



ALUMINIUM SOLID PANEL

DESIGNER SERIES AN ARCHITECTS DREAM



SKY RAINBOW

ALUMINIUM-PLASTIC COMPOSITE PANEL
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ABOUT US

JIANGYIN HRL NEW MATERIAL TECHNOLOGICAL CO.,LTD. a pioneer manufacturer in aluminum composite panel industry, is equipped with:

1 adhesive film line;

2 coating lines;

6 lamination lines ---- one is of extreme 2000mm width set up firstly in China.

With over 20 years' experience, we have successfully stretched our bones all over the world by providing our clients with quality and innovative products:

Sky Rainbow® Aluminum composite panel

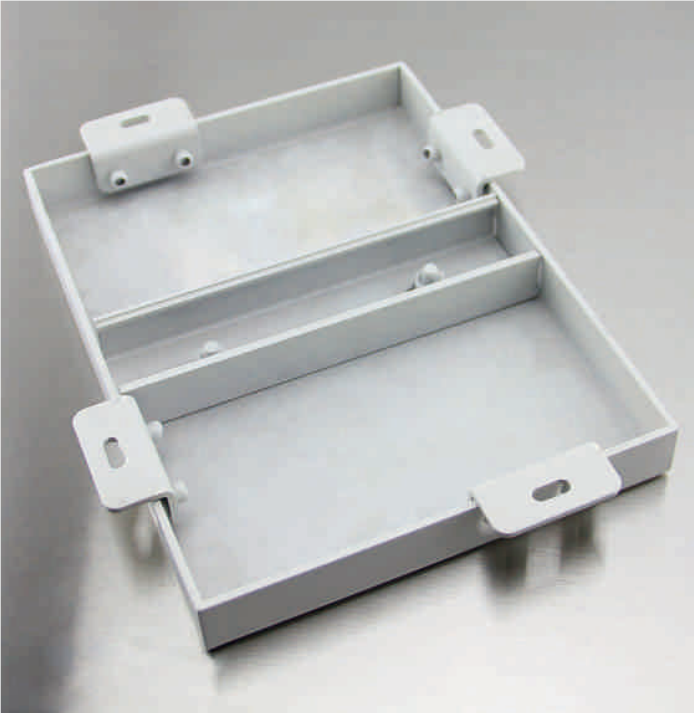
Sky Rainbow® Aluminum Lattice composite panel

Sky Rainbow® Aluminum honeycomb panel

Sky Rainbow® Steel composite panel

All above Sky Rainbow® products are born in wide applications, such as interior decoration, cladding construction, elevator fabrication, transportation vehicles constitution and so on.

Sky Rainbow® commitments to the total fulfillment of our clients' expectations are achieved by a complete quality control system, beginning at the point of raw materials acquisition all the way through to delivery of the final guaranteed products. All activities are ensured by the professional QC team and delicate laboratory equipment in line with various international standards: European Germany DIN, Commonwealth UK BS, American ASTM, Middle East, etc. Furthermore, it is non-negotiable that all our products are environmentally friendly, compliant to RoHs, Reach and Green Leaf.



PRODUCT DESCRIPTION

Sky Rainbow® aluminum solid panel is made of pure aluminum sheet.

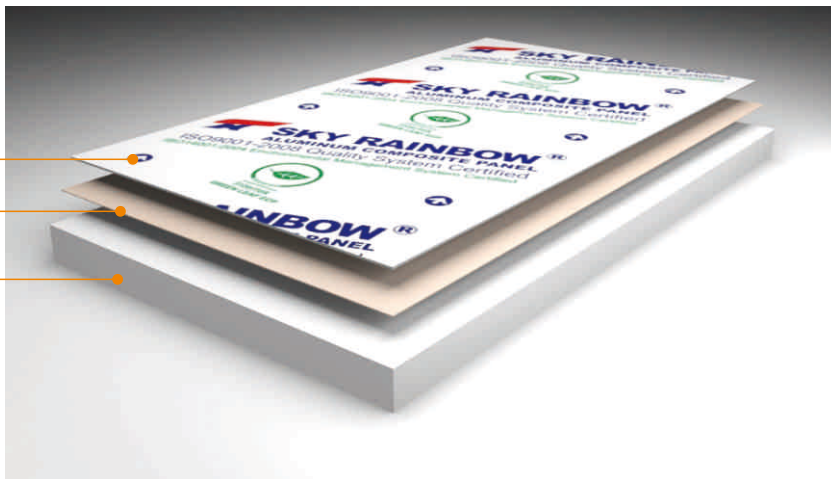
Sky Rainbow® aluminum solid panel is recognized for its non-combustibility, flat surface, high rigidity, diverse colors and finish, easy processing, outstanding resistance against weather and pollution. Thanks to these key advantages, it is born for exterior facade, rainscreen wall cladding, roofing, tunnel lining and so on.

Testing Item	Result
EN13501-1	Class A1
AS1530.1	Non-combustible



AA3003 or AA5005 Aluminium

- Protective film
- Color Coating (PVDF, Nano-PVDF)
- Aluminium Sheet



PANEL STRUCTURE



DIMENSIONS

DESCRIPTION	RANGE	STANDARD
Panel thickness(mm)	1-4	3
Width (mm)	1000-1500	1250, 1500
Length (mm)	1000-1500	2440, 3050, 3200, 4000, 5000
Alloy	1000, 3000, 5000	1100, 3003, 5025
Weight (kg/m ²)	3mm: 8.1	

TOLERANCE

DESCRIPTION	TOLERANCE
Width (mm)	±2mm
Length (mm)	±3mm
Thickness (mm)	±0.2mm
Diagonal Line Difference (mm)	≤5mm
Edge Straightness (mm)	≤1mm
Surface quality	The surface shall not have any imperfection such as dents, bubbles, scratches, waves and paint lost.

PHYSICAL PROPERTIES

Item	Standard	Result
Tensile strength	ASTM E8-04	164 MPa
Elongation	ASTM E8-04	≥7.8% for AA3003

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QUALITY INSPECTION

Sky-rainbow® commitments to the total fulfillment of our clients' expectations are achieved by a complete quality control system that all activities are carried out by means that:

- Adopting raw materials – paint, alloy, and adhesive film of excellent performance;
- Recruiting professional inspectors following through the whole production;
- Testing the raw materials to end products by advanced laboratory apparatus;
- Setting an exposure area with tremendous samples for quality tracking after delivery;
- Appointing a considerate aftersales team for quick problem-solving if any imperfection.

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ADVANTAGE

- Fire-proof with A1 grade;
- High rigidity;
- Diverse colors & gloss;
- Excellent mechanical formability;
- High resistance to weather and pollution;
- Trouble-free maintenance.
- Less Minimum Order Quantity request.

30W
COMPOSITE PANEL
ARCHITECTS DREAM



FINISHES

PVDF:

Sky Rainbow® PVDF (polyvinylidene fluoride) adopts PPG & Becker Kynar500 & Hynar5000 paint, which are mainly composed by PVDF resin (at least 70%), Acrylic resin and toner.

PVDF 2 coats is composed of primer and top coat with total thickness of $26\pm 1\mu\text{m}$ while PVDF 3 coats includes primer, top coat and clear coat with total thickness of $32\pm 1\mu\text{m}$. It ensures durable resistance to weather, chemical, pollution and radiation. It also provides excellent surface flexibility not to crack and peel off under correct fabrication.

The standard warranty is 15~20 years based on the specific location. Its superb performance in gloss retention, color adhesion and chalk resistance has been proved for more than 40 years and is still being tested in Florida exposure base.

NANO-PVDF:

PVDF coat comprises a highly cross-linked surface, which means dirt retention on the surface is minimal. NANO-PVDF, with NANO coat on top of PVDF coat, fills the surface to be smooth, making dirt and oils difficult to stay in and also protect the PVDF coat from UV rays. Thus, NANO-PVDF behaves better in weather-resistance, pollution-resistance and self-cleaning than PVDF.

The standard warranty is 15~20 years based on the specific location.

Anodized:

Anodizing is an electrochemical process, not an applied coating. The surface of the aluminum is converted to an aluminum oxide as a result of reactions occurring in an acid and electricity. It uses everyday light to create shimmers and other arresting effects that change from every angle and reward every glance. Naturally protected by the anodic film, it creates a durable, low-maintenance finish. It is scratch-resistant and will never chip, flake or peel.

The standard warranty is 20~30 years based on the specific location.

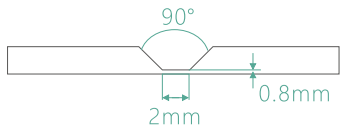




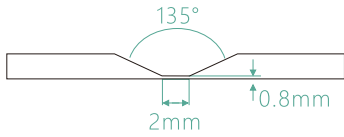
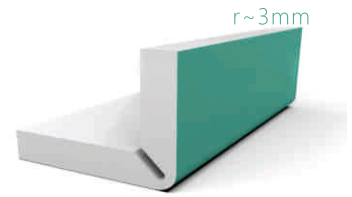
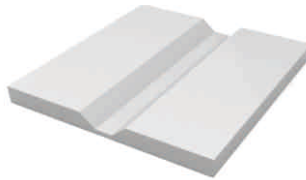
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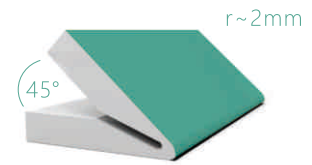
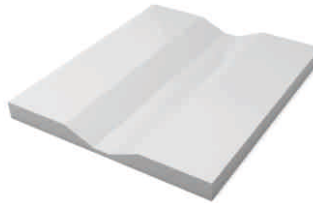
GROOVING



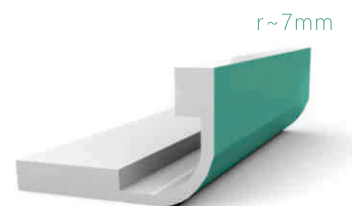
90°V-groove for folds up to 90°



135°V-groove for folds up to 135°



Rectangular(U-) groove for folds up to 150°, depending on panel thickness.

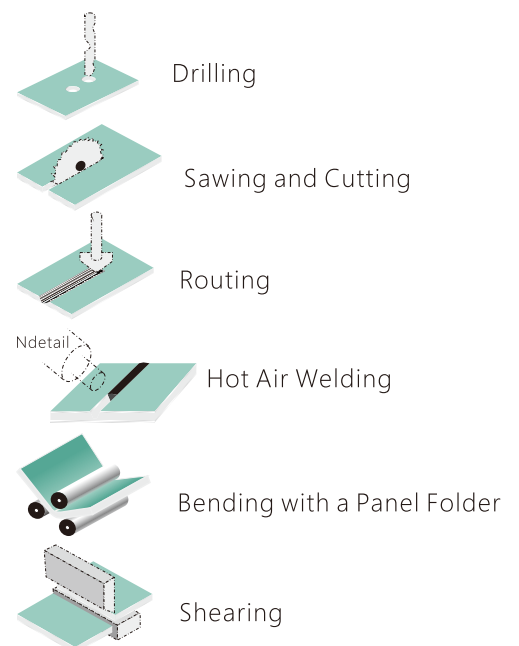
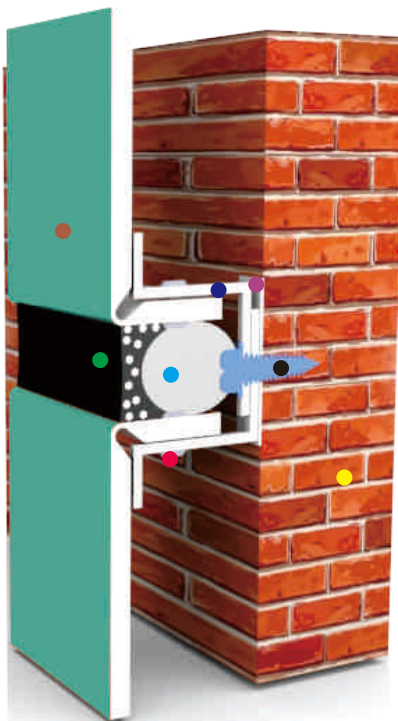


Thanks to the excellent flexibility of the coating and the aluminum, Sky Rainbow® aluminum solid panel can be easily grooved, curved, folded and shaped.

Please read above manufacturing instructions carefully on the processing and application.

HORIZONTAL JOINT DETAIL

-  3mm Panel
-  Weather Proofing Silicone
-  PE Foam Rod
-  Rivet
-  Self-tapping Screw
-  Aluminium profile
-  Isolation Tape
-  Square Tubes





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CLEANING AND MAINTENANCE

Recommended Method Of Cleaning

- ◇ Adhere to the manufacturers or suppliers maintenance recommendations.
- ◇ Your building may be washed with water, a mild detergent, a 5-10% IPA (Isopropyl Alcohol) solution or other types of mild solvents.
- ◇ When alcohol is used, it is safe to dilute less than 50% with water. When undiluted alcohol is required, pretesting should be done to confirm no damage to the finish.
- ◇ The cleaning operation must be followed by a thorough rinse with clean water.
- ◇ A final wipe down by means of a sponge, lather or wipe is recommended to avoid water stains.
- ◇ Ideally, cleaning should be done on the shaded side of the building under moderate temperature.
- ◇ During cleaning, all access equipment such as ladders, staging, mobile scaffold, cherry pickers or similar, should be prepared with pads to protect the panels from impact. Improper cleaning resulting in coating damage shall not be covered by terms and conditions of product warranty.
- ◇ Do not use strong organic solvents, Do not use strong alkali, strong acid and/or abrasive cleaners. If these solvents and cleaners were used, the paint may swell, flake or crack.
- ◇ Water blasting is not recommended. Do not mix different cleaners. If cleaners needed to be mixed, please follow the manufacturer's instructions.
- ◇ Avoid extreme temperature to clean the coated surface. Sun-heated. Avoid extreme temperature to clean the coated surface. Sun-heated surfaces (above 40°C) may accelerate chemical reactions and may evaporate the water from solution leaving residue and stains. On the contrary, extremely low temperature may give poor cleaning effects.



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