Jiangsu Jinpeng FireProof Board Co., Ltd.

TEST REPORT

SCOPE OF WORK
MagMatrix MgO Fire Rated Structural Panel

REPORT NUMBER
240913003SHF-001

TEST DATE(S)
2024-09-13- 2024-11-08

ORIGINAL ISSUE DATE
2025-03-25

PAGES
6

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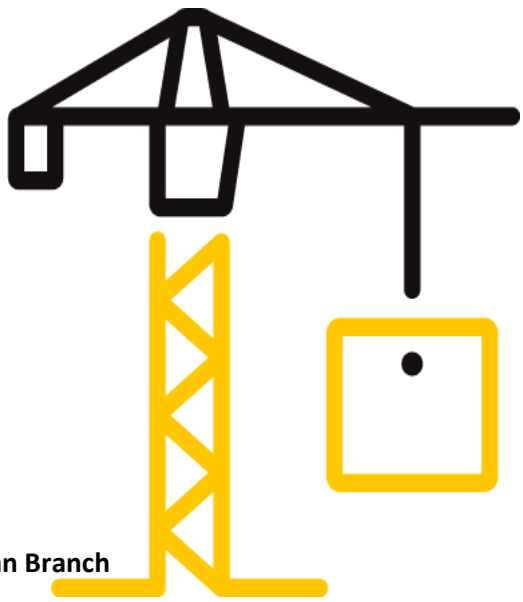

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Original Issue Date: 2025-03-25 Intertek Report No. 240913003SHF-001

Applicant: Jiangsu Jinpeng FireProof Board Co., Ltd.

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

Attn: David Zhao

Test Type: Performance test, samples were selected by Intertek B&C personnel

Product Information

Product Name	MagMatrix MgO Fire Rated Structural Panel	**Brand**	MagMatrix
Sample Description	Good Condition	**Sample Amount**	6 pcs
		Received Date	2024-09-29

Sample ID	**Model**	**Specification**
S240913003SHF.001	Perseverance	12mm thickness

The specimens were randomly selected by Intertek representative Luke Lv, at theJiangsu Jinpeng FireProof Board Co., Ltd. , located atNo.9 Daiwang Road, Taixing City, Jiangsu Province, China. The specimens were witnessed during production and tagged prior to shipment on December 12~13, 2024.
The subject test specimen is a traceable sample selected from the manufacturer's facility. Intertek selected the specimen and has verified the composition, manufacturing techniques and quality assurance procedures.

Test Methods And Standards

Test Standard	ASTM E136-24c Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C, Option A
Specification Standard	ASTM E136-24c
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:
1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

Name: Lu Cheng Name: Nicole Shi
Title: Reviewer Title: Project Engineer

Test Report

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Test Items, Method and Results:

Test method: ASTM E136-24c Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C, Option A

1.1 Sample and Assembly Description

Sample Description:

Approximately 38mm long × 38mm wide × 50mm thick MagMatrix MgO Fire Rated Structural Panel were provided by the applicant. One specimen was consisted of four 12.62mm thick panels, which were wrapped by wire.

1.2 Test Criteria

Report the material as passing the test if at least three of the four test specimens tested meet the individual test specimen criteria detailed in 1.2.1 or 1.2.2. The three test specimens do not need to meet the same individual test specimen criteria.

1.2.1 If the weight loss of the test specimen is 50% or less, the following criteria must be met:

a. The recorded temperature of the surface thermocouple does not rise more than 30 °C (54°F) above the stabilized furnace temperature established at T2 prior to the test.

b. The recorded temperature of the interior thermocouple does not rise more than 30 °C (54°F) above the stabilized furnace temperature established at T2 prior to the test.

c. There is no flaming from the test specimen after the first 30 s.

1.2.2 If the weight loss of the test specimen exceeds 50%, the following criteria must be met:

a. The recorded temperature of the surface thermocouple does not rise above the stabilized furnace temperature established at T2 prior to the test.

b. The recorded temperature of the interior thermocouple does not rise above the stabilized furnace temperature established at T2 prior to the test.

c. No flaming from the test specimen is observed at any time during the test.

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Test Items, Method and Results:

2 Results and Observations

Specimen #	Observations
1	Sample did not smoke or flame.
2	Sample did not smoke or flame.
3	Sample did not smoke or flame.
4	Sample did not smoke or flame.

Specimen Number	Initial Wt. (g)	Final Wt. (g)	Wt. Loss(%)	Stabilized Furnace Temperature (T2) (°C)	Max Surface (T4) (°C)	Max Surface Difference (°C)	Max interior Temp. (T3) (°C)	Max interior Difference (°C)
1	69.7	48.1	31.1	752.2	742.4	-9.8	731.6	-20.6
2	69.8	48.0	31.2	751.4	749.5	-1.9	736.3	-15.1
3	71.8	48.3	32.7	749.8	741.1	-8.7	731.5	-18.3
4	70.1	48.2	31.2	751.0	745.6	-5.4	734.0	-17.0
Average	70.3	48.2	31.5	751.1	744.7	-6.4	733.4	-17.8

Note:
1.Test was discontinued as per Clause 8.7.3 of ASTM E136-24c and the final temperature reading shall be recorded as the maximum temperature as per Clause 8.7.3 of ASTM E136-24c.

3 Conclusion

The test specimens met the requirement of ASTM E136-24c.

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Appendix A: Sample Received Photo

Revision:

NO.	Date	Changes
240913003SHF-001	2025-03-25	First issue