







中国认可 国际互认 检测 TESTING CNAS L7877

Test Report No. SDFS2203001257FF Date: May 06, 2022 Page 1 of 5

CHANGZHOU SUN PLUS LAMINATE CO., LTD NO.16 WUQING ROAD, WEIXING INDUSTRY, HENGLIN TOWN, CHANGZHOU, CHINA

Sample Description : TOP FIRE RESISTANT PHENOLIC BOARD (FIRE RESISTANT BOARD)

The above 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.

SGS Ref No. : SDHL2203003546HI

Sample Receiving Date : Mar.11, 2022

Test Performing Date : Mar.11, 2022 to Apr.25, 2022

Test Result Summary

Test(s) Requested	Result(s)
GB 8624-2012 Fire classification for burning behavior of building materials and products Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products	Classification: A (A2-s1,d0)

Summary:

1. For further details, please refer to the following page(s).

Signed for and on behalf of Shunde Branch SGS-CSTC Co., Ltd.

Harry



Irvette Zhang Approved signatory



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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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) 83071443, or email: CND poccheck@sus.com



Test Report

No. SDFS2203001257FF

Date: May 06, 2022

Page 2 of 5

TESTS AND RESULTS

Test Conducted:

GB 8624-2012 Fire classification for burning behavior of building materials and products

Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products. And the test methods as following:

- GB/T 14402-2007 Reaction to fire tests for products-Determination of the gross heat of combustion. (Calorific Value)
- 2. GB/T 20284-2006 Single burning item test for building materials and products.

Mounting and fixing (For GB/T 20284):

There is no ventilation cavity behind the specimen. There is no joint between the specimens. Test sample is installed on the substrate by screw (test substrates is calcium silicate board and meets the requirement of standard, the density of 900 kg/m³ and thickness of 10mm).

Test Results:

Test method	<u>Parameter</u>	Number of tests	<u>Results</u>
the	The product as a whole e: -PCS (MJ/kg)	121	2.6
GB/T 14402-2007	Melamine paper ^b : -PCS (MJ/m²)	3	0.2
	Glass fiber composites a: -PCS (MJ/kg)	2.6	
	FIGRA _{0.2MJ} (W/s)		29.6
/.	FIGRA _{0.4MJ} (W/s)		29.6
	LFS < edge of specimen		Yes
GB/T 20284-2006	THR _{600s} (MJ)	3	0.8
	SMOGRA (m²/s²)	3	5.4
	TSP _{600s} (m ²)		39.5
©	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No

Remark:

PCS-gross heat of combustion [MJ/kg or MJ/m²]

FIGRA-Fire growth rate index used for classification purposes [W/s]

For Class A2 and Class B FIGRA= FIGRA_{0.2MJ}

For Class C and Class D FIGRA= FIGRA_{0.4MJ}

LFS-Lateral flame spread [m]

THR_{600s}-Total heat release within 600 s [MJ]

SMOGRA-Smoke growth rate [m²/s²]

TSP600s-Total smoke production within 600 s [m²]



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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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) 83071443, or email: CND poccheck@sus.com



Test Report

No. SDFS2203001257FF

Date: May 06, 2022

Page 3 of 5

Classification and direct field of application:

This classification has been carried out in accordance with GB 8624-2012 Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products **Conclusion:**

According to the test result, Combustion properties identified as: GB 8624 A (A2-s1,d0);

The submitted sample satisfies Class A requirement of combustion performance of flat building materials and products in GB 8624-2012.

Table 2-Classification criteria of combustion performance of flat building materials and products

Class		Test method(s)		Classification criteria
A	A1	GB/T 5464 ^a	and	∆T≤30°C; ∆m≤50%; t _f =0
		GB/T 14402		PCS≤2.0MJ/kg ^{a, b, c, e} ; PCS≤1.4MJ/m ^{2 d}
		GB/T 5464 ^a or	and	∆T≤50°C;
	A2	GB/T 14402	-	PCS≤3.0MJ/kg ^{a, e} ; P <mark>CS≤4</mark> .0MJ/m ^{2 b, d}
		GB/T 20284		FIGRA _{0.2MJ} ≤120W/s; LFS< edge of specimen; THR _{600s} ≤7.5 MJ
	В	GB/T 20284	and	FIGRA _{0.2MJ} ≤120W/s; LFS< edge of specimen; THR _{600s} ≤7.5MJ
		GB/T 8626 Exposure =30s		Fs≤150mm within 60s; No ignition of paper within 60s
B ₁	С	GB/T 20284	and	FIGRA _{0.4MJ} ≤250W/s; LFS< edge of specimen; THR _{600s} ≤15MJ
		GB/T 8626 Exposure=30s		Fs≤150mm within 60 s; No ignition of paper within 60s
B ₂	D	GB/T 20284	and	FIGRA _{0.4MJ} ≤750W/s
		GB/T 8626 Exposure=30s		Fs≤150mm within 60 s; No ignition of paper within 60s
	E	GB/T 8626 Exposure =15s		Fs≤150mm within 20 s; No ignition of paper within 20s
Вз	Bka	No performance determined		



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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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@sys.com



Test Report

No. SDFS2203001257FF

Date: May 06, 2022

Page 4 of 5

- ^a For homogeneous products or substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- $^{\rm c}$ any external non-substantial component having a PCS \leq 2.0 MJ/m $^{\rm 2}$, provided that the product satisfies the following criteria of FIGRA $_{\rm 0.2MJ} \leq$ 20 W/s, and LFS < edge of specimen, and THR $_{\rm 600s} \leq$ 4.0 MJ, and s1, and d0 can be defined A1.
- ^d For any internal non-substantial component of non-homogeneous products.
- e For the product as a whole.

Table B.1 smoke production levels and grading criterion				
SMOGRA	Test Method	Requirement		
s1	The state of the s	SMOGRA ≤ 30m ² /s ² ;		
01		TSP _{600s} ≤ 50m ²		
s2	GB/T 20284	$SMOGRA \le 180m^2/s^2$;		
02	-1113	TSP _{600s} ≤ 200m ²		
s3	×/\(\triangle\)	not s1 or s2		

Table B.2 Burning droplets / particles grades and grading criterion

Table = = = mining majorata parata granta and grantage an				
Burning droplets / particles grades	Test Method	Requirement		
d0		No flaming droplets/ particles within 600 s		
d1	GB/T 20284	Flaming droplets/ particles persisting longer than 10 s within 600 s		
d2		not d0 or d1		

Statement:

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 hazard of the product in use.

Warning:

This classification report does not represent type approval or certification of the product.



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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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) 83071443, or email: CND poccheck@sus.com

IR:「Building European Industrial Park/Not Shurthe South Road, Wustra Section Dataing Town, Shurthe Fostera, Guarquing, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn 中国・广东・佛山市原徳区大良街道办事处五沙順和南路1号欧洲工业园一号厂房首层邮编: 528333 t (86-757)22805888 f (86-757)22805858 sgs.china@sgs.com



Test Report No. SDFS2203001257FF Date: May 06, 2022 Page 5 of 5

SAMPLE INFORMATION AND PICTURES

Thickness of specimen: 3.6mm
Density of specimen: 5.02kg/m²
★Density of melamine paper: 0.02kg/m²
★Density of glass fiber composites: 4.623kg/m²

★Product usage: Use of architectural decoration

The above data and information with ★ 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. results apply to the sample as received.



Before Test for GB/T 20284



After Test for GB/T 20284



Melamine paper



Glass fiber composites

Remark: The report is English version of Chinese test report SDFS2203001257FF_CN. The Chinese version shall prevail in case of discrepancy between the Chinese version and English version.

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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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) 83071443, or email: CN. Doccheck@sus.com

1作。Faulding European Industria Park.No.1 Shumbe South Road, Wustra Section, Daliang Town, Shumbe Fostran, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn 中国・广东・保山市順徳区大良街道办事处五沙順和南路1号欧洲工业园一号厂房首层邮编: 528333 t (86-757)22805888 f (86-757)22805858 sgs.china@sgs.com