

TEST REPORT

No. : SZIN2311002595PL03_EN

Date : 2023-12-12

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SZIN2311002595PL03
Verification:
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CUSTOMER NAME: BEIJING NEW BUILDING MATERIALS PUBLIC LIMITED COMPANY
ADDRESS: TOWER A,BNBM CENTER,FUTURE SCIENCE PARK,NO.9,QIBEI ROAD,CHANGPING DIST,BEIJING,PEOPLE'S REPUBLIC OF CHINA

Sample Name : GNG Moisture Resistant Gypsum Board

Product Specification : 2440×1220×12

Manufacturer : Beijing New Building Materials Public Limited Company

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : GZIN2311001156CM03_EN

Date of Receipt : 2023-11-28

Testing Period : 2023-11-28 ~ 2023-12-12

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. ShenZhen Branch.

Jessie Ho
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center Materials Laboratory

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Length, width and thickness	BS EN 520:2004+A1:2009 Clause 5.2, 5.3 and 5.4	See result	Pass
2	Flexural strength	BS EN 520:2004+A1:2009 Clause 5.7	See result	Pass
3	Surface water absorption	BS EN 520:2004+A1:2009 Clause 5.9.1	Front: 68g/m ² Back: 104g/m ²	Pass
4	Total water absorption	BS EN 520: 2004+A1: 2009 Clause 5.9.2	6.4%	Pass
5	Density	BS EN 520: 2004+A1: 2009 Clause 5.11	0.6×10 ³ kg/cm ³	N/A

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
N/A : Not Apply to the judgment.

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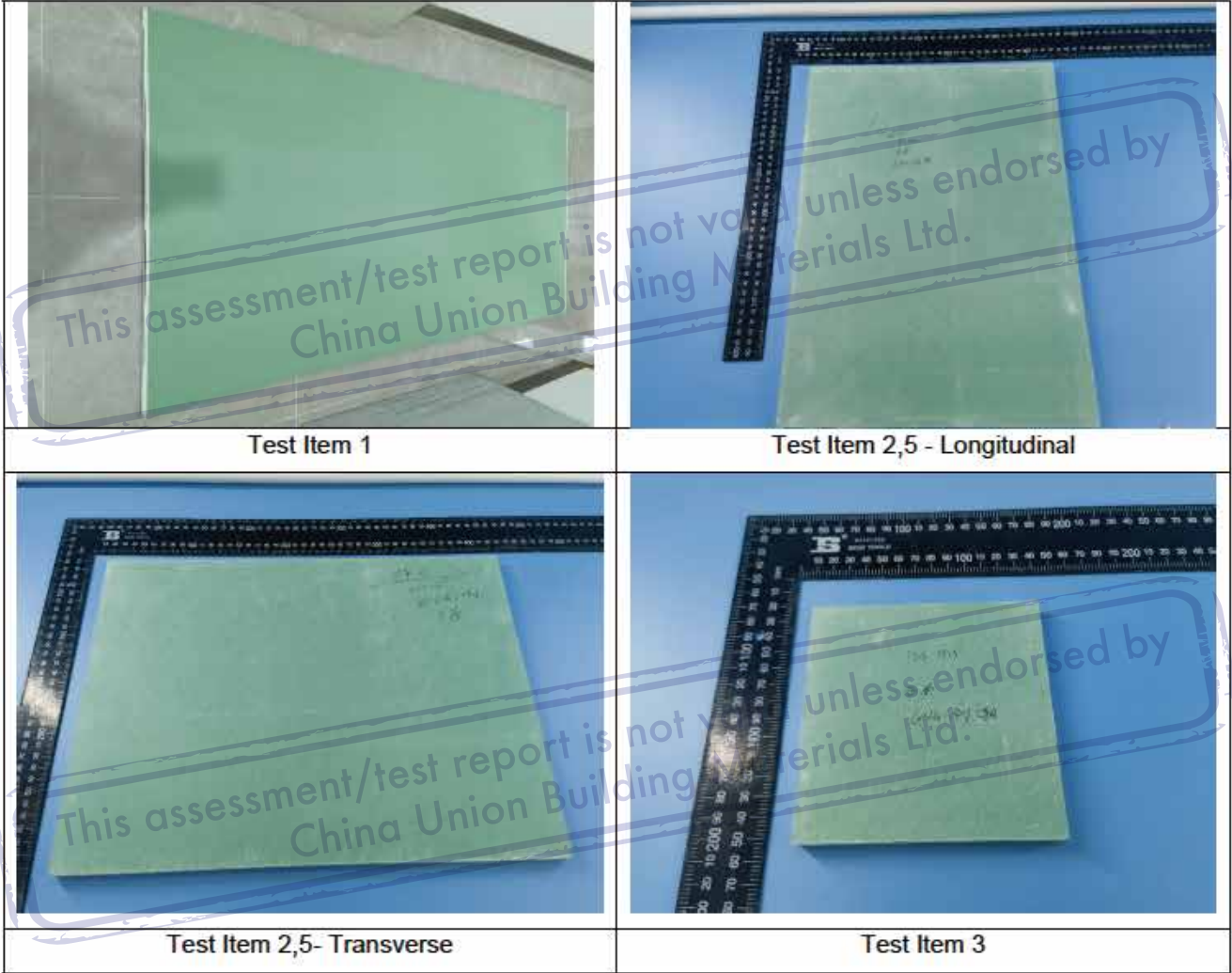
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Original Sample Photo:



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Test Item 4

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Test Item 1: Length, width and thickness

Test Method: EN 520:2004+A1:2009 Clause 5.2, 5.3 and 5.4

Test Condition:

Nominal Dimension (Declare by client): 2440mm×1220mm×12mm

Test Result:

Test Item	Test Result						Average	Tolerances
	Individual value							
Length (mm)	2440		2440		2440		2440	0
Width (mm)	1220		1220		1220		1220	0
Thickness (mm)	12.04	12.10	12.23	12.26	12.24	12.08	12.16	0.04~0.26

Requirement in BS EN 520:2004+A1:2009 Section 4.9.2: Width tolerance: -4 mm~0 mm,

Length tolerance: -5 mm~0 mm, Thickness tolerance: -0.5 mm~0.5 mm

Conclusion: Pass

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Test Item 2: Flexural Strength

Test Method: BS EN 520:2004+A1:2009 Clause 5.7

Test Condition:

Specimen: 400mm×300mm×12.20mm, 6pcs (3 pieces in each direction)

Test rate: 250N/min

Support span: 350mm

Condition: Dry to constant mass at 40°C

Test Result:

Test Item		Test result			
		Individual			Average
Flexural Strength (N)	Longitudinal	601.0	597.4	577.2	592
	Transverse	320.8	327.1	318.7	322

Requirement in BS EN 520:2004+A1:2009 table 2:

Flexural Strength in Longitudinal direction Average value≥516N, individual value≥464N

Flexural Strength in Transverse direction Average value≥202N, individual value≥181N

Conclusion: Pass

Test Item 3: Surface water absorption

Test Method: BS EN 520:2004+A1:2009 Clause 5.9.1

Test Condition:

Specimen: 125mm×125mm×12.20mm, 6pcs

Test Result:

Test Item		Test result			
		Individual			Average
Surface water absorption (g/m ²)	Front	66	70	67	68
	Back	102	106	105	104

Client's requirement: Surface water absorption (g/m²) ≤180g/ m²

Conclusion: Pass



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Test Item 4: Total water absorption

Test Method: BS EN 520:2004+A1:2009 Clause 5.9.2

Test Condition:

Specimen: 300mm×300mm×12.20mm, 3pcs

Test Result:

Test Item	Test result		
	Individual	Individual	Average
Total water absorption (%)	6.46	6.43	6.42
			6.4

Client's requirement: Total water absorption(%)≤10%

Conclusion: Pass

Test Item 5: Density

Test Method: BS EN 520:2004+A1:2009 Clause 5.11

Test Condition:

Specimen: 400mm×300mm×12.20mm, 6pcs (3 pieces in each direction)

Condition: Dry to constant mass at 40℃

Test Result:

Test Item		Test result		
		Individual	Individual	Average
Density, 1×10 ³ kg/cm ³	Longitudinal	0.65	0.65	0.64
	Transverse	0.65	0.65	0.64
				0.6

Appendix information:

- The above test methods were carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.
- Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

*****End of report*****



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