# Anhui Leao New Materials Technology Co., Ltd

# TEST REPORT

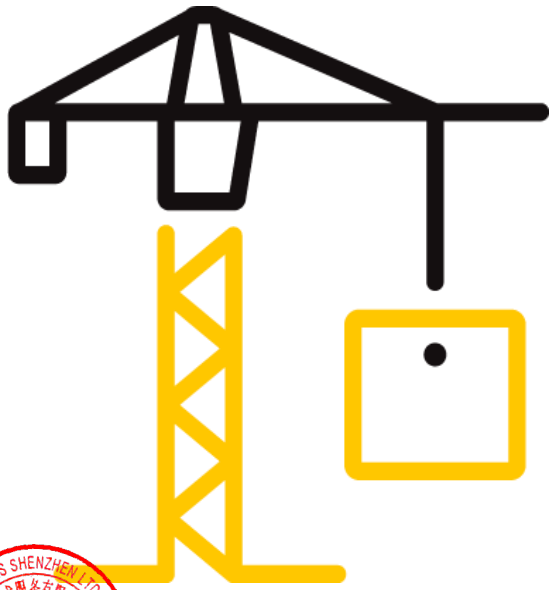
**SCOPE OF WORK**
FIBER CEMENT BOARD
Referenced: High Quality Panel

**REPORT NUMBER**
230925139GZU-004

**TEST DATE(S)**
From 10/9/2023 to 12/19/2023

**ISSUE DATE** **[REVISED DATE]**
1/26/2024 /

**PAGES**
9



**Intertek Testing Services Shenzhen Ltd. Guangzhou Branch**

**DOCUMENT CONTROL NUMBER**
TTRF_Performance _02a
Effective date:2020-12-30

Intertek testing service Shenzhen Ltd. Guangzhou Branch
Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538
Website: www.intertek.com

## Test Report

Report No.: 230925139GZU-004
Report Date: 1/26/2024

# Statement

1.This report is invalid without authorized person's signature.

2.This report is invalid where any unauthorized modification indicated.

3.Don’t copy this report in partial (except full copy) without any official approval in written by our company.

4.This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

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.

Intertek testing service Shenzhen Ltd. Guangzhou Branch
Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538
Website: www.intertek.com

# Test Report

Report No.: 230925139GZU-004
Report Date: 1/26/2024

**Client Information:**

| | |
|---|---|
| Applicant Name | Anhui Leao New Materials Technology Co., Ltd |
| Address | Qilihe Village, Chihe Town, Dingyuan County, Chuzhou City, Anhui, China |
| Attn | Crane Yu |

**Product Information:**

| | | | |
|---|---|---|---|
| Product Name | FIBER CEMENT BOARD<br>Referenced: High Quality Panel | Sample Description | Good Condition |
| Model and/ or type reference | 8mm, 9mm, 10mm, 12mm, 15mm, 18mm, 20mm, 22mm and 24mm | Received Date | 09/25/2023 |
| Sample ID. | S230925139GZU.001 | Sample Amount | 1 package |
| Specification | 1220 mm x 2440 mm | Brand | / |
| Manufacturer | Anhui Leao New Materials Technology Co., Ltd | | |
| Address | Qilihe Village, Chihe Town, Dingyuan County, Chuzhou City, Anhui, China | | |
| 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

Intertek testing service Shenzhen Ltd. Guangzhou Branch
Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538

# Test Report

Report No.: 230925139GZU-004

Report Date: 1/26/2024

**General product information:**

Client declaration: The applicant declared that their product Fiber cement sheet has a thickness range of 8mm to 24mm, 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 use.
All tests were carried out based on thickness of 8mm and 24mm.

Intertek testing service Shenzhen Ltd. Guangzhou Branch
Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538

# Test Report

Report No.: 230925139GZU-004
Report Date: 1/26/2024

**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<br>The manufacture shall specify the nominal length and width of the sheets. | 2440*1220mm | — |
| 5.1.2 | Thickness<br>The manufacture shall specify the nominal thickness of the sheets. | 8mm, 24mm | — |
| 5.1.3 | Tolerance on dimensions<br>Tolerances on nominal dimensional are as follow:<br>a) on length and width (indicated by d):<br>d<=1000mm: ±5mm;<br>1000mm<d<=1600mm: ±0,5%;<br>d>1600mm: ±8mm;<br>These tolerances do not apply to oversize sheets.<br>b) on thickness, e:<br>e<=6mm: ±0,6mm;<br>e>6mm: ±10%.<br>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: 8mm:<br>Measured average length: 2438 mm<br>Maximum deviation: -2mm<br>Measured average width: 1219mm<br>Maximum deviation: -0,1%<br>Measured average thickness: 8,3mm<br>Max. deviation: +4,6%<br><br>Model: 24mm:<br>Measured average length: 2439 mm<br>Maximum deviation: -1mm<br>Measured average width: 1219mm<br>Maximum deviation: -0,1%<br>Measured average thickness: 24,8mm<br>Max. deviation: 4,3% | P |
| 5.1.4 | Tolerance on shape | | |
| 5.1.4.1 | Straightness of edges<br>The tolerance on the straightness of edges is 3mm/m for the relevant dimension (length or width). | Maximum edge straightness:<br>Model: 8 mm:<br>0.1 mm/m<br>Model: 24 mm:<br>0.2 mm/m | P |

Intertek testing service Shenzhen Ltd. Guangzhou Branch
Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538

# Test Report

Report No.: 230925139GZU-004
Report Date: 1/26/2024

| | | | |
|---|---|---|---|
| 5.1.4.2 | Squareness of edges<br>The tolerance on squareness of sheets is 4mm/m. | Model: 8mm:<br>Squareness of edge:<br>0,14 mm/m ~0,33 mm/m<br><br>Model: 24mm:<br>Squareness of edge:<br>0,16 mm/m ~0,31 mm/m | P |
| 5.2 | Mechanical and physical characteristics | | |
| 5.2.2 | Apparent density<br>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. | No claims<br>Model: 8mm:<br>Apparent density: 1,450g/cm$^3$<br>Measured:<br>1,402g/cm$^3$ to 1,479g/cm$^3$<br><br>Model: 24mm:<br>Apparent density: 1,530g/cm$^3$<br>Measured:<br>1,500g/cm$^3$ to 1,573g/cm$^3$ | — |
| 6 | Type characteristics | | |
| 6.1 | Bending strength<br>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.<br>In addition the mean modulus of rupture under wet conditions shall be not less than 50% of the mean rupture under equilibrium conditions. | Model: 8mm:<br>Equilibrium condition:<br>MOR average: 17,6MPa,<br>minimum: 16,4MPa<br>Wet condition:<br>MOR average: 14,6MPa,<br>minimum: 13,5MPa<br>Category 4<br>Ratio(wet condition/ equilibrium conditions) : 83%<br><br>Model: 24mm:<br>Equilibrium condition:<br>MOR average: 17,7MPa,<br>minimum: 16,7MPa<br>Wet condition:<br>MOR average: 16,4MPa,<br>minimum: 15,3MPa<br>Category 4<br>Ratio(wet condition/ equilibrium conditions) : 93% | P |

Intertek testing service Shenzhen Ltd. Guangzhou Branch
Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538

# Test Report

Report No.: 230925139GZU-004
Report Date: 1/26/2024

| | | | |
|---|---|---|---|
| 6.2 | Water permeability<br>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. | Model: 8mm and 24mm:<br>No formation of drops of water was found after being tested. | P |
| 6.3 | Frost resistance<br>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. | Model: 8mm:<br>Wet condition:<br>MOR average: 15,2MPa,<br>minimum: 14,6MPa<br>r=1,02<br>Model: 24mm:<br>Wet condition:<br>MOR average: 22,5MPa,<br>minimum: 21,0MPa<br>r=1,31 | P |
| 6.4 | Warm water<br>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. | Model: 8mm:<br>MOR average: 15,9MPa,<br>minimum: 14,9MPa<br>r=1,05<br><br>Model: 24mm:<br>MOR average: 17,1MPa,<br>minimum: 16,3MPa<br>r=1,01 | P |
| 6.5 | Heat-rain<br>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. | Model: 8mm and 24mm:<br>No visible cracks, delamination, warping and bowling or other defects in the sheets. | P |

# Test Report

Report No.: 230925139GZU-004
Report Date: 1/26/2024

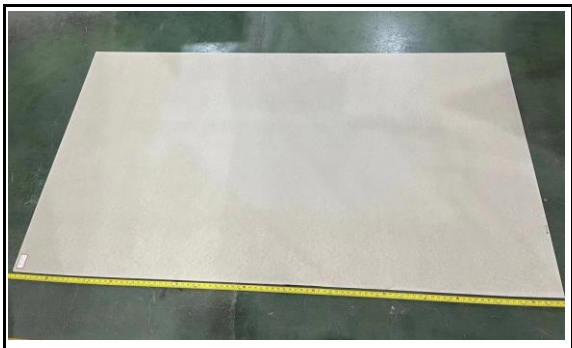
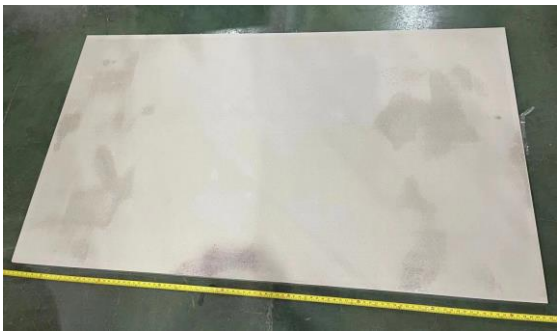
| | | | |
|---|---|---|---|
| 6.6 | Soak-dry<br>When sheets are tested as specified in 8.2.5, the limit $L_i$ of the average ratio r, as defined in 8.2.5.4, shall be greater than 0,75. | Model: 6mm:<br>MOR average: 15,3MPa,<br>minimum: 14,2MPa<br>r=0,93<br><br>Model: 18mm:<br>Wet condition:<br>MOR average: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

Intertek testing service Shenzhen Ltd. Guangzhou Branch
Room 4103 & 4203, No. 63 Punan Road, Huangpu District, Guangzhou, China
Tel: 020-82139668 Fax: 020-32157538
Website: www.intertek.com

# Test Report

Report No.: 230925139GZU-004
Report Date: 1/26/2024

**Appendix A: Sample Photo**

<table>
<tr><td>  </td><td>  </td></tr>
<tr><td>A1. Over view of Model 8mm</td><td>A2. Section view of Model 8mm</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>A3. Over view of Model 24mm</td><td>A4. Section view of Model 24mm</td></tr>
</table>

**Revision:**

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

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