WENZHOU JIXIANG COMPOSITE PANEL CO., LTD

TEST REPORT

SCOPE OF WORK
ALUMINUM COMPOSITE PANEL

REPORT NUMBER
251014005SHF-001

TEST DATE(S)
2025-10-14 - 2025-10-22

ORIGINAL ISSUE DATE
2025-10-23

PAGES
7

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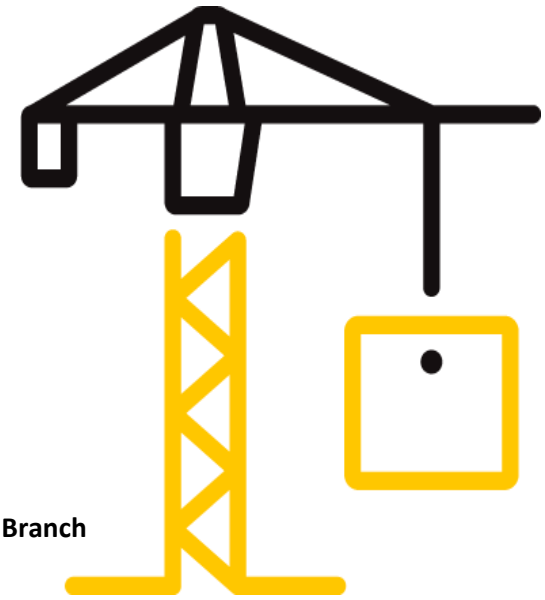

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Original Issue Date: 2025-10-23 Intertek Report No. 251014005SHF-001

Applicant: WENZHOU JIXIANG COMPOSITE PANEL CO., LTD

Address: No.228 Weisan Road , Yueqing Economic Industry zone , Wenzhou City , Zhejiang Province, China. 325600

Attn: Brant Wu

Manufacturer: WENZHOU JIXIANG COMPOSITE PANEL CO., LTD

Address: No.228 Weisan Road , Yueqing Economic Industry zone , Wenzhou City , Zhejiang Province, China. 325600

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

Product Information

Product Name	Model	Specification	Brand
ALUMINUM COMPOSITE PANEL	A2 FR (FIRE RESISTANT)	4MM	ALUSIGNPANEL
Sample ID	**Sample Amount**	**Sample Received Date**	
S251014005SHF.001~005	15 pcs	2025-09-24, 2025-09-29	
Sample Description			
The sample consists of one package of core material, two packages of adhesive film, two packages of coating and some complete panels with a thickness of about 4mm, see sample photo in Appendix A			

Test Methods And Standards

Test Standard	EN 13823:2020+A1:2022 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 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.

2.The heat of combustion test section in this report only reflects the testing result based on the data and information followed the Δ mark provided by the testing applicant. The testing applicant agrees that Intertek has no duty, responsibility or obligation including without limitation examination, review, analysis, assessment, comment, suggestion, adjustment, calibration, modification, revision, guarantee or otherwise in regard to the legitimacy, compliance, applicability, adequacy, necessity, reasonableness, accuracy, appropriateness, reliability or any other feature or aspect of the data and information.

Report Authorized

Sally Stone. Shi

Name: Sally Xie Name: Stone Shi

Title: Reviewer Title: Project Engineer

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Test Report

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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.

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Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter		Result
EN ISO 1716:2010	PCS	PVDF paint coating, MJ/m^2	0.4367
		Aluminum coil, MJ/kg	0
		Polymeric membrane film, MJ/m^2	2.8746
		A2 FR non-combustible mineral core, MJ/kg	2.1111
		Polymeric membrane film, MJ/m^2	2.8746
		Aluminum coil, MJ/kg	0
		Primer paint, MJ/m^2	0.0895
		The Whole Product, MJ/kg	2.1347
EN 13823:2020+A1:2022	$FIGRA_{0.2MJ}$, W/s		0
	THR_{600s} , MJ		0.408
	LFS, m		<Edge of specimen
	SMOGRA, m^2/s^2		0
	TSP_{600s}, m^2		16.2
	Flaming droplets/particles		No flaming droplets/particles occur within 600s

Note

1. Per EN 13823, the samples were free standing at a distance of 80mm from the backing board. Backing board was a 12mm thick calcium silicate board. The density of the calcium silicate board was 850kg/m^3.

ΔThe information of each component of the product was declared by applicant, see below table.

Layer No. (from face to back)	Material of each Layer	Mass per unit area (kg/m^2)	Thickness (mm)
1	PVDF paint coating	0.030	0.027
2	Aluminum coil	1.355	0.500
3	Polymeric membrane film	0.064	0.070
4	A2 FR non-combustible mineral core	5.500	2.900
5	Polymeric membrane film	0.064	0.070
6	Aluminum coil	1.355	0.500
7	Primer paint	0.011	0.009

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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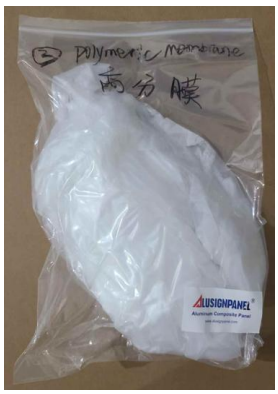
Appendix A: Sample Received Photo

Front view (test side)

Back view

PVDF paint



Polymeric membrane film

A2 FR Core

Primer paint

Revision:

NO.	Date	Changes
250721002SHF-001	2025-10-23	First issue