

TEST REPORT

Job No./Report No TR2679871-RV1

Date: 21 August 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 10-A3214 SOLO FR

Client's reference No. : TR 2679871
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 : 22.07.2025
Fiber Composition : Not Provided
Fabric Weight : Not Provided
End Use : Not Provided
Agency : Not Provided
Sample Receiving Date : 23 July 2025
Resubmit Date : 21 August 2025
Test Performing Period : 23 July 2025~15 August 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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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, APPLICANT INFORMATION AND SAMPLE DESCRIPTION WERE CHANGED BY THE REQUEST OF THE APPLICANT.
THIS REPORT SUPERSEDES OUR REPORT NO: 2679871 DATED 14.08.2025

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

GÖNÜL UMUT
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 materials.

II. Sample details

General description	Fabric
Color	Yellow
Area Density	159 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	00:57	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) Amount	min:s	00:04 / /	00:03 / /

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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)	min:s	/	/
11	Parts of sample falling off separately		/	/
12	Parts of sample falling off continuously		/	/
13	Duration of continued combustion on mesh base (max.)	min:s	No	No
	<u>Burner flame impairment by dripping/falling material</u>	No	No	
14	Time ¹⁾	min:s	/	/
	<u>Premature ending of test</u>		/	/
15	End of burning at specimen ¹⁾	min:s	/	/
16	Time when test terminated (if applicable) ¹⁾	min:s	/	/
	<u>Burning after end of test</u>	No	No	
17	Duration	min:s	/	/
18	Number of specimens		/	/
19	Front of specimen		/	/
20	Back of specimen		/	/
21	Height of flame	cm	/	/
	<u>Glowing after end of test</u>	No	No	
22	Duration	min:s	/	/
23	Number of specimens		/	/
24	Front of specimen		/	/
25	Back of specimen		/	/
26	Top half of specimen		/	/
27	Bottom half of specimen		/	/

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	<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	cm	71	73	74
31	Average of the single results	cm	71	72	73
			71.8	72.8	71
	<u>Smoke temperature</u>		/	/	
32	Max. of average	°C	129.4	134.2	
33	Time ¹⁾	min:s	2:58	3:04	

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
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	5	4	4	5	4	4	3	5	4

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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)	5	6	5	4	5	4	5	4	4	4
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 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.

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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**



* * *

End of Test Report

* * *

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