Jiangsu Dongfang Botec Technology Co,. Ltd

TEST REPORT

SCOPE OF WORK
A2 fireproof core board

REPORT NUMBER
220323015SHF-001

TEST DATE(S)
2022-03-23- 2022-05-26

ISSUE DATE
2022-05-26

PAGES
7

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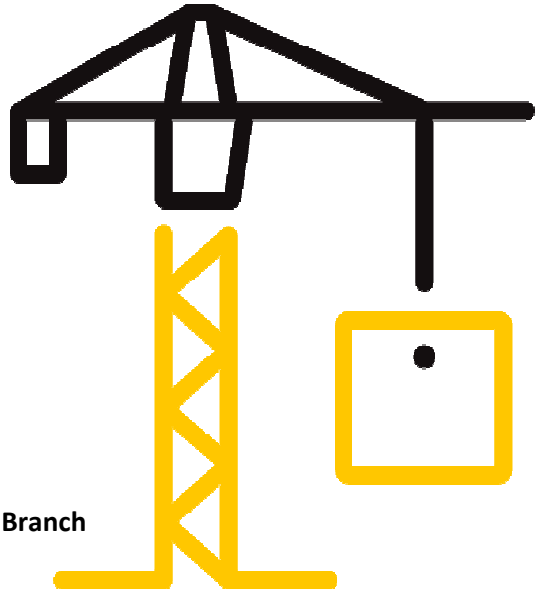

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Issue Date: 2022-05-26 Intertek Report No. 220323015SHF-001

Applicant: Jiangsu Dongfang Botec Technology Co,. Ltd

Address: No. 6 Dianchang Road, Anqing village, Fenghuang town, Zhangjiagang city, Jiangsu, China

Attn: Chenggang Cai

Manufacturer: Jiangsu Dongfang Botec Technology Co,. Ltd

Address: No. 6 Dianchang Road, Anqing village, Fenghuang town, Zhangjiagang city, Jiangsu, China

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

Product Information

Product Name	A2 fireproof core board	**Brand**	ALUBOTEC
Sample Description	Good Condition	**Sample Amount**	20 pcs
		Received Date	2022-03-23

Sample ID	**Model**	**Specification**
S220323015SHF.004~006	B	/

Test Methods And Standards

Test Standard	EN 13823:2010+A1:2014 and 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 relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

Name: Sally Xie
Title: Reviewer

Name: Lu Cheng
Title: Project Engineer

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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 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.

1.2 SINGLE BURNING ITEM TEST

The test was conducted in accordance with EN 13823. This test evaluates the potential contribution of a product to the development of a fire, under a fire situation simulating a single burning item near to the product.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class A2 with its corresponding fire performance is given in the table below.

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

Class	Test Method(s)	Classification criteria	Additional classifications
A2	EN ISO 1716 and	PCS ≤3.0 MJ/kg [a] and PCS ≤4.0 MJ/m^2 [b] and PCS ≤4.0 MJ/m^2 [c] and PCS ≤3.0 MJ/kg [d]	--
	EN 13823	$FIGRA_{0.2MJ}$ ≤ 120 W/s and LFS < edge of specimen and THR_{600s} ≤ 7.5 MJ	Smoke production [e] and Flaming droplets/particles [f]

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.
e. s1 = SMOGRA ≤ 30m^2/s^2 and TSP_{600s} ≤ 50m^2; s2 = SMOGRA ≤ 180m^2/s^2 and TSP_{600s} ≤ 200m^2; s3 = not s1 or s2.
f. d0 = no flaming droplets/particles in EN 13823 within 600s;
d1 = no flaming droplets/particles persisting longer than 10s in EN 13823 within 600s;
d2 = not d0 or d1.
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

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Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter		Result
EN ISO 1716:2010	PCS	the product, MJ/kg	2.1291
EN 13823:2010+A1:2014 *	$FIGRA_{0.2MJ}$, W/s		27
	THR_{600s} , MJ		1.2
	LFS, m		<Edge of specimen
	SMOGRA, m^2/s^2		0
	TSP_{600s}, m^2		33
	Flaming droplets/particles		No flaming droplets/particles occur within 600s

Note

1. *Test item is subcontracted on accreditation by CNAS L0057.

2. Per EN 13823, the samples were fixed mechanically to the substrate. Substrate was a 12mm thick calcium silicate board. The density of the calcium silicate board was 900kg/m^3.

3 CLASSIFICATION

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

Fire behaviour		Smoke production			Flaming Droplets	
A2	-	s	*1*	-	d	*0*

Reaction to fire classification: *A2 - s1, d0*

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Test Items, Method and Results:

4 Test Photos of EN 13823

Before test (Long wing)

Before test (Short wing)

After test (Long wing)

After test (Short wing)

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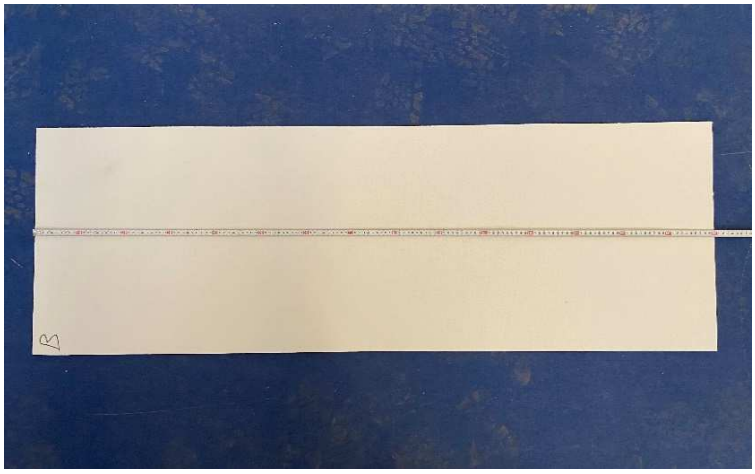
Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
220323015SHF-001	2022-05-26	First issue