

Gaudiahome, s.r.o

Zilina, SLOVAKIA

TEST REPORT

SCOPE OF WORK

Wood Plastic Composite Cladding

REPORT NUMBER

220727022SHF-001

TEST DATE(S)

2022-07-27 - 2022-08-10

ISSUE DATE

2022-08-10

PAGES

7

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Test Report

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Test Report

Issue Date: 2022-08-10 Intertek Report No. 220727022SHF-001
Applicant: Gaudiahome s.r.o.
Address: Vysokoskolakov 8421/41, 010 08 Zilina, Slovakia
Attn: Fangzheng Zhu
Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Wood Plastic Composite Cladding	Brand	jufeng
Sample Description	Good Condition	Sample Amount	1 box
		Received Date	2022-07-25
Sample ID	Model	Specification	
S220727022SHF.001~002	SMX174K21	/	

Test Methods And Standards

Test Standard	EN 13823:2010+A1:2014 and EN ISO 11925-2:2020
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 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

Sally  *Cheng*
Name: Sally Xie Name: Lu Cheng
Title: Reviewer 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 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.

1.2 IGNITABILITY TEST

The test was conducted in accordance with EN ISO 11925-2. This test evaluates the ignitability of a product under exposure to a small flame.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class C with its corresponding fire performance is 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
C	EN 13823 and	$FIGRA_{0.4MJ} \leq 250 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 15 \text{ MJ}$	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c Exposure = 30 s	$F_s \leq 150 \text{ mm}$ within 60 s	

Note:

a. $s1 = SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 50 \text{ m}^2$; $s2 = SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 200 \text{ m}^2$; $s3 = \text{not } s1 \text{ or } s2$

b. $d0 = \text{No flaming droplets/particles in EN 13823 within 600s}$;

$d1 = \text{no flaming droplets/particles persisting longer than 10s in EN 13823 within 600s}$;

$d2 = \text{not } d0 \text{ or } d1$.

Ignition of the paper in EN ISO 11925-2 results in a $d2$ classification.

c. Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

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Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN 13823:2010+A1:2014*	FIGRA _{0.4MJ} , W/s	108
	THR _{600s} , MJ	14.4
	LFS, m	<Edge of Specimen
	SMOGR _A , m ² /s ²	4
	TSP _{600s} , m ²	56
	Flaming Droplets/Particles	No flaming droplets/particles occur within 600s
EN ISO 11925-2:2020 Exposure = 30 s	F _s ≤ 150 mm within 60 s	Yes
	Ignition of the paper	No

Note

- *Test item is subcontracted on accreditation by CNAS L0057.
- 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/m³.

3 CLASSIFICATION

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

Fire behaviour		Smoke production		Flaming droplets
C	-	s	2	- d 0

Reaction to fire classification: C- s2, 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



Front view (test side)



Back view

Revision:

NO.	Date	Changes
220727022SHF-001	2022-08-10	First issue