

5190243IB02**2020290985****Overall Rating:****Class B1****Report No:**

2020290985

Applicant:**ZİMMER + ROHDE GMBH.****Applicant Address:**

Zimmersmühlenweg 14-18 D-61440 Oberursel

Contact Telephone:

+49 (0) 6171 632 190

Sample Accepted on:

15.09.2020

Report Date:

29.09.2020

Total number of pages:

7 (Pg)

Sample ID :

10885 (NIL FR)

	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

Customer Representative
Hasan KUTLULaboratory Manager
Hava Sarıaydın

EUROLAB LABORATUVAR HİZMETLERİ
TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.**EUROLAB® (TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.)**

It is prohibited to change any and all versions of this document in any manner whatsoever. In case of a conflict between the electronic version (e.g. PDF file) and the original paper version provided by EUROLAB®, the latter will prevail.

TÜRCERT Teknik Kontrol ve Belgelendirme A.Ş. disclaim liability for any direct, indirect, consequential or incidental damages that may result from the use of the information or data, or from the inability to use the information or data contained in this document.

The contents of this report may only be transmitted to third parties in its entirety and provided with the copyright notice,

prohibition to change, electronic versions' validity notice and disclaimer.

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



PR33-F01/08.10.2015/Rev:17.01.2017-R01

EUROLAB LABORATUVAR HİZMETLERİ
TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.**DIN 4102-1****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 Easily 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.

EUROLAB LABORATUVAR HİZMETLERİ
TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.

RESULTS
10885 (NIL FR)

row-no.	Foil-type:	Results of the Numune test (part 1)			
		measurements test specimen			
			SID 10- A3441		
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		3		
	Time ¹⁾ min : s		0:6		
4	<u>Melt through / burn through</u> Time ¹⁾ min : s		0:5		
5	<u>Observations on the backside of the specimens</u> Flames/smouldering Time ¹⁾ min : s		--		
6	Discolouration Time ¹⁾ min : s		--		
7	<u>Burning droplets</u> Start ¹⁾ min : s		0:7		
8	<u>Extent</u>		--		
9	sporadic burning droplets continually falling particles		0:6		
10	<u>Falling particles which burns</u> Start ¹⁾ min : s		0:8		
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 ¹⁾ min : s		--		
15	<u>Early termination of the test</u> 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

EUROLAB LABORATUVAR HİZMETLERİ
TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.

row- no.		Results of the Numune (part 2)			
		measurements test specimen			
			SID 10- A3441		
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		X		
33	> 400 % x min		--		
34	Diagram in appendix		--		
35	<u>Residual lengths</u>				
36	Single values cm		--	--	
37	Average values cm		X		
38	Photo of the specimen on page		--		
39	<u>Smoke temperature</u>				
40	Maximum value of the averaged values °C		X		
41	Time ¹⁾ min : s		X		
42	Diagram in appendix Nr.		--		

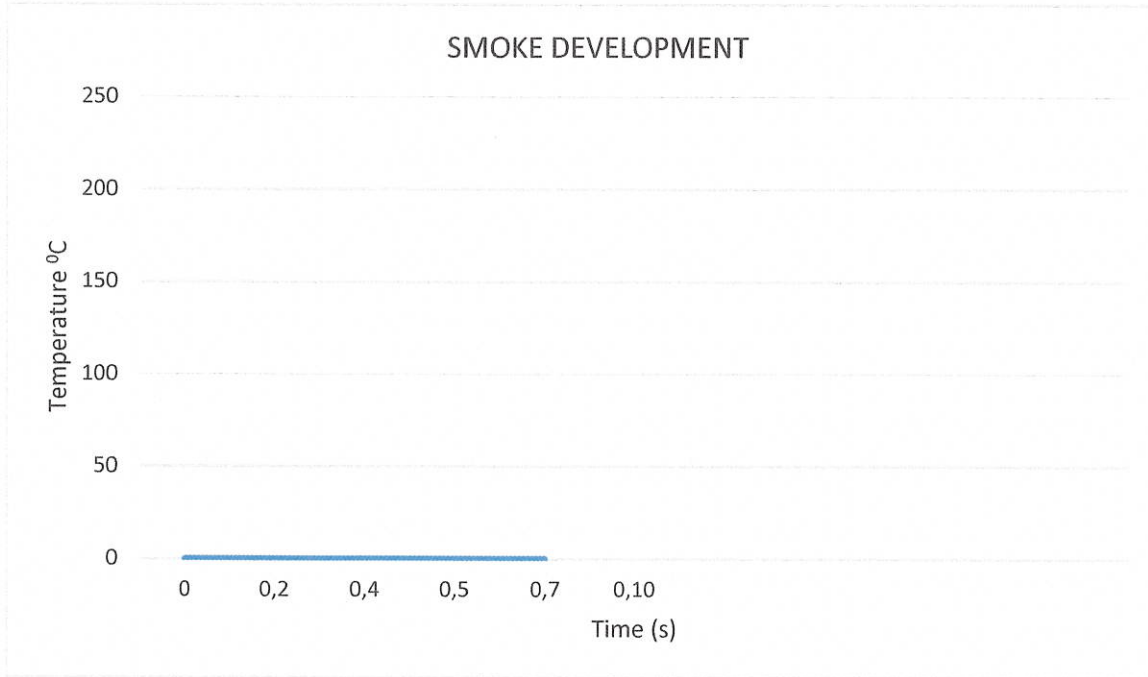
EUROLAB LABORATUVAR HİZMETLERİ
TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.**Results of the B2-testing according to DIN 4102-01**
(Tests with flaming the edge)**Assessment**

- 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.



EUROLAB LABORATUVAR HİZMETLERİ
TÜRCERT TEKNİK KONTROL VE BELGELENDİRME A.Ş.

SAMPLE UNDER TEST



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