

# ALUMINUM COMPOSITE PANEL

For Signage and Digital Printing



# SKY RAINBOW

ALUMINUM-PLASTIC COMPOSITE PANEL

DESIGNER SERIES AN ARCHITECT'S DREAM



## 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 production 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 signage board, digital printing, interior decoration, cladding construction, elevator fabrication, transportation vehicles construction 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.

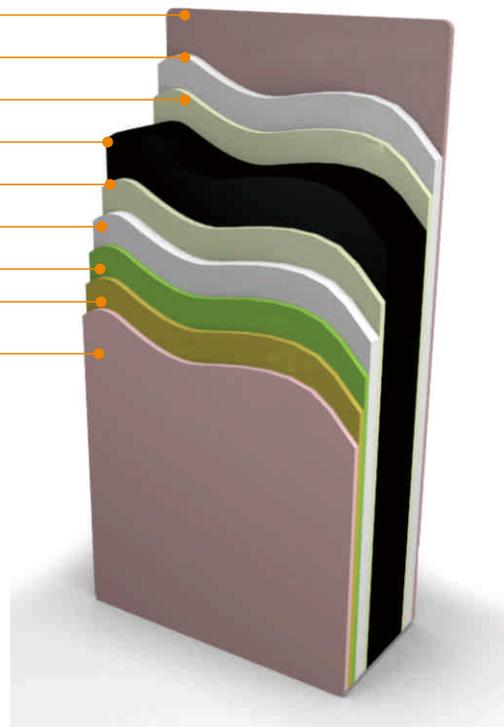
# SIGNAGE PANEL

Sky Rainbow® signage aluminum composite panel is composed of two aluminum sheets and a polyethylene core that are laminated in the continuous process with high temperature.

Sky Rainbow® signage aluminum composite panel is recognized for its light weight, 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 guidance sign, advertisement board, exhibition display, shop fitting, digital printing and interior decorations.



- Mill Finish or Primer Coating or PE
- Aluminum Skin
- Adhesive Film
- LDPE
- Adhesive Film
- Aluminium Skin
- Pretreatment
- Color Coating( PE& HDPE)
- Protective Film



## PANEL STRUCTURE

# SIGNAGE PANEL SPECIFICATION

Description	Standard
Aluminum Skin Thickness	0.10mm, 0.12mm, 0.15mm, 0.21mm, 0.25mm, 0.30mm
Aluminum Alloy	AA 1100, AA 3003
Panel Width	1000mm, 1220mm, 1250mm, 1500mm, 1525mm, 2000mm
Panel Thickness	2mm, 3mm, 4mm, 6mm
Length	2440mm, 3050mm, 3660mm, 4050mm
Core Material	PE, FR
Color	Gloss/Matt, Can be customized
Coating	PE & HDPE
Paint Thickness	16±1µm for PE coating
Warranty	PE: 3~5 years, based on the exact color and location HDPE: 8~10 years, based on the exact color and location
Certification	RoHS, Green leaf
Coating Flexibility	2T
Temperature Resistance	-40°C ~ +80°C
Impact Strength	30~50kg/cm <sup>2</sup>
Boiling Water Resistance	2 Hrs, No Change
Acid Resistance	2% HCL, 24 Hrs, No Change
Solvent Resistance	200 times by MEK
Cleaning Resistance	>1000 times, No change
Peel Strength	0.21/3mm: ≥4N/mm
MOQ	800M <sup>2</sup>
Delivery	10-25 days





## DIMENSION TOLERANCE

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

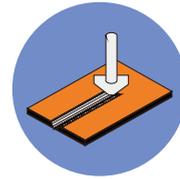
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## ADVANTAGES

- Extremely flat surface;
- Light weight yet superb rigidity;
- Unlimited color range and versatile finishes;
- Innovative digital printable panel with high Dyne and easy-peel film;
- Excellent mechanical formability allowing easy folding, curving and shaping;
- Outstanding resistance against weather, radiation, chemical and pollution;
- Environmentally friendly production and trouble-free maintenance;



light



Easy to install



Diverse



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Weather resistance



Eco-friendly



Corrosion resistant





FINISH

PE:

Sky Rainbow® PE adopts PPG, Becker and Fullsun paint, which is of unlimited colors and diverse gloss, from quiet to fresh colors, from low gloss up to 95% degree. Further, it is cost-considerate towards the materials that need frequent replacements.

The standard exterior warranty is 3~5 years based on the specific location.

HDPE:

Sky Rainbow® HDPE has unlimited color ranges and high gloss choices as well, but compared to standard PE, it has better performance in mechanical flexibility, abrasion resistance and UV resistance.

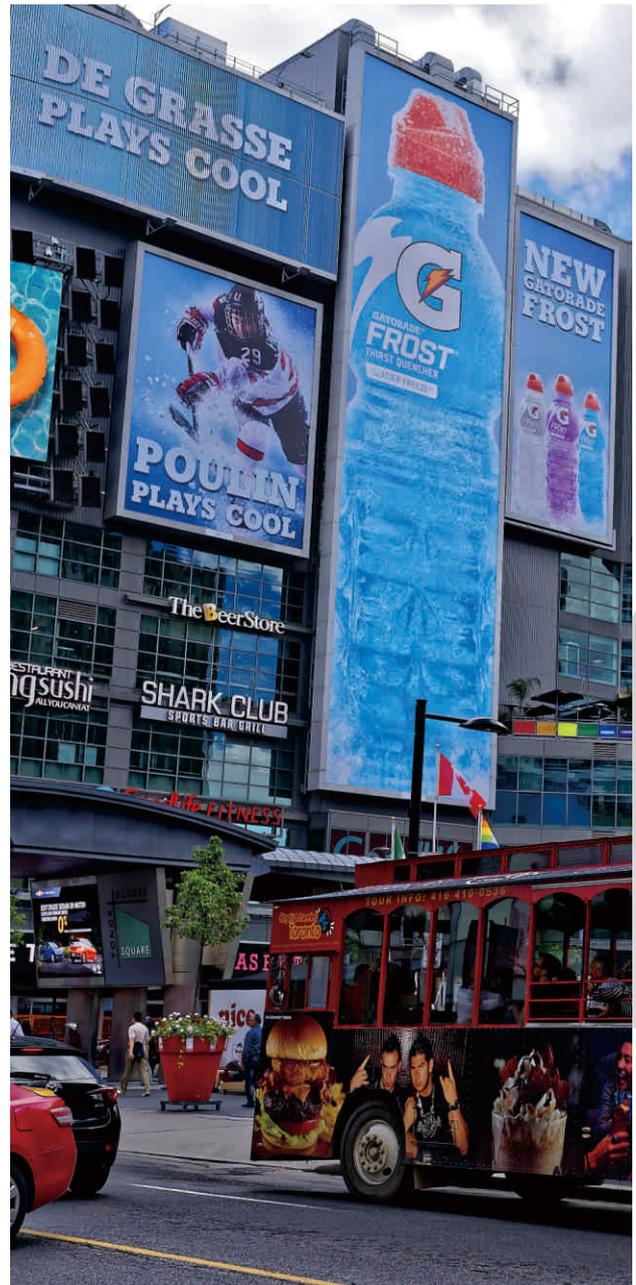
The standard warranty is 8~10 years based on the specific location.

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 10~30 years based on the specific location.

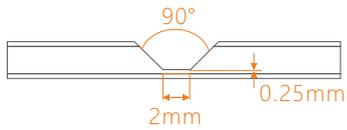




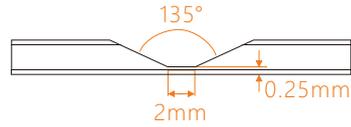
# APPLICATION

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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 superb formability of the plastic core, Sky Rainbow® aluminum composite panel can be easily grooved, curved, folded and shaped.

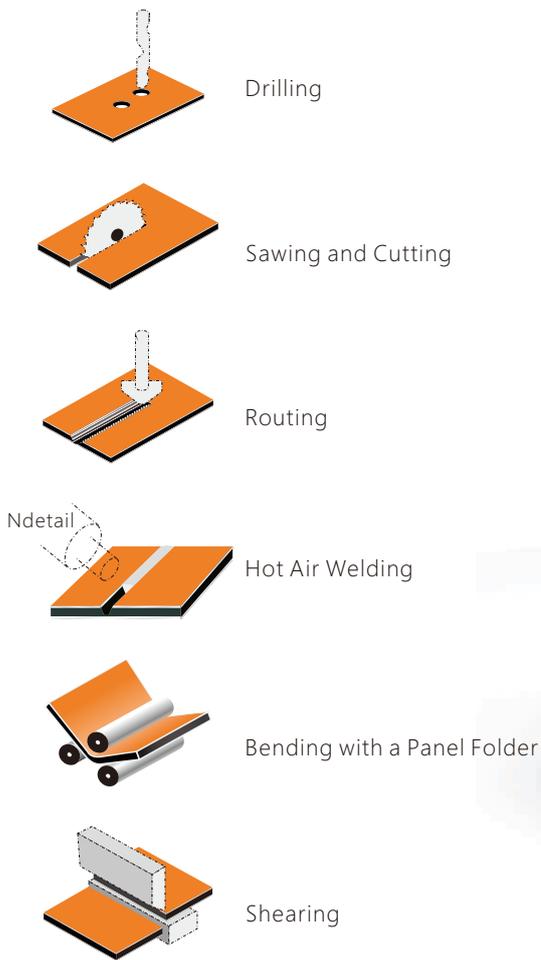
Please read above manufacturing instructions carefully on the processing and application.

## CLEANING AND MAINTENANCE

Thanks to the quality coating and advanced manufacturing process, the surface of the panels is extremely flat and pollution-resistant. This makes the panels to be trouble-free maintained. If applicable, wash off the slight dirt and soiling by water and sometimes by a neutral agent in a soft manner if necessary.

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# HORIZONTAL JOINT DETAIL

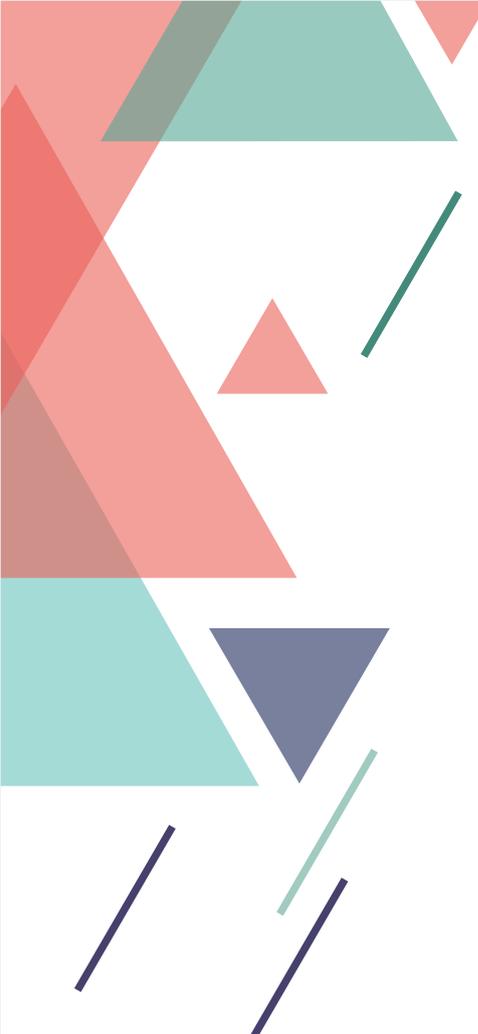


- 4mm Panel
- Weather - Proof
- PE Foam Rod
- Rivet
- Self-tapping Screw
- Aluminium profile
- Isolation Tape
- Square Tubes

## PACKAGING

To meet different clients' requirements, various ways of packaging are available. The wooden bars of the pallets could be of 5x7cm, 7x7cm, 7x10cm and the beams could be 3, 4, 5 to stand different weights. The side protection could be MDF, plywood and even protective film only to adapt different climate and unloading ways. Besides, nude packing is preferred by some clients to make full use of the space. In a word, the packaging should be strong yet easy enough during the loading, transportation, unloading and the storage.





Designer Series An Architect's Dream

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