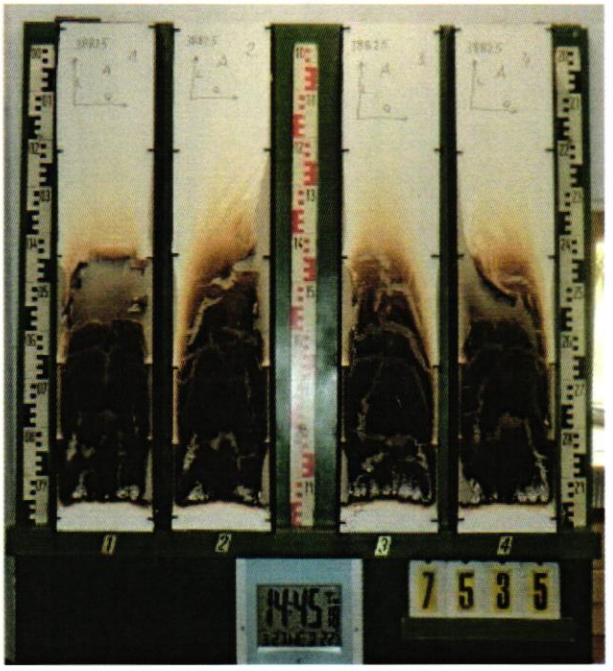
(Dipl.-Ing.(FH) Jürgen Hammer)

ANERKANNTE PRÜF-, ÜBERWACHUNGS- UND ZERTIFIZIERUNGSSTELLE
Hoch
Fladungen

Head of the test laboratory:

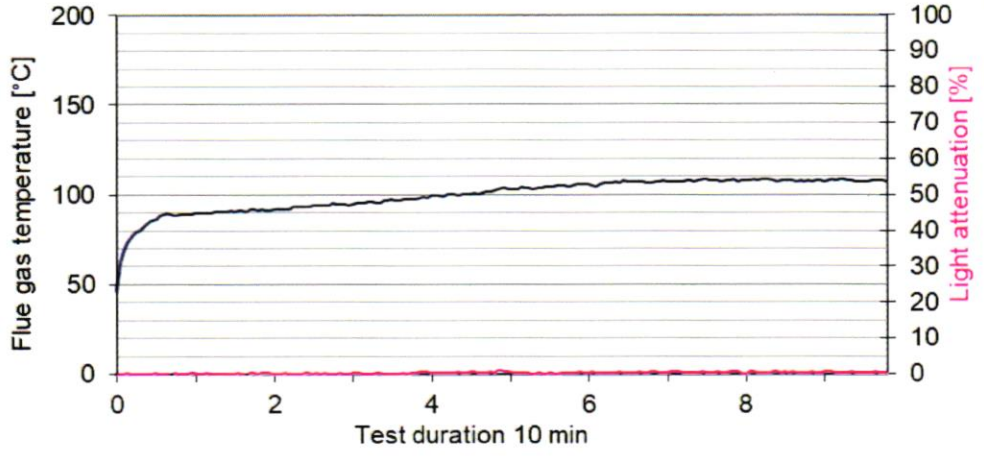
(Dipl.-Ing.(FH) Andreas Hoch)

„Brandschacht"-test #7535



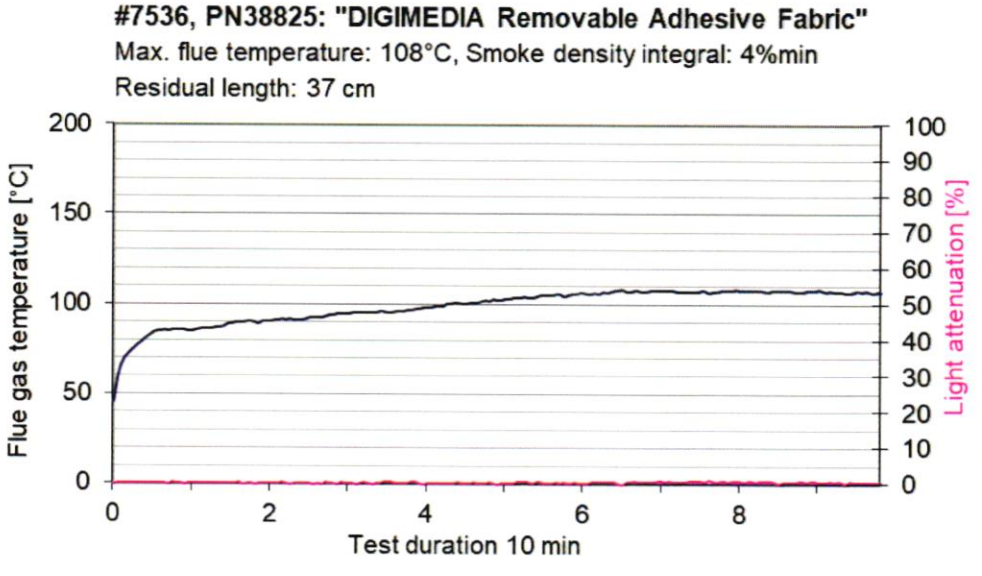
measurement

#7535, PN38825: "DIGIMEDIA Removable Adhesive Fabric"
Max. flue temperature: 109°C, Smoke density integral: 1%min
Residual length: 41 cm

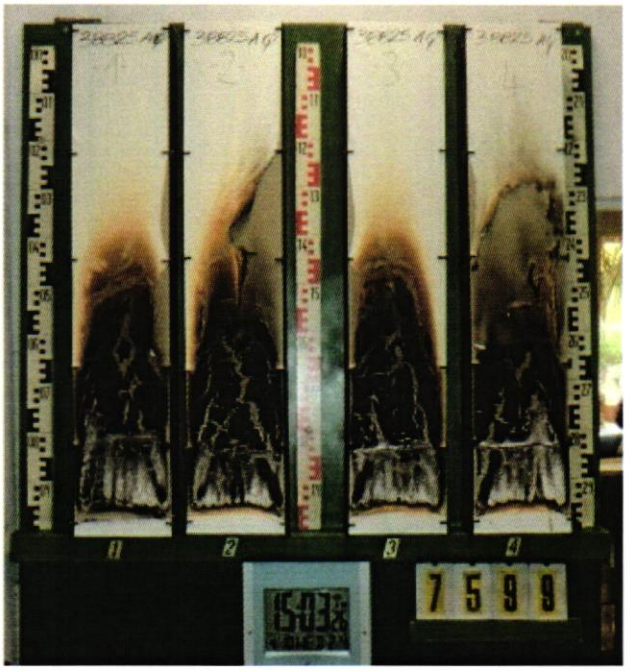


„Brandschacht“-test #7536

measurement

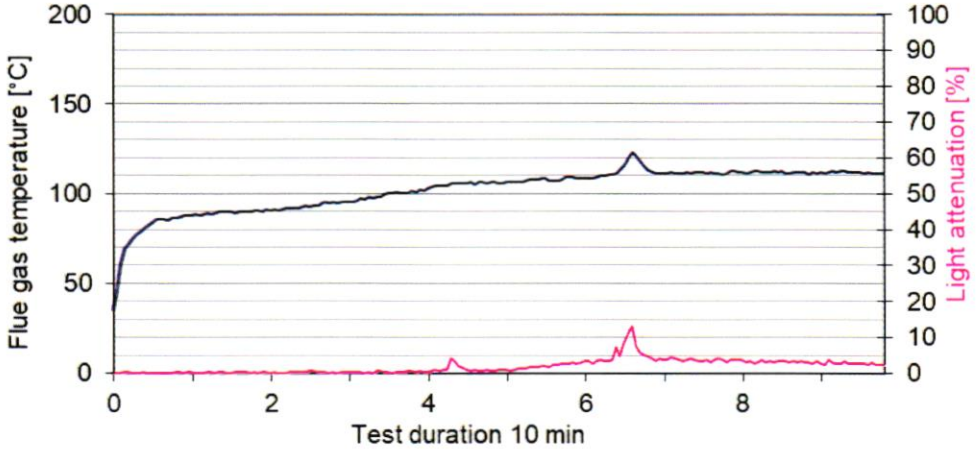


„Brandschacht“-test #7599

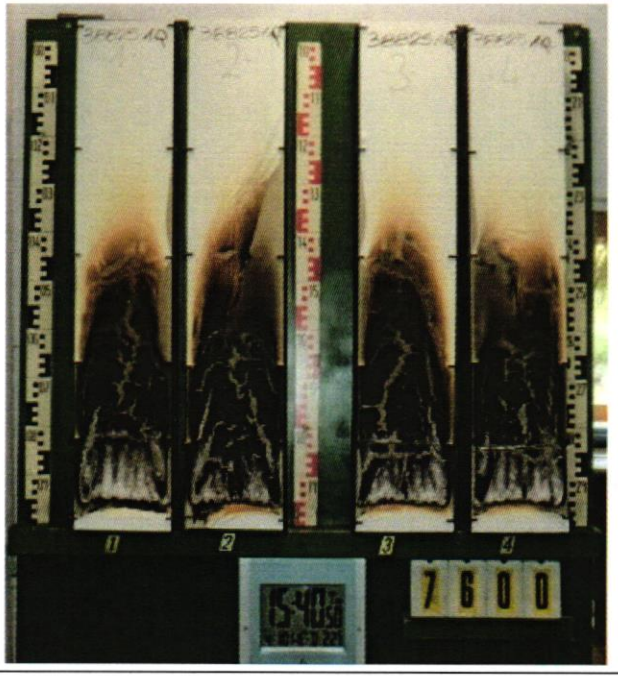


measurement

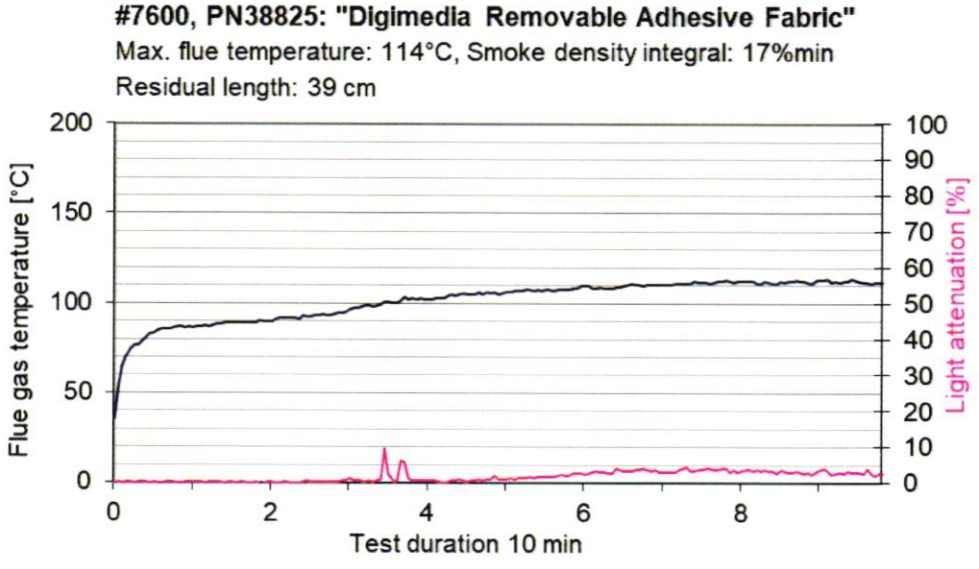
#7599, PN38825: "Digimedia Removable Adhesive Fabric"
Max. flue temperature: 123°C, Smoke density integral: 18%min
Residual length: 34 cm



„Brandschacht"-test #7600



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 -glued on fiber cement boards-

   Flaming in machine and in transverse direction
4. Date of test CW 11 in 2024
5. Results

PN 38825: flaming in machine 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	--	10	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
max. flame height	**3**	**3**	**4**	**3**	**3**	**--**	**2**	--	--	--	--	--	cm
Time	15	15	15	15	15	--	15	--	--	--	--	--	
self-cessation of the flames end of afterflame[1)]	15	15	15	15	15	--	15	--	--	--	--	--	s
end of glowing[1)]	16	16	16	16	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 2 cm x width 2 cm													

PN 38825: flaming in transverse direction	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition[1)]	1	--	--	--	--	--	10	--	--	--	--	--	s
reaching the mark of measurement[1)2)]	-/-	--	--	--	--	--	-/-	--	--	--	--	--	s
max. flame height	**3**	--	--	--	--	--	**2**	--	--	--	--	--	cm
Time	15	--	--	--	--	--	15	--	--	--	--	--	
self-cessation of the flames end of afterflame[1)]	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 2 cm x width 2 cm													

[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.