JINCHENG MAGNESIUM MATRIX (JIANGSU) INTERNATIONAL TRADE CO., LTD

TEST REPORT

SCOPE OF WORK
MagMatrix MgO Fire Rated Structural Panel

REPORT NUMBER
210310002SHF-002

TEST DATE(S)
2021-09-10 - 2021-12-03

ISSUE DATE
2021-12-06

PAGES
6

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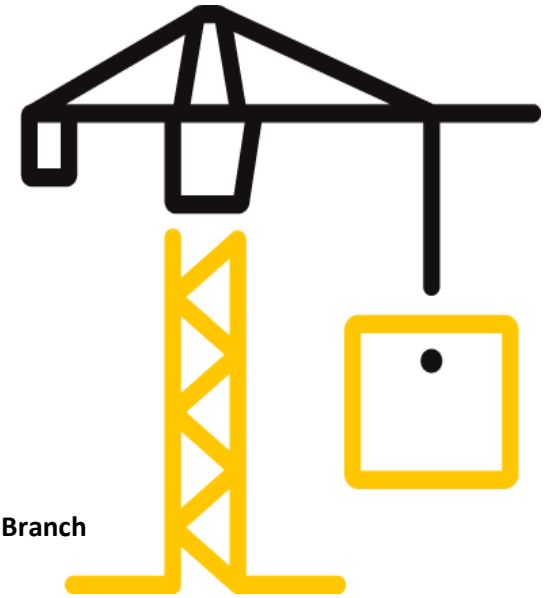

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Issue Date: 2021-12-06 Intertek Report No. 210310002SHF-002

Applicant: JINCHENG MAGNESIUM MATRIX (JIANGSU) INTERNATIONAL TRADE CO., LTD

Address: NO.9 DAIWANG ROAD OF HIGH TECH INDUSTRIAL ZONE OF CHENGDONG, TAIXING CITY, JIANGSU PROVINCE.

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**	70 pcs
		Received Date	2021-04-15

Sample ID	**Model**	**Specification**
S210310002SHF.002	Perseverance	12mm

The specimens were randomly selected by Intertek B&C Luke Lv at Jiangsu Jinpeng FireProof Panels Co., Ltd, located at No. 9 Daiwang Road of High Tech Industrial Zone Dongcheng, Taixing City, Jiangsu Province, China. The specimens were witnessed during production and tagged prior to shipment on March 15 ~ March 17, 2021.
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 D2718-18 Standard Test Methods for Structural Panels in Planar Shear (Rolling Shear) PS 2-18 Performance Standard for Wood Structural Panels
Specification Standard	/
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: Jodie Zhou
Title: Reviewer

Name: Amber Chen
Title: Project Engineer

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Test Report

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Test Items, Method and Results:

Test Item: Planar Shear Induced by Five-Point Bending

Test Method: ASTM D2718-18 Method B

Test Span: 7.56 inch

Test speed: 0.05 inch/min

Test Result:

Specimen	Width, in	Average thickness, in	Ultimate load, lbf	Failure location	Failure mode	Max. Shear Stress, psi
1	4.736	0.473	511	At middle support bar	Shear	117.6
2	4.735	0.471	471	At middle support bar	Shear	108.9
3	4.737	0.476	533	At middle support bar	Shear	121.9
4	4.735	0.475	492	At middle support bar	Shear	112.8
5	4.734	0.472	573	At middle support bar	Shear	132.2
6	4.737	0.476	509	At middle support bar	Shear	116.4
7	4.735	0.474	431	At middle support bar	Shear	99.0
8	4.74	0.472	523	At middle support bar	Shear	120.5
9	4.743	0.476	496	At middle support bar	Shear	113.3
10	4.742	0.475	499	At middle support bar	Shear	114.2
Average	4.737	0.474	504	/	/	115.7

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Test Items, Method and Results:

Test Item: Linear and thickness expansion test measured by exposure to relative humidity

Test Method: PS 2-18 Section 7.10 & ASTM D1037-12(2020) Section 24

Test Condition: Condition 1: 20°C, 50%RH to constant weight
Condition 2: 20°C, 90%RH to constant weight

Test Result:

Specimen	Length at 20°C, 50%RH constant weight, mm	Length at 20°C, 90%RH constant weight, mm	Linear Expansion, %	Average, %
1	937.10	938.06	0.10	0.10
2	937.20	938.20	0.11	

Specimen	Thickness at 20°C, 50%RH constant weight, mm		Thickness at 20°C, 90%RH constant weight, mm		Thickness Expansion, %		Average, %
	Point 1	Point 2	Point 1	Point 2	Point 1	Point 2	
1	11.84	12.07	11.86	12.08	0.17	0.08	0.17
2	12.00	12.02	12.02	12.05	0.17	0.25	

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Appendix A: Sample Received Photo

Revision:

NO.	Date	Changes	Author	Reviewer
210310002SHF-002	2021-12-06	First issue	Amber Chen	Jodie Zhou