



Sky-High[®]

Aluminium Composite Panel



High-Class
Building Material
for The New century

**COLOR
CHART**

SKY-HIGH

ALUMINIUM COMPOSITE PANEL



CERTIFICATE



S

SKY-HIGH / FR

FIRE RETARDANT CORE



SKY-HIGH FR CORE (FIRE RETARDANT CORE) is an innovative ACP solution composed of two rigid top-grade aluminum sheets and a certified non-combustible inorganic core. Processing under continuous high temperature and pressure, SKY-HIGH FR CORE certified under GB8624-2006, BS-476 part 6/7, ASTM-E84 and EN13501-1 standards FR therefore is a solution for exterior cladding projects that require high fire retardant and excellent mechanical strengths.



Sky-High Aluminium Panel



Sky-High Fire-Retardant Core

Extraordinary strength-to-weight ratio, rigidity, flatness and formability. Outstanding weatherproof and easy to clean. Wide range of surface colors and textures to satisfy creative planning and designs. Environmentally friendly that can be recycled 15 years lifespan warranty.

**S**

Specifications

Brand Name : SKY - HIGH ACP

Surface finish : Polyester Coating

: PVDF - Polyvinylidene Fluoride Coating 70 : 30
(Kynar 500 or Hynar 5000)

Material Core : Polyethylene (PE) or Polyethylene Fire Retardant (FR)

Back Panel Coating : Polyester

1. STANDARD SIZE :

Width : 1250 mm
Length : 2500 mm or 3200 mm
Total thickness : 3mm, 4mm
Alu thickness : 0.21mm, 0.30mm, 0.40mm

2. OPTION :

Width : 900 mm - 1575 mm
Length : Any length
Total thickness : 2 mm, 3 mm, 4 mm, 5 mm, 6mm
Alu. thickness : 0.15 mm, 0.21 mm, 0.30 mm, 0.40 mm, 0.45 mm, 0.50 mm

3. STANDARD COLOURS : more than 48 colours

Non standard colours can be customized according to customer's requirement



F

FEATURE OF

SKY-HIGH ALUMINIUM COMPOSITE

COATING SYSTEM OF SKY - HIGH ACP

● Polyester (PE) Coating :

High molecular polymer as monomer and addition of alkyd, is an UV - resistance coating. It can be classified matt and glossy according to coating gloss. The compact molecule structure, makes paint surface luster and smooth, which assure good printing on the panel surface. With a warranty of 8 -10 years for weather resistance, it is specially applied for internal decoration and signboard.

● PVDF (Polyvinylidene Fluoride) Coating :

Made of fluoride carbon resin, pigment, ester solvent, after high temperature roasting and baking, the paint is solidified to dry film with super weather resistance. PVDF coating also can be classified as traditional PVDF and nanometer PVDF coating.

1) Traditional PVDF Coating, with KYNAR 500 PVDF,

Two or three times for coating and baking, has good properties of anti - acid, anti - alkali and is durable in atrocious weather and environment, keeping 15 years no unwanted fading. In view of these fact, we recommend this panel applied for external wall cladding.

2) Nanometer PVDF Coating

Which different with traditional PVDF is the clear coating. It contains nanometer element, which can protect panel from pollution, because nanometer has self - cleaning effect. It easy to get rid of dust and pollution by raining or water.

● FEVE Coating :

Which is a high-quality paint for one or more coatings, with polyurethane as base, fluoropolymer as top coating to keep its good weather resistance of 10 years. Compared with PVDF, it guarantees more fresh and vivid color and high gloss retention. Its creativity and individuality offer unlimited possibilities for the planner. It is available in colors that are not feasible with other coating systems.

A. Brushed panel, which are made some special process on natural aluminum, presents the nature and beautiful appearance together with modern and elegant.

B. Granite panel can be processed by film-sticking and painting. The former means stick one layer of film with granite pattern. It is very easy. And the latter is painted and roasted for three or four times with a better weather resistance.

C. Mirror finish panel, which need anodic oxidation finishing on aluminum surface, the finishing makes the surface like mirror. It is more safely using and processed to all shapes.





Mechanical properties

OF ALUMINIUM COMPOSITE PANEL



Testing Item	Standard	Result
Unit weight	ASTM D792	T3min=4.77kg/m ² T4mm=5.71kg/m ²
Outdoor temperature resistance	ASTM D1654	No abnormality
Thermal expansion	ASTM D696	3.0X10 ⁻⁵ °C ⁻¹
Thermal deformation	ASTM D648	115°C
Thermal conduction	ASTM 976	0.102kcal/m.hr °C
Flexural rigidity	ASTMC393	14.0X10 ⁵
Impact resistance	ASTM D732	50kg.cm
Adhesive strength	ASTM D903	0.74kgf/mm
Sound-insulation rate	ASTM E413	29 dB
Flexural Elasticity	ASTM D790	4055kg/mm ²
Shear resistance	ASTM D732	2.6kgf/mm ²
Minimum bending radius	ASTM D790	≥300mm
Fire propagation	ASTM E84	Qualified
Smoke developed	ASTM E84	45
Wind-pressure resistance	ASTM E330	Passed
Properties against water	ASTM E331	Passed
Properties against air	ASTM E283	Passed



PVD COATING FINISH

Testing Item	Standard	Result
Finish coat thickness	ISO2360(CNS 8406)	≥28um
Gloss	ASTM D523-99	25-50%
Pencil hardness	ASTM D3363-00	F
Toughness	ASTM D4145-83	2T no rift
Adhesive force	ASTM D3359-97	4 B
Impact resistance	ASTM D2794-93	>100kg.cm
Abrasion resistance	ASTM D968-93	64. 6L/mil
Mortar resistance	ASTM 605.2-91	24 hrs No blister
Humidity resistance	ASTM D714-97	4000 hrs No Blister
	ASTM D2247-02	
Boiling-water resistance	ASTM D3359-B	Passed
Salt-spray resistance	ASTM B117-03	4000 hrs No Blister
Acid resistance	ASTM D1308-87	No Effect
	AAMA 605.2-91,TEST#7,7.31	
Alkali resistance	ASTM D1308-87	Passed
Solvent resistance	ASTM D2248-73	Passed
	ECCA T5&NCCA NO.11-18	
Color retention	ASTM D2244-93	△E=0.32
Chalk resistance	ASTM D4214-98	No Chalking
Gloss retention	ASTM D2244-93	86.8%



SOLID COLOUR

Polyester Coating

FEVE Coating



SH 8134 White Glossy



SH 8200 Glossy Yellow Bay



SH 6814 Glossy Orange



SH 6154 Glossy Red ES



SH 6820 Glossy Spring Green



SH 8302 Blue KTB



SH 6836 Glossy Night Blue



SH 8301 Purple DLT



SH 6819 Glossy Black



Standard Colour : More Than 48 Colours

Colour Match For custom colour request, we can deal as following

1

Supply a physical sample of custom colour. A colour sample on metal is preferred, but if other, it is also acceptable, but the colour matching rate maybe not good as colour on metal.

2

New colour sample is usually offered by our paint supplier in 5-7 day, special colour should be in 7-10 day.

3

Upon receipt of colour sample, please approve in writing as soon as possible. Once you approve, we will arrange purchasing and production.



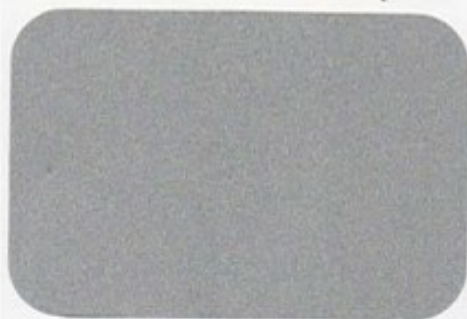
Colour difference maybe occurred in different production batch, so it is suggested all panel are placed in one order for same project. And keep same direction as arrow on protective film when installing to avoid and colour



METALLIC COLOUR

Polyester Coating

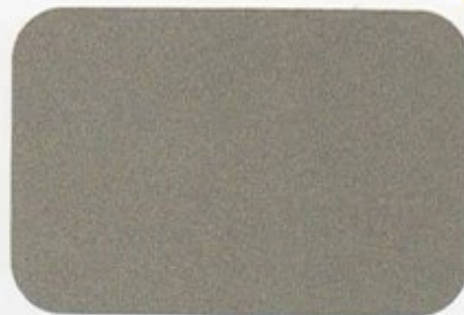
PVDF Coating



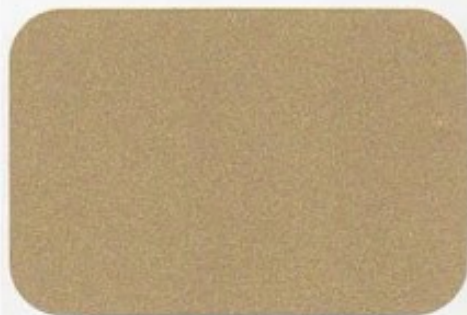
SH 6212 Bright Silver



SH 6211 Grey Silver



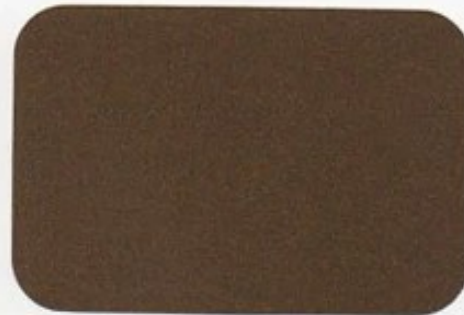
SH 6214 Champagne Silver



SH 6224 Metallic Gold



SH 6221 Red Golden



SH 8801 Copper Brown Metallic



SH 6015 Grey Metallic



SH 8803 Dark Grey Metallic 2016



SH 6223 Sparking Black



SPECIAL COLOUR



SH 6501 Spectra Red Golden



SH 6502 Spectra Champagne Silver



SH 6601 Nacreous Dark Red



SH 6603 Nacreous Red



SH 6605 Nacreous White



SH 6606 Nacreous Blue



SOLID COLOUR

Polyester Coating

PVDF Coating



SH 6111 Pure White



SH 8132 White 2016



SH 6053 Rusty Brown



SH 6152 Medium Red



SH 6121 Medium Yellow



SH 6016 Yellow Bay



SH 8502 Orange 2016



SH 6118 Medium Orange



SH 8501 Orange BJ



SH 8403 Green 2016



SH 8402 Green RB



SH 6119 Light Green



SH 6010 Green CT



SH 6124 Post Green



SH 6011 Blue

BUILDING DECORATIVE INTERIOR & EXTERIOR / SIGNAGE MATERIALS



SOLID COLOUR

Polyester Coating

PVDF Coating



SH 6122 Telecom Blue



SH 6012 Royal Blue



SH 6114 Grey White



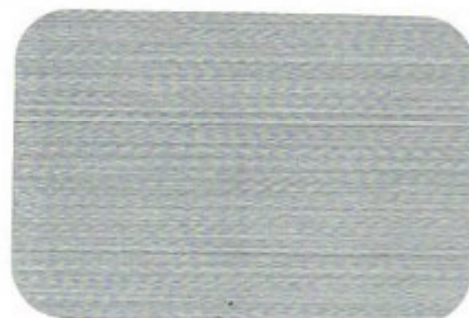
SH 6130 French Grey



SH 6006 Grey



SH 6021 Black



SH 6311 Silver Brush



SH 6312 Golden Brush



SH 6320 Silver Mirror



CHARACTERISTIC OF SKY-HIGH ACP



ECO-FRIENDLY

Environmentally friendly.
Does not pollute.



COMPETITIVE PRICE

Good quality products at
affordable prices.



VARIETY OF COLOURS

According to customers
preference.



FIRE RETARDANT

With fire retardant core
make your building safety.



QUICK INSTALLATION

Can be easily processed
and quickly installed.



STRONG & DURABLE

Difficult to break and
high impact resistance.



WEATHER RESISTANCE

Able to stand up against
a range of weather conditions.



SOUND INSULATION

Reduce noise pollution
for buildings.



SPECIAL COLOUR

PVDF Coating

WOOD AND MARBLE



Sky-High[®] Aluminium Composite Panel

WOOD



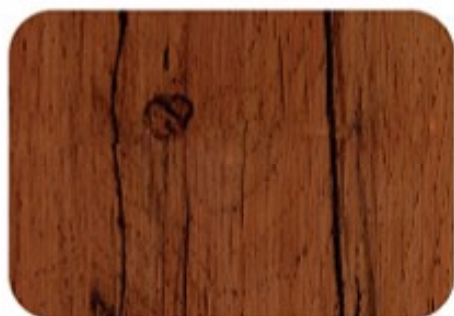
SH-9811 White Maple



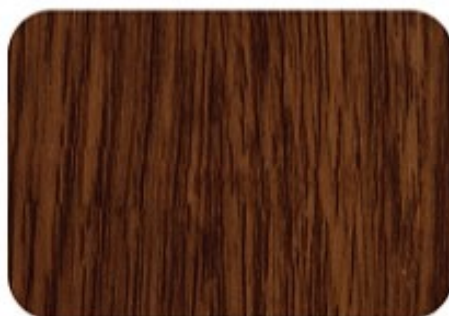
SH-9812 Dark Teak



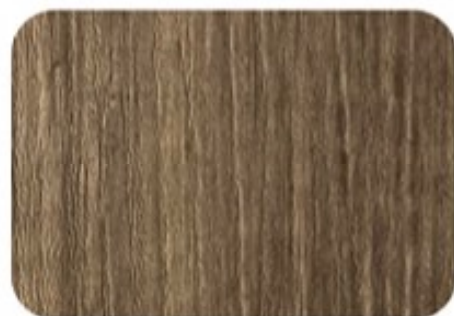
SH-9814 Golden Teak



SH-9815 Walnut Timber



SH-9817 Light Walnut



SH-9818 Beige Oak



STANDARD SIZE 1.25 x 2.44 m 4mm 0.30*0.30 mm

Sky-High[®] Aluminium Composite Panel

MARBLE



SH-9823 White Marble



SH-9824 Grey Marble



SH-9825 Concrete Loft



CELL NATURE CNA BIOTECH WAREHOUSE



LIGER MEDIA HEADQUARTERS



TROFCO BUILDING



GOVERNMENT HOUSING BANK



CLUB HOUSE



THAILAND POST OFFICE



MERCEDES BENZ ME BOX



BANK OF AYUDHYA HEAD OFFICE RAMA III



ROI-ET SCIENCE AND CULTURAL CENTRE



Sky-High[®]

Aluminium Composite Panel



LIGER MEDIA



Tel. 02-426-5075-8
www.skyhigh-acp.com