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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-180320-3

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	Vescom B.V. St. Jozefstraat 20 NL-5753 Deurne
description of samples	fabric consisting of 100% Polyester FR colour: grey
name of the material	"Burton 7056"
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	29.02.2028
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.

This test report includes 4 pages and 4 enclosures.

This test report replaces the test report PZ-Hoch-180320-2 from 26.03.2018. The prolongation of the test report is based on annual surveillance tests.

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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 27120:	"Burton 7056"	colour: grey
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fabric consisting of 100% Polyester FR side A: a little bit rougher weave structure characteristic values determined by the test laboratory: area weight: about 532 g/m² thickness: about 1,07 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

#1067	flaming side A in warp direction
#1069	flaming side B in warp direction

#1070 flaming side A in weft direction

4. Date of test CW 12 in 2018

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

<u> </u>	Measurement	Re	sult with the	ne tested s	pecime	n	Dim.
- OU @	Test number	#1067	#1069	#1070			
line	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	<u>Maximum flame</u> height above bottom edge of the specimen Time ¹⁾	50 0:19	30 0:02	30 0:02			cm min:s
4	<u>Burn through / melting</u> Time ¹⁾	0:07	0:06	0:07			min:s
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾ Change of color Time ¹⁾	.J. .J. 	./. ./. ./.	./. ./. ./.	./. ./. ./.	./. ./. ./. ./.	min:s min:s
7 8 9	Falling of burning droplets Start ¹⁾ Extent sporatic falling of burning droplets ²⁾ continuous falling of burning droplets ²⁾	.J. .J. .J.	./. ./. ./.	.I. .I. .I.	./. ./. ./.	.1. .1. .1. .1.	min:s
10 11 12	Falling of burning droplets Start ¹⁾ Extent sporatic falling of burning droplets ²⁾ continuous falling of burning droplets ²⁾	./. ./.	./. ./.	./. ./.	./. ./.	./. ./.	min:s
13	Afterflame time at the bottom of the sieve (max.)	./.	./.	./. ./.	./.	./.	min:s

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	Measurement	Re	sult with th	ne tested s	pecimer	ı	Dim.
no.	Test number	#1067	#1069	#1070			
line	flamed direction flamed side	warp A	warp B	weft A			
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 18 19 20 21	Afterflame after end of test Time ¹⁾ Number of specimen Front side of specimen ²⁾ Back side of specimen ²⁾ flame length	.]. .J. .J. .J. .J.	./. ./. ./. ./.	./. ./. ./. ./.	./. ./. ./. ./.	./. ./. ./. ./.	min:s cm
22 23 24 25 26 27	Afterglow after end of test Time ¹⁾ Number of specimen <u>Place of appearance</u> Lower half of the specimen ²⁾ Upper half of the specimen ²⁾ Front side of specimen ²⁾ Back side of specimen ²⁾	.I. .J. .J. .J. .J. .J. .J. .J.	J. J. J. J. J. J. J. J.	.I. .J. .J. .J. .J. .J. .J.	J. J. J. J. J. J. J. J.	J. J. J. J. J. J. J. J.	min:s
28 29 30	$\frac{\text{Density of smoke}}{\leq 400 \% * \min}$ $> 400 \% * \min^{4)}$ Diagram: encl. no.	1 ./. 1	1 ./. 2	1 ./. 3	 ./.	 ./. 	% * min % * min
31	Residual lengths: individual value ³⁾ Specimen 1 Specimen 2 Specimen 3 Specimen 4	63 58 64 56	72 72 75 71	63 62 65 64	 	 	cm cm cm cm
32	Average value, individual test ³⁾	60	73	64			
33	Photo of specimen in enclosure no.	1	2	3			
34 35	Flue gas temperature Maximum of average value Time ¹⁾	105 09:51	111 09:45	111 09:33			°C 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 \geq than 45 cm.

7. Summary of results and additional establishments to Fire Behaviour

G .	measurement		Result wit	h the teste	d specime	n	dime Ision
linen o.	test-no.	#1067	#1069	#1070			dime nsion
	flamed direction flamed side	warp A	warp B	weft A			
1	residual length	60	73	64			cm
2	max. smoke temperature	105	111	111			°C
3	density of smoke - integral	1	1	1			%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
 - o regular building materials for the required proof of accordance
 - o 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.

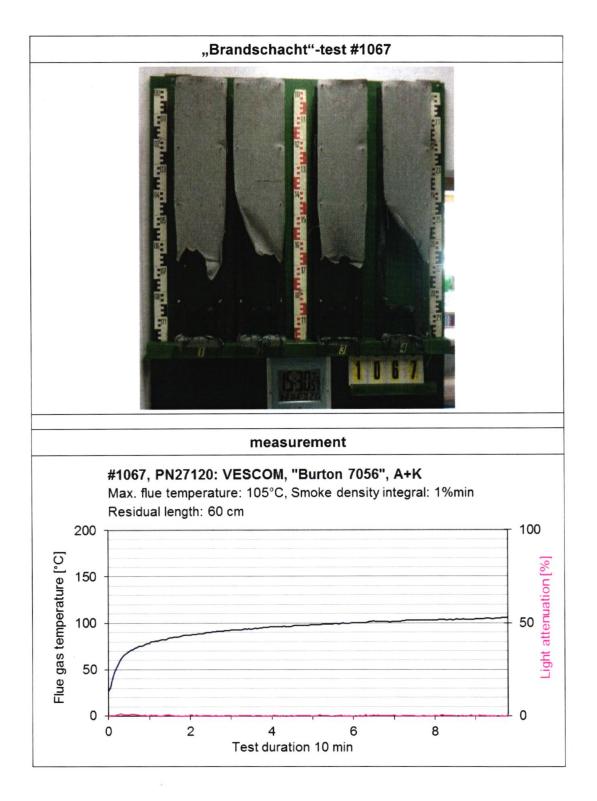
JOSE RAWAC Fladungen, 19.07.2023 E PRUF. clerk in charge: Fladung (Dipl.-Ing.(FH) Jürgen Hammer)

Head of the test laboratory:

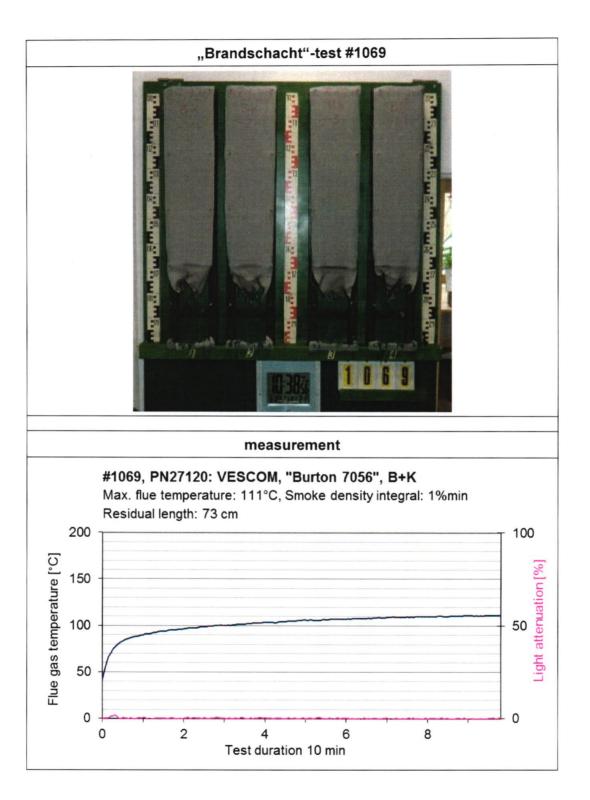
(Dipl.-Ing.(FH) Andreas Hoch)



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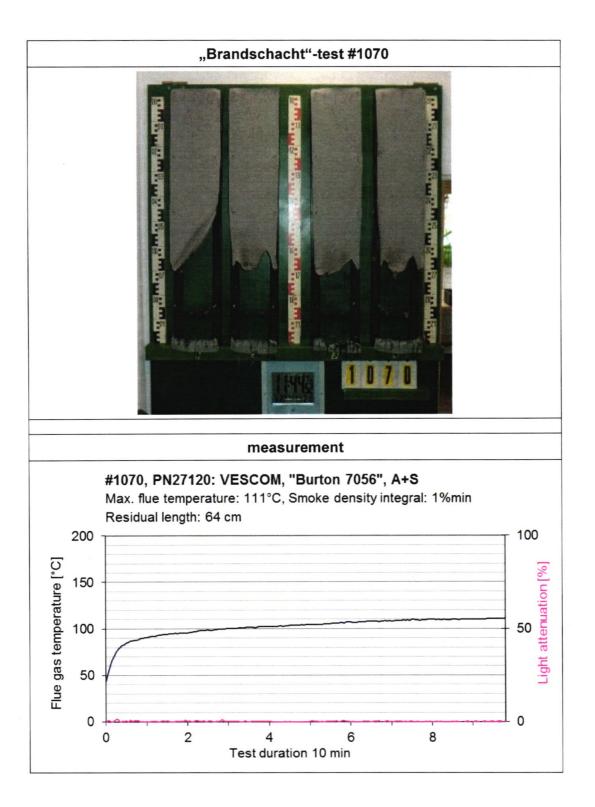








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Test for normal flammability classifying B2 according to DIN 4102

- 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 weft direction / side A and side B

- 4. Date of test CW 12 in 2018
- 5. Results

"Burton 7056": flaming side B in warp direction			edge	-test				s	urfac	ce-tes	st		
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Dim
	1	1	1	1	1		5		3	4	5		
ignition ¹⁾							-/-						S
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	-/-	-/-	-/-								S
max. flame height	7	7	5	5	6		3						cm
time self cessation of the flames	10	12	11	8	12		7						
end of afterflame ¹⁾	10	14	14	11	13		10						s
end of glowing ¹⁾	-/-	-/-	-/-	-/-	-/-		-/-						s
flames were extinguished after ¹⁾	-/-	_/_	-/-	-/-	-/-		-/-						
smoke development (visual)			mode	rate					litt	tle			./.
dropping of burning material during 20 s1)	-/-	-/-	-/-	-/-	-/-		-/-						s
Appearance after test: burned out till ma	ax. heig	ght 7 c	cm x v	vidth 2	2 cm								
							1				Contraction of the second s		-
"Burton 7056": additional tests			edge	test				s	urfac	e-tes	st		
"Burton 7056": additional tests samples no.	1	2	edge 3	-test 4	5	6	1	s 2	urfac 3	e-tes	st 5	6	Dim
	1				5	6	1					6	s Dim
samples no.		2	3	4	5 	6 		2	3	4	5		
samples no. ignition ¹⁾	1	2	3	4		6 	5	2 5	3 5	4	5		s
samples no. ignition ¹⁾ reaching the mark of measurement ¹⁾²⁾ max. flame height time	1 _/_	2 1 -/-	3 1 -/-	4 		6 	5 _/-	2 5 _/-	3 5 _/-	4	5 		s s
samples no. ignition ¹⁾ reaching the mark of measurement ¹⁾²⁾ max. flame height	1 _/- 6	2 1 -/- 5	3 1 -/- 5	4 			5 -/- 3	2 5 -/- 3	3 5 -/- 3	4	5 		s s
samples no. ignition ¹⁾ reaching the mark of measurement ¹⁾²⁾ max. flame height time self cessation of the flames	1 -/- 6 15	2 1 -/- 5 11	3 1 -/- 5 10	4	 	 	5 -/- 3 8	2 5 -/- 3 8	3 5 -/- 3 7	4	5 		s s cm
samples no. ignition ¹⁾ reaching the mark of measurement ¹⁾²⁾ max. flame height time self cessation of the flames end of afterflame ¹⁾	1 -/- 6 15 15	2 1 -/- 5 11 11	3 1 -/- 5 10 10	4 	 	 	5 -/- 3 8 12	2 5 -/- 3 8 12	3 5 -/- 3 7 10	4	5 	 	s s cm s
samples no. ignition ¹⁾ reaching the mark of measurement ¹⁾²⁾ max. flame height time self cessation of the flames end of afterflame ¹⁾ end of glowing ¹⁾	1 -/- 6 15 15 -/-	2 1 -/- 5 11 11 -/- -/-	3 1 -/- 5 10 10 -/-	4 	 	 	5 -/- 3 8 12 -/-	2 5 -/- 3 8 12 -/-	3 5 -/- 3 7 10 -/-	4 	5 	 	s cm s s
samples no. ignition ¹⁾ reaching the mark of measurement ¹⁾²⁾ max. flame height time self cessation of the flames end of afterflame ¹⁾ end of glowing ¹⁾ flames were extinguished after ¹⁾	1 -/- 6 15 15 -/-	2 1 -/- 5 11 11 -/- -/-	3 1 -/- 5 10 10 -/- -/-	4 	 	 	5 -/- 3 8 12 -/-	2 5 -/- 3 8 12 -/-	3 5 -/- 3 7 10 -/- -/-	4 	5 	 	s cm s s

¹⁾ time mentioned from the beginning of the test²⁾ during 20 Sec -/- no appearance

-/- no appearance

pearance -- no information

6. <u>Remarks and explanations to the testing procedure</u> - none -

7. <u>Opinion concerning the dropping of burning material</u> The test for normal flammability shows no burning dripping material