

## Test Report

Issue Date: 2019 06-26

Intertek Report No. 190604004SHF001

Applicant:

Address:

Attn: Zhenguo Zhu

Test Type : Performance test, samples provided by the applicant.

### Product Information

<b>Product Name</b>	WPC Decking	<b>Brand</b>	/
<b>Sample Description</b>	Good Condition	<b>Sample Amount</b>	23 pcs
		<b>Received Date</b>	2019-06-03
<b>Sample ID</b>	<b>Model</b>	<b>Specification</b>	
S190604004SHF.001~002	/	1050mm*145mm	

### Test Methods And Standards

<b>Test Standard</b>	EN ISO 9239-1:2010 and EN ISO 11925-2:2010
<b>Specification Standard</b>	EN 13501-1:2018
<b>Test Conclusion</b>	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1. This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

### Report Authorized

Sally  
Name: Sally Xie  
Title: Reviewer



Tod Qian  
Name: Tod Qian  
Title: Project Engineer



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## Test Items, Method and Results:

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

### 1.1 CRITICAL HEAT FLUX TEST

The test was conducted in accordance with EN ISO 9239-1. This test evaluates the wind-opposed burning behaviour and spread of flame of horizontally mounted floorings exposed to a heat flux radiant gradient in a test chamber, when ignited with pilot flames.

### 1.2 IGNITABILITY TEST

The test was conducted in accordance with EN ISO 11925-2. This test evaluates the ignitability of a product under exposure to a small flame.

### 1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class B<sub>fl</sub> with its corresponding fire performance is given in the table below.

Table - Classes of reaction to fire performance for flooring.

Class	Test Method(s)	Classification criteria	Additional classifications
B <sub>fl</sub>	EN ISO 9239-1 <sup>a</sup> and	Critical flux <sup>b</sup> ≥ 8.0 kW/m <sup>2</sup>	Smoke production <sup>c</sup>
	EN ISO 11925-2 <sup>d</sup> Exposure = 15 s	F <sub>s</sub> ≤ 150 mm within 20 s	-

**Note:**

- a. Test duration = 30 min.
- b. 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).
- c. s1 = Smoke ≤ 750 % minutes; s2 = not s1.
- d. Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

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## Test Items, Method and Results:

### 2 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN ISO 9239-1:2010	Critical flux (transverse), kW/m <sup>2</sup>	≥ 11.0
	Critical flux (longitudinal), kW/m <sup>2</sup>	8.8
	Smoke production, % minutes	1012
EN ISO 11925-2:2010 Exposure = 15 s	F <sub>s</sub> ≤ 150 mm within 20 s	Yes

### 3 CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour	Smoke production		
B <sub>fl</sub>	-	s	2

Reaction to fire classification: B<sub>fl</sub>-s2



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### Test Items, Method and Results:

#### 4 Test Photos of EN ISO 9239-1



Before test



After test