

## Test Report

Report No.: AJFS2310009548FF

Date: NOV.03, 2023

Page 1 of 6

### POSTER AND PANEL SL

C/ Plans de la Sala, 28. Pol. Ind. Plans de la Sala 08650 Sallent (Barcelona)

**Sample Description:** RETINA BACKLIT

**SGS Ref No.:** AJHL2309003596OT

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

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### **Test Requested:**

DIN 4102-1:1998-05 Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing, Class B1 materials---For all materials except flooring.

**Test Results:** -- See attached sheet --

**Classification:** The sample tested only lengthwise **meets** class **B1** materials requirements of DIN 4102-1:1998-05.

### **Test Period:**

Sample Receiving Date : OCT.18, 2023

Test Performing Date : OCT.18, 2023 TO NOV.02, 2023

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch



Echo Li

Approved Signatory



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## Test Report

Report No.: AJFS2310009548FF

Date: NOV.03, 2023

Page 2 of 6

### I. Test conducted

This test was conducted as per DIN 4102-15:1990 Fire behaviour of building materials and elements – ‘Brandschacht’ apparatus, DIN 4102-16:2015 Fire behaviour of building materials and elements – ‘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	RETINA BACKLIT
Color	White
Area Density	185 g/m <sup>2</sup>
Size of sample	190mm×1000mm & 190mm×90mm

### Conditioning

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

### III. Test results

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

Exposed surface: Any surface

Results of “Brandschacht” Test (part 1)					
Line No.	Unit	Test assemblies No.			
		A	B	C	D
1	Specimen fixings according to DIN 4102 part 15, table	Length wise			
2	Max. flame height above lower sample edge;	cm	60		
3	Time <sup>1)</sup>	min:s	00:44		
4	<u>Melting/burning through</u>	Yes			
	Time <sup>1)</sup>	min:s	00:02		
5	<u>Back of specimen</u>	Yes			
	Flaming/glowing, Time <sup>1)</sup>	min:s	00:02		
6	Discolouring, Time <sup>1)</sup>	min:s	00:01		
7	<u>Burning droplets</u>	Yes			
	Begin <sup>1)</sup>	min:s	00:12		
	<u>Amount</u>	/			
8	Specimen material falling off in separate droplets	✓			
9	Specimen material falling off continuously	/			

# Test Report

Report No.: AJFS2310009548FF

Date: NOV.03, 2023

Page 3 of 6

Results of "Brandschacht" Test (part 2)					
Line No.	Unit	Test assemblies No.			
		A	B	C	D
10	<u>Burning parts</u> Begin <sup>1)</sup>	No /			
11	Parts of sample falling off separately	/			
12	Parts of sample falling off continuously	/			
13	Duration of continued combustion on mesh base (max.)	No			
14	<u>Burner flame impairment by dripping/falling material</u> Time <sup>1)</sup>	No /			
15	<u>Premature ending of test</u> End of burning at specimen <sup>1)</sup>	/			
16	Time when test terminated (if applicable) <sup>1)</sup>	/			
17	<u>Burning after end of test</u> Duration	No /			
18	Number of specimens	/			
19	Front of specimen	/			
20	Back of specimen	/			
21	Height of flame	/			
22	<u>Glowing after end of test</u> Duration	No /			
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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# Test Report

Report No.: AJFS2310009548FF

Date: NOV.03, 2023

Page 4 of 6

Results of “Brandschacht” Test (part 3)										
Line No.		Unit	Test assemblies No.							
			A		B		C		D	
28	<u>Residual length</u>	cm								
	49		47							
	47		48							
29	Average of the single results	cm	47.8							
30	<u>Smoke temperature</u>	°C	/							
	Max. of average		129.4							
31	Time <sup>1)</sup>	min:s	06:02							

Note: <sup>1)</sup> time from start of testing

\*Reduction in number of test (*DIN 4102 Part 16, clause 5.2*)

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

Edge ignition

Fire application time: 15s

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

Note: NA---Not applicable



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## Test Report

Report No.: AJFS2310009548FF

Date: NOV.03, 2023

Page 5 of 6

### IV. DIN 4102-1:1998 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 9.1 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 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.



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## Test Report

Report No.: AJFS2310009548FF

Date: NOV.03, 2023

Page 6 of 6

### Photo Appendix:



SGS authenticate the photo on original report only

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