

TEST REPORT

Job No./Report No TR2710439-RV1

Date: 4 November 2025

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Zimmer + Rohde GmbH
Zimmersmühlenweg 14-18
61440 Oberursel/Frankfurt

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	Woven fabric in White/black/yellow (Claimed to be 10-A8020 FUSION FR)

Client's reference No. : TR 2710439
Buyer : Not Provided
Order No. : Not Provided
Model/Style No. : Not Provided
Article No. : Not Provided
Age Grade : Not Provided
Manufacturer : Zimmer + Rohde GmbH
Country of Origin : Not Provided
Country of Destination : TURKEY
Shipment Date : 03.10.2025
Fiber Composition : Not Provided
Fabric Weight : Not Provided
End Use : Not Provided
Agency : Not Provided
Sample Receiving Date : 06 October 2025
Resubmit Date : 4 November 2025
Test Performing Period : 06 October 2025~30 October 2025
Submitted Care Label Instructions : Not Provided

Overall Conclusion : **PASS**

Test Results : Please refer to the next page(s).

Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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SGS applied shared risk decision rule.

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Test Parameters	Result
Physical tests	A
DIN 4102-1:1998-05	M

Remarks	M = Meets client's requirement
	F = Does not meet client's requirement
	I = Inconclusive
	* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).
	Residual sample can be returned to client if requested.

The test results relate to the tested items only.
Test reports without SGS seal and authorised signatures are invalid.

**IN THIS REVISED-1 REPORT, OVERALL CONCLUSION WAS CHANGED BY THE REQUEST OF THE APPLICANT.
THIS REPORT SUPERSEDES OUR REPORT NO: 2710439 DATED 30.10.2025**

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

RUGEYYE UĞURLU
Customer Services Supervisor

BANU ÜLGÜR
Customer Services Team Leader




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I. Test conducted**

This test was conducted as per DIN 4102-15:1990-05 Fire behaviour of building materials and building components – ‘Brandschacht’ apparatus, DIN 4102-16:2021-01 Fire behaviour of building materials and building components– ‘Brandschacht’ tests and DIN 4102-1:1998-05 Clause 6.2.5, and Classification according to DIN 4102-1:1998-05 Clause 6.1 Class B1 building materials.

II. Sample details

General description	Fabric
Color	Multicolor
Area density	127 g/m ²
Size of sample	190mm×1000mm & 190mm×90mm & 230mm×90mm
Exposed (tested) surface	Front surface

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 5 %.

III. Test results

1) “Brandschacht” Test according to DIN 4102-15 &16

Results of “Brandschacht” Test (part 1)				
Line No.	Unit	Test direction		
		Lengthwise	Widthwise	
1	Specimen fixings according to DIN 4102 part 15, table	/	/	/
2	Max. flame height above lower sample edge;	cm	30	30
3	Time ¹⁾	min:s	00:48	00:51
4	<u>Melting/burning through</u> Time ¹⁾	min:s	00:01	00:01
5	<u>Back of specimen</u> Flaming/glowing, Time ¹⁾	min:s	00:01	00:01
6	Discolouring, Time ¹⁾	min:s	00:01	00:01
7	<u>Burning droplets</u> Begin 1)	min:s	00:02	00:03

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	<u>Amount</u>		/	/
8	Specimen material falling off in separate droplets		√	√
9	Specimen material falling off continuously		/	/
Results of "Brandschacht" Test (part 2)				
Line No.	Unit	Test direction		
		Lengthwise	Widthwise	
	<u>Burning parts</u>	No	No	
10	Begin 1)	/	/	
11	Parts of sample falling off separately	/	/	
12	Parts of sample falling off continuously	/	/	
13	Duration of continued combustion on mesh base (max.)	No	No	
	<u>Burner flame impairment by dripping/falling material</u>	No	No	
14	Time ¹⁾	/	/	
	<u>Premature ending of test</u>	/	/	
15	End of burning at specimen ¹⁾	/	/	
16	Time when test terminated (if applicable) ¹⁾	/	/	
	<u>Burning after end of test</u>	No	No	
17	Duration	/	/	
18	Number of specimens	/	/	
19	Front of specimen	/	/	
20	Back of specimen	/	/	
21	Height of flame	/	/	
	<u>Glowing after end of test</u>	No	No	
22	Duration	/	/	
23	Number of specimens	/	/	
24	Front of specimen	/	/	
25	Back of specimen	/	/	
26	Top half of specimen	/	/	

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27	Bottom half of specimen	/	/
	<u>Smoke density</u>	Yes	Yes
28	$\leq 400 \% \times \text{min}$	✓	✓
29	$> 400 \% \times \text{min}$	/	/

Results of "Brandschacht" Test (part 3)					
Line No.	Unit	Test direction			
		Lengthwise		Widthwise	
	<u>Residual length</u>	/		/	
30	Single results	73	72	73	74
		72	71	74	71
31	Average of the single results	72.0		73.0	
	<u>Smoke temperature</u>	/		/	
32	Max. of average	136.8		131.2	
33	Time ¹⁾	3:08		2:58	

Note: ¹⁾ time from start of testing

*Reduction in number of test (DIN 4102 Part 16, clause 6.2)

Class B1 materials:

If the residual length measured after the first test is 45cm or greater, further tests are not required.

2) Ignitibility test according to DIN 4102-1 Clause 6.2.5

a) Surface ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No

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Time for the flame tip to reach the gauge mark (s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	0	0	0	0	0	0	0	0	0	0
Max. flame height (cm)	6	5	6	5	5	5	4	6	6	5
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight					Slight				

b) Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	0	0	0	0	0	0	0	0	0	0
Max. flame height (cm)	4	4	5	6	5	3	4	3	4	5
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight					Slight				

Note: NA = Not applicable

IV. DIN 4102-1:1998-05 Criteria for classification

- 1) All materials, except flooring, may be classed as **B1** materials if they meet the following requirements
 - a) and b):
 - a) The test using the 'Brandschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if:
 - The mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause

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10.1 of DIN 4102-16) of each specimen is at least 15 cm and no individual values are lower than 0 cm,

- The mean effluent temperature does not exceed 200 °C in any test,
- The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1:1998-05 sub-clause 6.2.5 Ignitability Test if:

For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

2) Materials may be classed as **B2** materials if they pass the ignitability test specified in DIN 4102-1:1998 subclause 6.2.5:

For each specimen, flaming doesn't reach the gage mark (150mm marks) within 20s after flame application.

3) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as **B3** materials.

STATEMENTS:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

This test report does not replace any mandatory certification of the product that may be required.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire and smoke hazard of the product in use.

**This test was performed by SGS Anji Laboratory

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End of Test Report

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