

TEST REPORT

SCOPE OF WORK

FIBER CEMENT BOARD

REPORT NUMBER

230531092GZU-004

TEST DATE(S)

From 7/5/2023 to 9/25/2023

ISSUE DATE

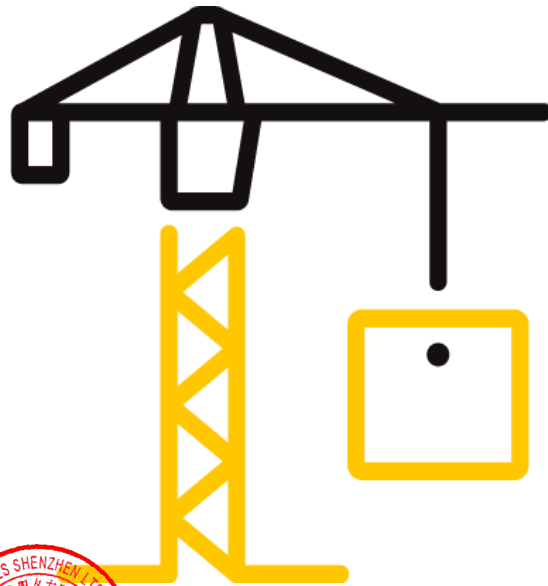
9/27/2023

[REVISED DATE]

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



DOCUMENT CONTROL NUMBER

TTRF_Performance_02a

Effective date:2020-12-30

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- 5.All the tests results give the statement of conformity refer to the decision rule of "Procedure 2 " Accuracy Method" as stated in the IEC Guide 115:2007.



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Client Information:

Applicant Name	
Address	
Attn	

Product Information:

Product Name	FIBER CEMENT BOARD	Sample Description	Good Condition
Model and/or type reference	6mm, 8mm, 9mm, 12mm, 15mm, 16mm and 18mm	Received Date	05/31/2023; 06/28/2023
Sample ID.	S230531092GZU.001	Sample Amount	1 package
Specification	1220 mm x 2440 mm	Brand	/
Manufacturer			
Address			
Test Type	Performance test, samples provided by the applicant		

Test Methods And Standards:

Test Standard	AS/NZS 2908.2:2000
Specification Standard	AS/NZS 2908.2:2000
Test Conclusion	The samples were tested according to the above standard, and the results are shown in the following page(s).

Note:1.*The test item is subcontracted to the body accredited by CNAS.

Laboratory information:

Testing Laboratory	Intertek testing services Shenzhen Ltd. Guangzhou Branch
Test location	Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China

Report Authorized :

Authorized By:



Jeff Deng
Reviewer

Checked By:



Kelming Wang
Project Engineer

Noted: If you have any questions for the report, please contact: lillian.lf.he@intertek.com



Total Quality. Assured.

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General product information:

Client declaration: The applicant declared that their product Fiber cement sheet has a thickness range of 6mm to 18mm, all the products has the same composition, only difference in thickness. They are Type A products according to AS/NZS 2908.2:2000 and are intended for external wall and ceiling use. All tests were carried out based on thickness of 6mm and 18mm.



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Test Items, Method and Results:

AS/NZS 2908.2:2000			
Clause	Requirement - Test	Result - Remark	Verdict
5.1	Dimensional and geometrical characteristics		
5.1.1	Nominal length and width The manufacture shall specify the nominal length and width of the sheets.	2440*1220mm	—
5.1.2	Thickness The manufacture shall specify the nominal thickness of the sheets.	6mm, 18mm	—
5.1.3	Tolerance on dimensions Tolerances on nominal dimensional are as follow: a)@n length and width (indicated by d): d<=1000mm: ±5mm; 1000mm<d<=1600mm: ±0,5%; d>1600mm: ±8mm; These tolerances do not apply to oversize sheets. b)@n thickness, e: e<=6mm: ±0,6mm; e>6mm: ±10%. For sheet without texture on the exposed face the maximum difference between extreme values of the thickness measurements within one sheet shall not exceed 15% of the maximum measured value.	Model: 6mm: Measured average length: 2440 mm Maximum deviation: 0mm Measured average width: 1220mm Maximum deviation: -0,1% Measured average thickness: 6,4mm Max. deviation: +0,6mm Model: 18mm: Measured average length: 2440 mm Maximum deviation: 0mm Measured average width: 1220mm Maximum deviation: -0,1% Measured average thickness: 19,3mm Max. deviation: 8,3%	P
5.1.4	Tolerance on shape		
5.1.4.1	Straightness of edges The tolerance on the straightness of edges is 3mm/m for the relevant dimension (length or width).	Maximum edge straightness: Model: 6 mm: 0.62mm/m Model: 18 mm: 0.56mm/m	P

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5.1.4.2	<p>Squareness of edges The tolerance on squareness of sheets is 4mm/m.</p>	<p>Model 6mm: Squareness of edge: 0,30 mm/m ~0,48 mm/m</p> <p>Model 18mm: Squareness of edge: 0,28 mm/m ~0,52 mm/m</p>	P
5.2 Mechanical and physical characteristics			
5.2.2	<p>Apparent density The manufacture shall specify in his literature the minimum apparent density for each category of sheet. When tested in accordance with the method specified in 8.1.2.2 the density shall be not less than this value.</p>	<p>No claims Model: 6mm: Apparent density: 1,590g/cm³ Measured: 1,578g/cm³ to 1,597g/cm³</p> <p>Model: 18mm: Apparent density: 1,590g/cm³ Measured: 1,585g/cm³ to 1,598g/cm³</p>	—
6 Type characteristics			
6.1	<p>Bending strength When tested in specified in 8.2.1, In equilibrium and wet condition, the average modulus of rupture of each individual piece of the finished products shall not be less than the values for the appropriate category specified in table 1. In addition the mean modulus of rupture under wet conditions shall be not less than 50% of the mean rupture under equilibrium conditions.</p>	<p>Model 6mm: Equilibrium condition: MOR average: 21,8MPa, minimum: 20,9MPa Category 5 Wet condition: MOR average: 15,8MPa, minimum: 14,8MPa Category 4 Ratio(wet condition/ equilibrium conditions) : 72%</p> <p>Model: 18mm: Equilibrium condition: MOR average: 17,4MPa, minimum: 16,9MPa Category 4 Wet condition: MOR average: 13,7MPa, minimum: 12,6MPa Category 3 Ratio(wet condition/ equilibrium conditions) : 79%</p>	P

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6.2	<p>Water permeability When test as specified in 8.2.2, traces of moisture may appear on the underside of the sheet, but in no Instance shall there be formation of drops of water.</p>	<p>Model: 6mm and 20mm: No formation of drops of water was found after being tested.</p>	P
6.3	<p>Frost resistance When sheets are tested as specified in 8.2.3, after 50 freeze-thaw cycles, the limit L_i of the average ratio r, as defined in 8.2.3.4, shall not be less than 0,75.</p>	<p>Model: 6mm: Wet condition: MOR average: 16,1MPa, minimum: 15,5MPa $r=0,98$ Model: 18mm: Wet condition: MOR average: 13,6MPa, minimum: 12,3MPa $r=0,94$</p>	P
6.4	<p>Warm water When sheets are tested as specified in 8.2.4, the limit L_i of the average ratio r, as defined in 8.2.5.4, shall be greater than 0,75.</p>	<p>Model: 6mm: MOR average: 16,4MPa, minimum: 14,8MPa $r=1,01$ Model: 18mm: MOR average: 13,3MPa, minimum: 12,3MPa $r=0,93$</p>	P
6.5	<p>Heat-rain When sheets are tested as specified in B5, any visible cracks, delamination, warping and bowing or other defects in the sheets shall not be of such a degree as to affect their performance in use.</p>	<p>Model: 6mm and 18mm: No visible cracks, delamination, warping and bowling or other defects in the sheets.</p>	P



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6.6	Soak-dry When sheets are tested as specified in 8.2.5, the limit L_1 of the average ratio r , as defined in 8.2.5.4, shall be greater than 0,75.	Model: 6mm: MOR average: 15,3MPa, minimum: 14,2MPa $r=0,93$ Model: 18mm: Wet condition: MOR average: 12,6MPa, minimum: 11,9MPa $r=0,89$	P
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Appendix A: Sample Photo



Revision:

Revision No.	Date	REVISION	Reviser	Reviewer
/	/	Original Report Issue	/	/

*****End of Report*****