



中国认可
国际互认
检测
TESTING
CNAS L4743

Test Report

No. AJFS2003001268FF

Date: MAR.25, 2023

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LINYI ZEQUAN WOOD INDUSTRY CO., LTD

ROOM 1109, BLOCK B, GLOBAL CENTER BUILDING, BEIJING STREET, LANSHAN DIST., LINYI, SHANDONG, CHINA

The following 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. results apply to the sample as received.

Sample Description: 18mm FIRE RETARDANT MDF

SGS Ref No.: AJHL2003000308OT

Style/Item No.: /

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 : MAR.11, 2023

Test Performing Date : MAR.11, 2023 TO MAR.20, 2023

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

Allen Zou
Lab Manager



SGS-CSTC Anji Branch Fire Technology Service

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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 11925-2:2010+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	Fireboard
Sample Size	EN ISO 9239-1: 1050mm x 230mm ISO 11925-2: 250mm x 90mm
Color	Pink
Thickness	18mm
Mass per unit area	12667.5 g/m ²
Exposed surface	Any surface

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. No joint in the specimens.

III. Test results

Test method	Parameter	Number of tests	Results
EN ISO 9239-1	Critical flux (kW/m ²)	4	9.4
	Smoke (%xminutes)		154.1
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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SGS-CSTC Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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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, Fireboard, in relation to its reaction to fire behaviour is classified:

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.

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
- No joint

This classification is valid for the following product parameters:

- Characteristics as described in section II b) 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 _{fl}	EN ISO 1182 ^a and	$\Delta T \leq 30^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_i = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$\text{PCS} \leq 2.0\text{MJ/kg}$ ^a and $\text{PCS} \leq 2.0\text{MJ/kg}$ ^b and $\text{PCS} \leq 1.4\text{MJ/m}^2$ ^c and $\text{PCS} \leq 2.0\text{MJ/kg}$ ^d	-
A2 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_i \leq 20\text{s}$	-
	EN ISO 1716 and	$\text{PCS} \leq 3.0\text{MJ/kg}$ ^a and $\text{PCS} \leq 4.0\text{MJ/m}^2$ ^b and $\text{PCS} \leq 4.0\text{MJ/m}^2$ ^c and $\text{PCS} \leq 3.0\text{MJ/kg}$ ^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	$F_s \leq 150\text{mm}$ 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 = 15s	$F_s \leq 150\text{mm}$ 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 = 15s	$F_s \leq 150\text{mm}$ within 20 s	-
E _{fl}	EN ISO 11925-2 ^h Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	-
F _{fl}	EN ISO 11925-2 ^h Exposure = 15s	$F_s > 150\text{mm}$ within 20 s	-

^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.

To be continued...



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Photo Appendix:



SGS authenticate the photo on original report only

End of Report