

# GUANGZHOU GOODSENSE DECORATIVE BUILDING MATERIALS CO., LTD

# **TEST REPORT**

### **SCOPE OF WORK**

**Aluminum Core Composite Panel** 

### REPORT NUMBER

190920010SHF-001

### TEST DATE(S)

2019-09-20~2019-10-15

### **ISSUE DATE**

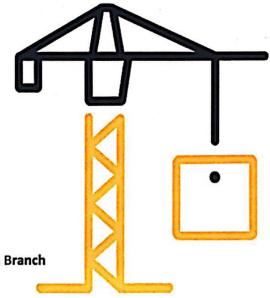
2019-10-16

### **PAGES**

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### **DOCUMENT CONTROL NUMBER**

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China Tel: 021-61136116 Fax: 021-61189921

Website: www.intertek.com

### **Test Report**

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### **Test Report**

Issue Date:

2019-10-16

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190920010SHF-001

Applicant:

GUANGZHOU GOODSENSE DECORATIVE BUILDING MATERIALS CO., LTD

Address:

NO.2 XIZHUYUAN, YANJIANG ROAD, TANBU TOWN, HUADU DISTRICT, GUANGZHOU, CHINA

Attn:

Yunhua Duan

Manufacturer:

GUANGZHOU GOODSENSE DECORATIVE BUILDING MATERIALS CO., LTD

Address:

NO.2 XIZHUYUAN, YANJIANG ROAD, TANBU TOWN, HUADU DISTRICT, GUANGZHOU, CHINA

Test Type:

Performance test, samples provided by the applicant.

#### **Product Information**

<b>Product Name</b>	Alun	ninum Core Composite Panel	Remark GOODSENS		
Sample Description		0 10 101	Sample Amount	17 PCS	
		Good Condition	Received Date	2019-09-19	
Sample ID		Model	Speci	Specification	
S190920010SHF.001~005		FC9906	4*0.5		

### **Test Methods And Standards**

Test Standard ASTM D3363-05(2011) <sup>e2</sup> , With reference to ASTM E8/E8M-16a, In house method, ASTM C518-17		ASTM D3363-05(2011) <sup>e2</sup> , With reference to ASTM E8/E8M-16a, In house method, ASTM E831-19, ASTM C518-17
	pecification Standard	
Tost 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: Flora Fan

Title: Reviewer

Version: 1 May 2019

Jackie Zhou

**Project Engineer** 

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Test Items, Method and Results:

Test items	Test Methods	Test Results
Dry Film Hardness	ASTM D3363- 05(2011) <sup>e2</sup>	Scratch hardness: 2H



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Test Items, Method and Results:

Test Item:

**Tension Testing** 

Test Method:

With reference to ASTM E8/E8M-16a

Specimen Type:

Standard Sheet-Type, 12.5mm wide

2

**Test Condition:** 

Test speed:

mm/min

Test Items	Test Results
Ultimate load (Machine direction)	2512N
Ultimate load (Across machine direction)	2649N



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### Test Items, Method and Results:

Test Item:

Outdoor temperature resistance test

Test Method:

In house method

Test Procedure:

(Provided by applicant)

1. The samples were divided into two sets, one set was placed in the oven at  $80^{\circ}$ C for 24h, and the other set was placed in the chamber at -40°C for 24h.

2. Observe the appearance of samples after test. If any, record the defects.

### **Test Results:**

Set Conditioning		Test Results
1	80°C, 24h	No visible change on surface
2 -40°C, 24h		No visible change on surface



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### Test Items, Method and Results:

Test Item:

Linear thermal expansion coefficient

Test Method:

**ASTM E831-19** 

Conditioning:

Condition the specimens at 23±2°C and 50±5%RH for more than 72h before testing.

Specimen:

10 mm x 10 mm

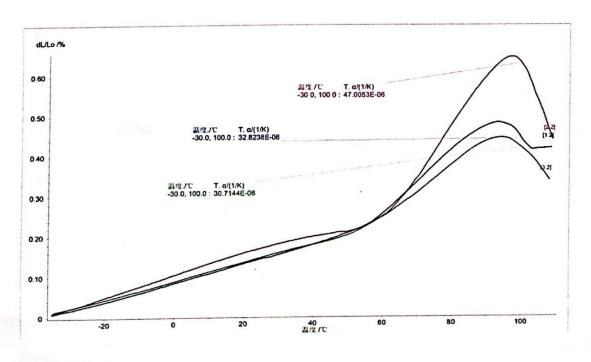
### Test Result:

Specimen	Coefficient of linear thermal expansion $um/(m^{\circ}C)$	
#1	47.0	
#2	32.8	
#3	30.7	
Average	36.8	

### Note:

- 1. Test item was subcontracted on accreditation by CNAS L2233.
- 2. The test direction was along the length of sample. Test temperature range was from -30°C~100°C.

### Test graph:





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### Test Items, Method and Results:

Test Item:

Thermal conductivity and thermal resistance

Test Method:

**ASTM C518-17** 

Conditioning:

Condition the test specimen at (23±2)°C and (50±5)% relative humidity to constant mass

### **Test Result:**

Sample	Thickness	Mean Temperature	Temperature Difference	Thermal Conductivity	Thermal Resistance
	(mm)	(°C)	(°C)	(W/m·K)	(m <sup>2</sup> ·K)/W
1	3.89	24.9	12.3	0.128	0.030
2	3.90	24.9	12.1	0.146	0.027
3	3.95	24.9	12.3	0.135	0.029
Average	3.91	25	12	0.136	0.029



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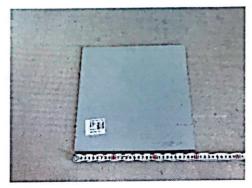
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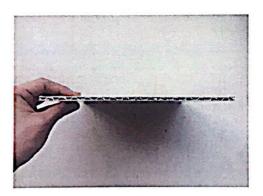
Appendix A: Sample Received Photo



Front view (test face)



Back view



Section view

### **Revision:**

NO.	Date	Changes	Author	Reviewer
190920010SHF-001	2019-10-16	First issue	Jackie Zhou	Flora Fan