

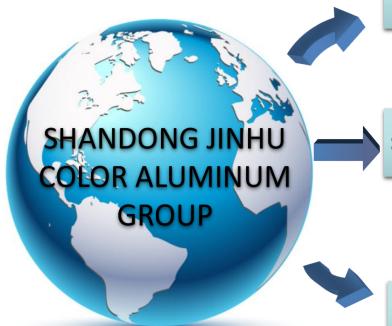
### SHANDONG GOLDEN SUNSHINE BUILDING MATERIALS CO.,LTD.

A2 Aluminium Composite Panel (A2-s1, do grade)

Professional fireproof cladding materials manufacturer in China







### LINYI JINHU COLOR COATING ALUMINUM INDUSTRY CO.,LTD.

Product: Color Coated Aluminum Coil, etc.

### SHANDONG GOLDEN SUNSHINE BUILDING MATERIALS CO.,LTD.

Product: A2 Core, A2 Metal Composite Panel, Aluminium Composite Panel (ACP, ACM), etc.

SHANDONG BAISHENG METAL TECHNOLOGY CO.,LTD.

Product: Stone Coated Metal Roof Tile, etc.



## **Company Introduction**

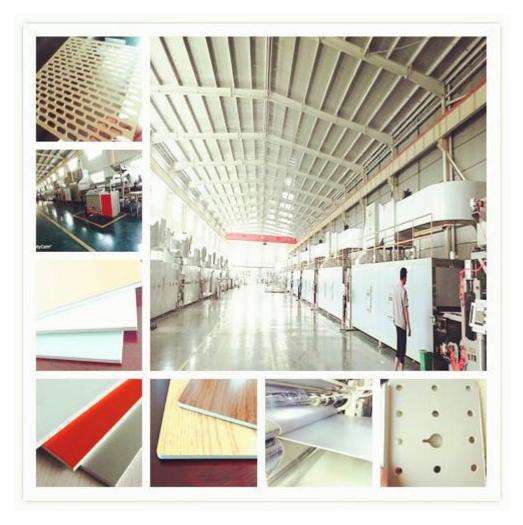
### SHANDONG GOLDEN SUNSHINE BUILDING MATERIALS CO.,LTD.



- Located in Free Trade Zone,
  Linyi City, Shandong Province
  - Cooperation unit of Shandong
- University of Science and Technology
- Covering120000M2
- ISO9001,CE, EN13501-1, BS476 certifications by SGS, Intertek, Afiti Licof, etc



## **Company Introduction**



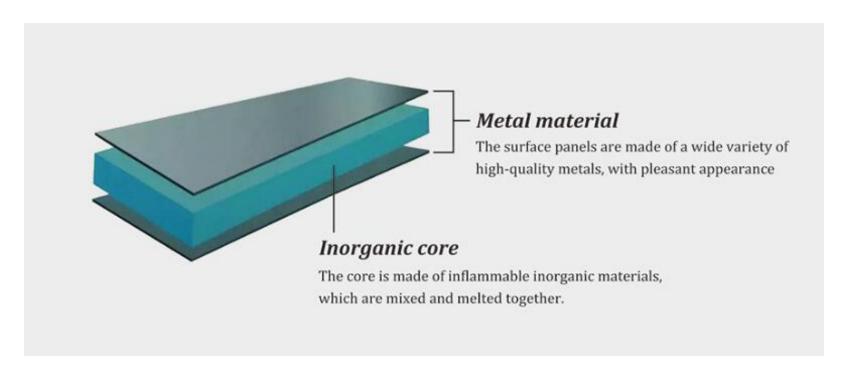
- 4 aluminium composite panel production lines, 3 color coated aluminum coil lines
- 2 A2 core production lines,
  1 A2 metal composite panel line
- 1,400,000.00m2 A2 Core, 800,000.00m2 A2 ACP, 18,000,000.00m2 ACP, 40,000.00 tons Aluminum Coil



## **A2 Aluminium Composite Panel**

### A2 Aluminium Composite Panel (A2 ACP)

It is a new type of non combustible grade cladding material. It is generally covered on both with PVDF coating aluminum sheet or stainless steel and copper sheet, and embedded in between with natural inorganic A2 core. The metal sheet and core are perfectly bound by a special macromolecule binder, which is heated and melted in production. This advanced process technology improves the panel's mechanical features as toughness, impact resistance, and crushing resistance, which therefore ensures the quality appearance, superior performance and simple operability.





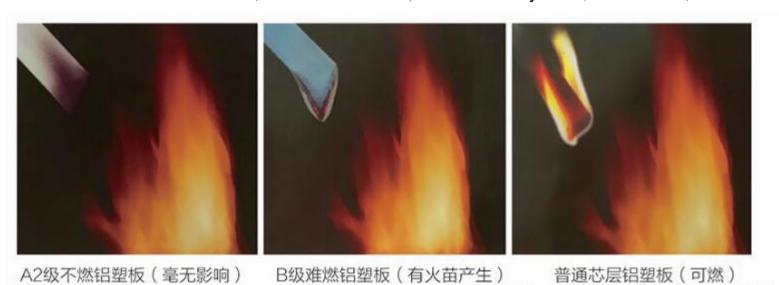
## **A2 Aluminium Composite Panel**

### A2 Aluminium Composite Panel (A2 ACP) features:

- 1. Non-combustible inorganic mineral core, low-smoke, toxic free, halogen free, no droplets, no radiation, superior fireproof performance, eco-friendly material.
- 2. Superior exterior wall cladding performance, PVDF coating with HYLR5000 and KYNAR500, nice appearance, high resistance to weather and pollution.
- 3. High strength and flexibility, easy to design and installation.

Class A2 no influence no flame

4.Related certification: GB8624-2012, GB/T17748-2016, EN13501-1 by SGS, INTERTEK, etc.



Class B flame has generated

Normal PE core ACP (combustible)



## A2 Aluminium Composite Panel

A2 Aluminium Composite Panel (A2 ACP) is mainly used in Exterior Architectural Cladding, especailly for high rising building with at least 12 stories.





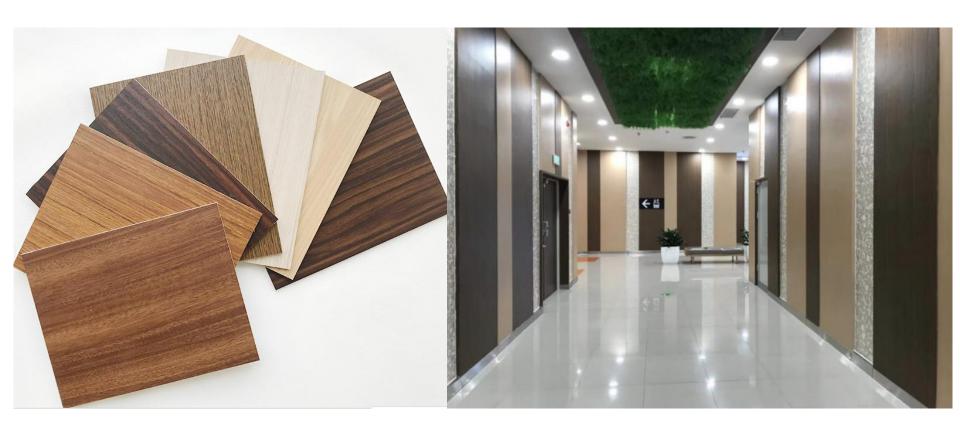






## PVC Film A2 Aluminium Composite Panel

PVC Film Coated A2 Aluminium Composite Panel (PVC A2 ACP) is coated with PVC film with different patterns on the surface of A2 ACP. It is mainly used in Interior Decoration, especially for premium large interior decotation projects.





# Comparison

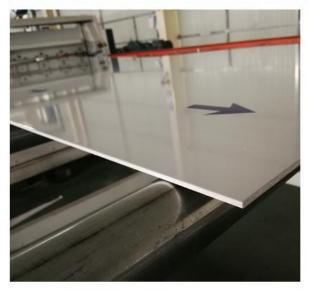
Product Items	A2 Aluminium Composite Panel	Aluminium Panel	FR Aluminium Composite Panel	Aluminium Composite Panel	Aluminium Honeycomb Panel
panel surface	A2 core is laminated with aluminium, high flatness	panel surface is with some defects	FR core is laminated with aluminium, high flatness	LDPE core is laminated with aluminium, small bubbles in surface	easy to change shape in cold or hot condition
fire resistance	A2,s1, d0 grade, non combustible	A2,s1, d0 grade, non combustible	B,s1, d0 grade, flame retardent	combustible	A2,s1, d0 grade, non combustible
green	no toxic	no toxic	a little toxic	a little toxic	no toxic
fabrication	easy fabrication in factory or on site	hard fabrication on site	easy fabrication in factory or on site	easy fabrication in factory or on site	hard fabrication on site
cost	competitive	high	low	lowest	high



## **A2 ACP Product Show**











## **PVC A2 ACP Product Show**





### **Product Performance**

- 1. different colors and patterns meet archtect's demands
- 2. A2,s1,do grade fire resistance performance
- 3. high flatness

A2 ACP is with inorganic core and its coefficient of thermal expansion is similar with metal surface, reduce the interior stress from two different materials. Normal aluminium composite panel is with LDPE core, which is organic material and its coefficient of thermal expansion is 5-7 times than metal surface, easy to bubbles, change shape, etc.

- 4. green and environmental protection
- 5. large size and easy fabrication
- 6. sound insulation, heat insulation

1220x2440x4mm A2 Aluminium Composite Panel is 26dB in sound insulation, the thermal conductivity is 0.31w/m.k.



## **Product Advantage**

- Select superior raw material: the aluminium is with AA3003/AA5005 alloy; the A2 core material is virgin, not recycled material; premium adhesive film; rubber based premium protective film.
- Advanced production skill: the A2 core is adopted the latest laying-off system and synchronous control system.
- Different colors and patterns for choice: solid color, metallic color, wooden color, stone color, brushed color, mirror color, etc.
- Excellent fire resistance performance: natural inorganic material, A2,s1,d0 grade non combustible cladding material.



# **Peeling Strength Testing**



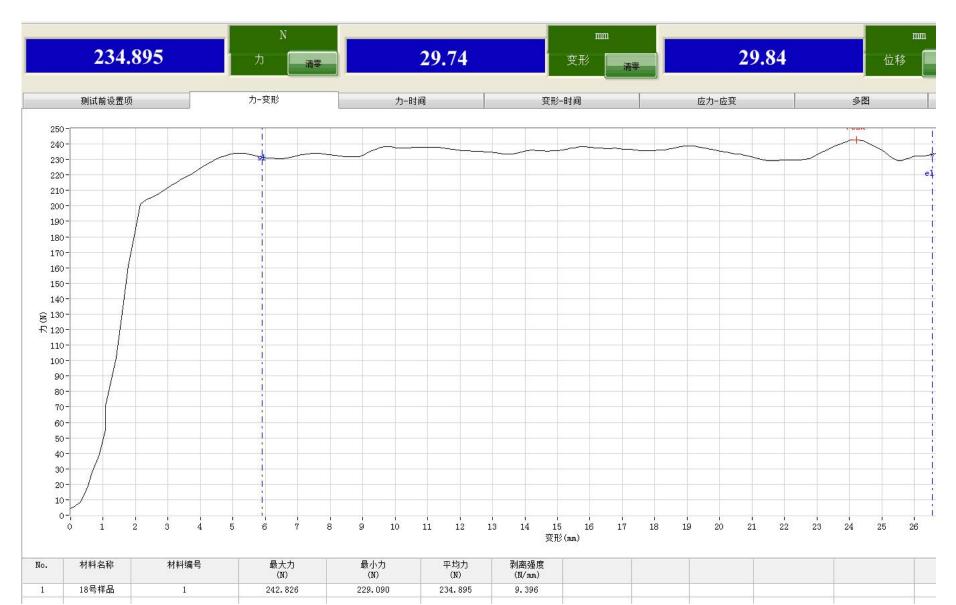
180° peeling testing



180° peeling surface



## **Peeling Strength Testing**





# **Factory Show**









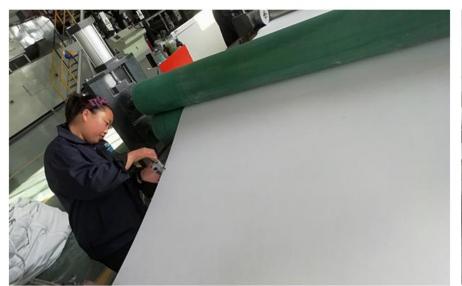








# **A2 Core Workshop Show**











# A2 ACP Workshop Show





# Packing & Loading













## **Testing & Certification**



#### intertek

APPENDIX: SAMPLE RECEIVED PHOTO

**Test Report** 

Issue Date: 2018/5/14 Intertek Report No. 1804280045HF-BP-1



#### REPORT AUTHORIZE

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.



Revision:								
NO.	DATE	CHANGES	AUTHOR	REVIEWER				
180428004SHF-BP-1	2018/5/14	First issue	Adolph Chen	Harrison				



### intertek

#### **Test Report**

Issue Date: 2017-12-08 Intertek Report No. 1711240025HF-BP-1

#### 4 Test Photo:





ore test (Long wing)



After test (Short wine)

SGS







### Contact us



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#### SUBSIDIARY FACTORY OF JINHU COLOR ALUMINUM GROUP

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Aluminium Composite Panel

Fireproof A2 Panel

Fireproof A2 Core

Stone Coated Metal Roof