

# TEST REPORT

No. : GZIN150600846CCM-02

Date : Jun. 29, 2018

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CLIENT NAME: LSCOMPOSITEDECKING COMPANY.

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

Sample Name : WPC 145\*21.140\*20.140\*21  
SGS Ref. No. : SDHG1506078628FB  
Test Performed : Selected test(s) as requested by applicant  
Date of Receipt : Jun. 03, 2018  
Test Period : Jun. 03, 2018 to Jun. 18, 2018  
  
Test result(s) : Please refer to the following page(s)

\*\*\*\*\*To be continued\*\*\*\*\*

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

Chandler Wu  
Technical Engineer



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**Test Information:**

Sample description: See photo

**Test Item:** Fire classification

**Conducted:**

GB 8624-2012 Fire classification for burning behavior of building materials and products, Class B<sub>1</sub>

And the test methods as following:

1. GB/T 11785-2005 Reaction to fire test for flooring—Determination of the burning behavior using a radiant heat source.
2. GB/T 8626-2007 Test method of flammability for building materials.

**I. Sample Description:**

Name:	WPC 145*21.140*20.140*21
Area Density:	About 29.5 kg/m <sup>2</sup>
Thickness:	About 23 mm
Sample Size	About 1050x230 mm*

Remark:\* - As per standard requirement the specimens were spliced joint a standard size.

\*\*\*\*\*To be continued\*\*\*\*\*



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## II. Test Results

1. GB/T 11785 Reaction to fire test for flooring—Determination of the burning behavior using a radiant heat source

Specimen No.	Furthest extent of spread of flame(mm)	Critical Heat Flux (CHF or HF-30) kW/m <sup>2</sup>	Comments and Observation
1	50	≥11	Charring
2	70	≥11	Charring
3	60	≥11	Charring
The mean value for the critical heat flux (CHF and/or HF-30) from the three specimens from the same orientation: ≥11 kW/m <sup>2</sup>			
Smoking measurement Integrated smoke value: 12.784 %×min			

2. GB/T 8626:2007 Test method of flammability for building materials.

Ignition Position	Face Ignition and Edge ignition
Flame Application Time	15s

\*\*\*\*\*To be continued\*\*\*\*\*



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Expression of results	Specimen No. & Result					
	Face Ignition			Edge ignition		
	1	2	3	4	5	6
Whether ignition occurs (Yes/No)	No	No	No	Yes	Yes	Yes
Whether the flame tip reaches 150 mm above the flame application point, and the time at which this occurs (No/Time)	No	No	No	No	No	No
Whether ignition of the filter paper occurs (Yes/No)	No	No	No	No	No	No

### III. Classification and direct field of application

This classification has been carried out in accordance with GB 8624-2012 and the classes with their corresponding fire performance are given in Annex A

#### Conclusion:

According to the test result, Combustion properties identified as: GB 8624 B<sub>1</sub> (B-s1)

The submitted sample **satisfies** GB 8624-2012 Class B<sub>1</sub>

**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\*\*\*\*\*



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## Annex A

### Classes of reaction to fire performance for floorings

Class		Test method(s)		Classification criteria
A	A1	GB/T 5464 <sup>a</sup> and		$\Delta T \leq 30 \text{ }^\circ\text{C}$ ; and $\Delta m \leq 50 \%$ ; and $t_f = 0$ (i.e. no sustained flaming)
		GB/T 14402		$PCS \leq 2,0 \text{ MJ/kg}^a$ and $PCS \leq 2,0 \text{ MJ/kg}^b$ and $PCS \leq 1,4 \text{ MJ/m}^2^c$ and $PCS \leq 2,0 \text{ MJ/kg}^d$
	A2	GB/T 5464 <sup>a</sup> or	and	$\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$
		GB/T 14402		$PCS \leq 3,0 \text{ MJ/kg}^a$ and $PCS \leq 4,0 \text{ MJ/m}^2^b$ and $PCS \leq 4,0 \text{ MJ/m}^2^c$ and $PCS \leq 3,0 \text{ MJ/kg}^d$
		GB/T 11785 <sup>e</sup> and	Critical flux <sup>f</sup> $\geq 8,0 \text{ kW/m}^2$	
B <sub>1</sub>	B	GB/T 11785 <sup>e</sup> and		Critical flux <sup>f</sup> $\geq 8,0 \text{ kW/m}^2$
		GB/T 8626 Exposure =15s		$F_s \leq 150 \text{ mm}$ within 20 s
	C	GB/T 11785 <sup>e</sup> and		Critical flux <sup>f</sup> $\geq 4,5 \text{ kW/m}^2$
		GB/T 8626 <sup>h</sup> Exposure =15s and		$F_s \leq 150 \text{ mm}$ within 20 s

\*\*\*\*\*To be continued\*\*\*\*\*



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Class		Test method(s)	Classification criteria
B <sub>2</sub>	D	GB/T 11785 <sup>e</sup> and	Critical flux <sup>f</sup> ≥ 3,0 kW/m <sup>2</sup>
		GB/T 8626 <sup>h</sup> Exposure =15s	F <sub>s</sub> ≤ 150mm within 20 s
	E	GB/T 8626 <sup>h</sup> Exposure =15s	F <sub>s</sub> ≤ 150 mm within 20 s
B <sub>3</sub>	F	No performance determined	

<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.

**Table B.1 smoke production levels and grading criterion**

SMOGRA	Test Method	Requirement
s1	GB/T 11785	Smoke ≤ 750 % minutes;
s2		not s1.

Note: The above test was carried out by a SGS internal laboratory.

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\*\*\*\*\*End of report\*\*\*\*\*



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