#### Prüfinstitut Hoch

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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-240462-2

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

Silent Gliss GmbH

Rheinauenstraße 8

D-79415 Bad Bellingen

description of samples

latticed polyester fabric, coated on both sides with PVC in different

versions and colours

name of the material

"Versascreen 1%-2%-5%-10%"

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

31.10.2026

result

The examined product meets in any colour suspended freely or

with distance of >40 mm to same or other plain materials the

requirements of class B1 for hardly flammable

("schwerentflammbare") building materials according to DIN

4102, pt. 1 (May 1998).

This test report includes 4 pages and 7 enclosures.

Remark: If the building material mentioned above is not used as a 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 as defined by 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 as defined by State Building Prescriptions. This has to be certified instead by:

- "allgemeine bauaufsichtliche Zulassung" (General Building Inspectorate Approval ) or by
- "allgemeines bauaufsichtliches Prüfzeugnis" (General Building Inspectorate Certificate) or by

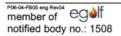
"Zustimmung im Einzelfall" (Exceptional Approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for irregular building products for the required proofs of applicability.

Without written consent of the test laboratory, this test report may only be published or duplicated during its denoted period of validity, providing that no changes to appearance or content are made.







### 1. Description of test material in condition as delivered

PN 39061 "Versascreen 10%"

white, latticed polyester fabric, coated on both sides with PVC

both sides equal

characteristic values determined by the test laboratory:

thickness:

about 0,53 mm

area weight:

about 397 g/m<sup>2</sup>

PN 39062 "Versascreen 10%"

grey, latticed polyester fabric, coated on both sides with PVC

both sides equal

characteristic values determined by the test laboratory:

thickness:

about 0.53 mm

area weight:

about 392 g/m<sup>2</sup>

PN 39065 "Versascreen 1%"

grey, latticed polyester fabric, coated on both sides with PVC

both sides equal

characteristic values determined by the test laboratory:

thickness:

about 0,70 mm

area weight:

about 538 g/m<sup>2</sup>

PN 39066 "Versascreen 1%"

black, latticed polyester fabric, coated on both sides with PVC

both sides equal

characteristic values determined by the test laboratory:

thickness:

about 0,67 mm

area weight:

about 518 g/m<sup>2</sup>

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

#### 2. Preparation of samples

Samples with a size of 1000 mm height and 190 mm width where cut from the material for fire testing. The samples were kept in climate chamber 23/50 until they reached constant weight.

#### 3. Arrangement of samples

mounting:	freely suspended		
#7553	flaming side A in warp direction	PN39065	grey
#7555	flaming side B in weft direction	PN39065	grey
#7564	flaming side B in weft direction	PN39066	black
#7562	flaming side B in weft direction	PN39061	white
#7563	flaming side B in weft direction	PN39062	grey

#### 4. Date of test CW 14 in 2024



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

	Measurement	Result with the tested specimen							
6.	Test number	#7553	#7555	#7564	#7562	#7563	Din.		
<u>li</u>	flaming direction	warp	weft	weft	weft	weft	亩		
	side	Α	В	В	В	В			
	Colour of the fabric	grey	grey	black	white	grey			
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	1			
2	Maximum flame height	50	60	60	50	50	cm		
3	Time 1)	0:09	0:09	0:09	0:08	0:05	min:s		
4	Burn-through / melting 1)	0:10	0:11	0:10	0:06	0:05	min:s		
5	Observations on the back side Flames / Glowing 1)	-/-	./.	./.	./.	./.	min:s		
6	Change of colour 1)	-/-	./.	./.	./.	J.	min:s		
7	Falling of burning droplets 1)	-/-	./.	./.	./.	J.			
8	sporadic falling of burning droplets 2)						min:s		
9	continuous falling of burning droplets 2)						min:s		
10	Falling of burning parts 1)	0:50	./.	./.	1:02	./.	min:s		
11	sporadic falling of burning parts <sup>2)</sup>	Х			-x				
12	continuous falling of burning parts <sup>2)</sup>		-	-		-	-		
13	Burning duration at sieve plate (max.)	0:05	./.	./.	0:07	J.	min:s		
14	Impairment of burner by material 1)	-/-	./.	./.	./.	J.	min:s		
15	End of burning at the specimen 1)	7:44	3:18	0:50	1:52	4:02	min:s		
16	Time of eventually end of test 1)	-/-	./.	./.	./.	J.	min:s		
17	Afterburning after end of test 1)	-/-	-/-	-/-	-/-	-/-	min:s		
18	Number of specimen								
19	Front side / Rear side of specimen 2)								
20	flame length		-				cm		
21	Afterglow after end of test 1)	-/-	-/-	-/-	-/-	-/-	min:s		
22	Number of specimen	-	-			-			
23 24	Lower / Upper half of the specimen 2)		-						
	Front side / Rear side of specimen 2)		- ,	-	-				
25	Density of smoke ≤ 400 % * min	26	19	25	21	17	%min		
26	> 400 % * min <sup>4)</sup>	-	-	-	-	-	%min		
27	Residual lengths: Specimen 1	59	58	66	58	65	cm		
	individual values <sup>3)</sup> Specimen 2	63	58	64	62	67	cm		
	Specimen 3	62	58	63	60	70	cm		
	Specimen 4	65	59	65	62	66	cm		
28	Average residual length <sup>3)</sup>	62	58	65	61	67	cm		
29	Maximum smoke temperature	114	116	113	118	113	°C		
30	Time 1)	07:12	09:39	09:48	08:44	07:43	min:s		
31	Diagram and Photo of specimen in enclosure no.	1	2	3	4	5			
32	Remarks: - none -								

<sup>1)</sup> indication of times relative to beginning of test

<sup>2)</sup> checked if applicable

<sup>3)</sup> indication of carrier/foam layer separated in case of fire-proofing agents

<sup>4)</sup> very strong development of smoke

#### 6. Explanations concerning the testing procedure

The remaining tests could be skipped as the residual lengths exceeded 45 cm.

#### 7. Summary of results and additional establishments to Fire Behaviour

lineno .	Measurement Result with the tested specimen							
i	test-no.	#7553	#7555	#7564	#7562	#7563	oisr	
fla	Side	Α	В	В	В	В	dimension	
min g	Direction	warp	weft	weft	weft	weft	ġ	
	colour of the fabric	grey	grey	black	white	grey		
1	residual length	62	58	65	61	67	cm	
2	max. smoke temperature 114		116	113	118	113	°C	
3	integral of smoke density	26	19	25	21	17	%min	
4	remarks: none							

According to DIN 4102, pt. 1, hardly flammable ("schwerentflammbare") building materials must meet the requirements of class B2.

After performing additional tests in the ignitability apparatus, this could be verified (encl. 6&7).

#### 8. Special remarks

- This report is only valid for the material as described in paragraph 1. In combination with other materials or with additional coatings or primers 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 if the material is used as a building product in the sense of the State Building Regulations ("Landesbauordnungen", 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 used 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 denoted date on page 1. The test report becomes invalid in case the standards on which these tests are based are changed.

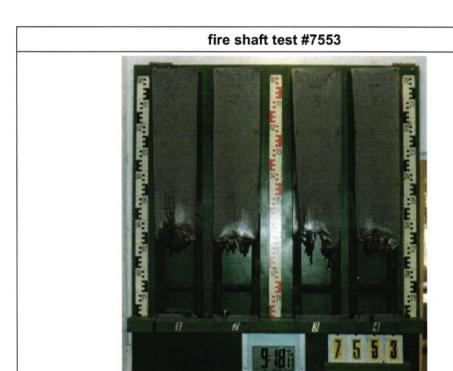
Fladungen, 22.05.2024

Clerk in charge:

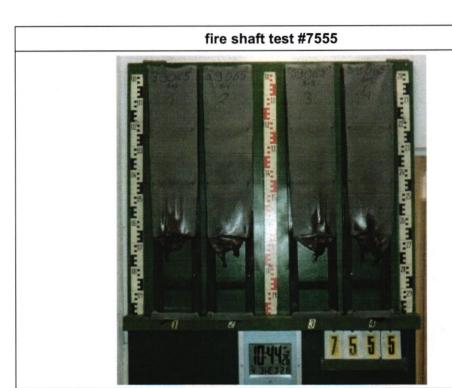
Head of test laboratory:

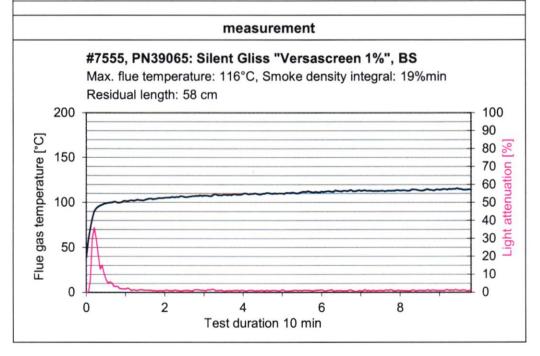
(Silke Biendara)

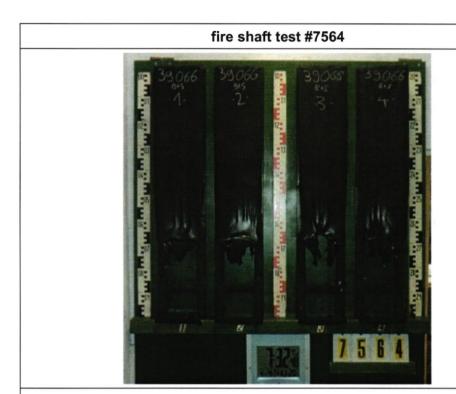
(Dipl.-Ing. (FH) Andreas Hoch)



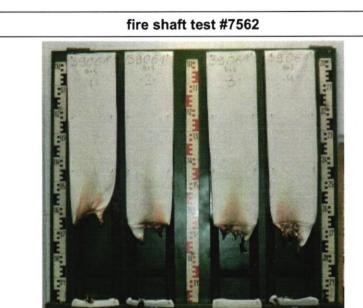
#### measurement #7553, PN39065: Silent Gliss "Versascreen 1%", AK Max. flue temperature: 114°C, Smoke density integral: 26%min Residual length: 62 cm 200 100 90 Flue gas temperature [°C] 80 😤 150 70 attenuation 60 100 50 40 30 50 20 10 0 2 8 Test duration 10 min

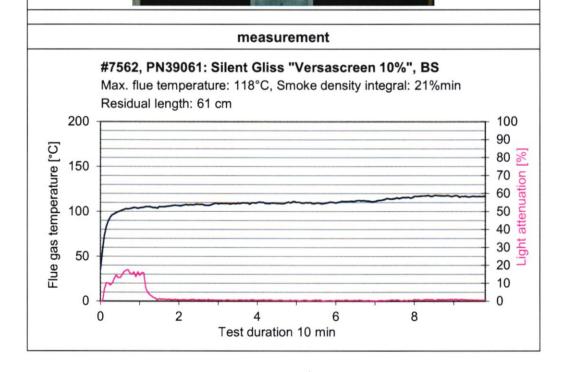


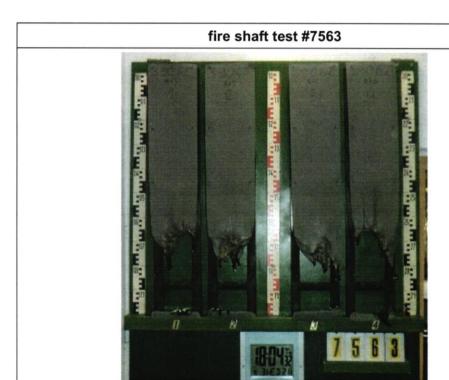




#### measurement #7564, PN39066: Silent Gliss "Versascreen 1%", BS Max. flue temperature: 113°C, Smoke density integral: 25%min Residual length: 65 cm 200 100 90 Flue gas temperature [°C] 80 😤 150 70 00 50 attenuation 100 30 50 20 10 0 0 2 6 8 Test duration 10 min







# measurement #7563, PN39062: Silent Gliss, "Versasreen 10%", BS Max. flue temperature: 113°C, Smoke density integral: 17%min Residual length: 67 cm 200 100 90 Flue gas temperature [°C] 80 😤 150 70 60 50 40 Tight attenuation [3] 100 50 20 10 2 6 8 Test duration 10 min

# Test for normal flammability classifying B2 according to DIN 4102

# 1. Description of test material in condition as delivered cf. page 2

# 2. Preparation of samples

Samples for the ignitability apparatus were cut from the sample. The samples were kept in a climate 23/50 until they reached constant weight.

## 3. Arrangement of samples

freely suspended flaming side A and side B in warp and weft direction

4. <u>Date of test</u> CW 14 in 2024

#### 5. Results

PN 39061		edge-test surfa			surfac	ce-test	Dim		
samples no.	1	2	3	4	5	6	7	8	Ī
side and direction	AL	BL	AQ	BQ	AL	BL	AQ	BQ	
ignition <sup>1)</sup>	1	1	1	1	3	3	3	3	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
maximum flame height	8	10	8	8	10	10	12	10	cm
time of max. flame height	15	15	10	15	15	15	15	15	s
self-cessation of flames <sup>1)</sup>	15	15	10	15	15	15	22	17	s
end of glowing <sup>1)</sup>	26	18	16	27	16	17	16	20	s
smoke development (visually)		moderate				moderate			
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	S
appearance after test: burned out till max. width 4 cm x height 10 cm									

PN 39062		edge-test			surface-test				Dim
samples no.	1	2	3	4	5	6	7	8	Ö
side and direction	AL	BL	AQ	BQ	AL	BL	AQ	BQ	
ignition <sup>1)</sup>	1	1	1	1	3	3	3	3	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	S
maximum flame height	8	10	10	12	8	8	11	11	cm
time of max. flame height	10	15	12	15	10	15	15	15	s
self-cessation of flames <sup>1)</sup>	10	15	12	16	10	15	17	17	s
end of glowing <sup>1)</sup>	16	17	16	31	15	16	20	19	s
smoke development (visually)	moderate			moderate					
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	S
appearance after test: burned out till ma	appearance after test: burned out till max. width 3 cm x height 11 cm								

<sup>1)</sup> time denoted relative to beginning of test

<sup>-/-</sup> no occurrence

<sup>--</sup> no information

L/Q lengthwise / crosswise direction

<sup>2)</sup> during 20 Sec



# Lerchenweg 1 D-97650 Fladungen

PN 39065		edge-test				surface-test			
samples no.	1	2	3	4	5	6	7	8	Dim
side and direction	AL	BL	AQ	BQ	AL	BL	AQ	BQ	
ignition <sup>1)</sup>	1	1	1	1	3	3	3	3	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
maximum flame height	11	11	11	11	10	11	10	10	cm
time of max. flame height	18	15	17	17	15	15	15	15	s
self-cessation of flames <sup>1)</sup>	18	20	15	17	17	16	16	16	s
end of glowing <sup>1)</sup>	19	21	16	20	17	20	18	18	s
smoke development (visually)	moderate			moderate					
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
appearance after test: burned out till ma	ax. wid	lth 3,5	cm x	heigh	t 12 cr	n			

PN 39066		edge-test			surface-test				- Mi
samples no.	1	2	3	4	5	6	7	8	ā
side and direction	AL	BL	AQ	BQ	AL	BL	AQ	BQ	
ignition <sup>1)</sup>	1	1	1	1	3	3	3	3	s
measurement mark reached1)2)	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
maximum flame height	9	9	9	9	8	8	8	8	cm
time of max. flame height	15	15	15	15	15	15	15	15	s
self-cessation of flames <sup>1)</sup>	16	17	16	16	15	15	15	15	s
end of glowing <sup>1)</sup>	18	22	20	19	17	16	16	17	s
smoke development (visually)		moderate			mod	erate	•		
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
appearance after test: burned out till max, width 3.5 cm x height 11 cm									

<sup>1)</sup> time denoted relative to beginning of test
2) during 20 Sec

K / S warp / weft direction

# 6. Remarks and explanations to the testing procedure - none -

# 7. Opinion concerning the dropping of burning material

The test for normal flammability shows no dropping burning material.

<sup>-/-</sup> no occurrence

L/Q lengthwise / crosswise direction

<sup>--</sup> no information