

TEST REPORT

REPORT NUMBER: 160902001SHF-BP-1

ORIGINAL ISSUE DATE: 2016/9/19

EVALUATION CENTER

Intertek Testing Services Ltd., Shanghai
Plant 7, No. 6958 Daye Road, Fengxian District, Shanghai, China

RENDERED TO

Multipanel UK Ltd

**Unit 6, Site 2, Oak Business Units, Thorverton Road,
Matford, Exeter, Devon. EX2 8FS, UK**

PRODUCT EVALUATED

Aluminium composite panel

EVALUATION PROPERTY

As requested by the applicant, for details refer to attached pages(s).

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Report Template Revision Date: 2016/9/1



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Report Date: 2016-09-19

Applicant: Multipanel UK Ltd

Applicant Address: Unit 6, Site 2, Oak Business Units, Thorverton Road, Matford, Exeter,
Devon. EX2 8FS, UK

Attn: Andrew Cock

Sample Information:

Product: Aluminium composite panel

Model: Alupanel 3mm

Sample Quantity: 20 pieces

Sample ID S160902001SHF-001~020

Date Received: 2016/8/31

Date Test Conducted: 2016/9/7

Conclusion:

For details refer to attached page(s).

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

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Test Items, Method and Results:

1.1 SINGLE BURNING ITEM TEST

The test was conducted in accordance with BS EN 13823:2010+A1:2014. 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 BS EN ISO 11925-2:2010. 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: 2007+A1: 2009. The class D with their corresponding fire performance are 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
D	EN 13823 and	FIGRA \leq 750 W/s	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c Exposure=30s	F _s \leq 150 mm within 60 s	

Note:

a. In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

s1 = SMOGRA \leq 30m²/s² and TSP_{600s} \leq 50m²; s2 = SMOGRA \leq 180m²/s² and TSP_{600s} \leq 200m²; s3 = not s1 or s2

b. d0 = no flaming droplets/ particles in EN 13823 within 600 s;

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600s;

d2 = not d0 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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1.4 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN 13823: 2010	FIGRA , W/s	30
	SMOGRA, m ² /s ²	8
	TSP _{600s} , m ²	82
	Flaming Droplets/ Particles	No flaming droplets/particles occur within 600s
EN ISO 11925-2:2010 Exposure=30 s	F _s , mm	34
	Ignition of the paper	No ignition of the paper

Note

1. This test was conducted at the external approved facility, located at Guangzhou.
2. Per EN 13823, the samples were free standing at a distance of 80mm to a 9 mm thick calcium silicate board. The density of the calcium silicate board was 900kg/m³.

1.5 CLASSIFICATION

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

Fire behaviour		Smoke production		Flaming Droplets
<i>D</i>	-	<i>s</i>	<i>2</i>	, <i>d</i> <i>0</i>

Reaction to fire classification: *D- s2, d0*

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Test Photos



Before test (Long wing)



Before test (Short wing)



After test (Long wing)

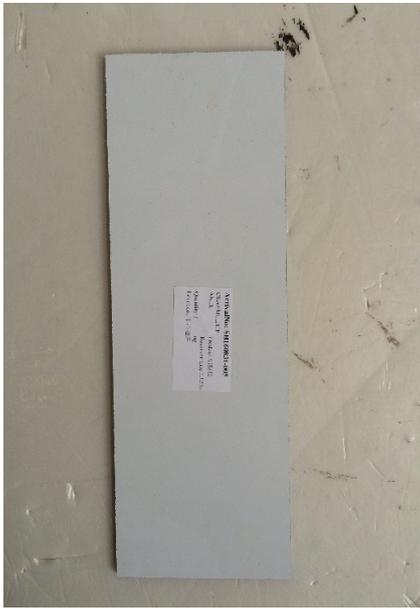


After test (Short wing)

Test Report

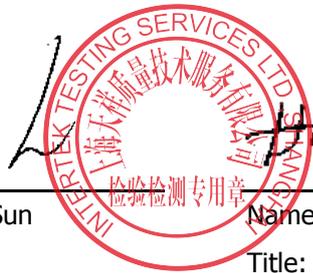
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Appendix A: Sample received photo



Approved by:

Name: Sun Sun
Title: Approver



Name: Harrison Li
Title: Reviewer

Name: Timothy Li
Title: Project Engineer

The End of Report