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	REVISED DATE
2024-03-07	2024-04-15

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DOCUMENT CONTROL NUMBER
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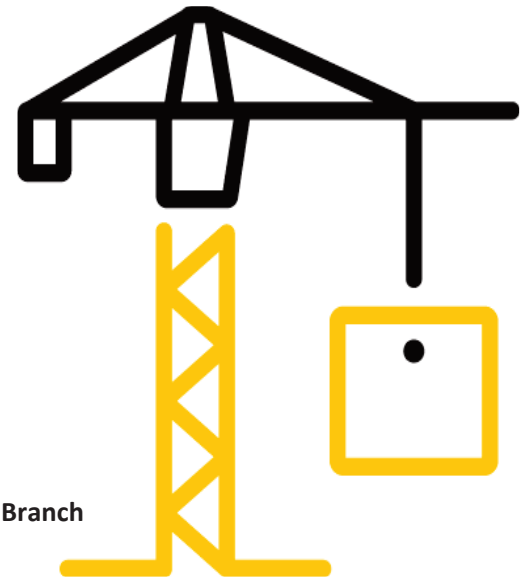

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

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 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-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	$\Delta T \leq 30$℃; and $\Delta m \leq 50\%$; and $t_f = 0$ s (i.e. no sustained flaming)	--
	EN ISO 1716	PCS ≤2.0 MJ/kg [a] and PCS ≤ 2.0 MJ/kg [b] and PCS ≤ 1.4 MJ/m^2 [c] and PCS ≤ 2.0 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 **REVISED DATE**
2024-03-18 2024-04-15

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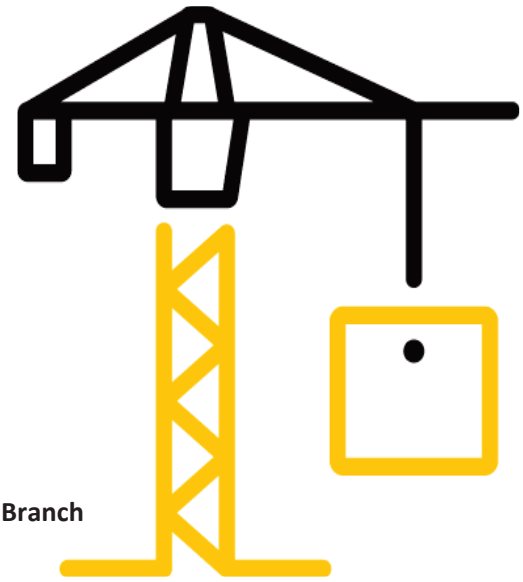

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

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Website: www.intertek.com

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 Name: Jackie Zhou

Title: Reviewer Title: Project Engineer

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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 **REVISED DATE**
2024-03-07 2024-04-15

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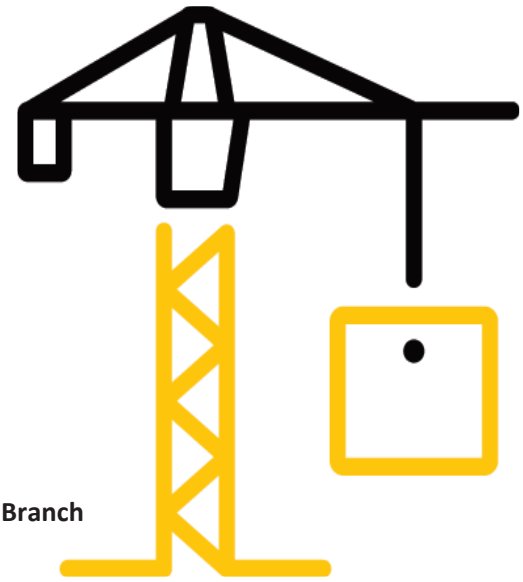

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Website: www.intertek.com

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]
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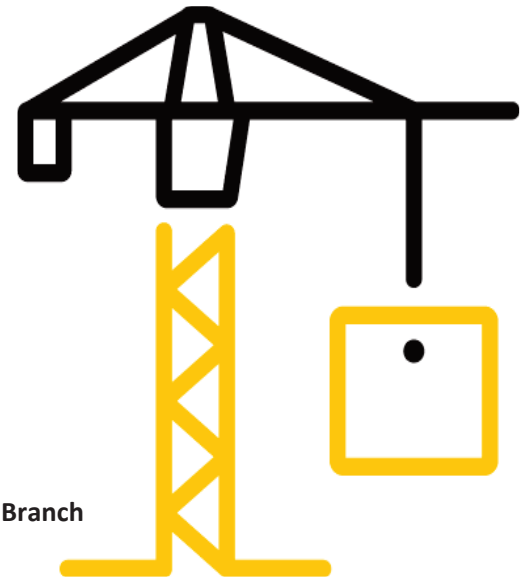

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Test Report

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

Name: Flora Fan Name: Jackie Zhou

Title: Reviewer Title: Project Engineer

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Test Report

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

Test Items, Method and Results:

<table>
<tr><th colspan="5">EN 12467:2012+A2:2018
Fibre-cement flat sheets - Product specification and test methods</th></tr>
<tr><td>Clause</td><td colspan="3">Requirement - Test</td><td>Result - Remark</td></tr>
<tr><td>5.4</td><td colspan="4">Physical requirement and characteristics</td></tr>
<tr><td rowspan="8">5.4.4</td><td colspan="3">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.</td><td rowspan="8">For Category B
Wet condition:
average 10.2 MPa
minimum 9.1 MPa
Class 2</td></tr>
<tr><td colspan="2">min. MOR in the wet condition
Mpa</td><td colspan="2">min. MOR in the ambient laboratory conditions
Mpa</td></tr>
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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	REVISED DATE
2024-03-07	2024-04-15

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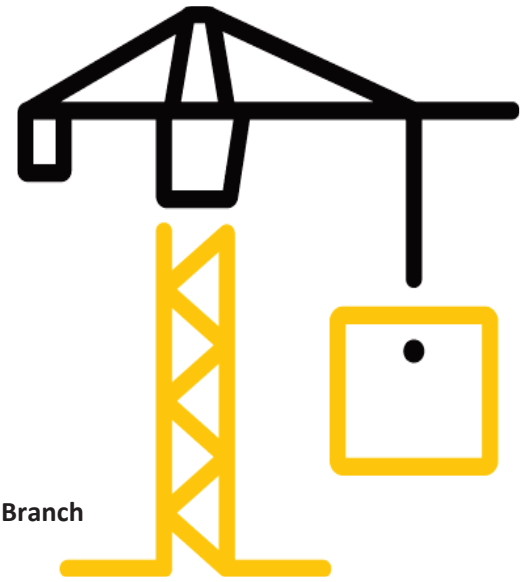

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Website: www.intertek.com

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.

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

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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≤600mm	±3mm	±4mm	
	600mm＜a≤1000mm	±3mm	±5mm	
	1000mm＜a≤1600mm	±0.3%a	±0.5%a	
	1600mm＜a	±5mm	±8mm	
	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 ⩽ 6 mm	± 0.6 mm		
	6 mm < e ⩽ 20 mm	± 10 % e		
	e > 20 mm	± 2 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

<table>
<tr><th colspan="4">EN 12467:2012+A2:2018
Fibre-cement flat sheets - Product specification and test methods</th></tr>
<tr><td>Clause</td><td colspan="2">Requirement - Test</td><td>Result - Remark</td></tr>
<tr><td rowspan="3">5.3.5.2</td><td colspan="2">Squareness of edges
The tolerance on squareness of sheets shall be in accordance with table 5, for the appropriate level.</td><td rowspan="3">Measured: max. 0.02mm/m
Complied with Level I</td></tr>
<tr><td>Level I</td><td>Level II</td></tr>
<tr><td>2mm/m</td><td>4mm/m</td></tr>
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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-10l(February 1, 2024)
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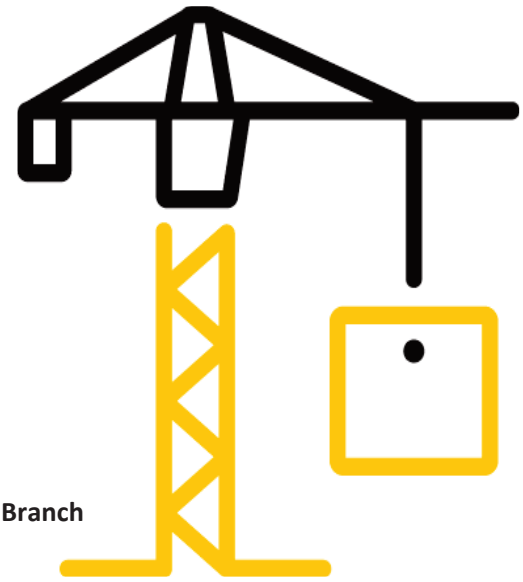

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

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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.

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

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 Name: Erin Huang
Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2024-05-13 Intertek Report No. 240415008SHF-001

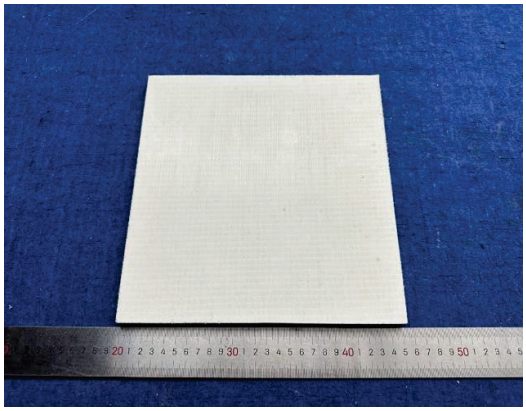
Test Items, Method and Results:

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

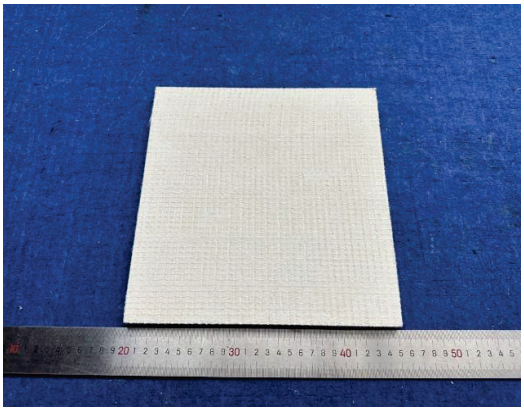
Test Report

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 **REVISED DATE**
2024-03-18 2024-04-15

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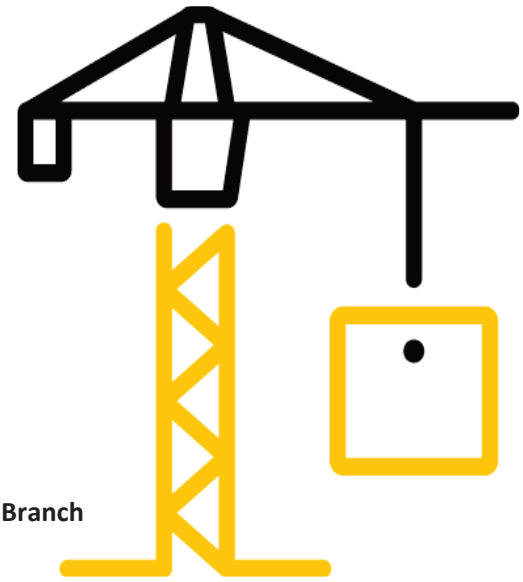

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Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

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 Name: Jackie Zhou

Title: Reviewer Title: Project Engineer

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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 **REVISED DATE**
2024-03-18 2024-04-15

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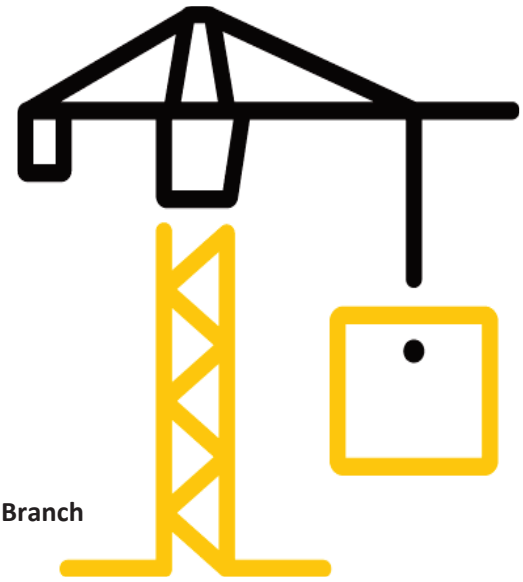

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Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

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:

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

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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 **REVISED DATE**
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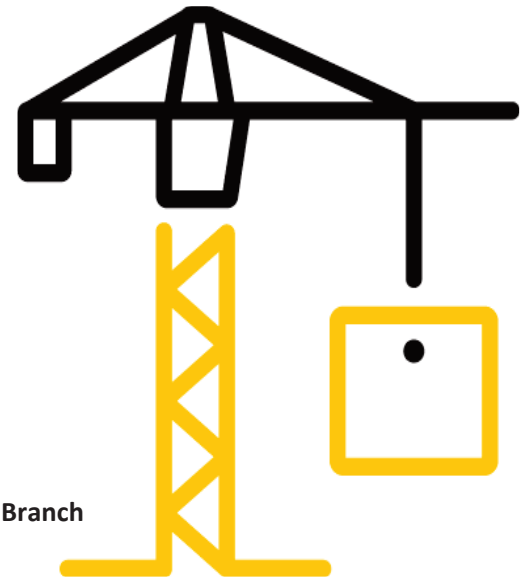

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Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

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

Flora Fan Jackie Zhou

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

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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, 134237-51-7, 134237-52-	29	Boric Acid Δ	10043-35-3, 11113-50-1
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4
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

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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 di-chromate 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
			70	Aluminosilicate Refractory Ceramic Fibres Δ	Index No. 650-017-00-8
48	Hydrazine	7803-57-8, 302-01-2			
49	1-methyl-2-pyrrolidone	872-50-4	71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	Index No. 650-017-00-8
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	91	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 ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9			
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ⩾ 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 ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michl* er's base (EC No. 202-959-2)]	6786-83-0			
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol *[with ⩾ 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	Pentacosafluorotridecanoic acid	72629-94-8	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--
87	Tricosafluorododecanoic acid	307-55-1			
88	Henicosafluoroundecanoic acid	2058-94-8			
89	Heptacosafluorotetradecanoic 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 ($H_2Si_2O_5$), 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	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
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	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]	--
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0			
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	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	--
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)	--			

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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 nitrateΔ	10325-94-7			
177	Cadmium carbonateΔ	513-78-0	198	4-tert-butylphenol (PTBP)	98-54-4
178	Cadmium hydroxideΔ	21041-95-2	199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--
179	Chrysene	218-01-9			
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”TM) [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 ⩾ 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 ⩾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
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	205	Perfluorobutane sulfonic acid (PFBS) and its salts	--
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 octaborateΔ	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	Dioctyltin 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)	--
212	1,4-dioxane	123-91-1	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1
213	2,2-bis(bromomethyl)propane1,3-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-diylbisoxy]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 tetraoxideΔ	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	239	Bumetrizole (UV-326)	3896-11-5
236	2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3			
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 disrupters

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.

Test Report

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

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

ORIGINAL ISSUE DATE **REVISED DATE**
2024-03-07 2024-04-15

PAGES
5

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10l(February 1, 2024)
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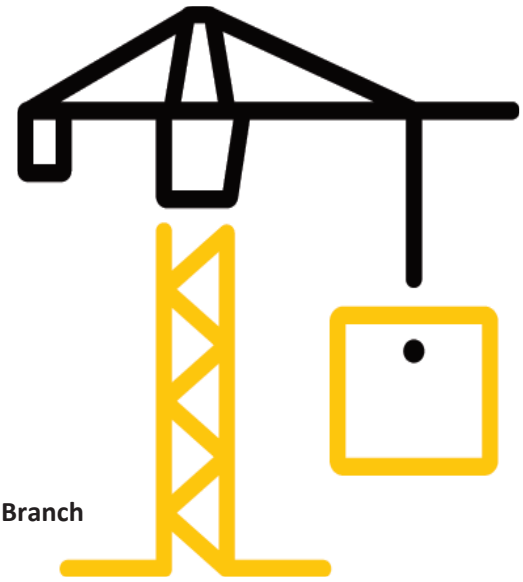

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

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 Name: Jackie Zhou

Title: Reviewer Title: Project Engineer

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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

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5

DOCUMENT CONTROL NUMBER
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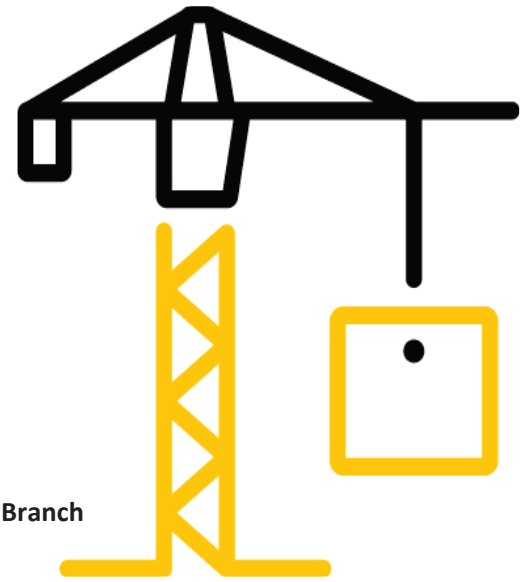

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Website: www.intertek.com

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

Name: Flora Fan

Title: Reviewer

Jackie Zhou

Name: Jackie Zhou

Title: Project Engineer

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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.

ICC EVALUATION SERVICE®

ICC-ES TEST REPORT

ASTM E84-24

RENDERED TO: Ambient Building Products, Inc.
8320 Preston Ct Ste C
Jessup, MD 20794

PRODUCT: ***Mag Panel MgO Board***

Report No.: ABPI101524-92
Test Date(s): 10/30/2024
Report Date: 11/01/2024
Pages: 11

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2.0 Referenced Standards 4

3.0 Summary of Results 4

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1.0 General Information

1.1 Product

Mag Panel MgO Board

1.2 Project Summary

ICC-ES was contracted by Ambient Building Products, Inc. to evaluate Mag Panel MgO Board in accordance with ASTM E84-24. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at ICC-ES's facility in Bryan, TX.

1.3 Product Description

ASTM E84-24

Product Name:	**Mag Panel MgO Board**
Product type:	**MgO Board**
Product Use:	**Interior**
Model Name/Sample Number:	**Sample 1**
Sample Description:	**(3) ½-in x 24-in x 96-in**
Color:	**White**
Sample Length:	**288-in**
Sample Width:	**24-in**
Thickness:	**½-in**
Total Weight:	**112.5 lbs.**
Sample Received Date:	**10/24/2024**
Days in Conditioning:	**6**

1.4 Qualifications

ICC-ES in Bryan, TX has demonstrated compliance with ISO/IEC 17025 and is consequently accredited as a Testing Laboratory. ICC-ES is accredited to perform all testing reported herein.

1.5 Product Sampling

No evidence was provided that a third-party agency sampled materials for the testing reported herein. All test specimens were supplied by Ambient Building Products, Inc.. As needed, ICC-ES provided commonly-available construction materials and assembled each specimen to the client's specifications, and where applicable, average quality lumber was used in the construction of specimens.

1.6 Witnessing

No representative of Ambient Building Products, Inc. witnessed the testing reported herein.

1.7 Conditions of Testing

Unless otherwise indicated, all testing reported herein was conducted in a laboratory set to maintain temperature in the range of 65-80°F and humidity in the range of 45-60% RH. All test specimen materials were stored in the laboratory conditioning room of 73.4 ± 5°F and at a relative humidity of 50 ± 5% environment for no less than 24 hours prior to testing. The test specimens were conditioned for **6** days and obtained steady state.

2.0 Referenced Standards

ASTM E84-24 Standard Test Method for Surface Burning Characteristics of Building Materials.

3.0 Summary of Results

Flame Spread Index – 0

Smoke Developed Index – 5

3.1 General

This fire-test–response standard for the comparative surface burning behavior of building materials is applicable to exposed surfaces such as walls and ceilings. This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

3.2 Test Specimens

The samples submitted by the manufacturer was identified as Mag Panel MgO Board and was supplied in the form of (3) ½-in x 24-in x 96-in. They were received without damage.

3.3 Test Setup and Procedure

The product(s) were setup and evaluated in accordance with ASTM E84-24.

Substrate Used:	**N/A**
Mounting Method:	**Standard**
Support Used:	**N/A**
Side Exposed:	**Smooth Side**
Adhesive Used & Coverage Rate (if Applicable):	**N/A**
Cement Board Used to Cover Sample (Y/N):	**Yes**
Sample Continuous or Sectioned:	**Sectioned**
No. & Size of Sections:	**(3) ½-in x 24-in x 96-in**
Lab Ambient Temp (°F):	**74**
Lab Ambient RH (%):	**64**
Date Tested:	**10/30/2024**

3.4 Test Results

TEST DATA

Time to Ignition (mm/ss):	00:00
Maximum Flame Spread (ft):	0.000
Time to Max Flame Spread (mm/ss):	00:00
Maximum Temperature (°F):	532
Time to Max Temperature (mm/ss):	09:53
Total Fuel Burned (cubic feet):	44.684
Flame Spread*Time Area (ft*min):	0.000
Smoke Area (%A*min):	4.837
Unrounded FSI:	0.000
Unrounded SDI:	7.270

TEST OBSERVATIONS

05:17	Observed discoloration
08:00	Observed discoloration increase

POST-TEST OBSERVATIONS

0 – 8 ft	Section had cracking and discoloration
8 – 16 ft	Section had little discoloration
16 – 24 ft	Section had little discoloration

Analysis on Classification Criteria

Based on Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL 723. Three classes of interior finish are specified by the International Building Code (IBC) that describes a set of classification criteria required for interior wall and ceiling finish materials. The classification criteria for all three model codes is the same: ASTM E84 and UL 723 do not include classification criteria for the results obtained from testing.

Class	Flame Spread Index	Smoke Developed Index
A	0-25	0-450
B	26-75	0-450
C	76-200	0-450

4.0 Closing Statement

This report contains only findings and results arrived at after employing the specific test procedures listed herein. It does not constitute a recommendation for, endorsement of, or certification of the product or material tested. Unless differently required, ICC-ES reports apply the "Simple Acceptance" rule, also called "Shared Risk approach", of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity. ICC-ES makes no warranty, expressed or implied, except that the test has been performed, and a report prepared, based upon the specimen specified by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC-ES assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC-ES has no control. ICC-ES has issued this report for the exclusive use of the client to whom it is addressed. Any use or duplication of this report shall not be made without their consent. This report shall only be reproduced in its entirety.

For ICC-ES, LLC:

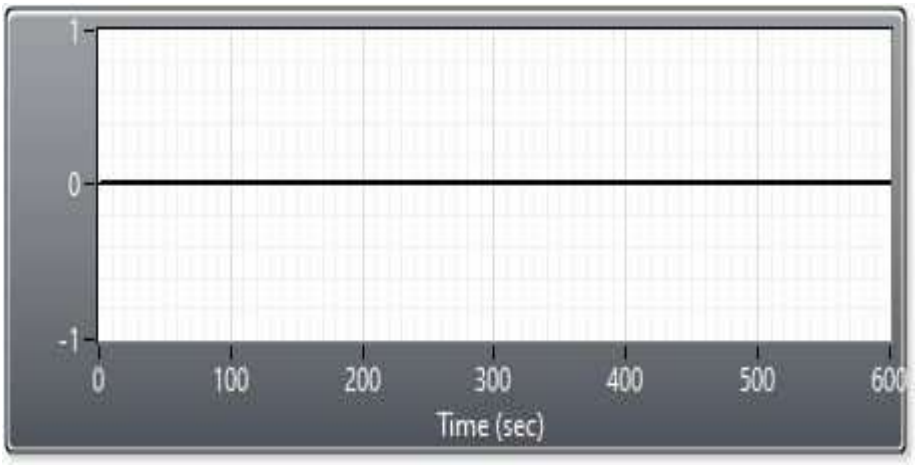
Brent Mynar

Tested by: Brent Mynar 11/01/2024
Project Manager

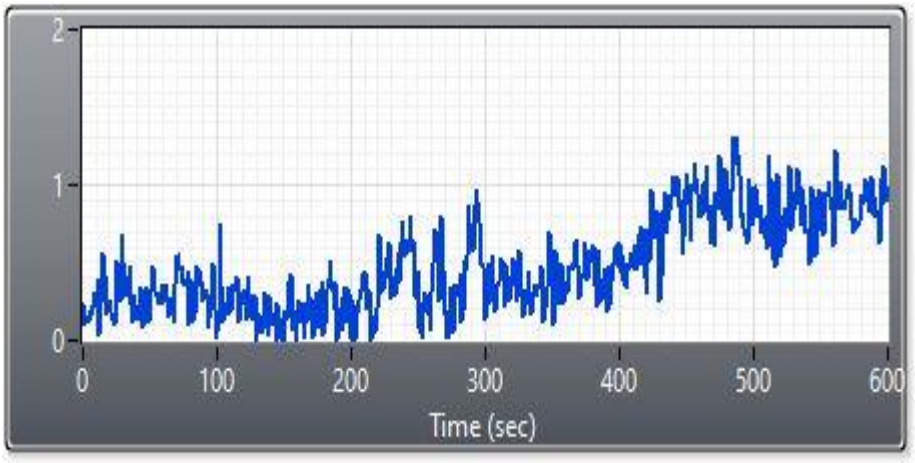
Gabriel Parra

Reviewed by: Gabriel Parra 11/01/2024
Project Engineer

FLAME SPREAD



SMOKE (%A)



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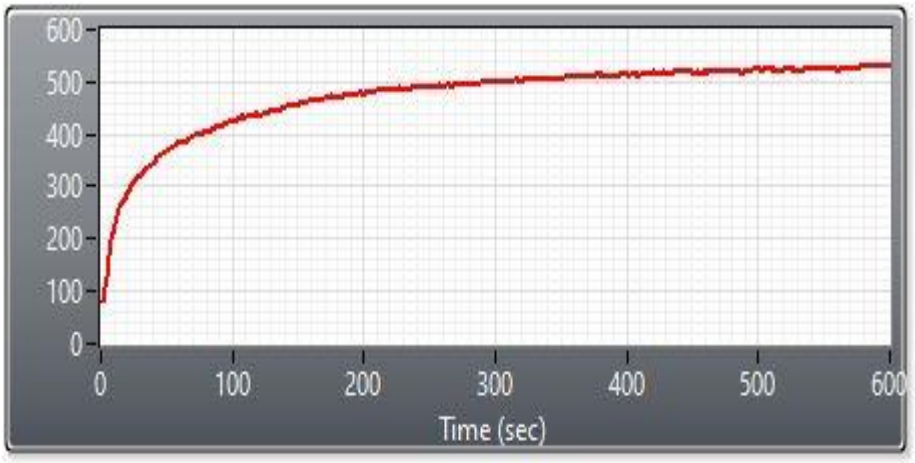

Appendix B - Photographs

Photo No. 1
Sample Marking

Photo No. 2
Pre-Test Exposed Side

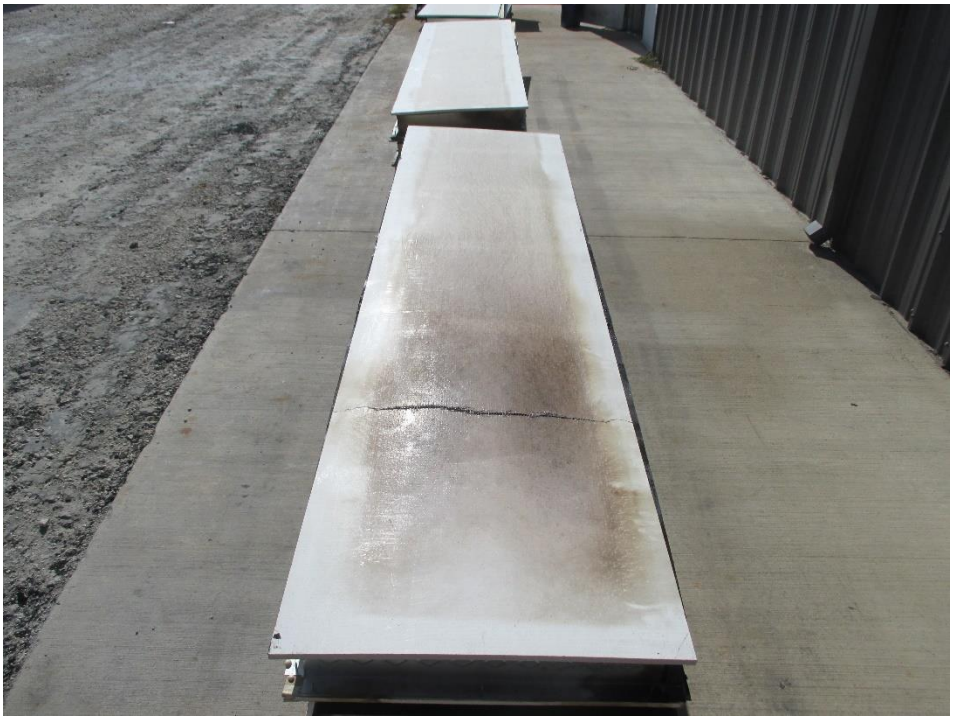

Photo No. 3
Post-Test Exposed Side

Photo No. 4
Post-Test Exposed Side (Continued)

Appendix C - Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	11/01/2024	N/A	Original report issue

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	REVISED DATE
2024-03-07	2024-04-15

PAGES
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DOCUMENT CONTROL NUMBER
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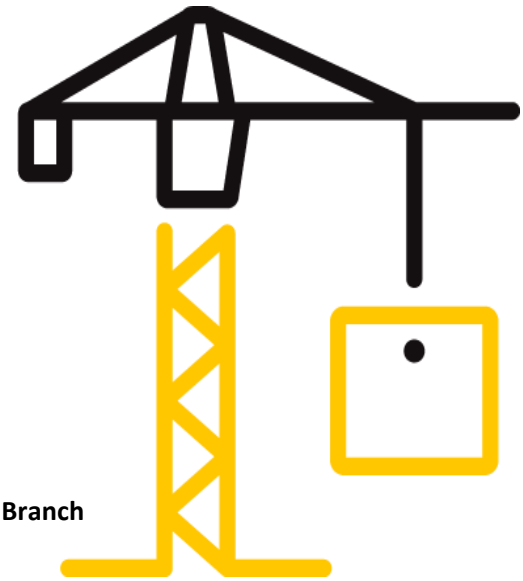

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Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

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

Flora Fan Jackie Zhou

Name: Flora Fan Name: Jackie Zhou

Title: Reviewer Title: Project Engineer

INTERTEK TESTING SERVICES SHENZHEN LTD. SHANGHAI FENGXIAN BRANCH 检验检测专用章

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

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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, 134237-51-7, 134237-52-	29	Boric Acid Δ	10043-35-3, 11113-50-1
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4
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

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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 di-chromate 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
			70	Aluminosilicate Refractory Ceramic Fibres Δ	Index No. 650-017-00-8
48	Hydrazine	7803-57-8, 302-01-2			
49	1-methyl-2-pyrrolidone	872-50-4	71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	Index No. 650-017-00-8
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	91	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 ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9			
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ⩾ 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 ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michl* er's base (EC No. 202-959-2)]	6786-83-0			
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol *[with ⩾ 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	Pentacosafluorotridecanoic acid	72629-94-8	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--
87	Tricosafluorododecanoic acid	307-55-1			
88	Henicosafluoroundecanoic acid	2058-94-8			
89	Heptacosafluorotetradecanoic 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 ($H_2Si_2O_5$), 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	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
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	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]	--
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0			
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	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	--
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)	--			

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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 nitrateΔ	10325-94-7			
177	Cadmium carbonateΔ	513-78-0	198	4-tert-butylphenol (PTBP)	98-54-4
178	Cadmium hydroxideΔ	21041-95-2	199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--
179	Chrysene	218-01-9			
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”TM) [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 ⩾ 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 ⩾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
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	205	Perfluorobutane sulfonic acid (PFBS) and its salts	--
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 octaborateΔ	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	Dioctyltin 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)	--
212	1,4-dioxane	123-91-1	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1
213	2,2-bis(bromomethyl)propane1,3-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-diylbisoxy]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 tetraoxideΔ	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	239	Bumetrizole (UV-326)	3896-11-5
236	2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol (OAPP)	-
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9			

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 disrupters

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.

Test Report

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

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

REPORT NUMBER: 170323003SHF-BP-3

ORIGINAL ISSUE DATE: 2017/4/24

EVALUATION CENTER

Intertek Testing Services Ltd., Shanghai

Plant 7, No. 6958 Daye Road, Fengxian District, Shanghai, China

RENDERED TO

Magpanel MGO (Ambient Building Products)

8230 Preston Ct Ste C, Jessup, MD 20794

PRODUCT EVALUATED

Magnesium Oxide Board

EVALUATION PROPERTY

As requested by the applicant, for details refer to attached pages(s).

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Report Template Revision Date: 2016/9/1

Test Report

Report Number: 170323003SHF-BP-3
Report Date: 2017-04-24

Applicant:	**Magpanel MGO (Ambient Building Products)**
Applicant Address:	**8230 Preston Ct Ste C, Jessup, MD 20794**
Attn:	**Roger**

Sample information:

Product:	Magnesium Oxide Board
Model:	/
Specification:	12mm thickness
Sample Quantity:	5 pcs
Sample ID:	S170323003SHF-011~015
Date Received:	2017/3/21
Date Test Conducted:	2017/3/23 ~ 2017/4/24

Conclusion:

For details refer to attached page(s).

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

Test Report

Report Number: 170323003SHF-BP-3

Report Date: 2017-04-24

Test Items, Method and Results：

ICC-ES AC 386-2007 Acceptance criteria for fiber-reinforced magnesium-oxide-based sheets				
Test item	Test method	Required	Result	Verdict
Nail-head pull through	ASTM D1037-12	⩾ 560N	1817 N	Pass

Note:

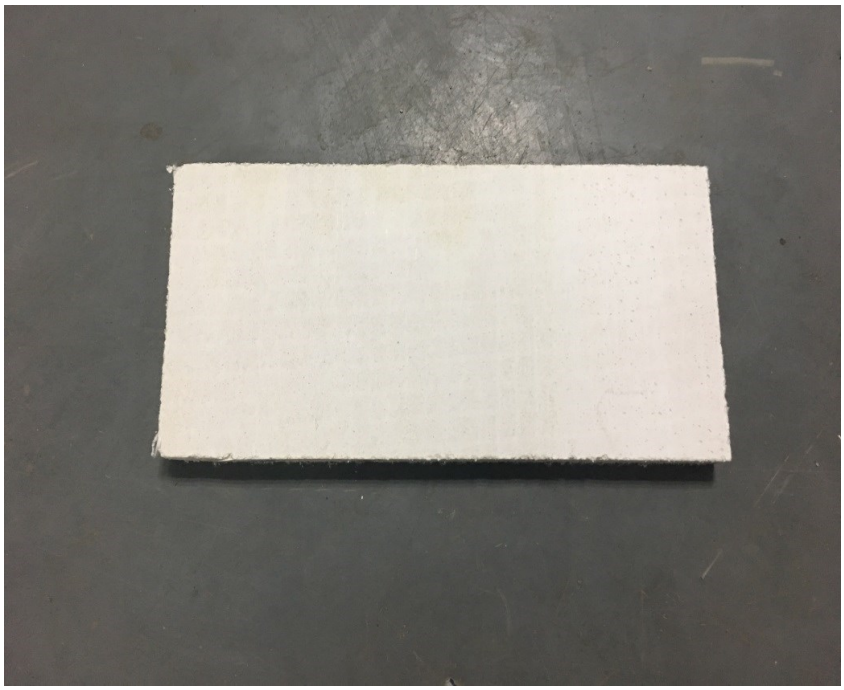
1. The roofing nail with a 10mm diameter head and a shank diameter of 3mm.

Test Report

Report Number: 170323003SHF-BP-3

Report Date: 2017-04-24

Appendix A: Sample received photo



Approved by:

Name: Sun Sun	Name: Jodie Zhou	Name: Mason Wang
Title: Approver	Title: Reviewer	Title: Project Engineer

****

The End of Report

ASTM E136 TESTING
FOR
AMBIENT
ON
MAGPANEL MGO ½" SAMPLES
VTEC #100-8804
TESTED: DECEMBER 17, 2025

VTEC Laboratories Inc.

December 18, 2025

Client: Magpanel / Ambient
1440 Desoto Rd
Baltimore, MD 21230

Attn: Testing Coordinator

Scope:
This report contains the reference to the test method, conditioning of sample, description of material, and test results.

Test Method:
This test was conducted in accordance with ASTM E136, "Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C".

Passing Criteria:
At least three of the four specimens tested exhibit:

1. Less than 50% weight loss
2. No flaming after the first 30 seconds
3. The recorded temperatures of the surface and interior thermocouples do not at any time during the test rise more than 30°C above the stabilized temperature of the furnace.

Disclaimer: This is a factual report of the results obtained from the laboratory test of sample products. The results may be applied only to the products tested and should not be constructed as applicable to other similar products of the manufacture. The report is not a recommendation or a disapprobation by VTEC Laboratories, Inc. of the material tested. While this report may be used for obtaining product acceptance, it may not be used in advertising.

Notice: VTEC Laboratories Inc. will not be liable for any loss or damage resulting from the use of the data in this report, in excess of the invoice. This report pertains to the sample tested only. Such report shall not be interpreted to be a warranty, either expressed or implied as to the suitability or fitness of said sample for such uses or applications, as the party contracting for the report may apply such sample.

Material Tested:

1) Supplier: Magpanel MGO / Ambient
2) Product Description: Magpanel MGO 1/2" Samples
3) Specimen Dimensions: 4 pieces 1.5” x 1.5” x 0.5” stacked
4) Specimen Composition: Heterogeneous
4) Color: White
5) Conditioning: The specimens were conditioned according to the ASTM E136 specification.

Results:

Sample #	Weight Before (grams)	Weight After (grams)	Final Center Temperature (deg.C)	Final Surface Temperature (deg.C)	Weight Loss (percent)	Flaming After First 30 Seconds?
1	81.7	55.6	690	751	32%	No
2	81.0	55.4	653	751	32%	No
3	81.6	55.9	652	749	32%	No
4	81.9	56.0	671	750	32%	No
Average:	**81.6**	**55.7**	**666.7**	**750.2**	32%	

Conclusion:

In accordance with ASTM E136 criteria, the material PASSES and is verified as non-combustible; this also directly satisfies 2015 IBC Section 703.5.1 requirements

_____
Neil Schultz
Executive Director

_____
Amirudin Rahim
Technical Director

Reporting Laboratory:
Benchmark International, LLC (BMI)
2710 West 5th Avenue
Eugene, Oregon, USA 97402
Phone: +1 (541) 484-9212 / FAX: +1 (541) 344-2735

TESTING CONDUCTED ON BEHALF OF THE NAMED CLIENT BELOW:

Magpanel MGO/Ambient Building Products
1440 Desoto Rd.
Baltimore, MD 21230 USA

REPORT INFORMATION:

Report Date:	December 31, 2025
BMI Client/Project Number:	0721473
Report of:	Raw Panel Indicator
BMI Lab Report Number:	0721473-54
Sample ID Number(s):	2025-1096

ASTM D6007-14 Standard Test Method for Determining Formaldehyde Concentration in Air from Wood Products Using a Small-Scale Chamber
ASTM D5197-21: Standard Test Method for Determination of Formaldehyde and Other Carbonyl Compounds in Air (Active Sampler Methodology)
Standard Face-and-Back Sample Configuration

CHAMBER TEST CONDITIONS/PARAMETERS

Product Type:	Other (See "Other Comments")					
Chamber Load Ratio (m^2/m^3)**:**	0.86					
Chamber Dimensions (m)**:**	0.39 x 0.39 x 0.39 (Nominal)					
Chamber Volume (m^3)**:**	0.06m^3					
Air Exchange Rate:	1.0 +/- 0.05 air changes per hour					
Chamber Q/A Ratio (+/- 2%)**:**	1.172					
No. Specimens in Charge:	3					
No. Faces Exposed:	6					
Temperature (°C)**:**	**Avg:**	24.8	**Min:**	24.7	**Max:**	24.9
Relative Humidity (%)**:**	**Avg:**	51	**Min:**	51	**Max:**	51
Length of Test (minutes)**:**	60					

TEST RESULTS

	Value:
Observed Air Flow Rate (Liters/min)**:**	1.00
Corrected Volume of Air Sample (Liters)**:**	60.0
Sample Concentration (µg/mL)**:**	0.016
Sample Eluent Dilution Factor:	N/A
Unadjusted Concentration in Air (ppm)**:**	0.002
Temperature Correction Factor to 25 :	1.02
Relative Humidity Correction Factor to 50% R.H.:	0.98
Standardized Concentration in Air (ppm)**:**	**<0.005

****<0.005ppm = Test result is below the limit of quantification**

CUSTOMER-SUPPLIED PRODUCT AND SAMPLE DATA

Product Name/Description:	1/2" Magpanel MGO		
Panel Manufacturer:	Not Specified	**Production Date:**	Not Specified
Supplier: (if different than panel mfr)	See Above	**Sample Collection Date:**	Not Specified
Nominal Product Thickness:	1/2 in	**Specimen Test Date:**	12/30/2025
Nominal Product Dimensions (L x W):	N/S N/S	**Sample Wrapping Method:**	Wrapped Together in Vapor Retarder
Face Surface Condition:	Unfinished	**Back Surface Condition:**	Unfinished
Lot/Batch No.:	N/S	**Panel Production Line:**	N/S
Resin Supplier Name:	Not Specified	**Resin Name/Type:**	Not Specified
Sample Collected by:	Client	**Sample Collector Name:**	Terry Keyfauver

TEST ANNOTATIONS

1) The test chamber is activated under positive pressure. The air sampling rate was 1.0 liters per minute (L/min) for 60 +/- 2 minutes.

2) Unless otherwise noted, test specimens were prepared per test method requirements. Specimens were conditioned for 168 hours +/- 3 hours prior to testing. The specimen conditioning environment was maintained at 75°F +/- 5°F (24°C +/- 3°C) and 50% +/- 5% relative humidity.

3) During conditioning and test, the background concentration of formaldehyde in air was 0.005 ppm or less.

4) ASTM E1333/ASTM D6007 Equivalence C-Value (Low Range): 0.021 Date: 12/26/2024
ASTM E1333/ASTM D6007 Equivalence C-Value (Mid Range): 0.035 Date: 12/31/2024

5) Test Technician Name: A. Malsch

OTHER COMMENTS

Product type is an MGO (magnesium oxide) panel. Test method ASTM D6007 with a Q/A ratio of 1.172 was employed at client direction.

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Respectfully Submitted,

Laboratory Manager
Benchmark Holdings, LLC (BMH)
Benchmark International, LLC (BMI)

PJLA Testing
ISO/IEC 17025:2017
Accreditation No.: L24-461