

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-004-R1

TEST DATE(S)

2024-01-25 - 2024-03-04

ORIGINAL ISSUE DATE

2024-03-07

REVISED DATE

2024-04-15

PAGES

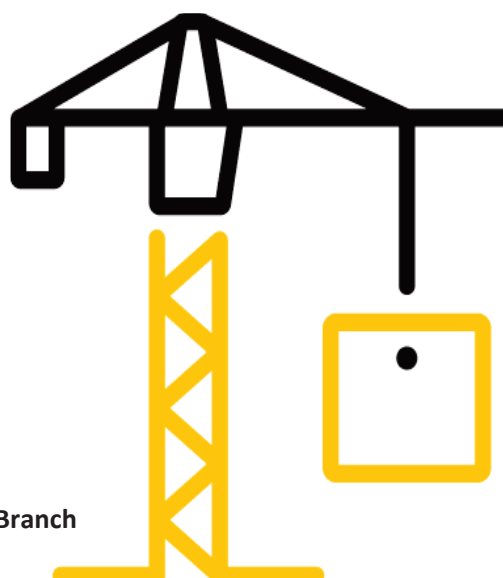
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10|(February 1, 2024)

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- 8.Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.
- 9.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.



Test Report

Original Issue Date: 2024-03-07 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-004-R1

Applicant: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.010~011	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		

Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.6.1, EN ISO 1182:2020, EN ISO 1716:2010
Specification Standard	EN 13501-1:2018
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

Sally Xie *Jackie Zhou*
 Name: Sally Xie Jackie Zhou
 Title: Reviewer Project Engineer



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-004-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018		
Fibre-cement flat sheets - Product specification and test methods		
Clause	Requirement - Test	Result - Remark
5.6	Fire and safety	
5.6.1	Reaction to fire When subject to the regulatory requirements, the reaction to fire of the sheets shall be declared in accordance with 7.5.	Class A1 (see page 5 to 6)



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-004-R1

Test Items, Method and Results:

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

1.1 NON-COMBUSTIBILITY TEST

The test was conducted in accordance with EN ISO 1182. This test evaluates the non-combustibility performance of products in a vertical tube at 750±5°C.

1.2 HEAT OF COMBUSTION TEST

The test was conducted in accordance with EN ISO 1716. This test evaluates the gross heat of combustion (Q_{PCS}) of products at constant volume in a bomb calorimeter.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class A1 with its corresponding fire performance are given in the table below.

Table - Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test Method(s)	Classification criteria	Additional classifications
A1	EN ISO 1182 ^a and	$\Delta T \leq 30^{\circ}\text{C}$; and $\Delta m \leq 50\%$; and $t_f = 0 \text{ s}$ (i.e. no sustained flaming)	--
	EN ISO 1716	$PCS \leq 2.0 \text{ MJ/kg}^a$ and $PCS \leq 2.0 \text{ MJ/kg}^b$ and $PCS \leq 1.4 \text{ MJ/m}^2^c$ and $PCS \leq 2.0 \text{ MJ/kg}^d$	--

Note:

- a. For homogeneous products and substantial components of non-homogeneous products.
- b. For any external non-substantial component of non-homogeneous products.
- c. For any internal non-substantial component of non-homogeneous products.
- d. For the product as a whole.



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-004-R1

Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter		Result
EN ISO 1182:2020	ΔT (°C)		2.4
	Δm (%)		38.5
	t_f (s)		0
EN ISO 1716:2010	PCS	The whole product, MJ/kg	-0.1253

3 CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour		Smoke production		Flaming Droplets
A1	-	s	Not applicable	- d Not applicable

Reaction to fire classification: A1



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-004-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-004	2024-03-07	First issue
240125004SHF-004-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-004-R1 report, the original report 240125004SHF-004 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-002-R1

TEST DATE(S)

2024-01-25 - 2024-03-01

ORIGINAL ISSUE DATE

2024-03-18

REVISED DATE

2024-04-15

PAGES

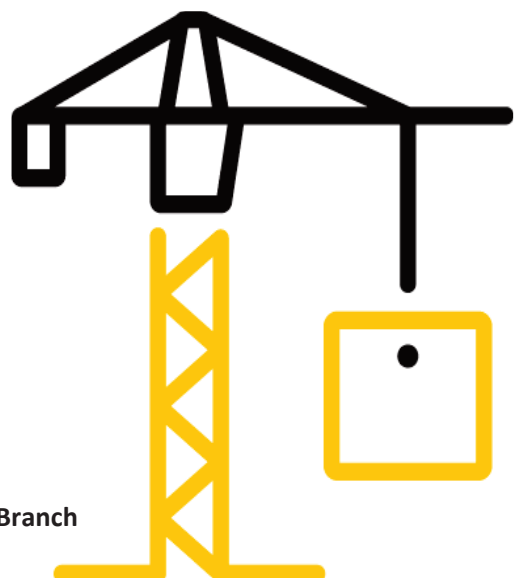
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Test Report

Original Issue Date: 2024-03-18 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-002-R1

Applicant: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.002	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		


Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.4.2
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

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Report Authorized



 Name: Flora Fan Jackie Zhou

 Title: Reviewer Project Engineer

Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-002-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018		
Fibre-cement flat sheets - Product specification and test methods		
Clause	Requirement - Test	Result - Remark
5.4	Physical requirement and characteristics	
5.4.2	Apparent density The manufacture shall specify in his literature the minimum apparent density for each category and each class of sheet. When tested in accordance with the method specified in 7.3.1 the density shall be not less than this value	Specified minimum: 920kg/m ³ Measured: 926 kg/m ³



Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-002-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-002	2024-03-18	First issue
240125004SHF-002-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-002-R1 report, the original report 240125004SHF-002 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-005-R1

TEST DATE(S)

2024-01-25 - 2024-03-04

ORIGINAL ISSUE DATE

2024-03-07

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2024-04-15

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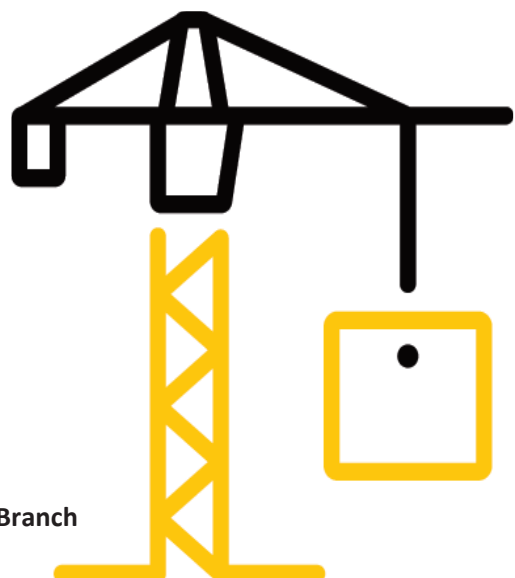
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Test Report

Original Issue Date: 2024-03-07 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-005-R1

Applicant: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.012	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		

Test Methods And Standards

Test Standard	NIOSH 9002:1994
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

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Report Authorized

Flora Fan *Jackie Zhou*

Name: Flora Fan Jackie Zhou
Title: Reviewer Project Engineer



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-005-R1

Test Item: Asbestos content

Test Method: As per test method NIOSH 9002:1994, Asbestos qualitative test was determined by microscopic examination method.

Test Result:

Analyte	CAS No.	Test Result
Actinolite	77536-66-4	Negative
Amosite	12172-73-5	Negative
Crocidolite	12001-28-4	Negative
Tremolite	77536-68-6	Negative
Anthophyllite	77536-67-5	Negative
Chrysotile	12001-29-5	Negative

Note:

1. Estimated LOD: < 1% asbestos

2. The estimated LOD is quoted hereby, because of the detection limit for visual estimation is a function of the quantity of sample analyzed, the nature of matrix interference, sample preparation, and the fiber size and distribution.

3. Test location: Central Chemical Lab of Intertek Testing Services Ltd., Shanghai
Address: 4-5/F., Block C, No.1218, Wanrong Road, Jing'an District, Shanghai



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-005-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-005	2024-03-07	First issue
240125004SHF-005-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-005-R1 report, the original report 240125004SHF-005 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-008-R1

TEST DATE(S)

2024-01-25 - 2024-03-18

ORIGINAL ISSUE DATE **[REVISED DATE]**

2024-03-18 2024-04-15

PAGES

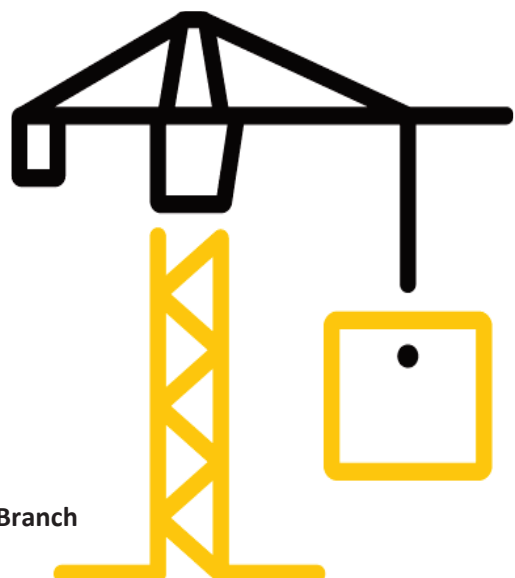
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Test Report

Original Issue Date: 2024-03-18 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-008-R1

Applicant: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.004	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		

Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.4.4
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

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Report Authorized



Flora *Jackie Zhou*

 Name: Flora Fan Jackie Zhou

 Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-008-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018				
Fibre-cement flat sheets - Product specification and test methods				
Clause	Requirement - Test			Result - Remark
5.4	Physical requirement and characteristics			
5.4.4	Mechanical characteristics - Bending strength 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.			For Category B Wet condition: average 10.2 MPa minimum 9.1 MPa Class 2
	min. MOR in the wet condition Mpa		min. MOR in the ambient laboratory conditions Mpa	
	Classes	Category A & B	Classes Category C & D	
	1	4	1	4
	2	7	2	7
	3	13	3	10
	4	18	4	16
	5	24	5	22



Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-008-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-008	2024-03-18	First issue
240125004SHF-008-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-008-R1 report, the original report 240125004SHF-008 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-001-R1

TEST DATE(S)

2024-01-25 - 2024-03-01

ORIGINAL ISSUE DATE

2024-03-07

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2024-04-15

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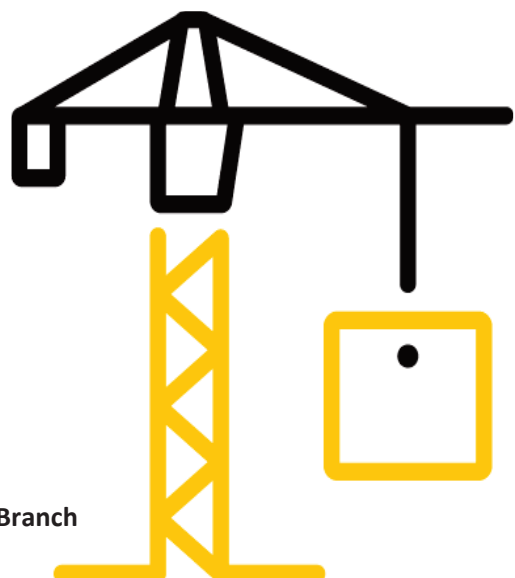
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Test Report

Original Issue Date: 2024-03-07 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-001-R1

Applicant: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.001	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		

Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.3
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

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Report Authorized


Name: Flora Fan Jackie Zhou
Title: Reviewer Project Engineer

Test Report

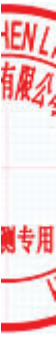
Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-001-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018				
Fibre-cement flat sheets - Product specification and test methods				
Clause	Requirement - Test		Result - Remark	
5.3	Dimensions and tolerances			
5.3.2	Nominal Length and Width The manufacture shall specify the nominal length and width of the sheets		Nominal Length: 2440mm Nominal Width: 1220mm	
5.3.3	Thickness The manufacture shall specify the nominal thickness of the sheets		Nominal Thickness: 12mm	
5.3.4	Tolerance on nominal dimensions			
5.3.4.1	Tolerance on length and width Tolerance on length and width shall be in accordance with Table 1, for the appropriate level.		Measured length: 2440.5mm Measured width: 1221.0mm Tolerance on length: 0.5mm Tolerance on width: 1.0mm Complied with Level I	
	Nominal Dimension a	Level I		Level II
	$a \leq 600\text{mm}$	$\pm 3\text{mm}$		$\pm 4\text{mm}$
	$600\text{mm} < a \leq 1000\text{mm}$	$\pm 3\text{mm}$		$\pm 5\text{mm}$
	$1000\text{mm} < a \leq 1600\text{mm}$	$\pm 0.3\%a$		$\pm 0.5\%a$
	$1600\text{mm} < a$	$\pm 5\text{mm}$		$\pm 8\text{mm}$
a is the nominal width or length				
5.3.4.2	Tolerance on thickness For non-textured sheets, tolerances shall be in accordance with Table 2.		Measured thickness: 12.16mm Tolerance on thickness: 0.16mm Max. deviation within one sheet: 0.49%	
	$e \leq 6\text{ mm}$	$\pm 0.6\text{ mm}$		
	$6\text{ mm} < e \leq 20\text{ mm}$	$\pm 10\% e$		
	$e > 20\text{ mm}$	$\pm 2\text{ mm}$		
For sheets without texture, the maximum difference between extreme values of the thickness measurements within one sheet shall not exceed 10 % of the maximum measured value.				
5.3.5	Tolerance on shape			
5.3.5.1	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.		Measured: max. 0.02% Complied with Level I	
	Level I	Level II		
	0.1%	0.3%		



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-001-R1

EN 12467:2012+A2:2018			
Fibre-cement flat sheets - Product specification and test methods			
Clause	Requirement - Test	Result - Remark	
5.3.5.2	Squareness of edges The tolerance on squareness of sheets shall be in accordance with table 5, for the appropriate level.	Measured: max. 0.02mm/m Complied with Level I	
	Level I		Level II
	2mm/m		4mm/m



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-001-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-001	2024-03-07	First issue
240125004SHF-001-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-001-R1 report, the original report 240125004SHF-001 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240415008SHF-001

TEST DATE(S)

2024-04-15 - 2024-05-13

ORIGINAL ISSUE DATE

2024-05-13

PAGES

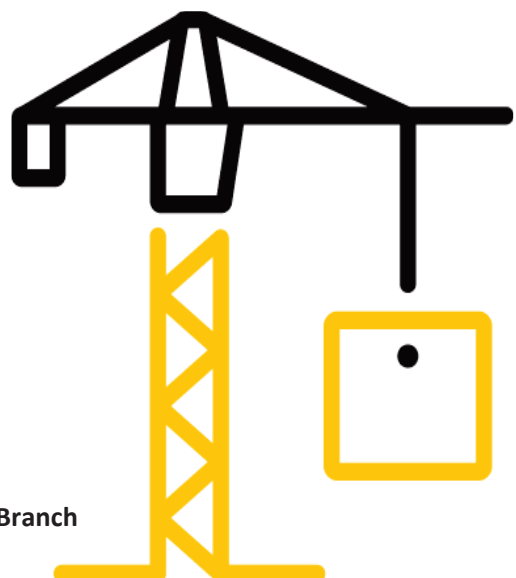
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10I(February 1, 2024)

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Test Report

Original Issue Date: 2024-05-13

Intertek Report No. 240415008SHF-001

Applicant: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240415008SHF.001	20 pcs	2024-04-15
Sample Description		
250mm×250mm×12mm		

Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 Section 5.5.2
Specification Standard	EN 12467:2012+A2:2018
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: Flora Fan Erin Huang
 Title: Reviewer Project Engineer



Test Report

Original Issue Date: 2024-05-13

Intertek Report No. 240415008SHF-001

Test Items, Method and Results:

EN 12467:2012+A2:2018 Fibre-cement flat sheets - Product specification and test methods			
5.5	Durability requirements		
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	For Category B RL=0.79	P

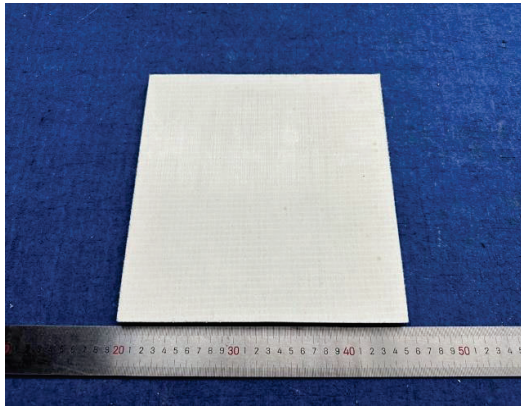


Test Report

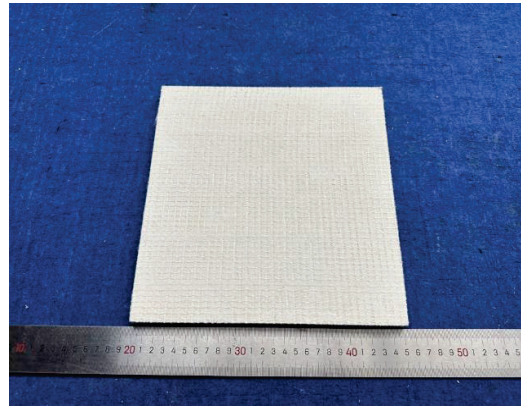
Original Issue Date: 2024-05-13

Intertek Report No. 240415008SHF-001

Appendix A: Sample Received Photo



Front view



Back view



Revision:

NO.	Date	Changes
240415008SHF-001	2024-05-13	First issue

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-010-R1

TEST DATE(S)

2024-01-25 - 2024-03-18

ORIGINAL ISSUE DATE

2024-03-18

REVISED DATE

2024-04-15

PAGES

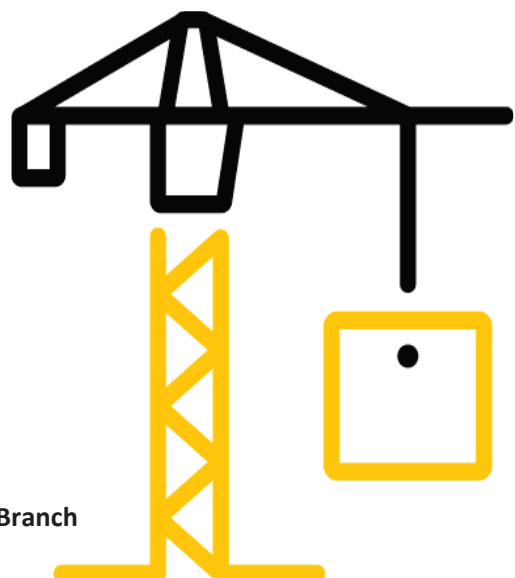
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Test Report

Original Issue Date: 2024-03-18 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-010-R1

Applicant: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.008	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		

Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.5.3
Specification Standard	/
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: Flora Fan Jackie Zhou
 Title: Reviewer Project Engineer

Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-010-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018		
Fibre-cement flat sheets - Product specification and test methods		
Clause	Requirement - Test	Result - Remark
5.5	Durability requirements	
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. a) Water tightness is tested according to 5.4.4. b) Warping and bowing are visually assessed.	For Category B No visible cracks, delamination, warping and bowing or other defects after 25 heat-rain cycles.



Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-010-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-010	2024-03-18	First issue
240125004SHF-010-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-010-R1 report, the original report 240125004SHF-010 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-007-R1

TEST DATE(S)

2024-01-25 - 2024-03-18

ORIGINAL ISSUE DATE

2024-03-18

REVISED DATE

2024-04-15

PAGES

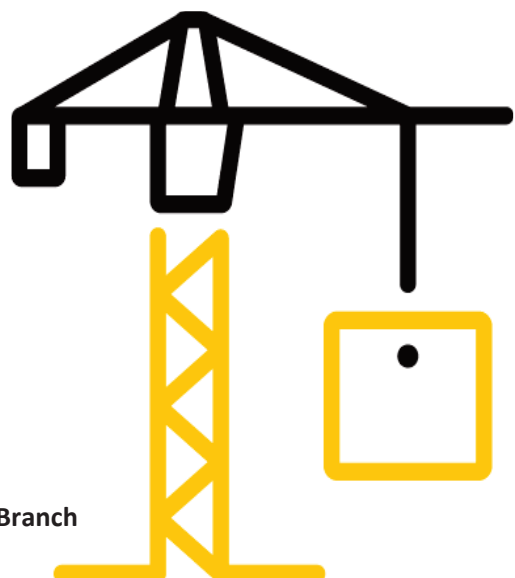
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Test Report

Original Issue Date: 2024-03-18 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-007-R1

Applicant: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products

Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.003	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		

Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.4.3
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.


Note:

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Report Authorized

Flora Fan *Jackie Zhou*

Name: Flora Fan Jackie Zhou
Title: Reviewer Title: Project Engineer



Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-007-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018 Fibre-cement flat sheets - Product specification and test methods		
Clause	Requirement - Test	Result - Remark
5.4	Physical requirement and characteristics	
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.	Parallel to the long dimension: 0.08% Perpendicular to the long dimension: 0.08%



Test Report

Original Issue Date: 2024-03-18

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-007-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-007	2024-03-18	First issue
240125004SHF-007-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-007-R1 report, the original report 240125004SHF-007 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-006-R1

TEST DATE(S)

2024-01-25 - 2024-03-04

ORIGINAL ISSUE DATE

2024-03-07

REVISED DATE

2024-04-15

PAGES

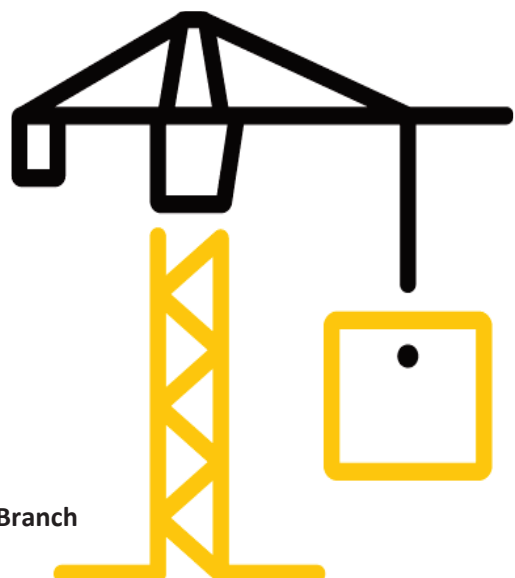
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Test Report

Original Issue Date: 2024-03-07 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-006-R1

Applicant: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.013	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		


Test Methods And Standards

Test Standard	EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)
Specification Standard	EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)
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: Flora Fan Name: Jackie Zhou
 Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-006-R1

Test Items, Method and Results:

Test method: By a combination of Inductively Coupled Argon Plasma Spectrometry, Gas Chromatography – Mass Spectrometry, Liquid Chromatography - Mass Spectrometry, UV-VIS Spectrophotometer, Gas Chromatography - Electron Capture Detector, Headspace Gas Chromatography - Mass Spectrometry and High-Performance Liquid Chromatography.

Test Result: (Substances in the Candidate List of SVHC)

No.	Chemical Substance	CAS No.	Results %(w/w)
-	Tested SVHCs in Chemical list	-	ND

Conclusion:

Tested Samples	Standard	Result
Submitted sample	EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)	Meet requirement

Note:

Reporting limit = 0.010% (w/w)

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Reporting limit = Quantitation limit of analyte in sample

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-Case

Test location: Central Chemical Lab of Intertek Testing Services Ltd., Wuxi

Address: No. 8, Fubei Road, Xishan Economic Development Zone, Wuxi, China



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-006-R1

240 SVHCs (effective on Jan 2024) and 1 proposed SVHC Testing list:

No.	Chemical Substance	CAS No.	No.	Chemical Substance	CAS No.
1	Cobalt Dichloride Δ	7646-79-9	21	Diisobutyl Phthalate (DIBP)	84-69-5
2	Diarsenic Pentaoxide Δ	1303-28-2	22	Coal Tar Pitch, High Temperature	65996-93-2
3	Diarsenic Trioxide Δ	1327-53-3	23	Anthracene Oil	90640-80-5
4	Lead Hydrogen Arsenate Δ	7784-40-9	24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4
5	Triethyl Arsenate Δ	15606-95-8			
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	26	Anthracene Oil, Anthracene-low	90640-82-7
8	Anthracene	120-12-7	27	Anthracene Oil, Anthracene Paste	90640-81-6
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	28	Acrylamide	79-06-1
10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6,	29	Boric Acid Δ	10043-35-3, 11113-50-1
		134237-51-7, 134237-52-	30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2			
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1
13	Dibutyl Phthalate (DBP)	84-74-2	32	Sodium Chromate Δ	7775-11-3
14	Benzyl Butyl Phthalate (BBP)	85-68-7	33	Potassium Chromate Δ	7789-00-6
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	34	Ammonium Dichromate Δ	7789-09-5
16	Lead Chromate Δ	7758-97-6	35	Potassium Dichromate Δ	7778-50-9
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	36	Trichloroethylene	79-01-6
			37	2-Methoxyethanol	109-86-4
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	38	2-Ethoxyethanol	110-80-5
19	Tris (2-Chloroethyl) Phosphate	115-96-8	39	Cobalt Sulphate Δ	10124-43-3
20	2,4-Dinitrotoluene	121-14-2	40	Cobalt Dinitrate Δ	10141-05-6

Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-006-R1

41	Cobalt Carbonate Δ	513-79-1	63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
42	Cobalt Diacetate Δ	71-48-7			
43	Chromium Trioxide Δ	1333-82-0	64	2-Methoxyaniline; o-Anisidine	90-04-0
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8
			66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
45	Strontium Chromate Δ	7789-06-2	67	Pentazinc chromate octahydroxide Δ	49663-84-5
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	68	Potassium hydroxyoctaoxodizincate dichromate Δ	11103-86-9
47	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	68515-42-4	69	Dichromium tris(chromate) Δ	24613-89-6
			48	Hydrazine	7803-57-8, 302-01-2
49	1-methyl-2-pyrrolidone	872-50-4			
50	1,2,3-trichloropropane	96-18-4			
51	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
52	Lead dipicrate Δ	6477-64-1	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
53	Lead styphnate Δ	15245-44-0			
54	Lead azide; Lead diazide Δ	13424-46-9	74	Diboron trioxide Δ	1303-86-2
55	Phenolphthalein	77-09-8	75	Formamide	75-12-7
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	76	Lead(II) bis(methanesulfonate) Δ	17570-76-2
57	N,N-dimethylacetamide (DMAC)	127-19-5	77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
58	Trilead diarsenate Δ	3687-31-8			
59	Calcium arsenate Δ	7778-44-1	78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6
60	Arsenic acid Δ	7778-39-4			
61	Bis(2-methoxyethyl) ether	111-96-6	79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
62	1,2-Dichloroethane	107-06-2			

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80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1		Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	85-42-7 13149-00-3 14166-21-3
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	91		
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0			
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5			
86	Pentacosafuorotridecanoic acid	72629-94-8			
87	Tricosafuorododecanoic acid	307-55-1	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--
88	Henicosafuoroundecanoic acid	2058-94-8			
89	Heptacosafuorotetradecanoic acid	376-06-7			
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	95	Methoxyacetic acid	625-45-6

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96	N,N-dimethylformamide	68-12-2	123	Tetralead trioxide sulphate Δ	12202-17-4
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	124	Trilead dioxide phosphonate Δ	12141-20-7
98	Lead monoxide (Lead oxide) Δ	1317-36-8	125	Furan	110-00-9
99	Orange lead (Lead tetroxide) Δ	1314-41-6	126	Diethyl sulphate	64-67-5
100	Lead bis(tetrafluoroborate) Δ	13814-96-5	127	Dimethyl sulphate	77-78-1
101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
102	Lead titanium trioxide Δ	12060-00-3	129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
103	Lead titanium zirconium oxide Δ	12626-81-2			
104	Silicic acid, lead salt Δ	11120-22-2	130	4,4'-methylenedi-o-toluidine	838-88-0
105	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped Δ [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	131	4,4'-oxydianiline and its salts	101-80-4
			132	4-aminoazobenzene	60-09-3
			133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
			134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
			135	Biphenyl-4-ylamine	92-67-1
			136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
			137	o-toluidine	95-53-4
106	1-bromopropane (n-propyl bromide)	106-94-5	138	N-methylacetamide	79-16-3
107	Methyloxirane (Propylene oxide)	75-56-9	139	Cadmium Δ	7440-43-9
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	140	Cadmium oxide Δ	1306-19-0
			141	Dipentyl phthalate (DPP)	131-18-0
109	Diisopentylphthalate (DIPP)	605-50-5	142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--
110	N-pentyl-isopentylphthalate	776297-69-9			
111	1,2-diethoxyethane	629-14-1			
112	Acetic acid, lead salt, basic Δ	51404-69-4			
113	Lead oxide sulfate Δ	12036-76-9			
114	[Phthalato(2-)] dioxotrilead Δ	69011-06-9			
115	Dioxobis(stearato)trilead Δ	12578-12-0			
116	Fatty acids, C16-18, lead salts Δ	91031-62-8			
117	Lead cyanamidate Δ	20837-86-9			
118	Lead dinitrate Δ	10099-74-8			
119	Pentalead tetraoxide sulphate Δ	12065-90-6	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
120	Pyrochlore, antimony lead yellow Δ	8012-00-8			
121	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
122	Tetraethyllead Δ	78-00-2			

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145	Cadmium sulphide Δ	1306-23-6			
146	Lead di(acetate) Δ	301-04-2			
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	163	5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--
149	Dihexyl phthalate	84-75-3			
150	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7			
151	Trixylyl phosphate	25155-23-1	164	1,3-Propanesultone	1120-71-4
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1
153	Cadmium chloride Δ	10108-64-2			
154	Sodium perborate; perboric acid, sodium salt Δ	15120-21-5, 11138-47-9	166	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
155	Sodium peroxometaborate Δ	7632-04-4			
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	167	Nitrobenzene	98-95-3
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8
			170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7
159	Cadmium fluoride Δ	7790-79-6			
160	Cadmium sulphate Δ	10124-36-4; 31119-53-6			
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[[2-ethylhexyl]oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	--	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2 Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7 Decanoic acid, nonadecafluoro-, sodium salt EC no.: -- CAS no.: 3830-45-3	--

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172	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--	190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride) (TMA)	552-30-7
			191	Dicyclohexyl phthalate (DCHP)	84-61-7
			192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
			193	Benzo[k]fluoranthene	207-08-9
			194	Fluoranthene	206-44-0
			195	Phenanthrene	85-01-8
173	p-(1,1-dimethylpropyl)phenol	80-46-6	196	Pyrene	129-00-0
174	Perfluorohexane-1-sulphonic acid and its salt (PFHxS)	--	197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8
175	Benz[a]anthracene	56-55-3			
176	Cadmium nitrate Δ	10325-94-7			
177	Cadmium carbonate Δ	513-78-0			
178	Cadmium hydroxide Δ	21041-95-2	198	4-tert-butylphenol (PTBP)	98-54-4
179	Chrysene	218-01-9			
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	--			
			200	2-methoxyethyl acetate	110-49-6
			201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	--
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with \geq 0.1% w/w 4-heptylphenol, branched and linear]	--	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1
			203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
			204	Diisohexyl phthalate	71850-09-4
			205	Perfluorobutane sulfonic acid (PFBS) and its salts	--
182	Octamethylcyclotetrasiloxane (D4)	556-67-2			
183	Decamethylcyclopentasiloxane (D5)	541-02-6			
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	206	1-vinylimidazole	1072-63-5
185	Lead	7439-92-1	207	2-methylimidazole	693-98-1
186	Disodium octaborate Δ	12008-41-2	208	Butyl 4-hydroxybenzoate	94-26-8
187	Benzo[ghi]perylene	191-24-2	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4
188	Terphenyl hydrogenated	61788-32-7			
189	Ethylenediamine (EDA)	107-15-3	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8

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211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety Δ		220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	--
			221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1
212	1,4-dioxane	123-91-1			
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	222	S-(tricyclo(5.2.1.0' ² ,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate Δ	255881-94-8
			223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4
			224	N-(hydroxymethyl)acrylamide	924-42-5
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers		225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7
216	Glutaral	111-30-8	227	4,4'-sulphonyldiphenol	80-09-1
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]		228	Barium diboron tetraoxide Δ	13701-59-2
			229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--
			230	Isobutyl 4-hydroxybenzoate	4247-02-3
218	Orthoboric acid, sodium salt Δ	13840-56-7	231	Melamine	108-78-1
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)		232	Perfluoroheptanoic acid and its salts	--
			233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	--

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No.	Chemical Substance	CAS No.	No.	Chemical Substance	CAS No.
234	bis(4-chlorophenyl) sulphone (BCPS)	80-07-9	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4
235	Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8			
236	2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	239	Bumetrizole (UV-326)	3896-11-5
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol (OAPP)	-

Tested proposed SVHC Chemicals list (Substance in the list of 1 chemical in the draft Commission Implementing Decision proposed by European Commission, and published as Notification G/TBT/N/EU/803 on World Trade Organization (WTO) on 1 June 2021)

No.	Chemical Substance	CAS No.
1	Resorcinol	108-46-3

REACH requirement:

1. Substances of very high concern (SVHC) are classified as:
 - (a) Carcinogenicity category 1A or 1B;
 - (b) Germ cell mutagenicity category 1A or 1B;
 - (c) Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
 - (d) Persistent, bioaccumulative and toxic (PBT)
 - (e) Very persistent and very bioaccumulative (vPvB)
 - (f) Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disruptors

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2. As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:
 - (a) Identity and contact details of the producer or importer;
 - (b) Registration number(s), if available;
 - (c) Identity of the substance;
 - (d) Classification of the substance(s);
 - (e) Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
 - (f) Tonnage range of the substance(s).
3. As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.
4. As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).
5. As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.
6. As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Waste Framework Directive (WFD) Requirement:

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.

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Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-006	2024-03-07	First issue
240125004SHF-006-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-006-R1 report, the original report 240125004SHF-006 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-003-R1

TEST DATE(S)

2024-01-25 - 2024-03-01

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2024-03-07

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PAGES

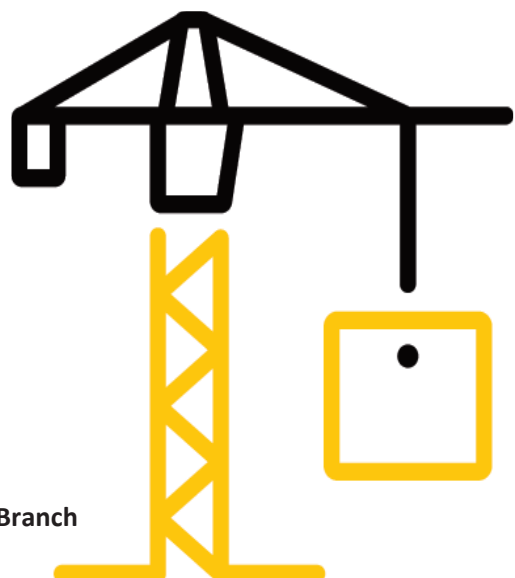
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Test Report

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Test Report

Original Issue Date: 2024-03-07 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-003-R1

Applicant: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.005	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		


Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.4.5
Specification Standard	/
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: Flora Fan Jackie Zhou
 Title: Reviewer Project Engineer

Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-003-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018		
Fibre-cement flat sheets - Product specification and test methods		
Clause	Requirement - Test	Result - Remark
5.4	Physical requirement and characteristics	
5.4.5	Water impermeability for Categories A, B and D When tested in accordance with 7.3.3, traces of moisture may appear on the under face of the sheet, but in no instance shall there be any formation of drops of water.	For Category B The traces of moisture was appeared on the under face of the sheet. No any formation of drops of water



Test Report

Original Issue Date: 2024-03-07

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-003-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-003	2024-03-07	First issue
240125004SHF-003-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-003-R1 report, the original report 240125004SHF-003 was cancelled at the same time.

TEST REPORT

SCOPE OF WORK

MAGNESIUM OXIDE BOARD

REPORT NUMBER

240125004SHF-012-R1

TEST DATE(S)

2024-01-25 - 2024-03-21

ORIGINAL ISSUE DATE **[REVISED DATE]**

2024-03-21 2024-04-15

PAGES

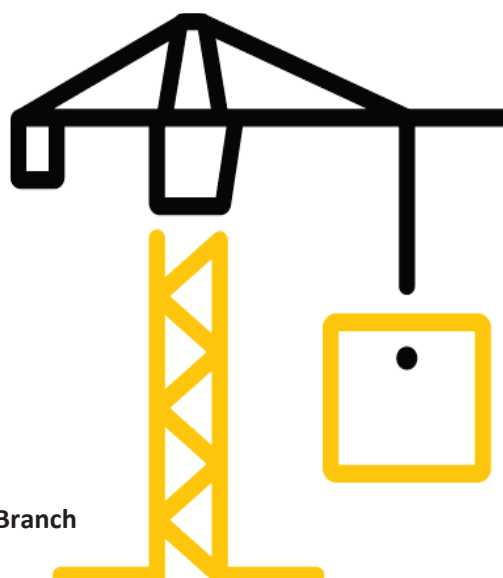
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Test Report

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- 7.If the Client has any questions about the test results, Intertek B&C should be informed within the storage period of the samples. The sample storage period ends 5 working days after the official report issue date. Samples of certification program are retained for the period required by the certification rules. The samples storage period shall be calculated according to the issue date of the original report in the case of quoting results and modifying reports.
- 8.Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.
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Test Report

Original Issue Date: 2024-03-21 Revised Date: 2024-04-15 Intertek Report No. 240125004SHF-012-R1

Applicant: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Manufacturer: Ambient Building Products
Address: 8230 Preston Ct Ste C, Jessup, MD 20794

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
MAGNESIUM OXIDE BOARD	/	1220mm*2440mm*12mm
Sample ID	Sample Amount	Sample Received Date
S240125004SHF.006	1 package	2024-01-23
Sample Description		
1220mm*2440mm*12mm		


Test Methods And Standards

Test Standard	EN 12467:2012+A2:2018 5.4.6
Specification Standard	/
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



Flora Fan *Jackie Zhou*

 Name: Flora Fan Name: Jackie Zhou

 Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2024-03-21

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-012-R1

Test Items, Method and Results:

EN 12467:2012+A2:2018		
Fibre-cement flat sheets - Product specification and test methods		
Clause	Requirement - Test	Result - Remark
5.4	Physical requirements and characteristics	
5.4.6	Water vapour permeability for Category D For flat sheets used as rigid underlays, the water vapour resistance value μ shall be determined according to 7.3.4 and shall be specified in the manufacturer's literature. The μ value obtained from the test shall not be higher than the value specified by the manufacturer.	Specified value, μ : 12.8 Water vapor resistance factor, μ : 12.4



Test Report

Original Issue Date: 2024-03-21

Revised Date: 2024-04-15

Intertek Report No. 240125004SHF-012-R1

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240125004SHF-012	2024-03-21	First issue
240125004SHF-012-R1	2024-04-15	Revised the product name as per applicant's requirement.

Note: Since the issue date of 240125004SHF-012-R1 report, the original report 240125004SHF-012 was cancelled at the same time.