Lerchenweg 1 D-97650 Fladungen Tel.: int - 49 - 9778-7480-200 hoch.fladungen@t-online.de 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

www.reaction-to-fire.de

TEST REPORT PZ-Hoch-240066-2

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	ADO Goldkante GmbH & Co. KG Zimmermühlenweg 14-18 D-61440 Oberursel
description of samples	white fabric consisting of 100% Polyester FR
name of the material	"1315"
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	31.01.2029
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 3 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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 38367: "1315" colour: white

3-layer-fabric consisting of 100% Polyester FR

The outer layer are white, the inner layer is black.

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 469 g/m² thickness: about 0,84 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. <u>Arrangement of samples</u> mounting: freely suspended

#7242:	flaming side A in warp direction
#7243:	flaming side B in weft direction

- 4. Date of test CW 03 in 2024
- 5. <u>Results</u> The test has been examined according to DIN 4102 (Mai 1998)

o	Measurement	Res	Result with the tested specimen							
le n	Test number	#7242	#7243	-	-					
<u> </u>	flaming direction / side	warp / A	weft / B	-	-					
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	-	-					
2 3	Maximum flame height above bottom edge of the specimen Time ¹⁾	50 0:24	40 0:06	-	-	cm min:s				
4	<u>Burn through / melting</u> Time ¹⁾	0:07	0:07	-	-	min:s				
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾ Change of colour Time ¹⁾	 ./. ./.	<u> </u>	-	-	min:s min:s				
7 8 9	Falling of burning dropletsStart 1)Extentsporadic falling of burning droplets 2)continuous falling of burning droplets 2)	./. 	./. 	-	-	min:s				
10	Falling of burning droplets Start ¹⁾ Extent	X 0:15/0:21	X 0:19			min:s				
11 12	sporadic falling of burning droplets ²⁾ continuous falling of burning droplets ²⁾	X 	X 	-	-					
13	After flame time at the bottom of the sieve (max.)	0:15/0:19	0:13	-	-	min:s				



Prüfinstitut Hoch

Lerchenweg 1 D-97650 Fladungen page 3 of 4 of the test report PZ-Hoch-240066-2

o.	Measurement	Result with the tested specimen						
e D	Test number	#7242	#7243	-	-			
<u>≕</u>	flaming direction / side	warp / A	weft / B	-	-			
14	Impairment of the burner by dropping or falling material: Time ¹⁾	./.	./.	-	-	min:s		
15	Final occurrence of burning at the specimen ¹⁾	0:30	1:03	- 1	-			
16	Time of eventually end of test ¹⁾	./.	./.	-	-			
17 18 19 20	After flame after end of test Time ¹⁾ Number of specimen Front side of specimen ²⁾ Back side of specimen ²⁾	./. 	./. 			min:s		
21	Afterglow after end of test Time ¹⁾	 ./.	 ./.	_	-	min:s		
23 Number Place of 24 Lower ha 25 Upper ha 26 Front sic 27 Back sid	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⁾	 	 	-	-			
28 29 30	<u>Density of smoke</u> ≤ 400 % * min > 400 % * min ⁴⁾ Diagram: encl. no.	36 1	19 2	-	-	% * min % * min		
31	Residual lengths: individual value ³⁾ Specimen 1 Specimen 2 Specimen 3 Specimen 4	55 57 56 59	58 57 58 59	-	-	cm cm cm cm		
32	Average value, individual test ³⁾	57	58	-	-			
33	Photo of specimen in enclosure no.	1	2	-	-			
34 35	Flue gas temperature Maximum of average value Time ¹⁾	107 09:24	109 09:39			°C min:s		
36			2	-	-	II		

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 more than 45 cm.

7. Summary of results and additional establishments to Fire Behaviour

		the second s	A REAL PROPERTY AND ADDRESS OF THE PARTY	the subscription of the su	and the second se						
Ö	measurement	Result with the tested specimen									
len	test-no.	#7242	#7243	-	-	sio					
. <u>=</u>		warp / A	weft / B			0					
1	residual length	57	58	-	-	cm					
2	max. smoke temperature	107	109	-	-	°C					
3	density of smoke - integral	36	19	-	-	%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 3).

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
 - 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.

Fladungen, 22.02.2024

clerk in charge:

(Dipl.-Ing.(FH) Jürgen Hammer)



Head of the test laboratory:

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



Prüfinstitut Hoch Lerchenweg 1 D-97650 Fladungen













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 / Flaming side A and side B

- 4. Date of test CW 02 in 2024
- 5. Results

PN 38367: flaming side A in weft	surface-test							edge-test						
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Di	
ignition ¹⁾	5	5	7	6	7		1						s	
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.	./.	./.		./.						S	
max. flame height	7	10	9	10	11		7						cm	
time	15	11	15	15	15		12							
self cessation of the flames end of afterflame ¹⁾	22	15	./.	./.	./.		24						s	
end of glowing ¹⁾	./.	./.	./.	./.	./.		./.						s	
flames were extinguished after ¹⁾	./.	./.	28	25	25		./.						s	
smoke development (visual)			litt	e			moderate							
dropping of burning material during 20 s ¹⁾	./.	./.	./.	./.	./.		./.						s	
Appearance after test: burned out till max. height 10 cm x width 3 cm														
PN 38367: additional tests	edge-test							surface-test					. <u>E</u>	

1 N 50507. auditional tests			uge	1031			3411400-1031						
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	ā
arrangement of samples side / direction	A/K	B/K	B/S				A/K	B/K	B/S				
ignition ¹⁾	1	1	1				5	6	6				S
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.				./.	./.	./.				s
max. flame height	10	9	10				10	7	10				cm
time	15	14	15				15	15	15				
self cessation of the flames end of afterflame ¹⁾	./.	./.	17				./.	./.	./.				s
end of glowing ¹⁾	./.	./.	./.				./.	./.	./.				s
flames were extinguished after ¹⁾	30	30	./.				27	30	30				s
smoke development (visual)	moderate little												
dropping of burning material during 20 s ¹⁾	./.	./.	./.				./.	./.	./.				S
Appearance after test: burned out till max. height 10 cm x width 3 cm													

¹⁾ time mentioned from the beginning of the test²⁾ during 20 Sec -/- no appearance -- no information K: warp / S: weft

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.