HUBEI BAIJIAXIANG NEW BUILDING MATERIALS TRADING CO., LTD.
ROOM 108, 1ST FLOOR,NO.2 FACTORY BUILDING, WUJIASHAN FARM ,DONGXIHU DISTRICT,WUHAN CITY,HUBEI PROVINCE,China

Sample Description	: Fireproof board
Client Reference Information	: Spec.:1220mm*2440mm*8mm
Manufacturer	: Hubei ZhiSheng Building Materials Co., Ltd.

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.

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Sample Receiving Date	: May 21, 2024
Test Performing Date	: May 21, 2024 to Jun 07, 2024
Test Performed	: Selected test(s) as requested by applicant
Test Result(s)	: For further details, please refer to the following page(s)

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 --

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

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Authorized Signatory

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SGS Reference No.: SDFS2405003624FF
The below tests were conducted by Shunde Branch, SGS-CSTC Co., Ltd.

I. 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 1182:2020 Reaction to fire tests for products — Non-combustibility test.
2. EN ISO 1716:2010 Reaction to fire tests for building products — Determination of the gross heat of combustion (calorific value).

II. Details of classified product

Sample Description	Board
Area density	9.07kg/m^2
Color	See photos
Thickness	8.0mm

III. Test results

Test methods	Parameter		Number of tests	Results
EN ISO 1182[a]	△T/℃		5	7.7
	△m/%			41.9
	t_f/s			0
EN ISO 1716	Homogeneous products[a]	PCS≤ 2.0 MJ/kg [a]	3	1.8

Note:

△T — temperature rise [K]

△m — mass loss [%]

tf — duration of sustained flaming [s]

PCS — Gross heat of combustion [MJ/kg or MJ/m^2]

IV. Classification and field of application

a) Reference of classification

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

b) Classification

The product, Fireproof board (as described by the sponsor), in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: A1

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

c) Field of application

This classification is valid for the following product parameters:

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

Limitations

This classification document does not represent type approval or certification of the product.

Warning:

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

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.

Note: This document cannot be reproduced except full, without prior written approval of the Company.

Annex A

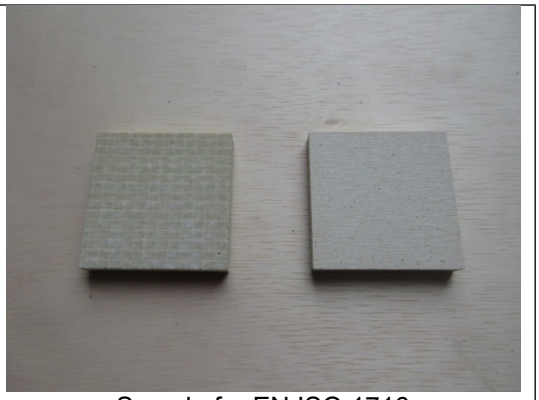
Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 [a] and	$\triangle T \leq 30℃$, and $\triangle m \leq 50\%$, and t_f=0(i.e. no sustained flaming)	-
	EN ISO 1716	*PCS*≤2.0MJ/kg [a] and *PCS*≤2.0MJ/kg [b c] and *PCS*≤1.4MJ/m^2 [d] and *PCS*≤2.0MJ/kg [e]	-

A2	EN ISO 1182 [a] or	and	$\Delta T \leq 50$℃, and $\Delta m \leq 50\%$, and $t_f \leq 20$ s	-
	EN ISO 1716		*PCS*≤3.0MJ/kg [a] and *PCS*≤4.0MJ/m² [b] and *PCS*≤4.0MJ/m² [d] and *PCS*≤3.0MJ/kg [e]	-
	EN 13823		*FIGRA*$_{0.2MJ}$≤120W/s and *LFS*＜edge of specimen and *THR*$_{600s}$≤7.5MJ	Smoke production [f] and Flaming droplets/particles [g]
B	EN 13823 and		*FIGRA*$_{0.2MJ}$≤120W/s and *LFS*＜edge of specimen and *THR*$_{600s}$≤7.5MJ	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure =30s		*Fs*≤150mm within 60s	
C	EN 13823 and		*FIGRA*$_{0.4MJ}$≤250W/s and *LFS*＜edge of specimen and *THR*$_{600s}$≤15MJ	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s		*Fs*≤150mm within 60 s	
D	EN 13823 and		*FIGRA*$_{0.4MJ}$≤750W/s	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s		*Fs*≤150mm within 60 s	
E	EN ISO 11925-2 [i] Exposure =15s		*Fs*≤150mm within 20 s	flaming droplets/particles [h]
F	EN ISO 11925-2 [i] Exposure = 15 s		*Fs*＞150mm 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] Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m² , provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4,0 MJ, and s1, and d0.
[d] For any internal non-substantial component of non-homogeneous products.
[e] For the product as a whole.
[f] s1 = SMOGRA ≤ 30m²/s² and TSP_{600s} ≤ 50m² ; s2 = SMOGRA ≤ 180m²/s² and TSP_{600s} ≤ 200m²; s3 = not s1 or s2
[g] d0 = No flaming droplets/ particles in EN 13823 within 600 s;
d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
d2 = not d0 or d1.
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
[h] Pass = no ignition of the paper (no classification);
Fail = ignition of the paper (d2 classification).
i Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

Photo Appendix:

	
Sample for EN ISO 1182	Sample for EN ISO 1716

End of Report

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