



Aluminum Composite Panel for Architecture





IBOND---The Professional Supplier of Aluminum Composite Panel Technology Applications in China

In China, IBOND with 3M、PPG and other strategic partners supply the high-quality aluminum composite panels and professional design, installation integration services for the 2008 Beijing Olympics, Sinopec, ICBC, Zheshang Bank, the Singapore Subway System and other customers.

In the world, IBOND has established long-term and stable strategic cooperation with the European and American well-known architecture design groups, applies to the Public Facilities, Landmark buildings and so on.

IBOND has passed the test by the SGS and PSB professional testing institution, has been certified as Class 1.

Raw Material

Basis aluminum: high-strength aluminum alloy Plastic Core: no-toxic low density polyethylene Surface coating: PVDF, manometer paint.

Specification

Thickness: 3-6mm, recommend:4mm

Width: 1000-1575mm, recommend: 1220mm,

1250mm, 1500mm

Length: maximum 5800mm, recommend:2440mm,

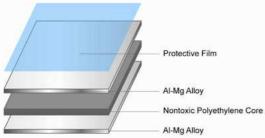
3050mm, 4050mm





Structure

Architecture Panel is composed of nontoxic lowdensity polyethylene core between two sheets of high strength aluminum alloy, with technology of continuous compositing. Beacause of its superior performance in rub-resist, acid-resist and alkaliresist, it is widely used as modern cladding buildings and interior designs.



Architecture Panel Physical Parameter

Testing item	Standard	Result
Unit weight	ASTM D792	T4mm=5.5kg/m2
Thermal expansion	ASTM D696	24-28
Thermal deformation terperature	ASTM D648	115
Thermal conduction	ASTM 976	0.102kcal/m.hr
Flexural regidity	ASTM C393	14.0*10_5
Impact resistance	ASTM D732	1.640 kgf
Adhesive strength	ASTM D903	0.77kg/mm
Flexural Elasticity	ASTM D790	4032kg/mm2
Shear resistance	ASTM D732	2.7kgf/mm2
Fire propagation	ASTM E84	QUALIFIED
Wind-pressure resistance	ASTM E330	PASSED
Properties against water	ASTM E331	PASSED

Feature

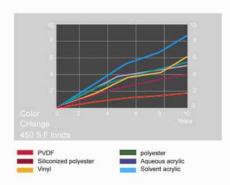
Weather-resistance:Superior weather-resistance and ultraviolet(UV) resistance, acid-resistance and alkali-resistance, suitable for all natural environments. It can be guaranteed 15 years without change of color, its temperature range from-40 to 80;

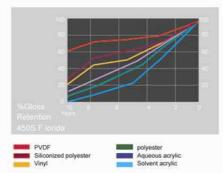
Quality

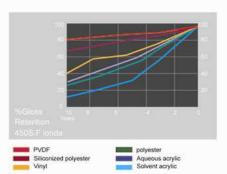
The fully automatic coil coating process is computer controlled throughout all the stages. Coating quality is tested according to the standards established by the ECCA . The long-term durability of coatings can be compared by measuring

·Color change ·Gloss retention ·Chalking

The superiority of PIVOT Ultra-cote UV resistant lacquer systems (PVdF) is shown in the three graphs. The values indicated are taken from tests conducted by the American Coil Coating Association (NCCA) on lacquered surfaces which were exposed to the extreme climatic conditions of South Florida for several year

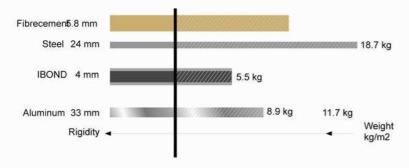








- Economic: The ACP use high quality aluminum sheet and plastic core, it's light to transport, saving the project time.
- Light weight: No pollution, is green building decorative material; Can be easily processed and installed; Light weight, good strength and flexibility;



tigidity Section Modulus Thickness Weight Thickness	Aluminu	
J W	Weight	

- Environment: Superior aging resistance, no coating change, no pollution, anti-acid, and anti-alkali, solvent resistance.
- 5 Color: We can provide 50 kinds of color for your choose. but any color and size are available according to your need.
- Strength: The ACP use high quality aluminum, has greatly enhanced the strength of ACP, ensuring that the curtain wall wind pressure resistance, prevention of leakage, and the shock effect.
- Surface smooth: The fire-resist ACP provide superior and smooth surface, satisfying the modern building on the pursuit of high-perception. The ACP's surface is much more smooth than aluminum sheet.



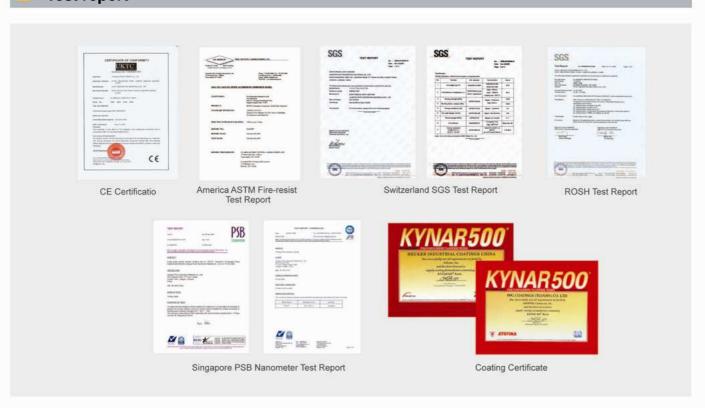




Use Standard

- 1 Take care during loading and discharging, as well as transport, to avoid watering and scraping the aluminum surface.
- The aluminum composite panel should be laid flat no matter during transport or storage. If side-laid, the panel should be vertical to the floor, panels should lean closely. The storage should be not more than 6 months.
- B lbond could be sawing, cutting, slotting, bending, punching and painting.
- Slotting should use the "V" shaped and sharp blade. The width of the groove bottom should be 2.5-4mm, the rotating speed is 2000-3000/min and the groove speed is 3-5m/min. To avoid the aluminum panel peel off as meltting the adhesive while slotting, we should reserve 0.2-0.4mm polyester above the aluminum panel and reserve 20mm to the edge of the panels.
- When we fold the Ibond, we should fold uniformly with once, do not fold repeatedly.
- 6 If raining, do not fill silica-gel.
- When decorativing with globoidal panel, we should use the bending equipment, and the semidiameter of curvature is more than 20cm.
- To avoid the color-difference, please install in accordance with the arrow in the direction of the installation.
- Don't tear protective film off before completion of the work in case of any scratch and abrasion to the panel surface before the project is finished. We suggest to tear it within 45 days after the project is finished.
- The panel will be not flat, if we use the resin or sclerous adhesive to install the indoor panel. It is better to use the splint or similar material for bottom board instead of direct adhere to the cement wall when installing.
- The measure of the framework equipment is not more than 600mm*600mm. The interior panel only used for the indoor decoration, not for the outdoor decoration.

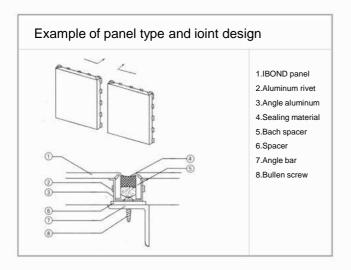
Test report

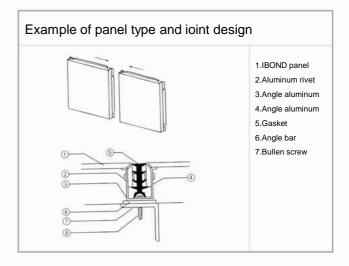


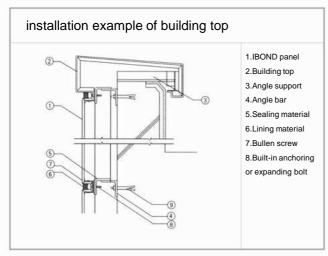


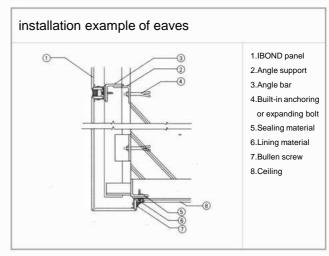


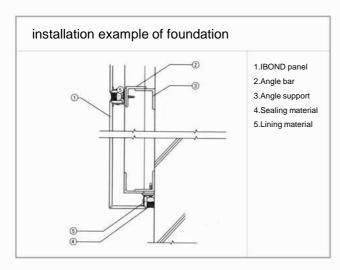
Scheme of installation

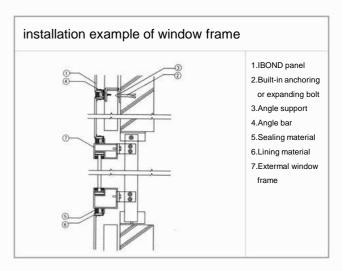




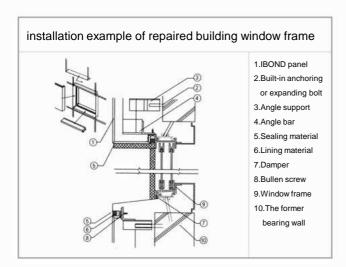


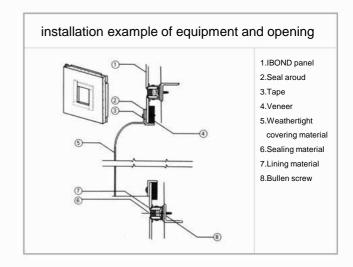


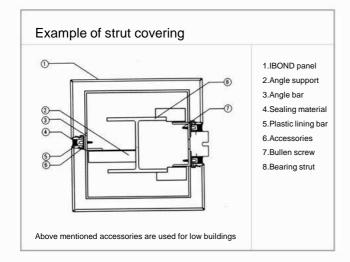


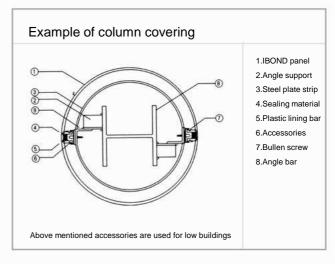


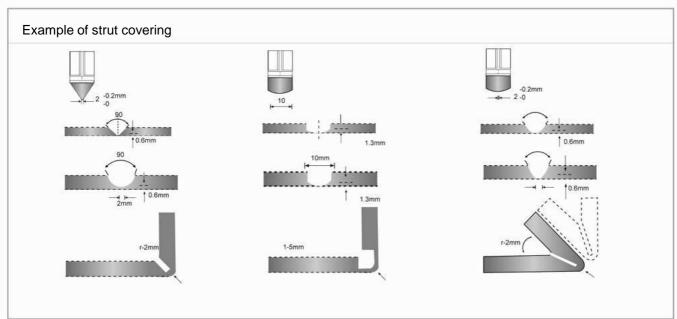














Example of Project

ACP becomes one of the best cladding materials in the world because of its advantage. It's widely used in buildings as follow:

Office buildings, luxury residential, villas, hotels, shopping centers, entertainment venues, gas stations, auto 4S stores, chain stores, subway, the walls, and other decorative.

Curtain wall, internal and external wall, Ceiling, eaves, balcony, Galleries, exhibitions, partitions, Advertise fascia, Showing and display platform.

recondition of old buildings, the dust project cleaning



Olympic News Office Center



Qatar-Golden Plaza



Jiangsu Education Office Building



Indonesia Plaza ABDA & Sudirman Mansion



Jiangsu Shuofang Internation Airport

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