

HUNAN TAOHUAJIANG BAMBOO SCIENCE&TECHNOLOGY CO., LTD  
DEVELOPMENT ZONES,TAOJIANG COUNTY, YIYANG CITY,HUNAN PROVINCE,CHINA

Sample Description : WOOD GRAIN BAMBOO DECKING  
 Manufacturer : HUNAN TAOHUAJIANG BAMBOO SCIENCE&TECHNOLOGY CO., LTD  
 Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*

SGS Ref No. : SDFS2311007604FF & XMIN2312001530CM01\_EN  
 Sample Receiving Date : Nov 29, 2023  
 Test Performing Date : Nov 29, 2023 to Dec 14, 2023  
 Test Performed : Selected test(s) as requested by applicant

**Test Result Summary**

No.	Test(s) Requested	Result(s)	Comments
1	EN 13501-1:2018 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests	See attached sheet	/
2	Shod Ramp Test	See Result	/

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

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

Peter Zhao  
Authorized Signatory

Scan to see the report



SDHL2311021510HI  
Verification:  
check.sgsonline.com.cn



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](mailto:CN.Doccheck@sgs.com)  
 1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgs.com.cn  
 中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

**Part 1 (SGS Ref No.: SDFS2311007604FF)**

**I. Test conducted**

This test was conducted as per EN 13501-1:2018 Fire classification of construction products and building elements— Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN ISO 9239-1:2010 Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat source.
2. EN ISO 11925-2:2020 Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.

**II. Details of classified product**

Sample Description	Wood
Color	Brown
Thickness	18mm
Area density	20.9kg/m <sup>2</sup>

**Mounting and fixing:**

Fibre cement board meets the requirement of EN13501-1 of Class A2-s1,d0, with its density about 1800kg/m<sup>3</sup>, thickness about 8mm, is as the substrate.

The specimens were fixed mechanically to the substrate.

Specimen width less than 230 mm, joining together two pieces of samples to 230 mm wide.

**III. Test results**

Test methods	Parameter	Number of tests	Results
EN ISO 9239-1	Critical flux (kW/m <sup>2</sup> )	3	10.05
	Smoke (%×minutes)		39.0
EN ISO 11925-2 Exposure = 15 s	Fs≤150mm within 20 s (Yes/No)	6	Yes

Remark:

- 1). Above value is the mean value for the critical flux (CHF and/or HF-30) from the three same orientation specimens.



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**  
 1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgs.com.cn  
 中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

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

**a) Reference of classification**

This classification has been carried out in accordance with **EN 13501-1:2018**.

**b) Classification**

The product, wood grain bamboo decking (as described by the sponsor), in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production	
B <sub>fl</sub>	—	s	1

**Reaction to fire classification: B<sub>fl</sub>—s1**

**Remark:** The classes with their corresponding fire performance are given in annex A.

**c) Field of application**

This classification is valid for the following product parameters:

--- Characteristics as described in section II of this test report.

This classification is valid for the following end use applications:

- With all substrates classified as A1 or A2
- With mechanically fixing
- With joints

**Limitations**

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

**Warning:**

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

**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.

Note: This document cannot be reproduced except full, without prior written approval of the Company.



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**  
 1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgs.com.cn  
 中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

**Annex A Classes of reaction to fire performance for floorings**

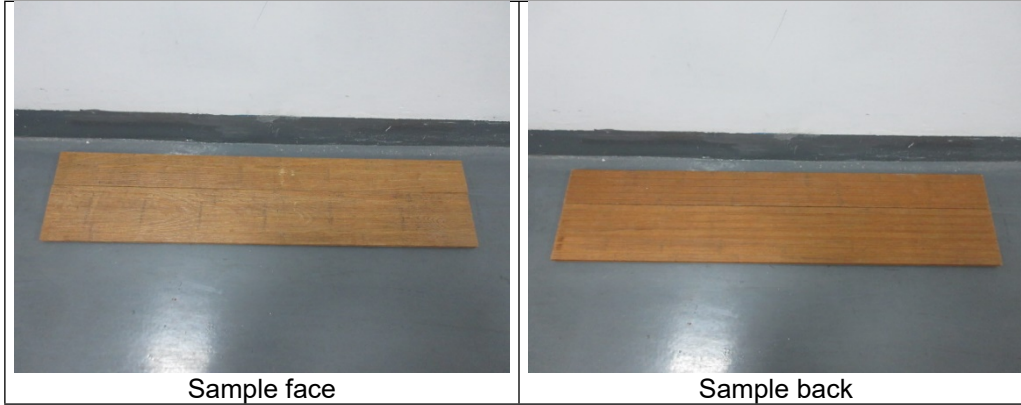
Class	Test methods	Classification criteria	Additional classification
A <sub>fl</sub>	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	PCS $\leq 2.0\text{MJ/kg}$ <sup>a</sup> and PCS $\leq 2.0\text{MJ/kg}$ <sup>b</sup> and PCS $\leq 1.4\text{MJ/m}^2$ <sup>c</sup> and PCS $\leq 2.0\text{MJ/kg}$ <sup>d</sup>	-
A <sub>2 fl</sub>	EN ISO 1182 <sup>a</sup> or	$\Delta T \leq 50^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f \leq 20\text{s}$	-
	EN ISO 1716 and	PCS $\leq 3.0\text{MJ/kg}$ <sup>a</sup> and PCS $\leq 4.0\text{MJ/m}^2$ <sup>b</sup> and PCS $\leq 4.0\text{MJ/m}^2$ <sup>c</sup> and PCS $\leq 3.0\text{MJ/kg}$ <sup>d</sup>	-
	EN ISO 9239-1 <sup>e</sup>	Critical flux $f \geq 8.0\text{kW/m}^2$	Smoke production <sup>g</sup>
B <sub>fl</sub>	EN ISO 9239-1 <sup>e</sup> and	Critical flux $f \geq 8.0\text{kW/m}^2$	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	-
C <sub>fl</sub>	EN ISO 9239-1 <sup>e</sup> and	Critical flux $f \geq 4.5\text{kW/m}^2$	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	-
D <sub>fl</sub>	EN ISO 9239-1 <sup>e</sup> and	Critical flux $f \geq 3.0\text{kW/m}^2$	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	-
E <sub>fl</sub>	EN ISO 11925-2 <sup>h</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	-
F <sub>fl</sub>	EN ISO 11925-2 <sup>h</sup> Exposure = 15s	$F_s > 150\text{mm}$ within 20 s	

<sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.  
<sup>b</sup> For any external non-substantial component of non-homogeneous products.  
<sup>c</sup> For any internal non-substantial component of non-homogeneous products.  
<sup>d</sup> For the product as a whole.  
<sup>e</sup> Test duration = 30 min.  
<sup>f</sup> Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).  
<sup>g</sup> **s1** = Smoke  $\leq 750\%$  minutes;  
**s2** = not s1.  
<sup>h</sup> Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.



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**  
 1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgs.com.cn  
 中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

### Photo Appendix:



SGS-CSTC Guangzhou Technical Services Co., Ltd.  
Shunde Branch

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](mailto:CN.Doccheck@sgs.com)

1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgs.com.cn  
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

Part 2 (SGS Ref No.: XMIN2312001530CM01\_EN)

Summary of Results:

No.	Test Item	Test Method	Result
1	Shod Ramp Test	DIN EN 16165:2023-02 Annex B	Ramp test value $\alpha_{shod}$ : 13° Slip resistance class: R10

Original Sample Photo:



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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Guangzhou Technical Services Co., Ltd.  
Shunde Branch

1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgs.com.cn  
中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com

1. Test Item: Shod ramp test

Sample Description: Flooring, See photo

Test Method: DIN EN 16165:2023-02 Determination of slip resistance of pedestrian surfaces - Methods of evaluation Annex B Shod ramp test

Test Condition:

Specimen: 1000mm×150mm, 3pcs form a testing surface 1000mm×450mm, see photo

Test surface: see photo

Test direction: Long side direction

Test result:

Test item(s)	Test result(s)	Slip resistance class
Shod ramp test	Ramp test value $\alpha_{shod}$ : 13°	R10

**DIN EN 16165:2023-02 NB.2 Classification of the results by shod ramp test:**

Test result $\alpha_{shod}$	Slip resistance class
$6^\circ \leq \alpha_{shod} \leq 10^\circ$	R9
$10^\circ < \alpha_{shod} \leq 19^\circ$	R10
$19^\circ < \alpha_{shod} \leq 27^\circ$	R11
$27^\circ < \alpha_{shod} \leq 35^\circ$	R12
$35^\circ < \alpha_{shod}$	R13

**Remark:** This test was subcontracted to SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch.

\*\*\*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](mailto:CN.Doccheck@sgs.com)

1-2/F., Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China 528300 t (86-757)22805888 www.sgs.com.cn  
 中国·广东·佛山市顺德区大良街道办事处五沙社区居民委员会顺和南路1号欧洲工业园一号厂房首层、二层 邮编: 528300 t (86-757)22805888 sgs.china@sgs.com