

SGS



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Test Report

No. AJFS1805004799FF

Date: JUN.13, 2018

Page 1 of 5

ANHUI SENTAI WPC TEC FLOORING CO., LTD

ECONOMIC&TECHNOLOGY DEVELOPMENT AREA. GUANGDE COUNTY ANHUI PROVINCE
CHINA 242237

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

Sample Description: FOAMED PVC CO-EXTRUDED OUTDOOR DECKING

SGS Ref No.: SHHL1805025064BM

Style No.: STPV B103

Supplier: ANHUI SENTAI WPC TEC FLOORING CO., LTD

Manufacturer: ANHUI SENTAI WPC TEC FLOORING CO., LTD

Country of Origin: CHINA

Test Requested:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1:
Classification using data from reaction to fire tests, Class B_{fl}

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : MAY.28, 2018

Test Performing Date : MAY.28, 2018 TO JUN.11, 2018

Signed for and on behalf of
SGS-CSTC Co., Ltd. Anji Branch

Allen Zou
Technical Manager



SGS-CSTC Inspection & Testing Services Co., Ltd.
Anji Branch Harbin

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Member of the SGS Group (SGS SA)

I. Test conducted

This test was conducted as per EN 13501-1:2007+A1:2009 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 11925-2:2010+Cor1:2011 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

| | |
|--------------------|------------------------------|
| Sample description | Floor |
| Color | Wood color |
| Thickness | About 22.5mm |
| Mass per unit area | About 16.4 kg/m ² |

Mounting and fixing:

Fibre cement board, with its density approximate 1800kg/m³, thickness approximate 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate. Have joint along the length direction.

III. Test results

| Test method | Parameter | Number of tests | Results |
|-----------------------------------|------------------------------------|-----------------|---------|
| EN ISO 9239-1 | Critical flux (kW/m ²) | 3 | 11.0 |
| | Smoke (%×minutes) | | 254.0 |
| EN ISO 11925-2 Exposure = 15 s | $F_s \leq 150$ mm | 6 | Yes |

To be continued...



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IV. Classification and direct field of application

This classification has been carried out in accordance with **EN 13501-1:2007+A1:2009**.

a) Classification

The product, Floor, classification is as following,

| Fire behaviour | | Smoke production | |
|-----------------|---|------------------|---|
| B _{fl} | — | s | 1 |

Reaction to fire classification: B_{fl}—s1

Remark: The classes with their corresponding fire performance are given in annex A.

b) Field of application

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

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

This classification is valid for the following product parameters:

- Characteristics 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...



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Annex A

Classes of reaction to fire performance for floorings

| class | Test methods | Classification | Additional classification |
|------------------|---|--|-------------------------------|
| A1 _{fl} | EN ISO 1182 ^a and | $\Delta T \leq 30^\circ\text{C}$, $\Delta m \leq 50\%$, $t_f = 0$ (i.e. no sustained flaming) | - |
| | EN ISO 1716 | PCS $\leq 2.0\text{MJ/kg}$ ^a PCS $\leq 2.0\text{MJ/kg}$ ^b PCS $\leq 1.4\text{MJ/m}^2$ ^c PCS $\leq 2.0\text{MJ/kg}$ ^d | - |
| A2 _{fl} | EN ISO 1182 ^a or | $\Delta T \leq 50^\circ\text{C}$, $\Delta m \leq 50\%$, $t_f \leq 20\text{s}$ | - |
| | EN ISO 1716 and | PCS $\leq 3.0\text{MJ/kg}$ ^a PCS $\leq 4.0\text{MJ/m}^2$ ^b PCS $\leq 4.0\text{MJ/m}^2$ ^c PCS $\leq 3.0\text{MJ/kg}$ ^d | - |
| | EN ISO 9239-1 ^e | Critical flux ^f $\geq 8.0\text{kW/m}^2$ | Smoke production ^g |
| B _{fl} | EN ISO 9239-1 ^e and | Critical flux ^f $\geq 8.0\text{kW/m}^2$ | Smoke production ^g |
| | EN ISO 11925-2 ^h Exposure = 15s | Fs $\leq 150\text{mm}$ within 20 s | - |
| C _{fl} | EN ISO 9239-1 ^e and | Critical flux ^f $\geq 4.5\text{kW/m}^2$ | Smoke production ^g |
| | EN ISO 11925-2 ^h Exposure = 15s | Fs $\leq 150\text{mm}$ within 20 s | - |
| D _{fl} | EN ISO 9239-1 ^e and | Critical flux ^f $\geq 3.0\text{kW/m}^2$ | Smoke production ^g |
| | EN ISO 11925-2 ^h Exposure = 15s | Fs $\leq 150\text{mm}$ within 20 s | - |
| E _{fl} | EN ISO 11925-2 ^h Exposure = 15s | Fs $\leq 150\text{mm}$ within 20 s | - |
| F _{fl} | 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.
^f 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).
^g **s1** = Smoke $\leq 750\%$ minutes;
s2 = not s1.
^h 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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Photo Appendix:



SGS authenticate the photo on original report only

End of Report



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