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# Orientation Test Report

## No. 2017-1381-1

from 20.04.2017

**Client:** Concept GmbH  
Am Schlag 32 b  
  
D - 65549 Limburg

**Order date:** 04.04.2017  
**Date of sampling:** No official sampling by an authorised representative  
of Exova Warringtonfire, Frankfurt  
**Receipt of samples:** 06.04.2017  
**Date of the exams:** 19.04.2017

### Order

Fire shaft test for testing flame resistance (building material class B1) according to DIN 4102-1 (May 1998).

### Description / designation of the test object

Sample material designated as: Shootstop CP 95

### Description of the underlying test procedures

DIN 4102 Part 16 (May 1998)

## 1. Description of the sample material

### 1.1 Details of the principal:

Sample material designated as:      Shootstop CP 95

Trade name:	Bullet trap plates
Type of material:	EVA Type of
manufacture:	Cast Total
thickness:	10 / 50 mm
colour:	white
Flame retardant:	Unknown

### 1.2 Values detected during sample preparation by Exova Warringtonfire:

#### Sheet material

colour:	white
Thickness:	10 mm
Basis weight:	9.7 kg/m <sup>2</sup>

Test after climate storage at 23°C and 50 % rel. l. humidity

**2. Test results**

**2.1 Fire shaft test according to DIN 4102-1**

Specimen A: Specimens tested in production direction

Results of the fire shaft tests part 1						
Line no.		Measured values sample body				
		A	B	C	D	
1	<u>No. Sample arrangement according to DIN 4102 Part 15, Table 1</u>		2			
2	<u>Maximum flame height above bottom edge of sample</u> Time <sup>1)</sup>	cm	60			
		min : s	3:20			
3	<u>Findings on the sample front</u> Flames/glow Time <sup>1)</sup>	min : s	1:12			
		min : s	not done			
4	<u>Melt through / burn through</u> Time <sup>1)</sup>	min : s	not done			
		min : s	no			
5	<u>Findings on the back of the sample</u> Flames/glow Time <sup>1)</sup> Discolourations	min : s	not done			
		min : s	not done			
6	<u>Burning dripping</u> Start <sup>1)</sup> Scope sporadically dripping sample material steadily decreasing sample material	min : s	not done			
		min : s	not done			
		min : s	not done			
7	<u>Burning sample parts falling off</u> Start <sup>1)</sup> Sample parts falling off sporadically steadily decreasing sample material	min : s	yes			
		min : s	not done			
		min : s	not done			
8	Duration of continued burning on the sieve tray(max.)	min : s	not done			
		min : s	not done			
9	Impairment of the burner flame due to Dripping / falling material Time <sup>1)</sup>	min : s	yes			
		min : s	not done			
10	<u>Premature end of experiment</u> End of the fire event at the rehearsal <sup>1)</sup> Time of any trial termination that may have taken place <sup>1)</sup>	min : s	not done			
		min : s	not done			

<sup>1)</sup> Time from start of trial

Results of the fire shaft tests part 2						
Line no.		Measured values sample body				
		A	B	C	D	
17	<u>Afterburning after end of test</u> Duration	min : s	-/-			
18	Number of samples		-/-			
19	Front side of sample	cm	-/-			
20	Back side of sample		-/-			
21	Flame length		-/-			
			-/-			
22	<u>Afterglow after end of test</u> Duration	min . s	not done			
23	Number of samples		-/-			
24	Place of occurrence lower half of sample		-/-			
25	upper half of sample		-/-			
26	front side of sample		-/-			
27	back side of sample		-/-			
			-/-			
28	<u>Smoke density</u>		8			
29	< 400 % x min		-/-			
30	> 440 % x min Diagram in Annex No.		1			
31	<u>Residual lengths</u>	cm	50 / 50			
	Individual values		50 / 50			
32	Means of the individual tests	cm	50			
33	Photo of the test specimen on page		5			
34	<u>Flue gas temperature</u>	°C	132			
35	Maximum of the mean value		min : s	2:29		
36	Time <sup>1)</sup> Diagram in Annex No.			1		

<sup>1)</sup> Time from start of trial

Remark: Samples too small, 2 on top of each other.  
The lower samples folded down and fused the burner flame.  
Not a meaningful attempt.

**2.2 Appearance of the samples after the experiment:**



Sample A



Sample A



Sample A



Sample A

### 3. Orientation assessment

The result obtained in the orienting fire shaft test showed that the material described in section 1 can fulfil the requirements of the fire shaft test for building material class B1 according to DIN 4102-1 (May 1998).

### 4. Special note

The fire test result only applies to the material with self-adhesive finish described in section 1, bonded to metallic substrates. The distance to other flat materials must be  $\geq 40$  mm. A test after outdoor weathering was not carried out.

In combination with other materials (e.g. coatings, backings), the fire behaviour can be unfavourably influenced, so that the above-mentioned 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.

This audit report replaces report 2017-1381 dated 20.04.2017 (date of signature) which is hereby invalidated.

Frankfurt, 08.05.2017



H. Anders  
Responsible inspector



Dipl.-Ing. T. Zachäus  
Test centre manager

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 test report comprises 6 pages and 1 appendix.

Specimen A:

