

TeraPrint Produktunterlage

Gebrandete TeraPrint-Downloadunterlage

PRODUKT	Doppelseitiges Roll-Up Banner
UNTERLAGE	Sanotex Brandschutzzertifikat
TYP	fire_certificate
ORIGINALSEITEN	8
STAND	16.06.2026
DATEI	products/double-roll-up/assets/documents/41f1895eabaf8885e61a4c04cdf e2f83ae98dbded8ca612c6ce68348823683de.pdf

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for the proof of fire behaviour according to DIN 4102-1

Reference: FLT 3734421 (Translation of the German Prüfzeugnis - no guarantee for translation of technical terms)

Sponsor: TIDER Import Export
Spectrumlaan 47
2665NM Bleiswijk
The Netherlands

Order: 2021-03-09 **Arrived:** 2021-03-09

Description of samples: On both side coated polyester fabric, named "TX-320 FR".
(for details see page 2)

Delivered: 2021-02-16

Content of request: Proof of flammability to classify building materials to class B1 "schwerentflammbar" according to DIN 4102-1

Assessment: The examined product meets the requirements of class B1 for "schwerentflammbare" (not easily flammable) building materials according to DIN 4102-1. If used in one layer, suspended freely or with distance of >40 mm to the same or other plain materials.
(for details see page 5)

Validity: 2026-02-28

Sampling: The samples were sent to the laboratory by the sponsor

Remark: If the above-mentioned building material is not used as product according to MBO § 2, there is no need for a general building supervisory test certificate.

This test certificate is not regarded as the sole proof if the tested building material is used as building product within the meaning of state building prescriptions (MBO § 17).

This test certificate 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 certificate can serve as a basis for building supervisory procedures for:

- regulated building products for the pre scribed proof of conformity
- non-regulated building products for the needed proof of applicability.

This test certificate comprises 5 pages and 3 enclosures.

Approved testing, inspection and certification body

This test certificate must not be published and copied preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents. Agreement of the test laboratory has to be given in any case if norms in which the tests are based or other technical standards have changed.



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PÜZ-Stelle (LBO): BRA09

TEST CERTIFICATE



1 Description of test material

1.1 Test material (according to the sponsor)

The material provided is fabric made of polyester coated on one side with a white and on the rear side with grey coloured acrylic coating containing flame retardant treatments. The coated fabric is intended to be used for the production of advertising media (roll-up, backdrop, pop-up), as covering or for decorative purposes and was named with the trade name "Air-Textx", article TX-320FR by the sponsor.

1.2 Description of the delivered samples

For the tests, a section of a fabric made of plastic fibres coated on both sides, with a length of approximately 13 m and a width of 0.91 m was submitted to the laboratory by the sponsor. The sample was marked with the article number, sample size and batch 754402201019.

Colour: White coating on one side, grey coating on the back.

Other specifications are not known to the laboratory, a retain sample is stored.

Characteristic values see section 4.1; photos: see enclosures 1, 2.

2 Preparation of samples

For the small burner ("Brennkasten") samples for edge flame exposure (dimensions 190 mm x 90 mm) and samples for surface flame exposure (dimensions 230 mm x 90 mm) were cut in warp and in weft orientation of the base fabric.

For the fire shaft ("Brandschacht") tests 4 specimens were assembled. The samples (dimensions 1000 mm x 190 mm) for the test specimens A and B were cut in warp orientation; the samples for the test specimens C and D were cut in weft orientation of the fabric.

Afterwards all samples were kept in a climate chamber acc. DIN 50014-23/50-2 until they reached constant weight.

3 Arrangement of samples

The tests in the fire shaft ("Brandschacht") have been performed acc. DIN 4102-1 and -16 (building materials class B1). The small burner tests ("Brennkasten") have been performed acc. DIN 4102-1, chapter 6.2.5 (building materials class B2) without edge protection.

Arrangement of all samples: The tests have been carried out in single layer, freely suspended, both from the front and the rear side.

Period of testing: March 2021

4 Results

- section 4.1 Material characteristics
- section 4.2.1 Test results class B2 (Brennkasten)
- section 4.2.2 Test results class B1 (Brandschacht)

4.1 Material characteristics

Table 1

Characteristics		Manufacturer's data	Measured values	
			m.v.	s
Total thickness	[mm]	0,315 ± 10	0.31	0.003
Weight per unit area	[g/m ²]	300 ± 5 %	306	

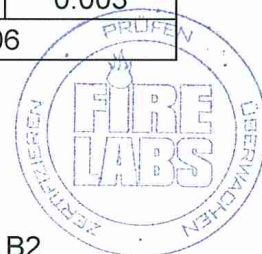
m.v. mean value (n=10)

s standard deviation

4.2 Results of the fire behaviour

4.2.1 Test results class B2 (Brennkasten)

All building materials class B1 must also meet the requirements of materials class B2 (flammable). The material, tested in "Brennkasten" acc. DIN 50 050 meets the requirements class B2; the material did not show burning particles/droplets during these tests (Results: see enclosure 3).



4.2.2 Test results class B1 (Brandschacht)

Table 3

Test results (part 1)						
line no.		Specimen				requirements
		A	B	C	D	
1	<u>Number of specimen arrangement</u> acc. DIN 4102 –15 Table 1	1	1	1	1	
2	<u>Maximal flame height</u> above bottom edge cm	50	50	50	50	*)
3	Time ¹⁾ min	1	1	1	1	
4	<u>Burning / melting through</u> Time ¹⁾min	1	1	1	1	
5	<u>Back side of the specimens:</u> <u>Flames / glowing</u> Time ¹⁾ min	./.	./.	./.	./.	
6	<u>Discolouring</u> Time ¹⁾ min					
7	<u>Falling of burning droplets</u> Begin ¹⁾ min	No	No	No	No	
8	Extend: Sporadic falling of burning droplets					
9	Continuous falling of burning droplets					
10	<u>Falling of burning parts</u> Begin ¹⁾ min	Yes 1	Yes 1	Yes 1	Yes 1	
11	Extend: Sporadic falling of burning parts	Yes	Yes	Yes	Yes	
12	Continuous falling of burning parts	No	No	No	No	
13	<u>Afterflame time at the bottom of the sieve (max.)</u> min:s	0:12	0:16	0:13	0:09	
14	<u>Impairment of the burner flames by dropping or falling Material</u> Time ¹⁾ min:s	./.	./.	./.	./.	
15	<u>Premature end of test</u> Final occurrence of burning at the specimen ¹⁾min	2	2	2	2	
16	Time of eventually end of test ¹⁾ min:s	./.	./.	./.	./.	

¹⁾ Indication of time: from the beginning of testing procedure

- Not tested

./.

*) No cause for complaint



Test results (part 2)						
line no.		Specimen				requirements
		A	B	C	D	
17	<u>Afterflame after end of test</u>	No	No	No	No	
18	Timemin:s					
19	Number of specimen					
20	Front side of specimen					
21	Back side of specimen					
21	Flame lengthcm					
22	<u>Afterglow after end of test</u>	No	No	No	No	
23	Timemin:s					
23	Number of specimen					
24	<u>Place of appearance:</u>					
24	Lower half of specimen					
25	Upper half of specimen					
26	Front side of specimen					
27	Back side of specimen					
28	<u>Smoke density</u>					
28	≤ 400 % min	19.2	22.5	17.7	17.2	
29	≥ 400 % min (very strong smoke density)	./.	./.	./.	./.	
30	Diagram fig. no.	1	3	5	7	
31	<u>Residual length</u>					
	Individual valuecm	67	55	62	56	> 0
		63	62	66	56	
		59	58	62	67	
		57	60	66	58	
32	Average valuecm	61	58	64	59	≥ 15
33	Photo of test specimen fig. no.	2	4	6	8	
34	<u>Flue gas temperature</u>					
35	Maximum of average value...°C	112	112	113	111	≤ 200
35	Time ¹⁾min:s	9:40	9:50	9:52	9:58	
36	Diagram fig. no.	1	3	5	7	
37	<u>Remarks:</u> line 13: Afterflame time at the bottom of the sieve < 20 sec. is not rated as “falling of burning parts or droplets”. line 32: Due to the residual length of > 45 cm no additional tests have been carried out (DIN 4102-16, 5.2 b)). (Diagrams and photos see Appendixes 1, 2)					

¹⁾ indication of time: from the beginning of testing procedure

./. not occurred

*) no cause for complaint

Specimen	Test-no.	Side of flame impingement	Direction of support fabric
A	734421-001	grey	warp
B	734421-002	white	
C	734421-003	grey	weft
D	734421-004	white	



5 Assessment

According to the test results in section 4.2 the material, described in section 1 and 4.1, fulfils the requirements of building materials class B1 according to DIN 4102-1 if the material is used in one layer, suspended freely or with a distance of > 40 mm to the same or other plain materials.

The requirements of building materials class B2 are also fulfilled. No falling of burning parts or droplets occurred during these tests.

The verification for

- outdoor usage (ageing by outdoor weathering)
- after washing or cleaning with chemicals

is not proved with this test certificate.

6 Special remarks

This certificate is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or surfaces etc. the burning behaviour may differ.

This test certificate is not regarded as the sole proof if the tested building material is used as a building product within the meaning of state building prescriptions (MBO § 17).

This test certificate is no substitute for a General Building Inspectorate Certificate. This test certificate is granted without prejudice to the rights of third parties, or particular private proprietary rights.

In General Building Inspectorates procedures this test certificate can be based for

- regulated building materials for the required proof of accordance
- for not regulated building materials for the required proof of applicability

The explanations given in DIN 4102-1 app. D, especially concerning an external production control has to be considered.

This test certificate is valid until 2026-02-28, provided that the test methods, the classification rules and the technology do not change during this period.

Borkheide, 12th of March 2021



Head of the test laboratory
(Dipl.-Ing. Uwe Kühnast)

This translation was issued the 12th March 2021, in a case of doubt the German version is valid solely.

Test specimen A

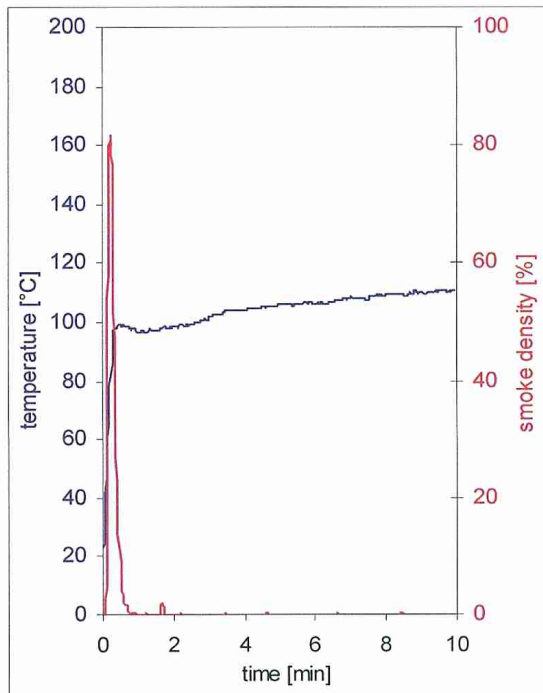


fig. 1
Graphs of the flue gas temperature and
the smoke density

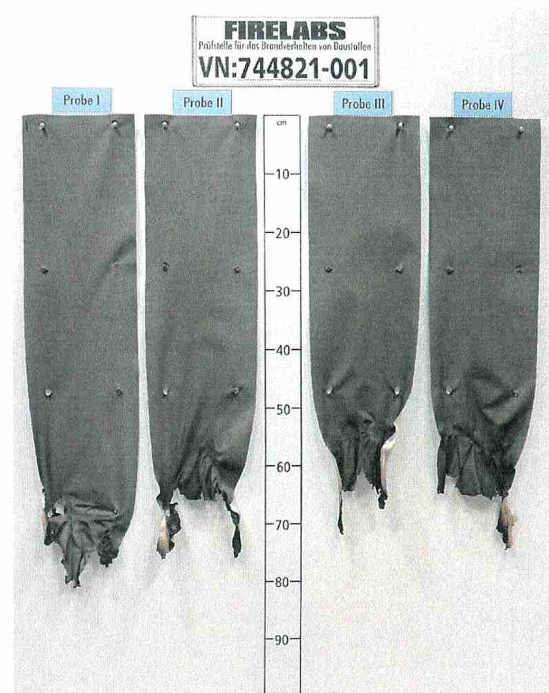


fig. 2
View of test specimen after the test

Test specimen B

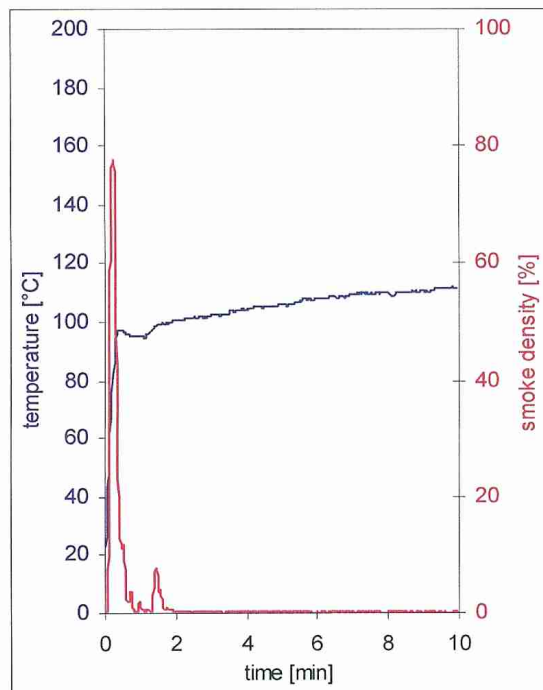


fig. 3
Graphs of the flue gas temperature and
the smoke density

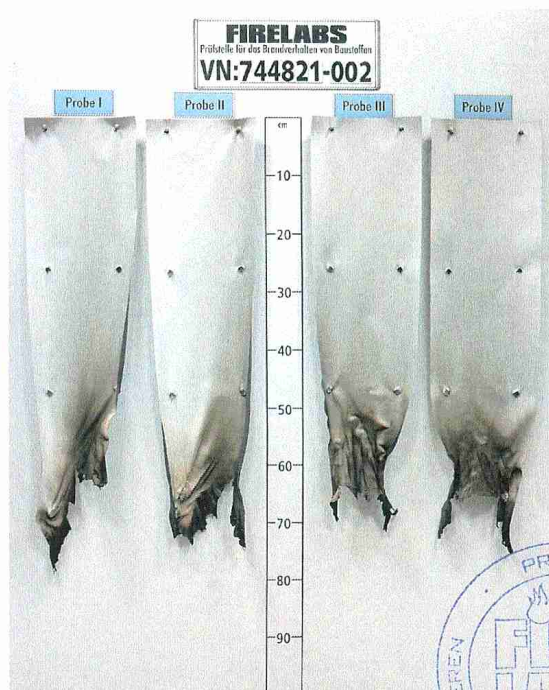


fig. 4
View of test specimen after the test

Test specimen C

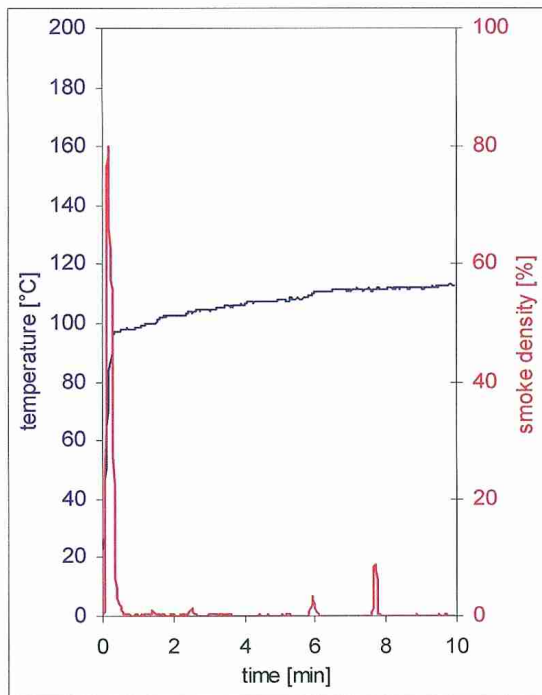


fig. 5
Graphs of the flue gas temperature and
the smoke density

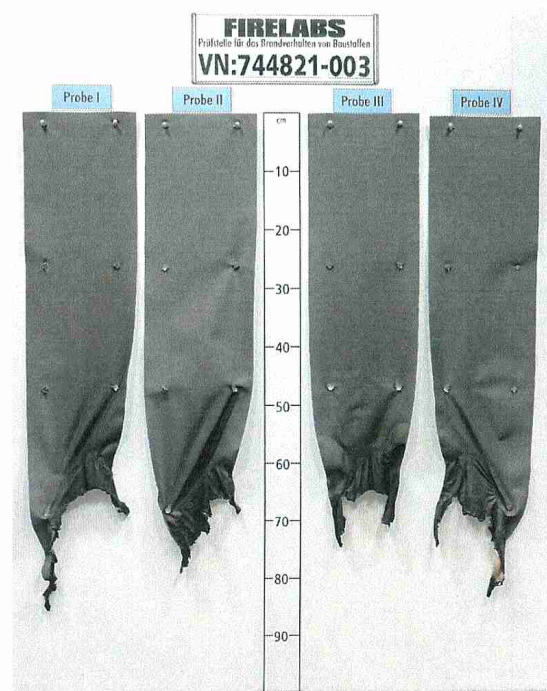


fig. 6
View of test specimen after the test

Test specimen D

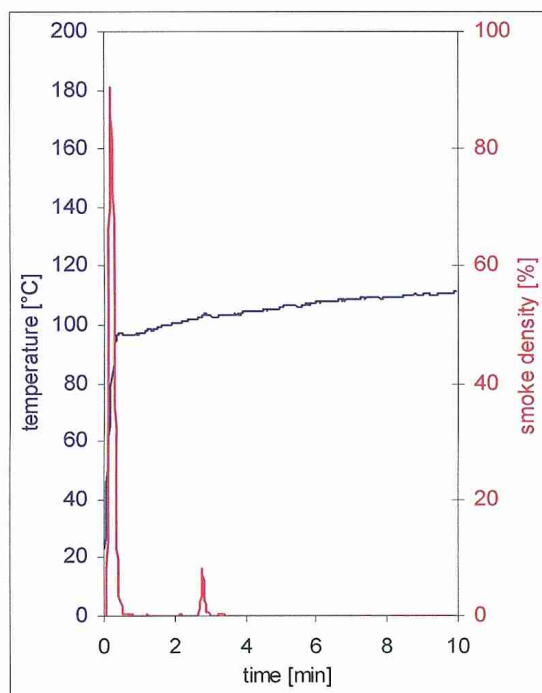


fig. 7
Graphs of the flue gas temperature and
the smoke density



fig. 8
View of test specimen after the test

Test results small burner ("Brennkasten") tests

Table 2

	Warp direction							Weft direction							Dim.	Requirements
Sample-No.	1	2	3	4	5	6	7	1	2	3	4	5	6	7	-	-
Ignition of the sample	1	3	3	3	3	3	3	1	3	3	3	3	3	3	s	-
Maximum flame height	8	10	11	9	9	11	11	8	10	8	9	8	10	8	cm	-
Time of the maximum	9	11	10	12	10	13	14	8	12	10	12	13	8	10	s	-
Flame tip reached the 150 mm mark	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	≥ 20
Extinction of flames	11	16	15	13	14	17	15	8	13	14	16	16	12	13	s	-
Ignition of filter paper	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	1)
Smoke density (visual)	moderate							moderate							-	-
Afterburning time	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	-
Flames were extinguished after	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	-

View of the samples after the test (20 seconds after exposure the flame):

In the area of the impingement point the samples were destroyed up to a max. height of approx. 7 cm and approx. 2 cm in width, soot above until top edge of the sample.

Samples 1: Edge flame exposure

Samples 2-6: Surface flame exposure grey coated surface

Samples 7: Surface flame exposure white coated surface

1) No ignition within 20 seconds

./. Not occurred

dim. Dimension

Indication of time: from the beginning of testing procedure

Indication of measurements: from reference line of the flame

