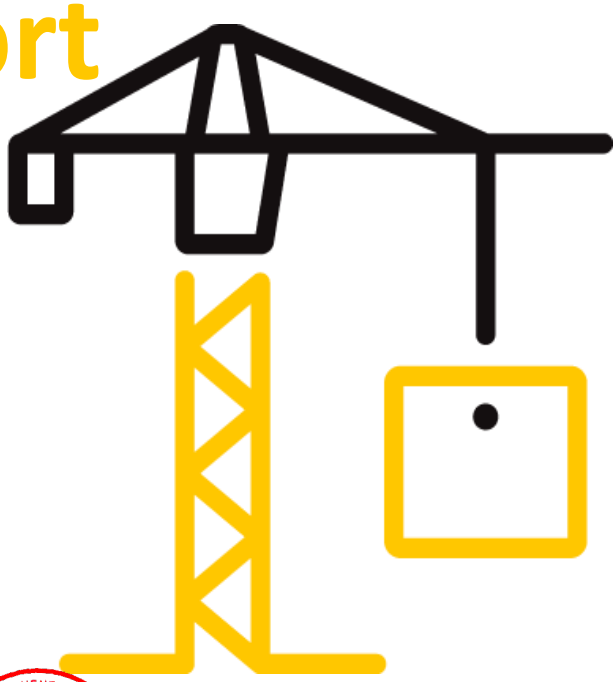
Anhui Leao New Materials Technology Co., Ltd

TEST Report



SCOPE OF WORKS

<Type of Testing – FIBER CEMENT BOARD>

Referenced: High Quality Panel

REPORT NUMBER

230925139GZU-002

ISSUE DATE **REVISED DATE**

1/26/2024 /

PAGES

20

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

DOCUMENT CONTROL NUMBER

TTRF-EN12467-a

Room 4103 & 4203, No. 63, Punan Road, Huangpu District,
Guangzhou, Guangdong Province, China
Tel: 020-82139688 Fax: 020-32157538
Website: www.intertek.com

Test Report

Report Number:230925139GZU-002
Report Date: 1/26/2024

Applicant:	Anhui Leao New Materials Technology Co., Ltd
Applicant Address:	Qilihe Village, Chihe Town, Dingyuan County, Chuzhou City, Anhui, China

Sample Information As Declaration:

Product Name:	FIBER CEMENT BOARD Referenced: High Quality Panel
Trade Mark:	/
Model or Type reference:	8mm, 9mm, 10mm, 12mm, 15mm, 18mm, 20mm, 22mm and 24mm
Manufacturer:	Anhui Leao New Materials Technology Co., Ltd
Manufacturer Address:	Qilihe Village, Chihe Town, Dingyuan County, Chuzhou City, Anhui, China
Intend Use:	external wall finishes
Ratings:	Reaction to fire Class A1 Weather resistance: Category A Bending strength (Wet condition): Class 3; Method of installation: Large size sheet Dimensional tolerance: Level I
Sample ID:	S230925139GZU.001
Date Received:	09/25/2023
Date Test Conducted:	From 10/9/2023 to 12/19/2023
Status As Sample Received:	Sample received was in good condition

General remarks:

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 tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
"(See remark #)" refers to a remark appended to the report.
"(See Appendix #)" refers to an appendix appended to the report.
Throughout this report a comma (point) is used as the decimal separator.
When determining the test result, measurement uncertainty has been considered.
The clause which indicated with * is the subcontract test item.

Room 4103 & 4203, No. 63, Punan Road, Huangpu District,
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Test Report

Report Number:230925139GZU-002
Report Date: 1/26/2024

Testing Information

Standard:	EN 12467:2012+A2:2018
Test lab :	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Test lab address:	Room 4103 & 4203, No. 63, Punan Road, Huangpu District, Guangzhou, Guangdong Province, China

Possible test case verdicts:

Test case does not apply to the test object:	N/A
Test object does meet the requirement:	P(Pass)
Test object does not meet the requirement:	F(Fail)

Conclusion:

The submitted samples were tested and found to **COMPLY WITH** applicable requirements of EN 12467:2012+A2:2018.

General Product information

Submitted samples are fiber cement board, intended use as internal wall and ceiling finishes. The product includes 8mm, 9mm, 10mm, 12mm, 15mm, 18mm, 20mm, 22mm and 24mm in thickness, the client claimed that all the models are the same in formula, density, product process and material (cement, cellulose fibre and quartz sand), the only difference is thickness.
All test results based on 8mm and 24mm thickness.
Reaction to fire (Class A1) was conducted by UKAB No. 2822 Efectis UK/Ireland.
See Appendix C for products' appearance.

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Guangzhou, Guangdong Province, China
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Report Number:230925139GZU-002
Report Date: 1/26/2024

Copy of marking plate and summary of test results (information/comments):

Only example for specified model: 8mm(thickness)

UKCA
Anhui Leao New Materials Technology Co., Ltd Qilihe Village, Chihe Town, Dingyuan County, Chuzhou City, Anhui, China 24 XXXXX-CPR-2024/01/26
EN 12467:2012+A2:2018 Fiber cement board for external wall finishes NT Length 2440mm, Width 1220mm, Thickness 8mm Mechanical resistance: A3 Reaction to fire: A1 Water impermeability: No water drops Release of dangerous substances: NPD Durability against: Warm water: RL>=0,75 Soak/ dry: RL>=0,75 Freeze-thaw: RL>=0,75 Heat-rain: Pass

Note:

1. If the UKCA marking is reduced or enlarged the proportions given in the above graduated drawing must be respected.
2. The various components of the UKCA marking must have substantially the same vertical dimension, which may not be less than 5 mm.
3. UKCA marking and label shall be affixed visibly, legibly and indelibly.
4. “XXXXX-CPR-2024/01/26” should be the reference number of the DoP.

Summary of testing:
The submitted samples were tested and found to comply with applicable requirements of EN 12467:2012+A2:2018.

Test Report **Report Number:230925139GZU-002**

Report Date: 1/26/2024

Test Items, Method and Results：

EN 12467:2012+A2:2018			
Clause	Requirement - Test	Result - Remark	Verdict
5	REQUIREMENTS		-
5.1	General		
5.1.1	Composition Sheets shall consist essentially of cement or a calcium silicate formed by a chemical reaction of a siliceous and a calcareous material, reinforced by fibres. The cement shall comply with EN 197-1 or with technical specifications relevant in the country of use. This European Standard covers fibre-reinforced cement flat sheets of type NT. The reinforcing fibres shall be one or more of the following forms: —discrete elements randomly dispersed; —continuous strands or tapes; —nets or webs. Process aids, fillers, aggregates and pigments may be added.	Claimed composition: Cement, Cellulose fibre, Quartz sand; and the cement complied with EN 197-1. Applicant declaration: no asbestos contained.	-
5.1.2	Appearance and finish The exposed face of the sheets can be with or without texture. The sheets can be coloured or left in their natural colour. The sheets can also receive adherent coloured or uncoloured coatings on their surface. Variations of the surface appearance which do not impair the fitness for purpose of the sheets are permitted. The sheets may be supplied with holes for fixing and/or cut to size.	Model: 8mm: No major defect was found. Model: 24mm: No major defect was found.	P
5.2	Classification		

Test Report **Report Number:230925139GZU-002**

Report Date: 1/26/2024

Test Items, Method and Results：

EN 12467:2012+A2:2018			
Clause	Requirement - Test	Result - Remark	Verdict
5.2.1	General Sheets covered by this document are divided into: —four categories in accordance with their weather resistance (see 5.2.2 to 5.2.5); —five classes in accordance with their bending strength (see 5.4.3); —two groups of sizes in accordance with their method of installation (see 5.2.6); — two levels in accordance with their dimensional tolerances (see 5.3.4). Type tests for each category are specified in Table 7.	Model: 8mm: Weather resistance: Category A Bending strength (wet condition): Class 3 Method of installation: Large size sheet Level of tolerance: Level I Model: 24mm: Weather resistance: Category A Bending strength (wet condition): Class 3 Method of installation: Large size sheet Level of tolerance: Level I	–
5.3	Dimensions and tolerances		
5.3.1	General There are two levels of tolerances for length, width, straightness and squareness of edges. Sheets shall comply with the requirements of the same level for the four sets of tolerances.	Refer to below clause 5.3.2 to 5.3.5.	–
5.3.2	Nominal length and width The manufacturer shall specify the nominal length and width of the sheets.	1220*2440mm	–
5.3.3	Thickness The manufacturer shall specify the nominal thickness of the sheets.	8mm, 9mm, 10mm, 12mm, 15mm, 18mm, 20mm, 22mm and 24mm	-
5.3.4	Tolerance on nominal dimensions		–

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Test Items, Method and Results:

<table>
<tr><td colspan="4">EN 12467:2012+A2:2018</td></tr>
<tr><td>Clause</td><td>Requirement - Test</td><td>Result - Remark</td><td>Verdict</td></tr>
<tr><td>5.3.4.1</td><td>Tolerance on length and width
Tolerance on length and width shall be in accordance with Table 1, for the appropriate level.
<table><tr><td>Nominal dimension a</td><td>Level I</td><td>Level II</td></tr><tr><td>a<= 600mm</td><td>±3mm</td><td>±4mm</td></tr><tr><td>600mm<a<=1000mm</td><td>±3mm</td><td>±5mm</td></tr><tr><td>1000mm<a<=1600mm</td><td>±0,3% a</td><td>±0,5% a</td></tr><tr><td>1600mm<a</td><td>±5mm</td><td>±8mm</td></tr><tr><td colspan="3">a is the nominal width or length</td></tr></table></td><td>Model: 8mm:
Average Length: 2438mm
Deviation: -2mm
Average Width: 1219mm
Deviation: -0,1%

Model: 24mm:
Average Length: 2439mm
Deviation: -1mm
Average Width: 1219mm
Deviation: -0,1%</td><td>P</td></tr>
<tr><td>5.3.4.2</td><td>Tolerance on thickness
For non-textured sheets, tolerance shall be in accordance with Table 2.
<table><tr><td>e <=6mm</td><td>±0,6mm</td></tr><tr><td>6< e <=20mm</td><td>±10% e</td></tr><tr><td>e>20mm</td><td>±2mm</td></tr></table></td><td>Model: 8mm:
Thickness : 8,3mm
Deviation: 3,8%~-4,6%

Model: 24mm:
Thickness : 24,8mm
Deviation: 0,03mm~1,03mm</td><td>P</td></tr>
<tr><td>5.3.5.1</td><td>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.
<table><tr><td>Level I</td><td>Level II</td></tr><tr><td>0,1%</td><td>0,3%</td></tr></table></td><td>Model: 8mm:
Straightness of edge: 0,01%

Model: 24mm:
Straightness of edge:
0,01%~0,02%

Complied Level I</td><td>P</td></tr>
<tr><td>5.3.5.2</td><td>Squareness of edges
The tolerances on squareness of sheets shall be in accordance with Table 5, for the appropriate level.
<table><tr><td>Level I</td><td>Level II</td></tr><tr><td>2mm/m</td><td>4mm/m</td></tr></table></td><td>Model: 8mm:
Squareness of edge:
0,14 mm/m ~0,33 mm/m

Model: 24mm:
Squareness of edge:
0,16 mm/m ~0,31 mm/m

Complied Level I</td><td>P</td></tr>
</table>

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Test Items, Method and Results：

EN 12467:2012+A2:2018			
Clause	Requirement - Test	Result - Remark	Verdict
5.4.1	General Mechanical and material properties are normally determined on sheets as delivered. The results shall be indentified as applying to coated or uncoated material.	Refer to below clause 5.4.1 to 5.4.6.	–
5.4.2	Apparent density The manufacturer shall specify in his literature the minimum apparent density for each category of sheet. When tested in accordance with the method specified in 7.3.1 the density shall be not less than this value.	No claims Model: 8mm: Apparent density: 1,450g/cm^3 Measured: 1,402g/cm^3 to 1,479g/cm^3 Model: 24mm: Apparent density: 1,530g/cm^3 Measured: 1,500g/cm^3 to 1,573g/cm^3	–
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.	Model: 8mm: The percentage value of linear sheet moisture movement: 0,05% Model: 24mm: The percentage value of linear sheet moisture movement: 0,04%	–

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Test Items, Method and Results：

<table>
<tr><td colspan="4">EN 12467:2012+A2:2018</td></tr>
<tr><td>Clause</td><td>Requirement - Test</td><td>Result - Remark</td><td>Verdict</td></tr>
<tr><td>5.4.4</td><td>Mechanical characteristics –Bending strength (MOR) – Modulus of elasticity (MOE)
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.
Category A and B sheet strengths are specified in the wet condition (see Table 10).
Category C and D sheet strengths are specified in the ambient condition (see Table 10).
<table>
<tr><td rowspan="2">Classes</td><td>min. MOR in the wet condition, MPa</td></tr>
<tr><td>Category A & B</td></tr>
<tr><td>1</td><td>4</td></tr>
<tr><td>2</td><td>7</td></tr>
<tr><td>3</td><td>13</td></tr>
<tr><td>4</td><td>18</td></tr>
<tr><td>5</td><td>24</td></tr>
</table></td><td>Category A
Wet condition:
Model 8mm:
MOR average: 14,6MPa,
minimum: 13,5MPa
Class 3
MOE average: 9920MPa
Standard deviation: 1020MPa

Model 24mm:
MOR average: 16,4MPa,
minimum: 15,3MPa
Class 3
MOE average: 14560MPa
Standard deviation: 610MPa</td><td>–</td></tr>
<tr><td>5.4.5</td><td>Water impermeability for Categories A, B and D
When tested in accordance with 7.3.3, traces of moisture may appear on the under surface of the sheet, but in no instance shall there be any formation of drops of water.</td><td>Model: 8mm:
No formation of drops of water after being tested.
Model: 24mm:
No formation of drops of water after being tested.</td><td>P</td></tr>
<tr><td>5.4.6</td><td>Water vapour permeability for Category D</td><td>The products belong to Category A, Not applicable.</td><td>N/A</td></tr>
<tr><td>5.5</td><td colspan="3">Durability requirements</td></tr>
<tr><td>5.5.1</td><td>Mechanical and material properties are normally determined for sheets as delivered. The results shall be identified as applying to coated or uncoated material. The performance of the coating in the following tests shall not be considered in the assessment of the product.</td><td>Refer to below clause 5.5.2 to 5.5.5.</td><td>-</td></tr>
</table>

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Test Items, Method and Results：

EN 12467:2012+A2:2018			
Clause	Requirement - Test	Result - Remark	Verdict
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 RL as defined in 7.4.1.4 shall be not less than 0,75.	Model: 8mm: Wet condition: MOR average: 15,2MPa, minimum: 14,6MPa RL=1,02 Model: 24mm: Wet condition: MOR average: 22,5MPa, minimum: 21,0MPa RL=1,31	P
5.5.3	Heat-rain for categories A and B When tested in accordance with 7.4.2,after 50 heat-rain cycles for Category A and 25 cycles for Category B, 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. Water tightness is tested according to 5.4.5. Warping and bowing are visually assessed.	Model: 8mm and 24mm 1. No formation of drops of water; 2. No visible cracks, delamination, warping and bowling or other defects were found in the sheets.	P
5.5.4	Warm water for categories A, B, C and D When tested in accordance with 7.3.5, after 56 days at 60°C, the ratio RL as defined in 7.3.5.4 shall be not less than 0, 75.	Model: 8mm: MOR average: 15,9MPa, minimum: 14,9MPa RL=1,05 Model: 24mm: MOR average: 17,1MPa, minimum: 16,3MPa RL=1,01	P
5.5.5	Soak-dry for categories A, B, C and D When tested in accordance with 7.3.6, after 50 soak-dry cycles for category A and 25 cycles for Category B, C and D the ratio RL as defined in 7.3.6.4 shall be not less than 0, 75.	Model: 8mm: MOR average: 16,1MPa, minimum: 15,0MPa RL=1,06 Model: 24mm: Wet condition: MOR average: 17,0MPa, minimum: 16,1MPa RL=1,00	P

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Report Date: 1/26/2024

Test Items, Method and Results：

EN 12467:2012+A2:2018			
Clause	Requirement - Test	Result - Remark	Verdict
5.6	Fire and safety		
5.6.1*	Reaction to fire When subject to regulatory requirements, the reaction to fire of the sheets shall be declared in accordance with 7.5.	Class A1, refer to Annex A: copy of the report (Issue by: UKAB 2822)	P
5.6.2	Release of dangerous substances For products containing substance(s) defined in Council Directive 76/769/EEC, the content shall be declared by the manufacturer. This applies to substances contained in the original formulation or created during the manufacturing process. In addition see Annex ZA.	Applicant with written declaration that the product does not contain/release of any hazardous substances including asbestos.	-
5.7	Product information The manufacturer shall include the following in his literature: a) designation of the sheet: - type of product: NT (see 5.1.1); - name of the sheet, - category, - class, - level of tolerances; b) nominal values for: - thickness - length and width c) minimum apparent density d) instructions relevant to the handling and installation.	See “Copy of marking plate”, instruction was not provided.	–
6	Assessment and verification of constancy of performance — AVCP		
6.1	General The compliance of fibre-cement flat sheets with the requirements of this standard and with the performances declared by the manufacturer in the DoP shall be demonstrated by: —determination of the product type; —factory production control by the manufacturer, including product assessment. The manufacturer shall always retain the overall control and shall have the necessary means to take responsibility for the conformity of the product with its declared performance(s).		–

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Test Items, Method and Results：

EN 12467:2012+A2:2018			
Clause	Requirement - Test	Result - Remark	Verdict
6.2	Type testing Type tests shall be carried out on products as delivered. If several formats or sizes of the same category and class are being produced from the same composition and by the same production method, type tests only need to be carried out on maximum and minimum thickness. If the ratio of the maximum to minimum thickness is greater than three then an additional intermediate thickness shall be tested.	Refer to clause 5.3 to 5.6	P
6.3	Factory product control (FPC) The manufacturer shall establish, document and maintain a FPC system to ensure that the products placed on the market comply with the declared performance of the essential characteristics. The FPC system shall consist of procedures, regular inspections and tests and/or assessments and the use of the results to control raw and other incoming materials or components, equipment, the production process and the product. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures. Manufacturers having an FPC system, which complies with EN ISO 9001 and which addresses the provisions of the present European Standard are considered as satisfying the FPC requirements of the Regulation (EU) No 305/2011.	Factory operates in accordance with ISO 9001(please refer to Annex B of ISO 9001 certificate which is submitted by the applicant), and is deemed to satisfy the requirement of FPC.	P

Appendix A*: Copy of Test Report (Issued by: UKAB 2822)

Efectis UK/Ireland

EFECTIS UK/Ireland Limited
Shore Road - Newtownabbey
Co Antrim - BT 37 0QB
United Kingdom
Tel: +44(0)2890368766
Fax: +44(0)2890 368726

CLASSIFICATION REPORT

REACTION TO FIRE - CLASSIFICATION REPORT No EUI-23-000774

1. INTRODUCTION

This classification report defines the classification assigned to High Quality Panel in accordance with the procedures given in BS EN 13501-1:2018.

REACTION TO FIRE CLASSIFICATION IN ACCORDANCE WITH BS EN 13501-1:2018

Sponsor :	Anhui Leao New Materials Technology Co., Ltd Qilihe Village, Chihe Town, Dingyuan County 510663 Chuzhou City, Anhui China
Prepared by:	Efectis UK/Ireland Jordanstown Campus Firesert building (B27) Newtownabbey BT37 0QB United Kingdom
Notified Body No:	2822
Product name:	Fibre cement board Referenced: High Quality Panel
Classification report No.:	EUI-23-000774
Issue number:	1
Date of issue:	December 08, 2023

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Efectis | No EUI-23-000774 | CLASSIFICATION REPORT

2. DOCUMENT TRACKING

Revision Index.	*Modification*
0	Original document

3. DESCRIPTION OF THE PRODUCT

3.1. GENERAL

The product, High Quality Panel, is defined as a fibre cement board (according to harmonized product standard **BS EN 12467:2012+A2-2018** - Fibre-cement flat sheets - Product specification and test methods)

3.2. PRODUCT DESCRIPTION

The product, High Quality Panel, is described below or is described in the reports provided in support of classification listed in 3.1.

Product description	
Trade mark	Fibre cement board Referenced: High Quality Panel
Manufacturer / supplier	Anhui Leao New Materials Technology Co., Ltd Qilihe Village, Chihe Town, Dingyuan County 510663 Chuzhou City, Anhui China
Composition	Fibre cement board made of 37.5% cement, 7.5% cellulose fibre and 55% quartz sand
Thickness	8 mm
Mass per unit area	11.8 kg/m²
Density	1470 kg/m³
Colour	Off white

4. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

4.1. REPORTS

Name of Laboratory	Name of sponsor	Report ref. no	Test method and date field of application rules and date
EFECTIS UK/Ireland	Anhui Leao New Materials Technology Co., Ltd	EUI-23-HC-000774	**BS EN ISO 1716:2018**
EFECTIS France	Anhui Leao New Materials Technology Co., Ltd	EFR-23-004875-NC	**NF EN ISO 1182 : 2020**

Efectis | No EUI-23-000774 | CLASSIFICATION REPORT

4.2. RESULTS

Test method and test number	Parameter	No. Tests a)	Results	
			Continuous parameter - mean (m)	Compliance with parameters
BS EN ISO 1716:2018 EUI-23-HC-000774	PCS (MJ/kg) GCV (MJ/kg)	3	0.8	-
NF EN ISO 1182 : 2020 EFR-23-004875-NC	Temperature rise	5	2	-
	Δm (%) Mass loss		16	-
	tf (s) Duration of sustained flaming		-	-

a) Not for extended application
(-) means not applicable

5. CLASSIFICATION AND FIELD OF APPLICATION

5.1. REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with BS EN 13501-1:2018.

5.2. CLASSIFICATION

The product, High Quality Panel, in relation to its reaction to fire behaviour is classified:
A1

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour
A1

i.e. A1

Reaction to fire classification	A1

Efectis | No EUI-23-000774 | CLASSIFICATION REPORT

5.3. FIELD OF APPLICATION

According to harmonized product standard **BS EN 12467:2012+A2-2018** - Fibre-cement flat sheets - Product specification and test methods, this classification is valid for the following product parameters:

Thickness	Valid for the thickness of 8 mm or greater.
Density	Valid for the density of 1470 kg/m^3 ± 150 kg/m^3
Type of product	Valid for product as described in **3.2**
Asymmetry	Valid for fire on both sides
Colour	Valid for tested colour (off white)
Size	Valid for the same type, but with different dimensions of length and width.

Efectis | No EUI-23-000774 | CLASSIFICATION REPORT

6. LIMITATIONS

This classification document does not represent type approval or certification of the product.

"The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and UKCA/UKNI marking under the Construction Products Regulation.
The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.
The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested."

SIGNED

MOHAMAD

Mohamad Aloulou
In charge of the Test
Project Leader

APPROVED

Damien Flammier
Technical Manager

Appendix B: ISO 9001 certificate

领航盛达

hSd

Quality Management Certification

Certificate No: 86123Q0224R0S

This is to certify that:

Anhui Leao New Materials Technology Co.,Ltd.

Uniform credit code: 91341125MA2WFMG89K

Registered address: 513 km away, 328 National Road, Qilihe Village, Chihe Town, Dingyuan County, Chuzhou City, Anhui Province

Business address: 513 km away, 328 National Road, Qilihe Village, Chihe Town, Dingyuan County, Chuzhou City, Anhui Province

GB/T 19001-2016/ISO 9001:2015

Scope of certification:

Production of asbestos-free fiber cement plate

Date of issue: 2023-11-07 Date of valid: 2026-11-06

Certification Manager:

Zhenguo Wang

LHSD (Beijing) International Certification Co., Ltd
Room 331, Building 3, Yard 12, Shuyuan South Street, Fangshan District, Beijing, China

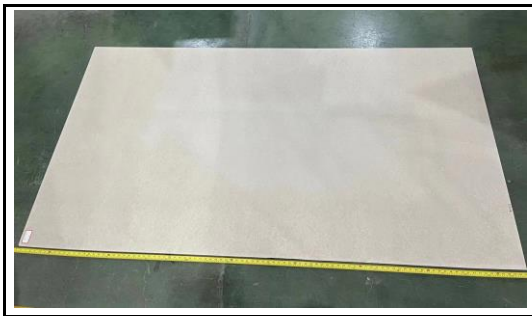
Web：www.lhsdbj.cn

Remark: This certificate is issued by LHSD. For its validity, please scan the QR code on the certificate. The certificate can be verified on the official website of LHSD(www.lhsdbj.cn) and also on the official website of Certification and Accreditation Administration (www.cnca.gov.cn)

ISO管理体系认证 ISO management system

领航盛达 hSd ISO 9001

Appendix C: Product photo

	
C1. Over view of sample 8mm	C2. Section view of sample 8mm
	
C3. Over view of sample 24mm	C4. Section view of sample 24mm

Test Report

Report Number:230925139GZU-002
Report Date: 1/26/2024

Appendix D: Revision history

Approved by:

Name: Jeff Deng
Title: Manager

Drafted by:

Name: Kelming Wang
Title: Project Engineer

Revision:

Report No.	Date	Changes	Author	Reviewer
230925139GZU-002	1/26/2024	First issue	Kelming Wang	Jeff Deng

****

The End of Report