JIANGSU JINPENG FIREPROOF BOARD CO LTD

TEST REPORT

SCOPE OF WORK
MagMatrix MgO Fire Rated Structural Subfloor Sheathing Panel

REPORT NUMBER
250424005SHF-001

TEST DATE(S)
2025-04-24 - 2025-05-22

ORIGINAL ISSUE DATE
2025-05-23

PAGES
7

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(January 13, 2025)
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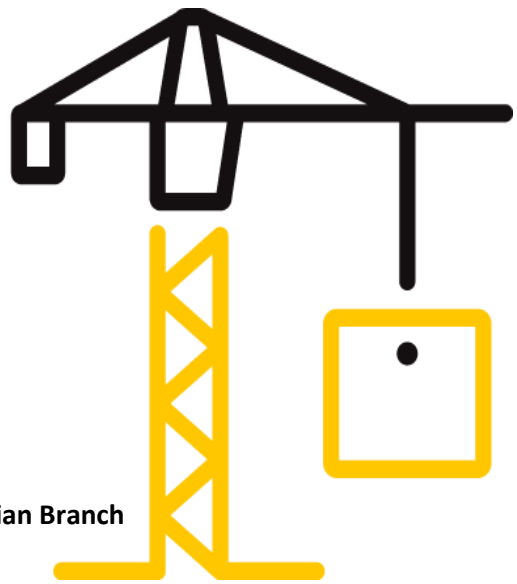

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Original Issue Date: 2025-05-23 Intertek Report No. 250424005SHF-001

Applicant: JIANGSU JINPENG FIREPROOF BOARD CO LTD

Address: No.9 Daiwang Road, Taixing City, Jiangsu Province, China

Attn: David Zhao

Manufacturer: JIANGSU JINPENG FIREPROOF BOARD CO LTD

Address: No.9 Daiwang Road, Taixing City, Jiangsu Province, China

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MagMatrix MgO Fire Rated Structural Subfloor Sheathing Panel	/	19mm
Sample ID	**Sample Amount**	**Sample Received Date**
S250424005SHF.001~008	24 pcs and 2 packages	2025-04-22
Sample Description		
see sample photo in Appendix A		

Test Methods And Standards

Test Standard	EN ISO 1182:2020 and EN ISO 1716:2010
Specification Standard	EN 13501-1:2018
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

2. The heat of combustion test section in this report only reflects the testing result based on the data and information followed the Δ mark provided by the testing applicant. The testing applicant agrees that Intertek has no duty, responsibility or obligation including without limitation examination, review, analysis, assessment, comment, suggestion, adjustment, calibration, modification, revision, guarantee or otherwise in regard to the legitimacy, compliance, applicability, adequacy, necessity, reasonableness, accuracy, appropriateness, reliability or any other feature or aspect of the data and information.

Report Authorized

Name: Sally Xie Name: Lu Cheng

Title: Reviewer Title: Project Engineer

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Test Items, Method and Results:

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

1.1 NON-COMBUSTIBILITY TEST

The test was conducted in accordance with EN ISO 1182. This test evaluates the non-combustibility performance of products in a vertical tube at 750±5℃.

1.2 HEAT OF COMBUSTION TEST

The test was conducted in accordance with EN ISO 1716. This test evaluates the gross heat of combustion (Q_{PCS}) of products at constant volume in a bomb calorimeter.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class $A1_{fl}$ with its corresponding fire performance are given in the table below.

Table - — Classes of reaction to fire performance for floorings

Class	Test Method(s)	Classification criteria	Additional classifications
$A1_{fl}$	EN ISO 1182 [a] and	ΔT ≤ 30℃; and Δm ≤ 50%; and t_f = 0 s (i.e. no sustained flaming)	--
	EN ISO 1716	PCS ≤2.0 MJ/kg [a] and PCS ≤ 2.0 MJ/kg [b] and PCS ≤ 1.4 MJ/m^2 [c] and PCS ≤ 2.0 MJ/kg [d]	--

Note:

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.

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Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter		Result
EN ISO 1182:2020	Sanded surface layer	ΔT (°C)	1.8
		Δm (%)	31.9
		t_f (s)	0
	Core layer	ΔT (°C)	2.2
		Δm (%)	29.7
		t_f (s)	0
	Backing Layer	ΔT (°C)	1.6
		Δm (%)	30.2
		t_f (s)	0
EN ISO 1716:2010	PCS	Sanded surface layer, MJ/kg	0.1025
		Fiberglass mesh layer, MJ/kg	0.5372
		Fiberglass mesh layer, MJ/kg (Layer No.3&4)	0.5302
		Core layer, MJ/kg	0.1408
		Fiberglass mesh layer, MJ/kg (Layer No.6&7)	0.5302
		Fiberglass mesh layer, MJ/kg	0.5372
		Backing Layer, MJ/kg	0
		The whole product, MJ/kg	0.1457

Note:

ΔThe information of each component of the product was declared by applicant, see below table.

Layer No. (from face to back)	Material of each Layer	Mass per unit area (kg/m^2)	Thickness (mm)
1	Sanded surface layer	3.5	2
2	Fiberglass mesh layer	0.06	0.2
3	Fiberglass mesh layer	0.25	0.5
4	Fiberglass mesh layer	0.25	0.5
5	Core layer	19.56	14.3
6	Fiberglass mesh layer	0.25	0.5
7	Fiberglass mesh layer	0.25	0.5
8	Fiberglass mesh layer	0.06	0.2
9	Backing Layer	1.26	0.7

Note:

1. Layer No.2 and layer No.8 were the same materials.
2. Layer No.3, layer No.4, layer No.6 and layer No.7 were the same materials.

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Test Items, Method and Results:

3 CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour		Smoke production			Flaming Droplets	
A1 fl	-	s	*Not applicable*	-	d	*Not applicable*

Reaction to fire classification: *A1 fl*

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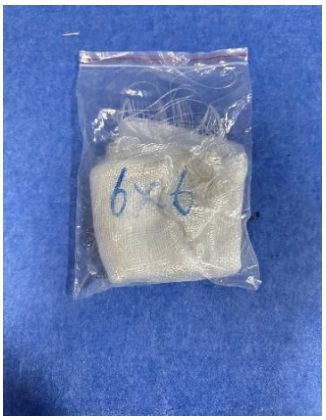
Appendix A: Sample Received Photo



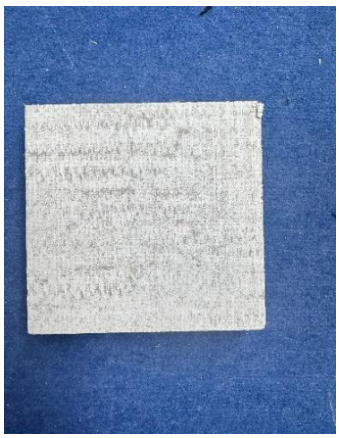
Fiberglass mesh layer (layer No.2&8)

Fiberglass mesh layer (layer No.3&4&6&7)

Sanded surface layer

Core layer

Backing Layer



The whole product

Revision:

NO.	Date	Changes
250424005SHF-001	2025-05-23	First issue