LINYI ZHENGHE MACHINERY TECHNOLOGY CO., LTD

TEST REPORT

SCOPE OF WORK
Magnesium oxide board

REPORT NUMBER
251111012SHF-001

TEST DATE(S)
2025-11-11 - 2025-11-28

ORIGINAL ISSUE DATE
2025-11-28

PAGES
7

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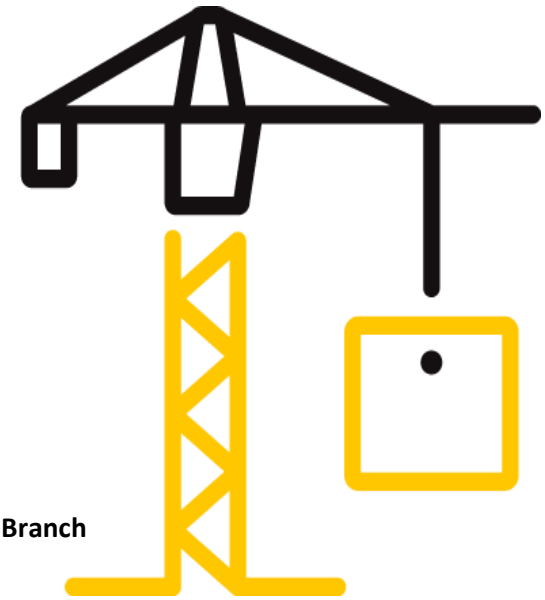

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Original Issue Date: 2025-11-28 Intertek Report No. 251111012SHF-001

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	Pure sulfate Mgo flooring board	19mm x 1220 x 2440
Sample ID	**Sample Amount**	**Sample Received Date**
S251111012SHF.001~003	22 pcs	2025-11-11
Sample Description		
250mm×250mm×19mm		

Test Methods And Standards

Test Standard	AS/NZS 2908.2:2000 Clause 8.1.2.1 AS 1530.1:2024
Specification Standard	AS 1530.1:2024
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

Name: Sally Xie Name: Erin Huang

Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2025-11-28 Intertek Report No. 251111012SHF-001

Test Items, Method and Results:

Test Item: Bending strength in equilibrium condition

Test Method: AS/NZS 2908.2:2000 Clause 8.1.2.1

Specimen Size: Square, 250mm × 250mm

Conditioning: Place the test specimens for 7 days in a controlled atmosphere of 23 °C ± 5 °C and (50 ± 10) % relative humidity

Test Condition:

Test span:	215 mm
Radius of the supports:	15 mm
Test rate:	15 mm/min
Test surface:	Rough side up

Results:

Bending Strength: 26.5 MPa

Test Report

Original Issue Date: 2025-11-28 Intertek Report No. 251111012SHF-001

Test Items, Method and Results:

Test Item: Bending strength in wet condition
Test Method: AS/NZS 2908.2:2000 Clause 8.1.2.1
Specimen Size: Square, 250mm × 250mm
Conditioning: Immerse the test specimens in water at (20±2) °C for 24 h

Test Condition:

Test span:	215 mm
Radius of the supports:	15 mm
Test rate:	15 mm/min
Test surface:	Rough side up

Results:

Bending Strength: 21.6 MPa

Test Report

Original Issue Date: 2025-11-28 Intertek Report No. 251111012SHF-001

Test Items, Method and Results:

Test method: AS 1530.1:2024 Methods for fire tests on building materials, components and structures Part 1: Combustibility test for materials

1.1 COMBUSTIBILITY TEST FOR MATERIALS

This test evaluates the combustibility performance of products in a vertical tube at 750±5°C.

1.2 CRITERIA OF COMBUSTIBILITY

A material shall be deemed to be combustible under any of the following circumstances:

(a) The mean duration of sustained flaming, as determined in accordance with Clause 3.2 of AS 1530.1, is other than zero.

(b) The mean furnace thermocouple temperature rise, as determined in accordance with Clause 3.1 of AS 1530.1, exceeds 50°C.

(c) The mean specimen surface thermocouple temperature rise, as determined in accordance with Clause 3.1 of AS 1530.1, exceeds 50°C.

2 RESULTS AND OBSERATIONS

Construction of the test specimen: The specimens were cylinder with a diameter of 45mm and a height of 50mm approximately, constitued by two layers of 19mm thick board and one layer of 12mm thick board.

The test results were shown in Table below.

Parameter	Result
Mean furnace thermocouple temperature rise ΔT_f (°C)	12.3
Mean specimen centre thermocouple temperature rise ΔT_c (°C)	133.8
Mean specimen surface thermocouple temperature rise ΔT_s (°C)	6.5
Mean duration of sustained flaming (s)	0
Mean mass loss (%)	32.8

Combustibility: NOT DEEMED COMBUSTIBLE.

Note:

The test results relate only to the behavior of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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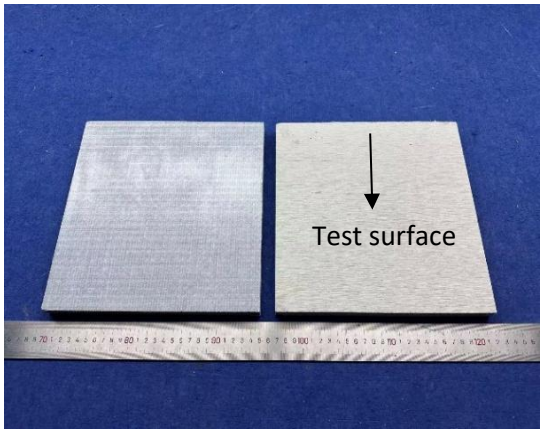
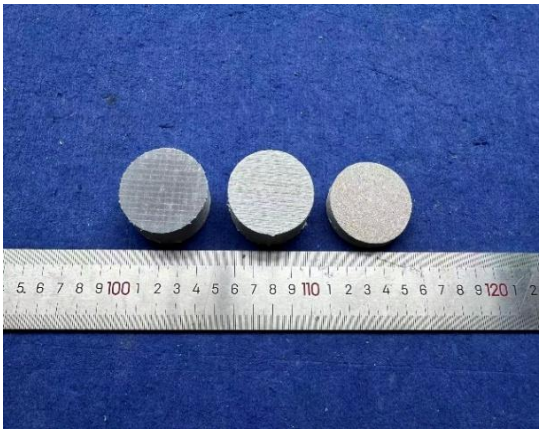
Appendix A: Sample Received Photo



Bending strength - Front view & Back view



Combustibility test - Front view & Back view

Revision:

NO.	Date	Changes
251111012SHF-001	2025-11-28	First issue