

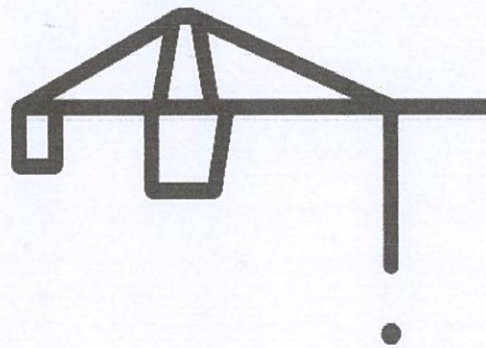


**REPORT NUMBER**  
181229012SHF-001

**ISSUE DATE**  
2019/1/17

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6

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## Test Report

Issue Date: 2019/1/17

Intertek Report No. 181229012SHF-001

Applicant:

Applicant Address:

Attn:

**SUBJECT:** Performance testing  
Wood Plastic Composite

Dear Sir,

This test report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS
Refer to the next following Pages.

SAMPLE ID	MODEL	SPECIFICATION
S181229012SHF.001~002	LHMA076	146*23

SAMPLE RECEIVED: 2018/12/29  
TESTED FROM: 2018/12/29 TO 2019/1/17

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### Test Items, Method and Results:

EN 13501-1:2007+A1:2009 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 13501-1:2007+A1:2009. 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> $\geq 8.0 \text{ kW/m}^2$	Smoke production <sup>c</sup>
	EN ISO 11925-2 <sup>d</sup> Exposure = 15 s	F <sub>s</sub> $\leq 150 \text{ mm}$ 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  $\leq 750 \%$  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>	≥ 11.0
	Smoke production, % minutes	138
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
<i>B<sub>fl</sub></i>	- s	<i>1</i>

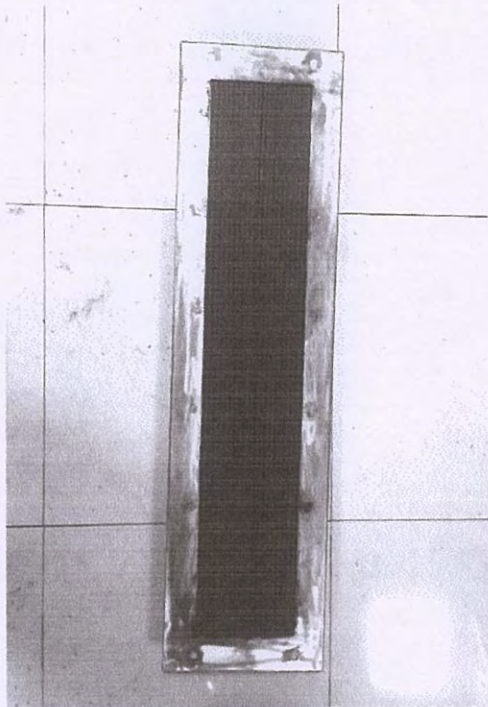
Reaction to fire classification: *B<sub>fl</sub>-s1*

## Test Report

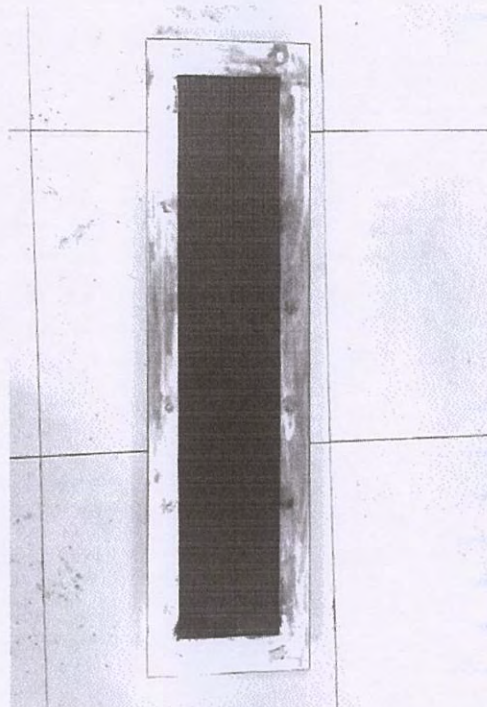
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### 4 Test Photos of EN ISO 9239-1



Before test



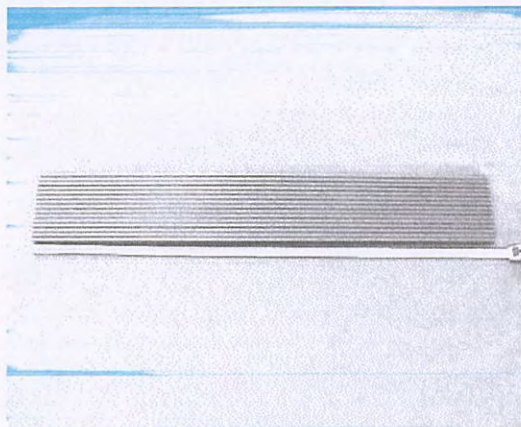
After test

## Test Report

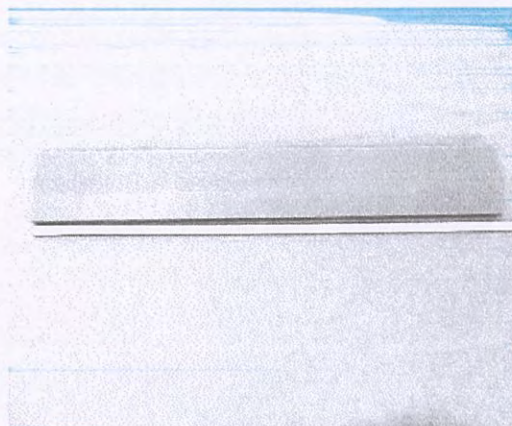
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### APPENDIX: SAMPLE RECEIVED PHOTO



Front View (Test Face)



Back View

### REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

*Sally Xie*

Name: Sally Xie

Title: Reviewer

*Tod Qian*

Name: Tod Qian

Title: Project Engineer

### Revision:

NO.	DATE	CHANGES	AUTHOR	REVIEWER
181229012SHF-001	2019/1/17	First issue	Tod Qian	Sally Xie