INSPECTION REPORT

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	TEST	METHOD	RESULT
*	**Fire Behaviour Of Building Materials And Elements Part 1: Classification Of Building Materials Requirements And Testing**	**DIN 4102-1**	**PASS** **B1**

Seal

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Environment

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

X	Residential (domestic) environment
X	Commercial and light-industrial environment
X	Industrial environment
X	Medical environment

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DIN 4102: Fire Behaviour of Building Materials and Elements Part 1: Classification of Building Materials Requirements and Testing

Scope

The standard applies to the classification of the fire behavior of building materials to assess the risk as a single building material and in combination with other building materials.

Building Material Classes

The building materials are classified according to their fire behavior into the building material classes according to Table 1:

Building Material Classes	Building Inspectorate Designation
A A1 A2	Non-combustible building materials
B B1 B2 B3	Flammable building materials Flame retardant building materials Normally flammable building materials Easilly flammable building materials

Building material class B1

General requirements :

a) Building materials with the exception of outer wall cladding and floor coverings The test represents a model of the fire of an object in a room (eg waste paper basket in a corner of the room) Under this stress, the fire spread must not extend significantly outside the primary fire area and the heat emission must be limited.
b) Exterior wall cladding The test is a model of the flames emerging from a wall opening. Under this load, the spread of fire must not extend significantly outside the primary fire area.
c) Floor coverings The test represents a model of a fire situation in which flames strike from the door opening to an adjacent room. Under this load, the horizontal flame spread and the smoke development must be harmless.

Requirements for classification

Building materials, with the exception of floor coverings, meet the requirements for classification in building material class B1 if they pass the fire pit test and meet the requirements for building material class B2.

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RESULTS

Impulse Dimout FR

Results of the Numune test (part 1)					
Row - no.	Foil-type:	measurements test specimen			
			Impulse Dimout FR		
1	No. of test specimen arrangement according to DIN 4102, part 15 , table 1		--		
2	Max. flame height above bottom edge cm		0.4		
	Time [1] min : s		0.2		
4	Melt through / burn through Time[1] min : s		--		
5	Observations on the backside of the specimens Flames/smouldering Time [1] min : s		--		
6	Discolouration Time [1] min : s		x		
7	Burning droplets Start [1] min : s		x		
8	Extent sporadic burning droplets		--		
9	continually falling particles		x		
10	Falling particles which burns Start [1] min : s		x		
11	sporadic falling parts		x		
12	continually falling particles		--		
13	Duration of the burning on the screen bottom (max.) min : s		--		
14	Interference of the burner flame by dripping /falling particles Time [1] min : s		--		
15	Early termination of the test End of burning at the specimen [1] min : s		--		
16	Time of early cancellation of the test [1] min : s		--		

1) Time counting from the start of the test

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Results of the Numune (part 2)						
Row -no.		Measurements Test Specimen				
			Impulse Dimout FR			
	Continuous burning after termination of the test					
17	Duration min : s		--			
18	Number of specimens		--			
19	Front side of the specimen		--			
20	Back side of the specimen		--			
21	Flame length cm		--			
	Smouldering after termination of the test					
22	Duration min : s		--			
23	Number of specimens		--			
	Location					
24	Lower half of the specimens		--			
25	Upper half of the specimens		--			
26	Front side of the specimen		--			
27	Backside of the specimen		--			
	Smoke development					
28	≤ 400 % x min		x			
29	> 400 % x min		--			
30	Diagram in appendix		--			
	Residual lengths		--	--		
31	Single values cm		--	--		
32	Average values cm		X			
33	Photo of the specimen on page		--			
	Smoke temperature					
34	Maximum value of the averaged values ºC		X			
35	Time [1] min : s		X			
36	Diagram in appendix Nr.		--			

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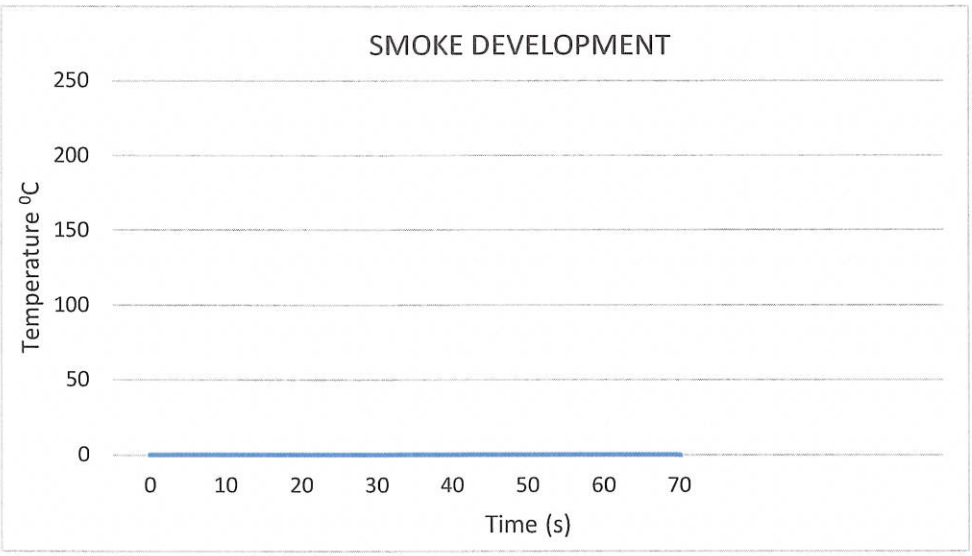
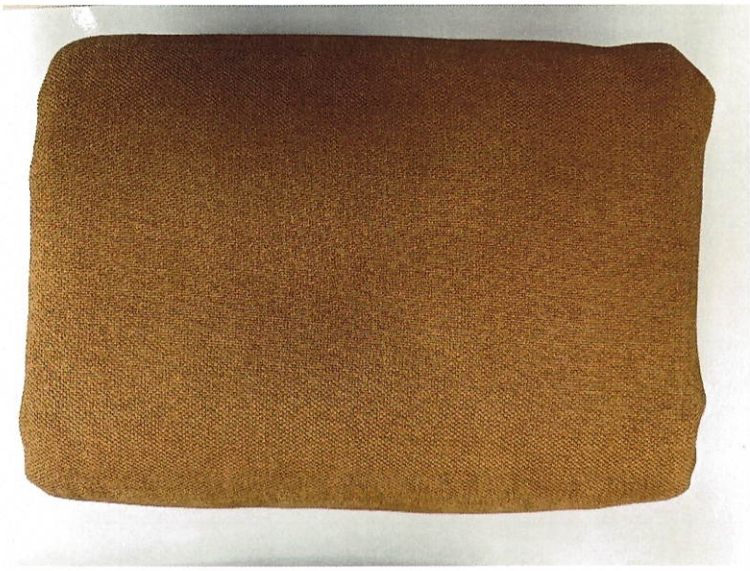
Baustoffklasse B1 (schwerentflammbare Baustoffe)

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 oth- erwise weather protected areas.

- The material does not produce burning droplets / particles.



SAMPLE IMAGE



*****End of Report*****

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