

LINYI ZHENGHE MACHINERY TECHNOLOGY CO., LTD

TEST REPORT

SCOPE OF WORK

Magnesium oxide board

REPORT NUMBER

260212002SHF-002

TEST DATE(S)

2026-02-12 - 2026-03-11

ORIGINAL ISSUE DATE

2026-03-11

PAGES

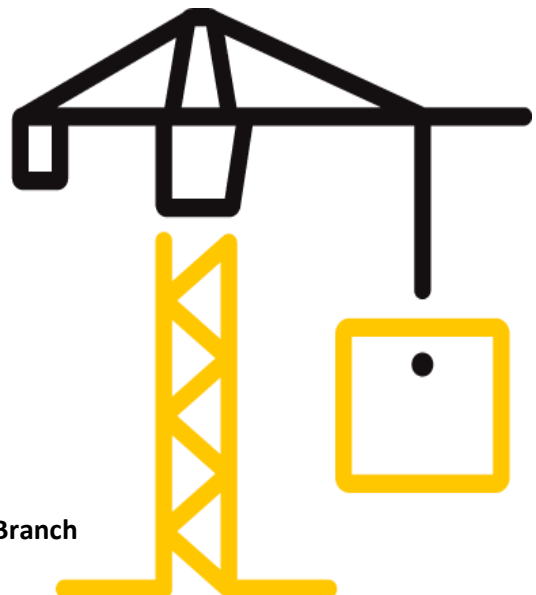
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DOCUMENT CONTROL NUMBER

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: 2026-03-11 Intertek Report No. 260212002SHF-002
 Applicant: LINYI ZHENGHE MACHINERY TECHNOLOGY CO., LTD
 Address: junction of Yi he er road and Mengshan er road, Yi he new district, Linyi City, Shandong province
 Attn: Rosa
 Manufacturer: LINYI ZHENGHE MACHINERY TECHNOLOGY CO., LTD
 Address: Beiguan Industrial Park, Jiaobei Office, Jiaozhou City, Qingdao City, Shandong Province
 Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
Magnesium oxide board	Magnesium oxide board	12mm x 1220 x 2440
Sample ID	Sample Amount	Sample Received Date
S260212002SHF.001~006	1 package	2026-02-10
Sample Description		Brand
2440mm×1220mm×12mm		Sulfrock

Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 Clause 5.3, 5.4.2, 5.4.3, 5.4.4, 5.4.5, 5.5.2
Specification Standard	EN 12467:2012+A2:2018
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.

Report Authorized



Daniel Zhang Erin Huang
 Name: Daniel Zhang Name: Erin Huang
 Title: Reviewer Title: Project Engineer

Test Report

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Intertek Report No. 260212002SHF-002

Test Items, Method and Results:

EN 12467:2012+A2:2018				
Fibre-cement flat sheets - Product specification and test methods				
Clause	Requirement - Test	Result - Remark	Verdict	
5.3	Dimensions and tolerances			
5.3.2	Nominal Length and Width The manufacture shall specify the nominal length and width of the sheets.	Nominal Length: 2440mm Nominal Width: 1220mm	N/A	
5.3.3	Thickness The manufacture shall specify the nominal thickness of the sheets.	Nominal Thickness: 12mm	N/A	
5.3.4	Tolerance on nominal dimensions			
5.3.4.1	Tolerance on length and width Tolerance on length and width shall be in accordance with Table 1, for the appropriate level.		Measured length: 2440mm Measured width: 1220mm Tolerance on length: 0mm Tolerance on width: 0.0% Complied with Level I	
	Nominal Dimension a	Level I		Level II
	$a \leq 600\text{mm}$	$\pm 3\text{mm}$		$\pm 4\text{mm}$
	$600\text{mm} < a \leq 1000\text{mm}$	$\pm 3\text{mm}$		$\pm 5\text{mm}$
	$1000\text{mm} < a \leq 1600\text{mm}$	$\pm 0.3\%a$		$\pm 0.5\%a$
	$1600\text{mm} < a$	$\pm 5\text{mm}$		$\pm 8\text{mm}$
a is the nominal width or length			Pass	
5.3.4.2	Tolerance on thickness For non-textured sheets, tolerances shall be in accordance with Table 2.		Measured thickness: 11.88mm Tolerance on thickness: -1.0% Max. deviation within one sheet: 1.1%	
	$e \leq 6\text{ mm}$	$\pm 0.6\text{ mm}$		
	$6\text{ mm} < e \leq 20\text{ mm}$	$\pm 10\% e$		
	$e > 20\text{ mm}$	$\pm 2\text{ mm}$		
For sheets without texture, the maximum difference between extreme values of the thickness measurements within one sheet shall not exceed 10% of the maximum measured value.			Pass	
5.3.5	Tolerance on shape			
5.3.5.1	Straightness of edges The tolerance on the straightness of edges are defined as a percentage of the length of the edge of the relevant dimensions (length or width), and shall be in accordance with table 4 for the appropriate level.		Measured: max. 0.03% Complied with Level I	
	Level I	Level II		
	0.1%	0.3%		

EN 12467
有限公司
测试专用
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Intertek Report No. 260212002SHF-002

EN 12467:2012+A2:2018				
Fibre-cement flat sheets - Product specification and test methods				
Clause	Requirement - Test	Result - Remark	Verdict	
5.3.5.2	Squareness of edges The tolerance on squareness of sheets shall be in accordance with table 5, for the appropriate level.	Measured: max. 0.10mm/m Complied with Level I	Pass	
	Level I			Level II
	2mm/m			4mm/m
5.4	Physical requirement and characteristics			
5.4.2	Apparent density The manufacture shall specify in his literature the minimum apparent density for each category and each class of sheet. When tested in accordance with the method specified in 7.3.1 the density shall be not less than this value.	Measured: 0.840 g/cm ³	N/A	
5.4.3	Moisture movement The manufacturer's literature shall state the percentage value of linear sheet moisture movement measured when the sheet is exposed to a relative humidity change from 30 % to 90 %. The stated value shall be determined in accordance with 7.3.7 using the test method given in Annex C.	Length direction: 0.21% Width direction: 0.21%	N/A	
5.4.4	Mechanical characteristics - Bending strength When tested as specified in 7.3.2, the minimum modulus of rupture of the sheets, expressed in megapascals, shall be as specified in Table 6. The MOR shall be the average of the values obtained from testing the sample in both directions.	Wet condition: Average 11.4 MPa Min. 9.8 MPa Class 2 (Category B requirement)	Pass	
5.4.5	Water impermeability for Categories A, B and D When tested in accordance with 7.3.3, traces of moisture may appear on the under face of the sheet, but in no instance shall there be any formation of drops of water.	For Category B No traces of moisture was appeared on the under face of the sheet. No any formation of drops of water.	Pass	
5.5	Durability requirements			
5.5.2	Freeze-thaw for categories A, B and D When tested in accordance with 7.4.1, after 100 freeze-thaw cycles for Category A and 25 cycles for Category B and D, the ratio R_L as defined in 7.4.1.4 shall be not less than 0.75.	For Category B $R_L=1.15$	Pass	

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Appendix A: Sample Received Photo



Front view



Back view

Revision:

NO.	Date	Changes
260212002SHF-002	2026-03-11	First issue