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

TEST REPORT

SCOPE OF WORK
MagMatrix MgO Fire Rated Structural Panel

REPORT NUMBER
210310002SHF-007

TEST DATE(S)
2021-10-11 - 2021-11-11

ISSUE DATE
2022-04-12

PAGES
9

DOCUMENT CONTROL NUMBER
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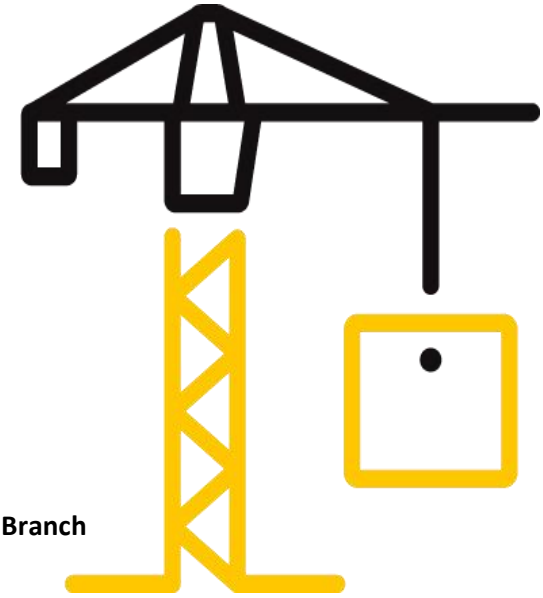

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Issue Date: 2022-04-12 Intertek Report No. 210310002SHF-007

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

Address: No. 9 Daiwang Road of High Tech Industrial Zone Dongcheng, Taixing City, Jiangsu Province, China.

Attn: David Zhao

Manufacturer: JIangsu Jinpeng FireProof Panels Co., Ltd

Address: No. 9 Daiwang Road of High Tech Industrial Zone Dongcheng, Taixing City, Jiangsu Province, China.

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**	1 package
			Received Date	2021-08-16
Sample ID		**Model**	**Specification**	
S210310002SHF.016~019, 021~022		Perseverance	12mm	

The specimens were randomly selected by Intertek B&C Stephen Ding 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 July 21, 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 E72-15, Standard Test Methods of Conducting Strength Tests of Panels for Building Construction Section 14, Section 15
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

Test Report

Issue Date: 2022-04-12 Intertek Report No. 210310002SHF-007

Test Items, Method and Results:

Test Item: Racking Load

Test Method: ASTM E72-15 Section 14

Test Condition: 27° C, 60%RH

Sample Size: 2440mm*1220mm*12mm

Sample Installation: The board was attached to the framing with 2.5 in. long 0.11 in. diameter nails spaced 8 in. on center (OC) at the perimeter and field. Fasteners at the vertical joints was located precisely 3/8 in. from the board edge. Fasteners around the perimeter of the assembly are placed nominally 3/4 in. from the outside board edges.

Test Results:

	Sample 1	Sample 2	Sample 3	Avg.
Maximum load (lbf)	3034	3034	3011	3026

Note: When the maximum loads were reached, failure appeared at the vertical joint.

Load (lbf)	Deflection (inch)			
	Sample 1	Sample 2	Sample 3	Average
449	0.04	0.04	0.04	0.04
674	0.07	0.08	0.14	0.10
1124	0.16	0.16	0.22	0.18
1798	0.36	0.38	0.41	0.38
2247	0.62	0.59	0.61	0.60
2697	0.82	0.76	0.77	0.78
3034	1.18	1.09	1.08	1.12

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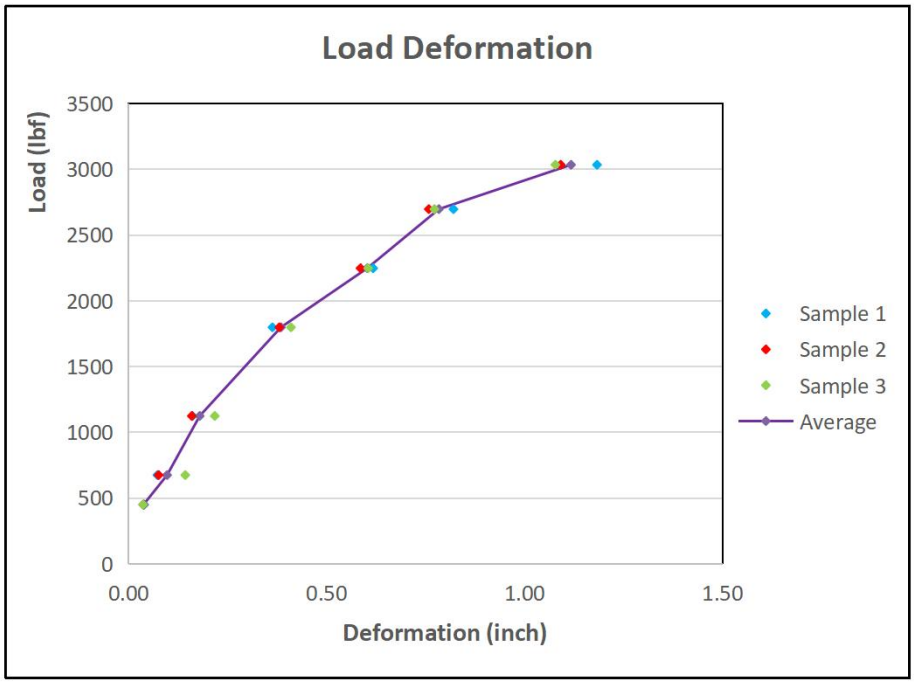
The Graph Showing Results for Racking Load:



Test Report

Issue Date: 2022-04-12 Intertek Report No. 210310002SHF-007

Test Items, Method and Results:

Test Item: Racking Load (Wet)

Test Method: ASTM E72-15 Section 15

Test Condition: Two cycles of wet for 6h by 75 ± 5°F (24 ± 3°C) water and dry for 18h in thelaboratory air, then wet for 6h by 75 ± 5°F (24 ± 3°C) water before testing

Sample Size: 2440mm*1220mm*12mm

Sample Installation: The board was attached to the framing with 2.5 in. long 0.11 in. diameter nails spaced 8 in. on center (OC) at the perimeter and field. Fasteners at the vertical joints was located precisely 3/8 in. from the board edge. Fasteners around the perimeter of the assembly are placed nominally 3/4 in. from the outside board edges.

Test Results:

	Sample 1	Sample 2	Sample 3	Avg.
Maximum load (lbf)	3056	3213	3011	3093

Note: When the maximum loads were reached, failure appeared at the vertical joint.

Load (lbf)	Deflection (inch)			
	Sample 1	Sample 2	Sample 3	Average
449	0.07	0.04	0.04	0.05
674	0.17	0.08	0.06	0.10
1124	0.29	0.17	0.16	0.21
1798	0.56	0.31	0.43	0.43
2247	0.67	0.60	0.67	0.65
2697	0.87	0.80	0.89	0.86
3146	1.17	1.14	1.20	1.17

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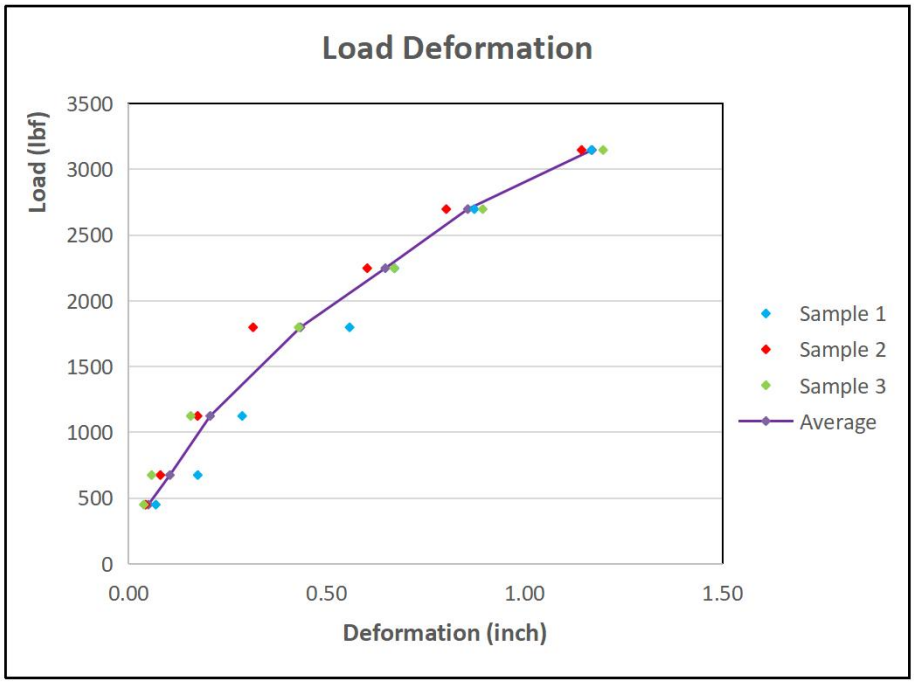
The Graph Showing Results for Racking Load (Wet):



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Test Photo:

Fig.1 Test set

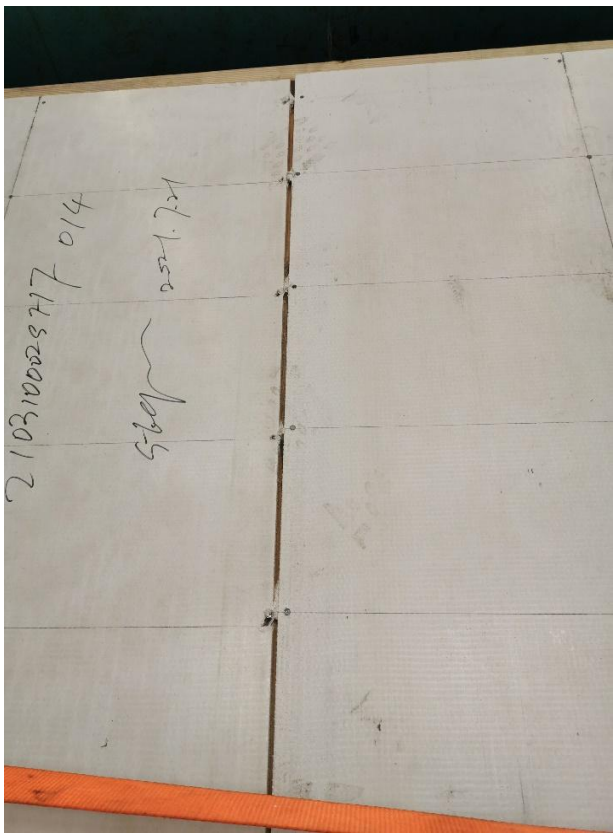

Fig.2 Break photo

Test Report

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Appendix A: Sample Received Photo

Revision:

NO.	Date	Changes
210310002SHF-007	2022-04-12	First issue