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FIBRE CEMENT CONSTRUCTION BOARD

TEST REPORT

SCOPE OF WORK
fiber cement board

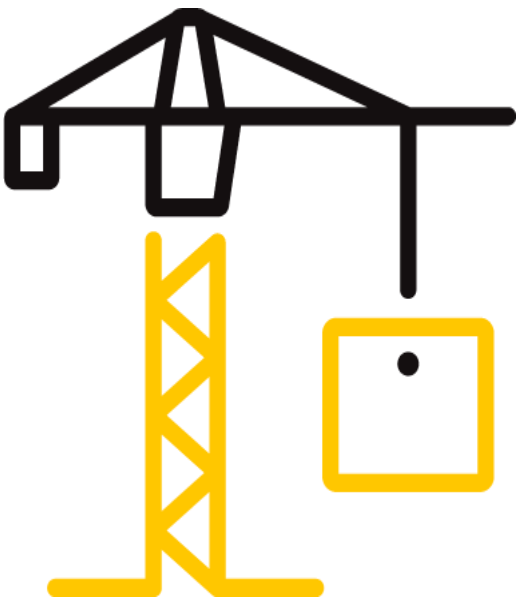
REPORT NUMBER
230316012SHF-001

TEST DATE(S)
2023-03-16 - 2023-04-06

ISSUE DATE
2023-04-07

PAGES
6

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(September 1, 2022)



Intertek Testing Services Ltd

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Test Report

Issue Date: 2023-04-07 Intertek Report No. 230316012SHF-001

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

Product Information

Product Name	fiber cement board	**Brand**	
Sample Description	Good Condition	**Sample Amount**	2 boxes and 1pc
		Received Date	2023/3/13, 2023/03/16

Sample ID	**Model**	**Specification**
S230316012SHF.001~002	/	1220*2440*9mm

Test Methods And Standards

Test Standard	EN ISO 1182:2020 and EN ISO 1716:2020
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

Name: Sally Xie

Title: Reviewer

Stone. Shi

Name: Stone Shi

Title: Project Engineer

Test Report

Issue Date: 2023-04-07 Intertek Report No. 230316012SHF-001

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

Issue Date: 2023-04-07 Intertek Report No. 230316012SHF-001

Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter		Result
EN ISO 1182:2020	ΔT (°C)		5.1
	Δm (%)		17.2
	t_f (s)		0
EN ISO 1716:2010	PCS	The whole product, MJ/kg	0.7221

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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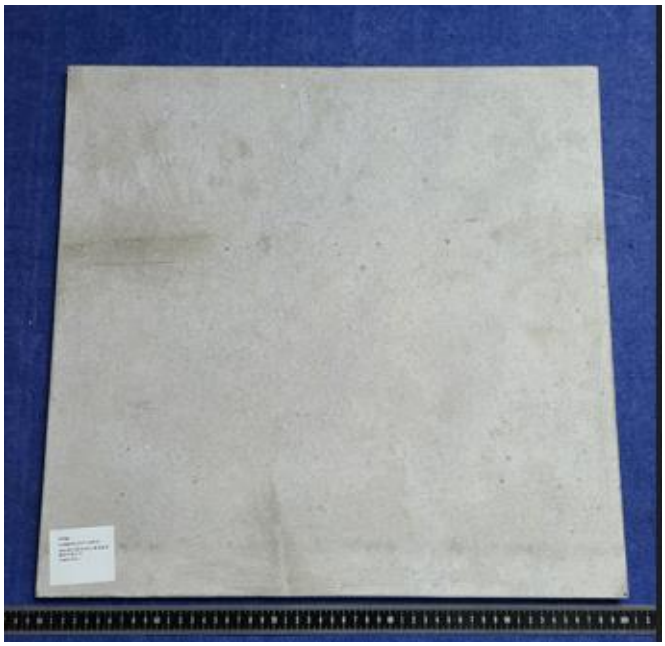
Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
230316012SHF-001	2023-04-07	First issue