

Aluminum Composite Panel Professional Manufacturer Since 2000

WENZHOU JIXIANG COMPOSITE PANEL CO., LTD.



www.alusignpanel.com -



About Us

Wenzhou Jixiang Composite Panel Co.,Ltd was founded in 2000. We have been dedicated to the production, Research & Development, trading and servicing of Aluminum composite panels over a decade. The factory located in Wenzhou city, Zhejiang province, China. It's distance to both Wenzhou international airport 45 kilometers and Yueqing high-speed train station 18 kilometers.

We currently have over 300 employees. The R&D team include 8 professional engineers who are experienced in the ACP field for more than 10 years. Our main products are A2 Fireproof Aluminum Corrugated Composite Panel (A2 FR ACCP), Aluminum Composite Panel (including PE, PVDF, FEVE, Fireproof, Brushed, Mirror, Timber & Stone ACP) and Color Coated Aluminum Coil.



There are total 9 advanced production lines in our factory. The daily output of ACP panels can reach more than 30,000 square meters. Our company has been certificated by ISO9001, ISO14001 and OHSAS18001 certificates; the products have also been proofed by UL, SGS, SGS for Fire-resistance, CE and CTC national qualities system.

Our vast sales and service network spans 23 provinces in China. We have also exported to many areas, such as USA, Canada, Mexico, Chile, Brazil, UK, France, Germany, Australia, South-Africa, Morocco, Nigeria, Algeria, Mid-East Area, South-East Asia and so on.

Our products has been widely used in all types of building construction and signage field and get good feedback from clients. Welcome to join us and find success with Wenzhou Jixiang, your full-service ACP provider.







Production Equipment

Our factory currently have total 9 advanced high-speed production lines, including:

* 6 ACP production lines with a cumulative daily production capacity of 32,000 square meters;

* 1 A2 FR ACCP production line with a daily production capacity of 5,000 square meters;

* 2 automated coating lines with a total monthly production capacity of 1,200 tons.



WENZHOU JIXIANG COMPOSITE PANEL CO.,LTI





Certificates

Our factory insist " Quality is factory's life ! Stable quality is key for long time business cooperation ! " We have our own strict QC on each step ; and we have been certificated by ISO9001:2008 quality systems certificates since 2004 , ISO14001:2004 ; OHSAS18001:2007 ; SGS ; SGS-FR ; CE etc . and we are great appreciated that our customers approved our products .





A2 FR Aluminum Corrugated Composite Panel



Product Dimension

YBOND is available in various dimensions, however, our standard Product is 4mm × 1220mm × 2440mm Other available sizes are as follows:

Dimension	Unit	Standard	Size Available
Width	mm	1220	1220mm , 1250mm, 1500mm
Length	mm	2440	Any , better < 5800mm
Thickness	mm	6	4、6、10
Custom Size	Accept		

Aluminum Alloy Type

Top & Bottom Alu. Skin : AA3003 series alloy Core : AA3003 series alloy

Coating Finishes

Aluminum Coil alloy (3003 Series) coated with KYNAR®500 based Fluorocarbon (PVDF utilizing a minimum 70% KDF resin). PVDF Coating system offers Two or Three Layer coating depending on color selection such as Metallic colors and Normal RAL Colors. Metallic Colors are normally Three (3) coat system consisting of a Primer, Color and Clear Top coat. Normal RAL colors usually have Two (2) coat system composed of Primer and Color Coat.



Comparative table of metal exterior

Item	Alu. Composite Panel	Alu. Solid Panel	Alu.Corruagted Composite Panel
Material	0.5mm (Skin)	3.0mm	0.80mm / 0.60mm
Thickness	4mm	3.0mm	6mm、4mm
Weight	5.5kg/m2	8.1kg/m2	4.3kg/m2、3.7kg/m2
Light Weight	Good	Normal	Excellent
Fire Proof	Normal	Good	Good

Secondary operation of Aluminum corrugated composite Panel



Advantages

Durable Economic Heat-Insulation Non-Combustible , FR A2 Grade Light Weight Eco Friendly Sound Insulation



Aluminum Composite Panel



Specification

Width	1220mm , 1250mm , 1500mm		
Length	2440mm , 3050mm , 4050mm , 5000mm		
Panel Thickness 2mm , 3mm , 4mm , 5mm , 6mm			
Alu.skin Thickness 0.10mm ~ 0.50mm : 0.10mm , 0.15mm , 0.21mm, 0.30mm , 0.40mm ,0.50mm			
Coating	Pvdf Ky,Feve,Polyester		
Core Materials	polyethylene plastic or Fireproof core		
Standard Size 1220 *2440mm (4' *8') ; 1500*3050mm (5' * 10')			
Others	custom size accept		

Dimensional Tolerances

Thickness(mm)	±0.2mm
Width(mm)	±2
Length(mm)	±3
Diagonal(mm)	±5
Thermal Expansion(mm)	2.4mm/m@100℃ Temp difference
Aluminium Thickness(mm)	±0.02

Surface Properties

Pencil Hardness	>HB
Temperature Resistance	40°C ~80°C
Impact Strength (kg cm2)	Impact Stength(kg cm2)50
Boiling Water Resistance	Boiling for 2hrs without change
Acid Resistance	Immerse in 5% HC 1 for 24Hrs without chang
Alkali Resistance	Immersed surface in 5% NaOH for 24Hrs without chang
Oil Resistance	Immerse surface in 20# engine oil for 24Hrs without chang
Solvent Resistace	Cleaned 100 times with Dimethylbenzene without change
Cleaning Resistance	>1000times without change
Peel Strength 180°	180° >5Newton/mm
Cold resistance	-40°C

Advantage



Easy Maintenance



Easy Processing







Non-Toxicity and Safety Super Peeling Strength Excellent Coating Property

PE Colors coated Aluminum Coil



Our factory have 2 coating lines : PE color coated aluminum coil with good PE paints high performance of aluminum coil is produced by advanced roller coating .All performance parameters are up to or much high than related national standards .

Raw Material : The alloy of the aluminum : AA1100 , AA3003 , AA5005 Paint : Polyester or PVDF KY

Specification

Thickness : 0.02MM ~ 0.60MM . Width : 1240MM , 1270MM , 1520MM ,1570MM etc . Color : refer to our standard color catalogue , also can produce according to customers requirements . Max Diameter : 1200MM Weight : 2.5 Ton / Coil ; 3 Ton / Coil . Interior Diameter : 505 MM or 405 MM

Application

 $\ensuremath{\mathsf{PE}}$ coil is widely and mainly used for building decoration , such as ACP ,aluminum ceilings , aluminum sheets , honeycomb panels and

aluminum roofing , lighting decoration , household electrical appliances ,food package (such as pop can cover & ring-pull) , furniture etc .

The Performance of PE color coated Coil

1.Thickness < = 0.50MM

Item	Test Item	Standard	National Standard	Test Result
1	Color Difference	ECCA T3	△E<= 2.0	△E<= 1.5
2	Gloss Difference	ECCA T2	<= 10	<= 5
3	Coating Thickness	ECCA T1	Min 14 Micron	Min 16 Micron
4	Pencil Hardness	ASTM D3363	>= HB	>= HB
5	T-Bend	ASTM D4145	<= 3T	<= 2T
6	Adhesion	ASTM D3359	Grade 0	Grade 0
7	Impact	ASTM D2794	>= 20kg.cm	>= 20kg.cm
8	Boiling Water Resistance	GB/T 17748	2 h no change	2 h no change
9	Solvent Resistance	ASTM D2248	200 times paint remaining	200 times paint remaining
10	Salt Resistance	ASTM B117	720 Hrs<= grade 1	720 Hrs<= grade 1
11	Dirt Resistance	GB/T 9780	<= 5%	<= 5%
12	Color retaining		600 hrs △E< = 2	∆E< = 2
13	Gloss weaken level	GB/T16259	600 hrs<= Grade 2	<= Grade 2
14	Chalking	1	600 hrs no change	No change

1.Thickness > 0.5MM

Item	Test Item	Standard	National Standard	Test Result
1	Color Difference	ECCA T3	△E<= 2.0	△E<=1.5
2	Gloss Difference	ECCA T2	<= 10	<= 5
3	Coating Thickness	ECCA T1	Min 14 Micron	Min 16 Micron
4	Pencil Hardness	ASTM D3363	>= HB	>= HB
5	T-Bend	ASTM D4145	<= 3T	<= 2T
6	Adhesion	ASTM D3359	Grade 0	Grade 0
7	Impact	ASTM D2794	>= 50kg.cm	>= 50kg.cm
8	Boiling Water Resistance	GB/T 17748	2 h no change	2 h no change
9	Solvent Resistance	ASTM D2248	200 times paint remaining	200 times paint remaining
10	Salt Resistance	ASTM B117	720 Hrs<= grade 1	720 Hrs<= grade 1
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Processing



Gluing

Use standard metal and aluminium adhesives. Ensure you avoid contact with the polyethylene centre some adhesives will attack and dwcay the



Bending Use a folding table. Min inside radius r= 15xt (t=panel thickness).



Sawing Cicular Saw; trapezoidal/ flat tooth blade Flat teeth chamfered at 45° carbide tipped.



Digital printing There have been numerous Inks tested for compatibility and adherence to YBCND. The company has the large-scale digital printing machine for the customers.



Drilling

YBOND is easily driled-we suggest for best results, the use of bits designed for drilling aluminium and plastic are used.



Slotting

Grooves can also be easily cut usiting a special cutting machine that comes complete with a guide. The v snaped groove is automatically cut into YBOND, which can then be easily ford by hand A minimum thickness of 0, 3mm of the polyethylene must be left on the bottem of back of the decorative face.



Punghing Use a steel band tool on a punching base for 2mm and 3mm thickness. Conventional punching machiness are excellent for this process.



Folding

YBOND Can easily be folded by slotting or routing a groove on the rear of the product, as describes in the slotting and routing section.



Rooll bending 3-roller panel bender is preferable for bending large internal diameters.





Contour cutting

YEOND can laminated manually or by machine using cast or calendared self adhesive foil The quality of polyester finish ensures it does not come off if the foil is changed, photographs can be applied with adhesive film or wet dispersion adhesive, panel musit be clean and free from grease.



Clamping and bolting Can be clamped with a serrated corner Joint and bit secions for **YBOND** thickness of 3mm and 4mm. When bolting, e=2D is the formula to use to calculate the distance of fixing to the end of the panel

Installation Tips















Colors



Above colors are only for reference , please confirm the color with actual samples ; Custom & RAL & Pantone colors are available .

The colors may slightly vary between production lots , to ensure the color consistency . Recommend placing total requirement in one order per project .



Application Field

YBOND ACP, A2 Fire Resistant ACCP building materials based on Light Weight, Colorful ,Excent Processing, Good Fireproof, usually used for Convention Centers, Hospitals, Residential & Commercial buildings; Also popular on signage board, digital & UV printing using etc...



The Airport Constructions



The Hospitals Wall cladding



The Sport Stadium





The Commercial Buildings



The Furniture Board



The Interior Decorations



The Rail Train Covers



The Boat Covers



The Road Sound Insulation Board



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