

JIANGXI XINCHENG NEW MATERIAL CO., LTD

NO.2, 1ST NORTH RD, HIGH TECH ZONE, FENGLIN TOWN, DE 'AN, JIANGXI, PRC 300406

Sample Description : STRUCTURE MEMBRANE
Style No. : 1020g-1000D30x32
Item No. : 07-000203
SKU No. : 07-000203-1020G
P.O. / Ref No. : X0902925027

The above sample(s) data and information 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.

SGS Ref. No. : CZHL2511013022HI
Sample Receiving Date : Nov 12,2025
Testing Period : Nov 12,2025 to Nov 27,2025
Test Required : DIN 4102-1:1998-05 Fire behaviour of building materials and building components Part 1: Classification of building materials, Requirements and testing, Class B1 building materials---For all materials except flooring.
Test result(s) : See attached sheet
Conclusion : The tested sample **meets** the requirements of class **B1** except flooring under DIN 4102-1:1998-05.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd Anji Branch



Eva Zhang
Approved signatory



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 sgs.china@sgs.com

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	White
Area density	1.0 kg/m ²
Size of sample	190mm×1000mm & 190mm×90mm & 230mm×90mm
Exposed (tested) surface	Smooth 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 assemblies No.			
		1	/	/	/
1	Specimen fixings according to DIN 4102 part 15, table	-	/		
2	Max. flame height above lower sample edge;	cm	60		
3	Time ¹⁾	min:s	01:06		
4	<u>Melting/burning through</u> Time ¹⁾	min:s	00:09		
5	<u>Back of specimen</u> Flaming/glowing, Time ¹⁾	min:s	00:09		
6	Discolouring, Time ¹⁾	min:s	00:06		
7	<u>Burning droplets</u> Begin ¹⁾	min:s	00:18		
	<u>Amount</u>		/		
8	Specimen material falling off in separate droplets		√		
9	Specimen material falling off continuously		/		

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com.cn
 中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 sgs.china@sgs.com



Results of "Brandschacht" Test (part 2)					
Line No.	Unit	Test assemblies No.			
		1	/	/	/
10	<u>Burning parts</u>	No			
	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		
14	<u>Burner flame impairment by dripping/falling material</u>	No			
	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	/		
17	<u>Burning after end of test</u>	No			
	Duration	min:s	/		
	18	Number of specimens	/		
	19	Front of specimen	/		
	20	Back of specimen	/		
21	Height of flame	cm	/		
22	<u>Glowing after end of test</u>	No			
	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	/		
28	<u>Smoke density</u>	Yes			
	≤ 400 %×min		√		
	> 400 %×min		/		



Results of "Brandschacht" Test (part 3)						
Line No.	Unit	Test assemblies No.				
		1	/	/	/	
30	<u>Residual length</u>	/				
	Single results	47	45			
		49	47			
31	Average of the single results	47.0				
32	<u>Smoke temperature</u>	/				
	Max. of average	186.2				
33	Time ¹⁾	3:46				

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) Ignitability test according to DIN 4102-1 Clause 6.2.5

a) Surface ignition

Fire application time: 15s

Parameter	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)	8	7	6	7	7
Molten dripping (Yes/No)	No	No	No	No	No
Smoke developments (visual impression)	Slight				



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com
 中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 sgs.china@sgs.com

b) Edge ignition

Fire application time: 15s

Parameter	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)	5	6	5	4	3
Max. flame height (cm)	12	13	11	12	12
Molten dripping (Yes/No)	No	No	No	No	No
Smoke developments (visual impression)	Medium				

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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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.

Photo Appendix:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn
 中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 sgs.china@sgs.com