

Testing. Advising. Assuring.

Test report no. 2018-1421

for the application of a prescribed usability certificate of 09.05.2018

Client: Concept GmbH
Amselweg 21
D - 65582 Aull

Order date: **04.04.2017+ 23.02.2018**
Date of sampling: No official sampling by an authorised representative
by Exova Warringtonfire, Frankfurt
Receipt of samples: 06.04.2017 + 05.03.2018
Date of tests: Test 21.04.2017 + 07.05.2018
number: 2017-1380-1

Order

Testing for low flammability (building material class B1) according to DIN 4102-1 (May 1998)

Description / designation of the test object

Product name: Shootstop CP 95

Description of the underlying test procedures

DIN 4102 Part 1 (May 1998)

This test report does not replace the required proof of usability required by the building authorities. It is only used for its preparation.

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1. Description of the sample material

1.1 Details of the orderer:

Product Name: Shootstop CP 95

Product description:

Trade name: Shootstop CP 95
Sample material: Bullet trap mat
Material type: EVA
Type of manufacture: Cast
Total thickness: 10 mm
colour: white
Flame retardant: not known

Intended use of the product: Use as bullet trap mat on
Shooting ranges etc.

1.2 Values determined during sample preparation by Exova Warringtonfire, Frankfurt:

Plate material

Colour transparent

: 10 mm

Thick

ness:

Basis weight: 9.74 kg/m'

The samples were subjected to climate storage (23°C / 50 % rel. F.) before testing.

2. Test results

2.1.1 Fire shaft test according to DIN 4102-1 Sample A: Material tested in production

direction.

Results of the fire shaft tests part 1						
Lines No.		Measured values sample body				
			A	B	C	D
1	No. Sample arrangement in accordance with DIN 4102 part 15 Table 1		2			
2	Maximum flame height above Sample bottom edge Time	cm	60			
		min : s	2.30			
3	Fixing points on the front of the sample Flames/glow Time) ¹	min : s	00:58			
4	Melt through / burn through eitpunkt ¹	min : s	02:55			
5	Findings on the back of the sample Flames / Glow Time	min : s	no			
6	Verfärbungen Zeitpunkt ¹⁾	min : s	not takes place			
7	B% neo en	min : S	not done			
8	Scope					
9	sporadically dripping sample material					
	steadily falling sample material					
10	Burning sample parts falling off start	min : s	no			
11	Sample parts falling off sporadically					
12	Sample material falling off steadily					
13	Duration of continued burning on the Sieve bottom(max.)	min : s	not takes place			
14	Impairment of the burner flame due to	min : s	03:50			
15	Premature end of experiment	min : s	not done			
16	End of the fire event at the rehearsal Time of a trial termination, if any *!	min : s				

¹ Time from start of trial

Results of the fire shaft tests part 2					
Lines No.		Measured values sample body			
		A	B	C	D
17	<u>Afterburning after the end of the test</u>				
18	Duration	--/--			
19	Number of samples	min : s			
20	Sample front				
21	Sample back	--/--			
21	Flame length	cm	--/--		
22	<u>After-images after the end of the trial</u>				
23	Duration	min. s	not takes place		
24	Number of samples		/		
25	Place of occurrence lower half of sample		_j		
26	upper half of sample		--/--		
27	sample front side		--/--		
27	back side of sample		--/--		
28	<u>Smoke density</u>				
29	< 400 % x min		2		
30	440 % x min Diagram in Anlae Nr		--/--		
31	<u>Residual countries</u>	cm	49 / 51		
32	Individual values	CM	63 / 64		
33	Means of the individual tests		57		
33	Photo of the test specimen on page				
34	<u>Smoke ooze temperature</u>				
35	Maximum of the mean value	°C	133		
36	Time) ¹	min : s	1:11		
36	Diagram in Annex No.		1		

¹⁾ Time from start of trial

Remark: Since the mean value of the residual length was > 45 cm in the test carried out in the fire shaft, further tests were not necessary in accordance with DIN 4102-16.

2.1.2 Appearance of the samples after the experiment:



Sample A

2.2.1 Normal flammability test according to DIN 4102-1

Tests with edge flaming without backing Flame application point :
lower sample front edge Edge flaming:

Sample no.		1	2	3	4	5
Time data from start of experiment						
Time of inflammation	[s]	1	1	1	1	1
Reaching the measuring mark Within 20 seconds		no	no	no	no	no
Self-extinction of the flame	s]	19	16	17	16	18
Max. flame height	mm]	10	10	10	10	10
Time	"s]	10	10	10	10	10
Endoftheafterburning	s]	4	1	2	1	3
End of afterglow	s]					
Flames extinguished after	s]					
Smoke development (Visual impression)			Low	Smoking w development		
Burning drop to 20 seconds		no	no	no	no	no
Time	[s]					

Comment: none

2.2.2 Appearance of the samples after the small burner tests:



Assessment

The material mentioned in section 1 Material has fulfilled the requirements for building material class B2 according to DIN 4102-1 (May 1998).

The results obtained in the tests show that the material also meets the requirements for the

Building material class B1

according to DIN 4102-1 (May 1998).

Special note

The fire test result only applies to the material described in section 1, in the tested colour, basis weight and thickness in a freely suspended arrangement. The distance to other flat materials must be ≥ 40 mm.

A test after outdoor weathering was not carried out.

In combination with other materials (e.g. coatings, backings), the fire behaviour may be adversely affected so that the above classification is no longer valid. The fire behaviour of the material in combination with other materials must be verified separately according to DIN 4102-1.

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Frankfurt, 09.05.2018

A handwritten signature in black ink, appearing to be "Au".

H. Anders Responsible
auditor

A handwritten signature in black ink, appearing to be "P. Scheinkönig".

P. Scheinkönig Head of
Testing Laboratory Bau-
PVO



The validity of this test report ends on 20.04.2022.

The test results refer only to the behaviour of the samples under the specific test conditions during the test; they are not to be understood as the sole criterion for evaluating the potential fire hazard of the product in the application. Test reports may only be published or reproduced unchanged in form and content without the consent of Exova Warringtonfire, Frankfurt. The abridged reproduction of a test report is only permitted with the consent of Exova Warringtonfire, Frankfurt.

This audit report comprises 8 pages and 1 annex.

Probekörper A:

