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检测  
TESTING  
CNAS L4743

## Test Report

No. AJFS2112010807FF

Date: DEC.29, 2021

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SHANGHAI INTCO INDUSTRIES CO., LTD

NO. 1299 HUBIN ROAD, FENGXIAN DISTRICT, SHANGHAI, CHINA

**Sample Name:** WPC DECKING

**SGS Ref No.:** 15794697

**Style/Item No.:** /

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

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### Test Requested:

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

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

### Test Period:

Sample Receiving Date : DEC.15, 2021

Test Performing Date : DEC.15, 2021 TO DEC.28, 2021

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Allen Zou

Approved Signatory

scan to see the report



AJFS2112010807FF



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### 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	WPC Decking
Color	Brown
Sample Size	EN ISO 9239-1: 1050mm×230mm EN ISO 11925-2: 250mm×90mm
Thickness	20 mm
Mass per unit area	17.5 kg/m <sup>2</sup>
Exposed surface	Wood surface

#### 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. Have horizontal joints in the specimen.

### III. Test results

Test methods	Parameter	Number of tests	Results
EN ISO 9239-1	Critical flux (kW/m <sup>2</sup> )	3	3.6
	Smoke (%×minutes)		232.0
EN ISO 11925-2 Exposure = 15 s	Whether vertical flame spread (Fs) in excess of 150 mm within 20 s (Yes/No)	6	No

To be continued...



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## 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, WPC Decking, in relation to its reaction to fire behaviour is classified:

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

**Reaction to fire classification: D<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 end use applications:

- With all substrates classified as A1 and A2
- With mechanically fixing
- Have joints

This classification is valid for the following product parameters:

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

### 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.

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 methods	Classification	Additional classification
A1 <sub>fl</sub>	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30^\circ\text{C}$ , $\Delta m \leq 50\%$ , $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$\text{PCS} \leq 2.0\text{MJ/kg}$ <sup>a</sup> $\text{PCS} \leq 2.0\text{MJ/kg}$ <sup>b</sup> $\text{PCS} \leq 1.4\text{MJ/m}^2$ <sup>c</sup> $\text{PCS} \leq 2.0\text{MJ/kg}$ <sup>d</sup>	-
A2 <sub>fl</sub>	EN ISO 1182 <sup>a</sup> or	$\Delta T \leq 50^\circ\text{C}$ , $\Delta m \leq 50\%$ , $t_f \leq 20\text{s}$	-
	EN ISO 1716 and	$\text{PCS} \leq 3.0\text{MJ/kg}$ <sup>a</sup> $\text{PCS} \leq 4.0\text{MJ/m}^2$ <sup>b</sup> $\text{PCS} \leq 4.0\text{MJ/m}^2$ <sup>c</sup> $\text{PCS} \leq 3.0\text{MJ/kg}$ <sup>d</sup>	-
	EN ISO 9239-1 <sup>e</sup>	Critical flux <sup>f</sup> $\geq 8.0\text{kW/m}^2$	Smoke production <sup>g</sup>
B <sub>fl</sub>	EN ISO 9239-1 <sup>e</sup> and	Critical flux <sup>f</sup> $\geq 8.0\text{kW/m}^2$	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 <sup>f</sup> $\geq 4.5\text{kW/m}^2$	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 <sup>f</sup> $\geq 3.0\text{kW/m}^2$	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.

To be continued...



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**Remark:** The test method EN ISO 11925-2:2020 is not in CMA accredited scope. The test report shall only be used for client internal reference.

### Photo Appendix:



SGS authenticate the photo on original report only

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



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