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

PAGES
7

DOCUMENT CONTROL NUMBER
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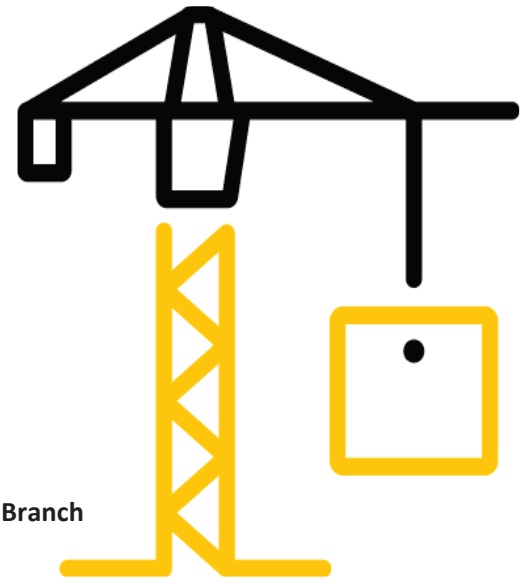

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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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*

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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.