

Informationen

zur Zertifizierung nach Baustoffklasse DIN 4102-1 – B1

Stoff • tokio OF5

Farb.-Nr.

089.xx

Prüfzeugnis **PZ-Hoch-230659**

Gültigkeit 31.05.2028

Bestätigung Die Firma erfal bestätigt, dass diesen Qualitäten das Prüfzeugnis **PZ-Hoch-230659** zugrunde liegt.



Jörg Erler
Geschäftsführer

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Bei Fragen zur Pflege unserer Stoffe melden Sie sich bitte bei:

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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-230659

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	COULISSE B.V. Vonderweg 48 NL-7468DC Enter
description of samples	fabric consisting of Polyester, with PVC-coating and additional PU-coating on one side, in 3 different colours
name of the material	„SCR-3005“
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	31.05.2028
result	The examined product meets in any colour the requirements of class B1 for "schwerentflammbar" (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 5 pages and 6 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 37059: "SCR-3005" colour: brown

- fabric consisting of 30% Polyester, coated with 70% PVC and additional coated with PU on one side -

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 424 g/m² thickness: about 0,58 mm

PN 37060: "SCR-3005" colour: white

- fabric consisting of 30% Polyester, coated with 70% PVC and additional coated with PU on one side -

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 425 g/m² thickness: about 0,53 mm

PN 37061: "SCR-3005" colour: grey-white

- fabric consisting of 30% Polyester, coated with 70% PVC and additional coated with PU on one side -

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 428 g/m² thickness: about 0,55 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

#6487	flaming side A in warp direction	brown
#6488	flaming side B in weft direction	brown
#6492	flaming side A in warp direction	white
#6493	flaming side A in warp direction	grey-white

4. Date of test CW 22 in 2023

5. Results

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

line no.	Measurement	Result with the tested specimen					Dim.
		#6487	#6488	#6492	#6493	---	
		warp A	weft B	warp A	warp A	---	
	colour of fabric	brown		white	grey-white	---	
1	<u>Number of specimen arrangement</u> acc. to. DIN 4102/T15, schedule 1	1	1	1	1	---	
2	<u>Maximum flame height above bottom edge of the specimen</u>	60	50	60	50		
3	Time ¹⁾	0:07	0:06	0:08	0:06	---	cm min:s
4	<u>Burn through / melting</u> Time ¹⁾	0:08	0:08	0:08	0:08	---	min:s
5	<u>Observations on the back side of the specimen</u> Flames / Glowing	---	---	---	---	J.	
6	Time ¹⁾	J.	J.	J.	J.	J.	min:s
7	<u>Change of color</u>	---	---	---	---	J.	
8	Time ¹⁾	J.	J.	J.	J.	J.	min:s
9	<u>Falling of burning droplets</u> Start ¹⁾	J.	J.	J.	J.	J.	
10	Extent					J.	min:s
11	Start ¹⁾	J.	J.	J.	J.	J.	
12	Extent					J.	min:s
13	<u>sporadic falling of burning droplets ²⁾</u>	---	---	---	---	J.	
14	continuous falling of burning droplets ²⁾	---	---	---	---	J.	min:s
15	<u>Afterflame time at the bottom of the sieve (max.)</u>	J.	J.	J.	J.	J.	min:s
16	<u>Impairment of the burner by dropping or falling material:</u> Time ¹⁾	J.	J.	J.	J.	J.	min:s
17	<u>Premature end of test</u>						
18	Final occurrence of burning at the specimen ¹⁾	0:45	0:50	1:25	1:15	J.	min:s
19	Time of eventually end of test ¹⁾	J.	J.	J.	J.	J.	min:s
20	<u>Afterflame after end of test</u>						
21	Time ¹⁾	J.	J.	J.	J.	J.	min:s
	Number of specimen	---	---	---	---	J.	
	Front side of specimen ²⁾	---	---	---	---	J.	
	Back side of specimen ²⁾	---	---	---	---	J.	
	flame length	---	---	---	---	J.	cm

line no.	Measurement	Result with the tested specimen					Dim.
		#6487	#6488	#6492	#6493	---	
	Test number						
	flamed direction	warp	weft	warp	warp	---	
	flamed side	A	B	A	A		
22	<u>Afterglow after end of test</u>	J.	J.	J.	J.	J.	
23	Time ¹⁾	J.	J.	J.	J.	J.	min:s
24	Number of specimen	J.	J.	J.	J.	J.	
25	<u>Place of appearance</u>	J.	J.	J.	J.	J.	
26	Lower half of the specimen ²⁾	J.	J.	J.	J.	J.	
27	Upper half of the specimen ²⁾	J.	J.	J.	J.	J.	
28	Front side of specimen ²⁾	J.	J.	J.	J.	J.	
29	Back side of specimen ²⁾	J.	J.	J.	J.	J.	
30	<u>Density of smoke</u>						
28	≤ 400 % * min	16	13	15	17	---	% * min
29	> 400 % * min ⁴⁾	J.	J.	J.	J.	J.	% * min
30	Diagram: encl. no.	1	2	3	4	---	
31	<u>Residual lengths: individual value</u> ³⁾						
	Specimen 1	66	63	62	66	---	cm
	Specimen 2	64	66	65	66	---	cm
	Specimen 3	63	65	65	62	---	cm
	Specimen 4	66	67	71	68	---	cm
32	<u>Average value, individual test</u> ³⁾	65	65	66	66	---	
33	<u>Photo of specimen in enclosure no.</u>	1	2	3	4	---	
34	<u>Flue gas temperature</u>	115	117	120	116	---	°C
35	Maximum of average value						
36	Time ¹⁾	09:11	08:25	10:00	09:24	---	min:s
36	Diagram: encl. no.	1	2	3	4	---	
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

linen o	measurement	Result with the tested specimen					dime nsion
		#6487	#6488	#6492	#6493	---	
	flamed direction flamed side	warp A	weft B	warp A	warp A	--	
	colour of fabric	brown		white	grey-white	--	
1	residual length	65	65	66	66	---	cm
2	max. smoke temperature	115	117	120	116	---	°C
3	density of smoke - integral	16	13	15	17	--	%min
4	remarks: none						

According to DIN 4102, part 1, "schwerentflammbar" (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 & 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, 01.06.2023

clerk in charge:


(Dipl.-Ing.(FH) Jürgen Hammer)



Head of the test laboratory:


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

„Brandschacht“-test #6487

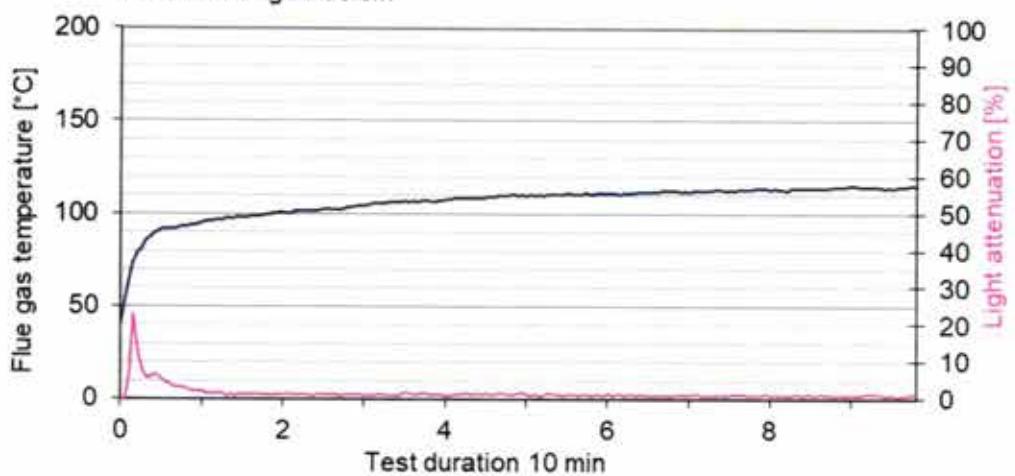


measurement

#6487, PN37059: COULISSE, "SCR-3005", A+K

Max. flue temperature: 115°C, Smoke density integral: 16%min

Residual length: 65 cm



„Brandschacht“-test #6488

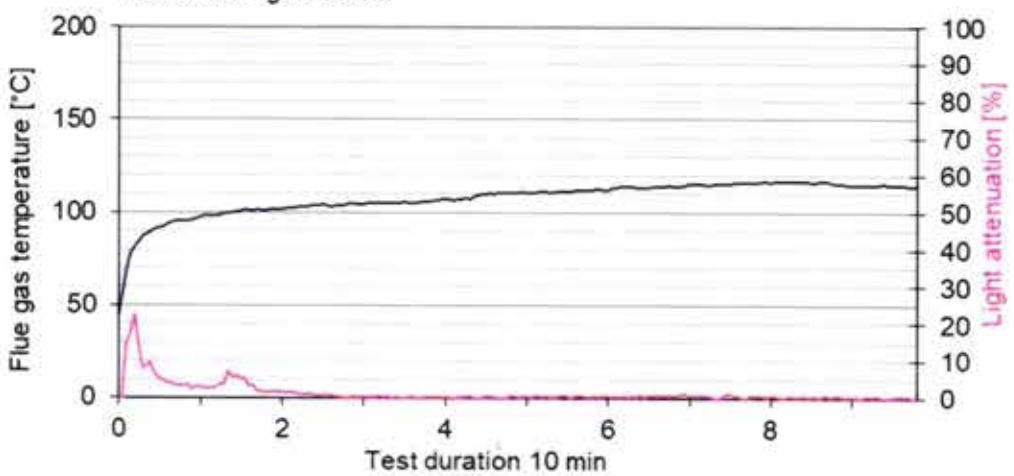


measurement

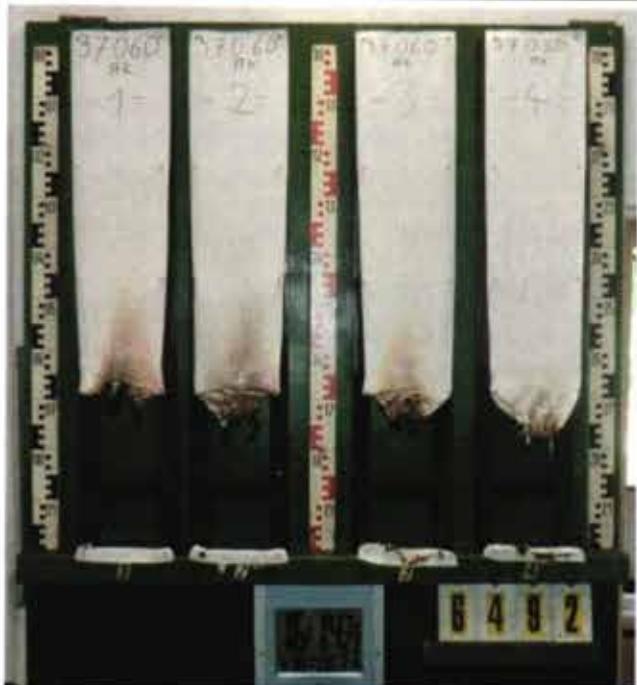
#6488, PN37059: COULISSE, "SCR-3005", B+S

Max. flue temperature: 117°C, Smoke density integral: 13%min

Residual length: 65 cm



„Brandschacht“-test #6492

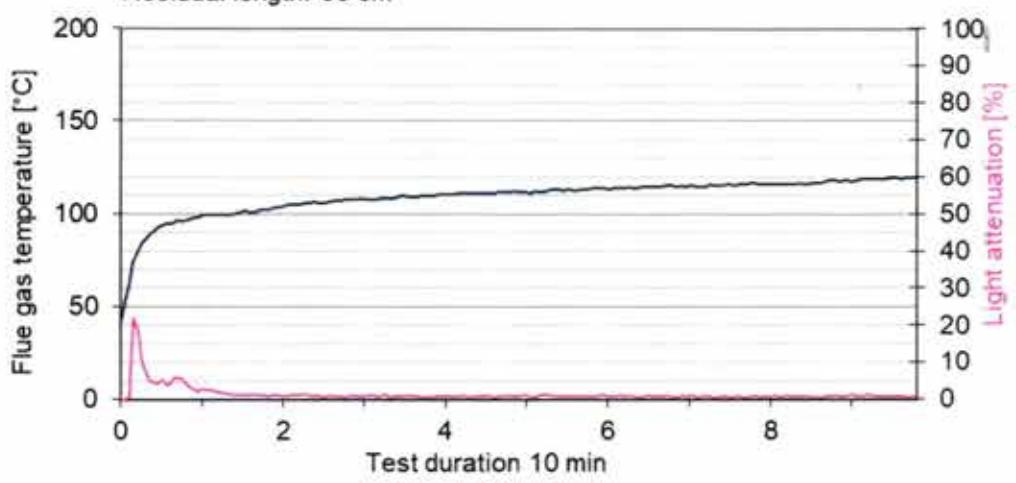


measurement

#6492, PN37060: COULISSE, "SCR-3005", A+K

Max. flue temperature: 120°C, Smoke density integral: 15%min

Residual length: 66 cm



„Brandschacht“-test #6493

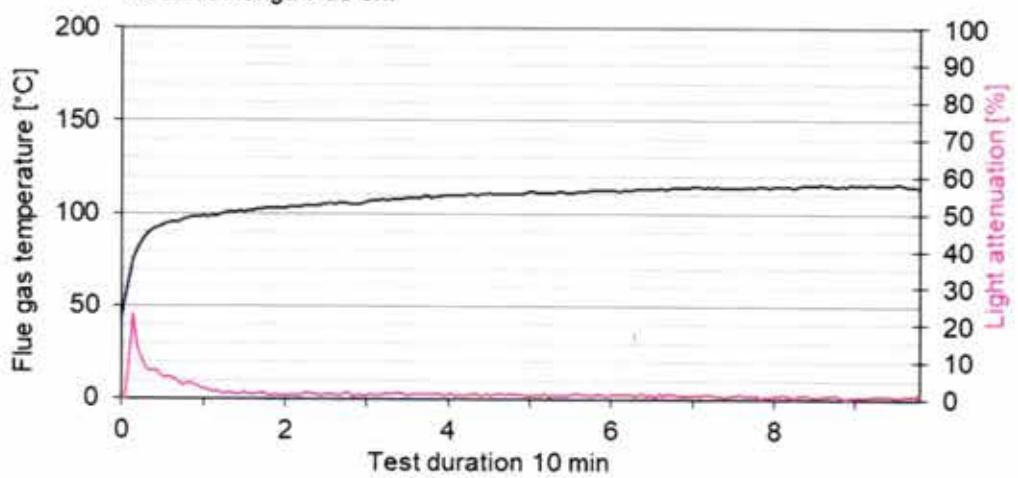


measurement

#6493, PN37061: COULISSE, "SCR-3005", A + K

Max. flue temperature: 116°C, Smoke density integral: 17%min

Residual length: 66 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 / side A and side B

4. Date of test CW 20 in 2023

5. Results

PN 37059: flaming 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		11	9	9	9	10	--	6	--	--	--	--	--	cm
time		10	10	10	10	10	--	15	--	--	--	--	--	
self cessation of the flames end of afterflame ¹⁾		12	15	15	15	12	--	15	--	--	--	--	--	s
end of glowing ¹⁾		16	17	17	17	16	--	./.	--	--	--	--	--	s
flames were extinguished after ¹⁾		-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	
smoke development (visual)		heavy						moderate						./.
dropping of burning material during 20 s ¹⁾		-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. height 8 cm x width 6 cm														

PN 36520: 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		7	7	11	--	--	--	6	6	6	--	--	--	cm
time		15	15	10	--	--	--	15	15	15	--	--	--	
self cessation of the flames end of afterflame ¹⁾		16	16	11	--	--	--	16	20	15	--	--	--	s
end of glowing ¹⁾		-/-	20	16	--	--	--	18	22	-/-	--	--	--	s
flames were extinguished after ¹⁾		-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
smoke development (visual)		heavy						moderate						
dropping of burning material during 20 s ¹⁾		-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
Appearance after test: burned out till max. height 8 cm x width 6 cm														

¹⁾ time mentioned from the beginning of the test ²⁾ during 20 Sec -/- no appearance -- no information

K: warp / S: weft

PN 37060: additional tests	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
samples no.													
ignition ¹⁾	1	1	1	1	--	--	3	3	3	3	--	--	s
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
max. flame height	8	8	8	8	--	--	5	5	5	8	--	--	cm
time	15	14	15	15	--	--	15	15	15	15	--	--	
self cessation of the flames end of afterflame ¹⁾	16	14	16	16	--	--	15	15	15	17	--	--	s
end of glowing ¹⁾	25	20	24	23	--	--	-/-	-/-	-/-	20	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visual)	heavy						moderate						
dropping of burning material during 20 s ¹⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. height 6 cm x width 3 cm													

PN 37061: additional tests	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
samples no.													
ignition ¹⁾	1	1	1	1	--	--	3	3	3	3	--	--	s
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
max. flame height	9	8	9	8	--	--	6	6	6	8	--	--	cm
time	15	10	15	10	--	--	15	15	15	15	--	--	
self cessation of the flames end of afterflame ¹⁾	16	12	18	12	--	--	15	15	15	16	--	--	s
end of glowing ¹⁾	17	15	20	15	--	--	-/-	-/-	-/-	18	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visual)	heavy						moderate						
dropping of burning material during 20 s ¹⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. height 9 cm x width 4,5 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.