



中国认可  
国际互认  
检测  
TESTING  
CNAS L4743

**Test Report**

No. AJFS2205003861FF

Date: JUN.15, 2022

Page 1 of 6

SHANGHAI INTO INDUSTRIES CO., LTD.

NO.1299 HUBIN ROAD, HUQIAO TOWN, FENG XIAN DISTRICT, SHANGHAI 201417 P.R. CHINA

**This test report is a translation of report No. AJFS2205003861FF\_CN. If any dispute or misunderstanding happens, the Chinese version prevails.**

**Sample Description:** WPC WALL PANEL

**SGS Ref No.:** 15950914

**Style/Item No.:** /

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.

\*\*\*\*\*

**Test Requested:**

GB 8624-2012 Classification for burning behavior of building materials and products, Flat building materials and products

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

**Conclusion:** According to the test results, the submitted sample reaction to fire classification is  
**GB 8624 B<sub>1</sub> (C-s3, d0)**

**Test Period:**

Sample Receiving Date : MAY 30, 2022

Test Performing Date : MAY 30, 2022 TO JUN.13, 2022

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

Allen Zou  
Approved Signatory

scan to see the report



AJFS2205003861FF



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-Documents.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@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 e sgs.china@sgs.com

**I. Test conduct:**

This test is conducted as per GB 8624-2012 classification for burning behavior of building materials and products. And the test methods as following:

1. GB/T 20284-2006 Single burning item test for building materials and products.
2. GB/T 8626-2007 Test method of flammability for building materials.

**II. Details of classified product**

a) Nature and end use application

The product "WPC wall panel (provided by client)" is defined as building material. Its classification is valid for the following end use application: wallboard.

b) Description

Sample description / Color	WPC wall panel (provided by client) / Yellow
Specimen size	GB/T 20284: 1500mmx1000mm, 1500mmx495mm GB/T 8626: 250mmx90mm
Thickness	9.0mm
Mass per unit area	6.4 kg/m <sup>2</sup>
Exposed surface	Yellow surface

Mounting and fixing (GB/T 20284):

Fiber cement board, with its density approximate 1800kg/m<sup>3</sup>, thickness approximate 9mm, is as the substrate. The test specimens are fixed to the substrate with screw. Have horizontal and vertical joint in the long wing of the specimen.

**III. Test result**

Test methods	Parameter	Results
GB/T 20284	FIGRA <sub>0.2MJ</sub> (W/s)	170.4
	FIGRA <sub>0.4MJ</sub> (W/s)	170.4
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)	No
	THR <sub>600s</sub> (MJ)	11.2
	SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	91.4
	TSP <sub>600s</sub> (m <sup>2</sup> )	357.7
GB/T 8626 Exposure = 30 s	Whether vertical flame spread in excess of 150 mm within 60s (Yes/No)	No
	Ignition of the filter paper (Yes/No)	No

To be continued....



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-Documents.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@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 e sgs.china@sgs.com

**Remark:**

- FIGRA Fire growth rate index;  
Maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR-threshold of 0.2 MJ/0.4MJ.
- THR<sub>600s</sub> Total heat release from the specimen in the first 600 s of exposure to the main (primary) burner flames.
- SMOGRA Smoke growth rate index;  
Maximum of the quotient of smoke production rate from the specimen and the time of its occurrence.
- TSP<sub>600s</sub>: Total smoke production from the specimen in the first 600 s of exposure to the main (primary) burner flames.

**IV. Classification and direct field of application**

This classification has been carried out in accordance with GB 8624-2012 chapter 5.1.1, the classes with their corresponding fire performance are given in annex A.

a) Classification

The product, WPC wall panel (provided by client), classification is as following:

**Reaction to fire classification: GB 8624 B<sub>1</sub> (C-s3, d0)**

b) Field of application

This classification for the submitted sample as described in §II, is valid for the following end use condition:

- With all substrates classified A1 or A2
- With mechanically fixing to the substrate
- Have joint

Characteristics of the various layers identical to those as described in section II b) of this test report.

**STATEMENT:**

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.

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.

To be continued....



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-Documents.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@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 e sgs.china@sgs.com

**WARNING:**

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

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

**Annex A**

**Classes and Classification criteria of reaction to fire performance for Flat building materials and products**

Class	Test method(s)	Classification criteria
A	A1	GB/T 5464 <sup>a</sup> and $\Delta T \leq 30^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f = 0$ (i.e. no sustained flaming)
		GB/T 14402 $PCS \leq 2.0 \text{ MJ/kg}$ <sup>a,b,c,e</sup> and $PCS \leq 1.4 \text{ MJ/m}^2$ <sup>d</sup>
	A2	GB/T 5464 <sup>a</sup> or and $\Delta T \leq 50^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f \leq 20 \text{ s}$
		GB/T 14402 $PCS \leq 3.0 \text{ MJ/kg}$ <sup>a,e</sup> and $PCS \leq 4.0 \text{ MJ/m}^2$ <sup>b,d</sup> and
		GB/T 20284 $FIGRA_{0.2 \text{ MJ}} \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600 \text{ s}} \leq 7.5 \text{ MJ}$
B <sub>1</sub>	B	GB/T 20284 and $FIGRA_{0.2 \text{ MJ}} \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600 \text{ s}} \leq 7.5 \text{ MJ}$
		GB/T 8626 Exposure = 30s $F_s \leq 150 \text{ mm}$ within 60 s no flaming droplets ignition of the paper within 60s
	C	GB/T 20284 and $FIGRA_{0.4 \text{ MJ}} \leq 250 \text{ W/s}$ $LFS < \text{edge of specimen}$ $THR_{600 \text{ s}} \leq 15 \text{ MJ}$
		GB/T 8626 Exposure = 30s $F_s \leq 150 \text{ mm}$ within 60 s no flaming droplets ignition of the paper within 60s
B <sub>2</sub>	D	GB/T 20284 and $FIGRA_{0.4 \text{ MJ}} \leq 750 \text{ W/s}$
	E	GB/T 8626 Exposure = 30s $F_s \leq 150 \text{ mm}$ within 60 s no flaming droplets ignition of the paper within 60s
		GB/T 8626 Exposure = 15s $F_s \leq 150 \text{ mm}$ within 20 s no flaming droplets ignition of the paper within 60s
B <sub>3</sub>	F	No performance determined

To be continued....



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-Documents.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 herein 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 e sgs.china@sgs.com



- a: For homogeneous products and substantial components of non-homogeneous products;
- b: For any external non-substantial component of non-homogeneous products;
- c: Alternatively, any external non-substantial component having a PCS  $\leq 2,0 \text{ MJ/m}^2$ , if the product satisfies the following criteria:  $\text{FIGRA}_{0.2\text{MJ}} \leq 20 \text{ W/s}$ , and  $\text{LFS} < \text{edge of specimen}$ , and  $\text{THR}_{600\text{s}} \leq 4.0 \text{ MJ}$ , and  $s_1$ , and  $d_0$ , it will be  $A_1$
- d: For any internal non-substantial component of non-homogeneous products;
- e: For the product as a whole;

### Characteristics of smoke production classification and Classification criteria

Characteristics of smoke production classification	Test method	Classification criteria	
s1	GB/T 20284	Building materials and products Except for flooring and linear pipe thermal insulation product	$\text{SMOGR} \leq 30 \text{ m}^2/\text{s}^2$ $\text{TSP} \leq 50 \text{ m}^2$
s2		Building materials and products Except for flooring and linear pipe thermal insulation product	$\text{SMOGR} \leq 180 \text{ m}^2/\text{s}^2$ $\text{TSP} \leq 200 \text{ m}^2$
s3		Not s2	

### Flaming droplets/ particles and Classification criteria

Flaming droplets/ particles	Test method	Classification criteria
d0	GB/T 20284	No flaming droplets/ particles within 600 s;
d1		No flaming droplets/ particles persisting longer than 10 s within 600 s;
d2		Not d1

To be continued....

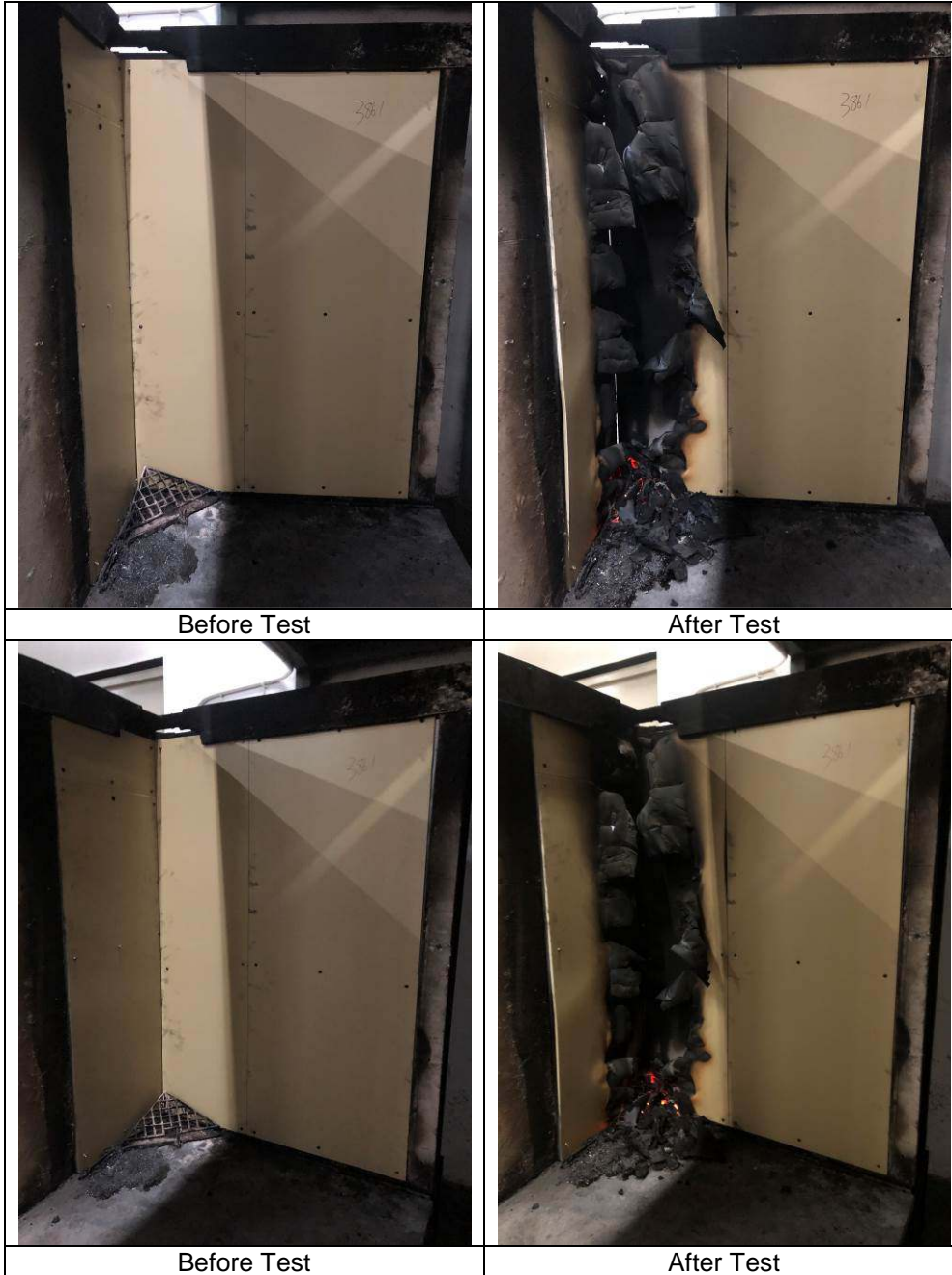


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.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@sgs.com](mailto:CN.Doccheck@sgs.com)

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 501825 f (86-572) 501829 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) 501825 f (86-572) 501829 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

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 <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-Documents.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@sgs.com](mailto: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 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)