

Suzhou Aluwedo Co., Ltd

TEST REPORT

SCOPE OF WORK Aluminum Honeycomb Panel

REPORT NUMBER 201030003SHF-001

TEST DATE(S) 2020-10-30 - 2020-11-18

ISSUE DATE 2020-11-18

PAGES 7

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



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Test Report

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Test Report

Issue Date:	2020-11-18	Intertek Report No.	201030003SHF-001
Applicant:	Suzhou Aluwedo Co., Ltd		
Address:	Economical Developing Zone, Zhangjiagang,	, Jiangsu, China	
Attn:	Julia		
Test Type:	Performance test, samples provided by the	applicant.	

Product Information

Product Name	Aluı	ninum Honeycomb Panel	Brand	Aluwedo
Sample		Good Condition	Sample Amount	12 pcs
Description		Good condition	Received Date	2020-10-29
Sample ID		Model	Specification	
S201030003SHF.001~003		A-30	30mm/1mm	

Test Methods And Standards

Test Standard	EN ISO 1716:2010 and EN 13823:2010+A1:2014*
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 Xie Title: Reviewer Sally Xie Title: Reviewer Sally Xie Title: Project Engineer



Issue Date: 2020-11-18

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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 thermalinsulation 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	$FIGRA_{0.2MJ} \le 120 W/s$ and LFS < edge of specimen and THR _{600s} $\le 7.5 MJ$	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 $\leq 30m^2/s^2$ and TSP_{600s} $\leq 50m^2$; s2 = SMOGRA $\leq 180m^2/s^2$ and TSP_{600s} $\leq 200m^2$; 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
		Paint, MJ/m ²	0.7269
EN ISO 1716:2010	PCS	Glue, MJ/m ²	1.6662
		The whole product, MJ/kg	0.7
	FIGRA _{0.2MJ} , W/s		0
	THR _{600s} , MJ		0.8
EN.	LFS, m		<edge of="" specimen<="" td=""></edge>
EN 13823·2010+Δ1·2014 *	SMOGRA, m ² /s ²		10
13023.2010 (A1.2014	TSP _{600s} , m ²		79
		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 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 900kg/m^3 .

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

Layer No. (from face to back)	Layer No.Material of each LayerMass per'om face to back)(kg		Thickness (mm)
1	Paint	0.05	0.03
2	Aluminum sheet	2.7	1
3	Glue	0.09	0.01
4	Aluminum honey	0.2	28.5
5	Glue	0.09	0.01
6	Aluminum sheet	2.7	1

3 CLASSIFICATION

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

Fire behaviour		Smoke production			Fla	ming Droplets
A2	1	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)



After test (Long wing)



Before test (Short wing)



After test (Short wing)



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Appendix A: Sample Received Photo



Front view (test side)



Paint



Back view



Glue

Revision:

NO.	Date	Changes	Author	Reviewer
201030003SHF-001	2020-11-18	First issue	Jay Gong	Sally Xie

