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	TEST	METHOD	RESULT
*	<b>Fire behaviour of building materials and elements Part 1: Classification of building materials Requirements and testing</b>	<b>DIN 4102</b>	<b>PASS</b>
			<b>B1</b>



Seal

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**Environment**

The requirements and standards apply to equipment intended for use in,

<b>X</b>	Residential (domestic) environment
<b>X</b>	Commercial and light-industrial environment
<b>X</b>	Industrial environment
<b>X</b>	Medical environment

**RESULTS**

row-no.	Foil-type:	Results of the Numune test (part 1)			
		measurements test specimen			
			Sample B1		
1	<u>No. of test specimen arrangement according to DIN 4102, part 15, table 1</u>		--		
2	<u>Max. flame height above bottom edge</u> cm		5		
	Time <sup>1)</sup> min : s		1:02		
4	<u>Melt through / burn through</u> Time <sup>1)</sup> min : s		--		
5	<u>Observations on the backside of the specimens</u> Flames/smouldering Time <sup>1)</sup> min : s		--		
6	Discolouration Time <sup>1)</sup> min : s		10:25		
7	<u>Burning droplets</u> Start <sup>1)</sup> min : s		--		
8	<u>Extent</u>		--		
9	sporadic burning droplets continually falling particles		--		
10	<u>Falling particles which burns</u> Start <sup>1)</sup> min : s		1:32		
11	sporadic falling parts		x		
12	continually falling particles		--		
13	Duration of the burning on the screen bottom (max.) min : s		--		
14	<u>Interference of the burner flame by dripping /falling particles</u> Time <sup>1)</sup> min : s		--		
15	<u>Early termination of the test</u> End of burning at the specimen <sup>1)</sup> min : s		--		
16	Time of early cancellation of the test <sup>1)</sup> min : s		--		

1) Time counting from the start of the test



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row-no.		Results of the Numune (part 2)					
		measurements test specimen					
			B1				
17	<u>Continuous burning after termination of the test</u>						
18	Duration min : s		--				
19	Number of specimens		--				
20	Front side of the specimen		--				
21	Back side of the specimen		--				
22	Flame length cm		--				
23	<u>Smouldering after termination of the test</u>						
24	Duration min : s		--				
25	Number of specimens		--				
26	<u>Location</u>						
27	Lower half of the specimens		--				
28	Upper half of the specimens		--				
29	Front side of the specimen		--				
30	Backside of the specimen		--				
31	<u>Smoke development</u>						
32	≤ 400 % x min		224				
33	> 400 % x min		--				
34	Diagram in appendix		--				
35	<u>Residual lengths</u>						
36	Single values cm		12	11			
37	Average values cm		14	11			
38	Photo of the specimen on page		12				
39			--				
40	<u>Smoke temperature</u>						
41	Maximum value of the averaged values °C		119				
42	Time <sup>1)</sup> min : s		11:22				
43	Diagram in appendix Nr.		--				



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**Results of the B2-testing according to DIN 4102-01**  
(Tests with flaming the edge)**Assessment**

- According to the results, the product as tested in the described arrangement also fulfils the requirements of building products according to Baustoffklasse B1. In consequence the product can be classified as

**Baustoffklasse B1 (schwerentflammbare Baustoffe)**

according to DIN 4102 part 1 (Mai 1998). This assessment is only valid, if the foils are glued on steel. The surface of the self-adhesive foils may be printed, but not be covered with paints, coatings or similar products. The resistance of the fire behaviour against climatic influences in the outside was not proofed. Therefore the product may be used as schwerentflammbar only inside of buildings or in otherwise weather protected areas.

- The material does not produce burning droplets / particles.

**Marking**

The above mentioned material has to be marked as following:

- "Only schwerentflammbar (class DIN 4102-B1)"

The marking shall be done on the material, on an enclosed paper or on the packaging or, if this would be too difficult, on the delivery-note or on an enclosure to the delivery-note.

This test certificate is solely valid in combination with the original test certificate issued in German language and dated of 14.12.2018. In case of doubt, the certificate issued in German language is valid solely.



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Max. flue gas-temperature = 119 °C  
at [min : s] 09 : 22  
Smoke-development [% x min]: 224

