

JIANGXI GILARDINO BUILDING MATERIALS TECHNOLOGY CO. LTD.
ZHONGXIN ROAD, YUJIANG INDUSTRY PARK, YUJIANG COUNTY, YINGTAN CITY, JIANGXI, CHINA

Sample Description : PVC SPORTS FLOORING

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : SDFS2303001475FF
 Sample Receiving Date : Mar 22, 2023
 Test Performing Date : Mar 22, 2023 to Apr 07, 2023
 Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests	Classification: Cfi-s1	/
For further details, please refer to the following page(s)			

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

Kitty Kang
Authorized Signatory

scan to see the report



SDHL2303004543HI



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TESTS AND RESULTS

Test Conducted:

This test is 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 building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Mounting and fixing (For EN ISO 9239-1:2010):

Fibre cement board meets the requirement of EN13501-1 of Class A2-s1,d0, with its density about 1800kg/m³, thickness about 8mm, is as the substrate.

The specimens were fixed mechanically to the substrate.

Test Results:

Test method	Parameter	Number of tests	Results
EN ISO 9239-1:2010	The mean value for the critical heat flux (CHF) from the same orientation	3	6.62 kW/m ²
	Smoking measurement Integrated smoke value		150.2 % × min
	Comments and Observation		Charring
EN ISO 11925-2:2020 Exposure = 15 s	$F_s \leq 150$ mm within 20 s	6	Yes

Remark:

- 1). Above value is the mean value for the critical flux (CHF and/or HF-30) from the three same orientation specimens.

Classification and direct field of application

This classification has been carried out in accordance with **EN 13501-1:2018**

Classification:

Fire behaviour	Smoke production
C _{fl}	s 1

Remark:

The classes with their corresponding fire performance are given in Table 2.

Reaction to fire classification is based on the 7-step scale of A1_{fl} to F_{fl}, where A1_{fl} is the highest class and F_{fl} is the lowest class.

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.

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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.

Table 2-Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
A1 _{fl}	EN ISO 1182 ^a and	$\Delta T \leq 30\text{ }^\circ\text{C}$; and $\Delta m \leq 50\%$; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2,0\text{ MJ/kg}^a$ 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 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50\text{ }^\circ\text{C}$ and $\Delta m \leq 50\%$ and $t_f \leq 20\text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0\text{ MJ/kg}^a$ and $PCS \leq 4,0\text{ MJ/m}^2^b$ and $PCS \leq 4,0\text{ MJ/m}^2^c$ and $PCS \leq 3,0\text{ MJ/kg}^d$	-
	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 = 15 s	$F_s \leq 150\text{ mm}$ 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 = 15 s	$F_s \leq 150\text{ mm}$ 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 = 15 s	$F_s \leq 150\text{ mm}$ within 20 s	-
E _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150\text{ mm}$ within 20 s	-
F _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s > 150\text{ mm}$ within 20 s	-



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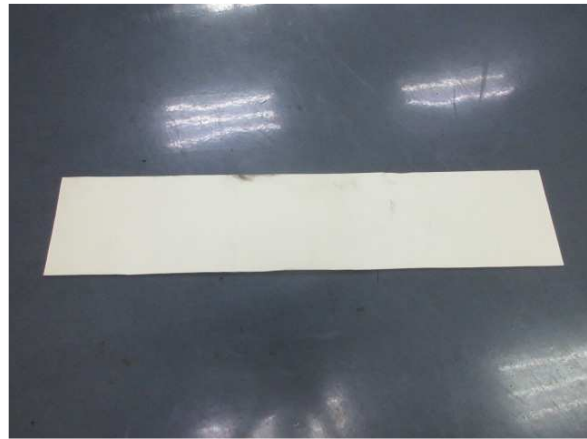
- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- ^c For any internal non-substantial component of non-homogeneous products.
- ^d For the product as a whole.
- ^e Test duration = 30 min.
- ^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 ≤ 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

SAMPLE INFORMATION AND PICTURES

Thickness of test specimen: 4.5mm
Density of test specimen: 2.72kg/m²



Sample face



Sample back

End of Report



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