

**Test Report**

No. AJFS1810010507FF

Date: NOV.08, 2018

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**ANHUI YANGZI FLOORING INCORPORATED COMPANY**

98 WEST GARDEN RD, ECONOMIC DEVELOPMENT ZONE, CHUZHOU, ANHUI

**This test report is a translation of report No. AJFS1810010507FF\_CN. If any dispute or misunderstanding happens, the Chinese version prevails.**

The following sample(s) was / were submitted and identified on behalf of the client as:

**Sample Description:** WATERTIGHT, ANTISKID AND ENVIRONMENT-FRIENDLY SPC FLOOR**SGS Ref No.:** SHHL1810057840BM**Style/Item No.:** /**Test Requested:**

GB 8624-2012 classification for burning behavior of building materials and products, flooring material

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

Sample Receiving Date : OCT.24, 2018

Test Performing Date : OCT.24, 2018 TO NOV.01, 2018

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anji BranchAllen Zou  
Technical Manager

**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 11785-2005 Reaction to fire tests for floorings — Determination of the burning behaviour using a radiant heat source;
2. GB/T 8626-2007 Test method of flammability for building materials.

**II. Details of classified product**

Sample description / Color	Floor / Yellow
Thickness*	4.6mm
Density	About 2025 kg/m <sup>3</sup>

\* Measured by lab.

Mounting and fixing:

Fibre cement board, with its density approximate 1800kg/m<sup>3</sup>, thickness approximate 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate. No joint in the specimens.

**III. Test result**

Test method	Parameter	Number of tests	Results
GB/T 11785	CHF (kW/m <sup>2</sup> )	3	≥11
	Smoke (%×minutes)		108
GB/T 8626 Exposure = 15 s	F <sub>s</sub> ≤ 150 mm with 20s	6	Yes

**Note:**

CHF: Critical flux.

F<sub>s</sub>: Flame spread with 20s.

To be continued....



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

This classification has been carried out in accordance with GB 8624-2012 chapter 5.1.2 flooring materials, The classes with their corresponding fire performance are given in annex A.

a) Classification

The product, Floor, classification is as following:

Reaction to fire
B

**Reaction to fire classification: GB 8624 B<sub>1</sub> (B-s1)**

b) Field of application

This classification for the submitted sample is valid for the following end use condition:

- With all substrates classified A1 or A2
- With mechanically fixing
- No joint

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

**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. 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.

To be continued....



**Annex A**

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</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>
	A2	GB/T 5464 <sup>a</sup> or		$\Delta T \leq 50^{\circ}\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f \leq 20\text{ s}$
		GB/T 14402 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>
		GB/T 11785 <sup>e</sup>		Critical flux $CHF$ ( $\text{kW/m}^2$ ) $\geq 8.0\text{kW/m}^2$
B <sub>1</sub>	B	GB/T 11785 <sup>e</sup> and		Critical flux $CHF \geq 8.0\text{kW/m}^2$
		GB/T 8626 Exposure = 15s and		$F_s \leq 150\text{mm}$ within 20 s
	C	GB/T 11785 <sup>e</sup> and		Critical flux $CHF \geq 4.5\text{kW/m}^2$
		GB/T 8626 Exposure = 15s		$F_s \leq 150\text{mm}$ within 20 s
B <sub>2</sub>	D	GB/T 11785 <sup>e</sup> and		Critical flux $CHF \geq 3.0\text{kW/m}^2$
		GB/T 8626 Exposure = 15s and		$F_s \leq 150\text{mm}$ within 20 s
	E	GB/T 11785 <sup>e</sup> and		Critical flux $CHF \geq 2.2\text{kW/m}^2$
		GB/T 8626 Exposure = 15s and		$F_s \leq 150\text{mm}$ within 20 s
B <sub>3</sub>	F	No performance determined		

a: For homogeneous products and substantial components of non-homogeneous products.  
b: For any external non-substantial component of non-homogeneous products.  
c: For any internal non-substantial component of non-homogeneous products.  
d: For the product as a whole.  
e: Test duration = 30 min.

To be continued....



### 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	SMOGR <sub>A</sub> ≤ 30 m <sup>2</sup> /s <sup>2</sup> TSP ≤ 50 m <sup>2</sup>
		linear pipe thermal insulation product	SMOGR <sub>A</sub> ≤ 105 m <sup>2</sup> /s <sup>2</sup> TSP ≤ 250 m <sup>2</sup>
	GB/T 11785	flooring	Smoke production ≤ 750% × min
S2	GB/T 20284	Building materials and products Except for flooring and linear pipe thermal insulation product	SMOGR <sub>A</sub> ≤ 180 m <sup>2</sup> /s <sup>2</sup> TSP ≤ 200 m <sup>2</sup>
		linear pipe thermal insulation product	SMOGR <sub>A</sub> ≤ 580 m <sup>2</sup> /s <sup>2</sup> TSP ≤ 1600 m <sup>2</sup>
	GB/T 11785	Flooring	Not s1
S3	Not s2		

### Photo Appendix:



SGS authenticate the photo on original report only

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



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