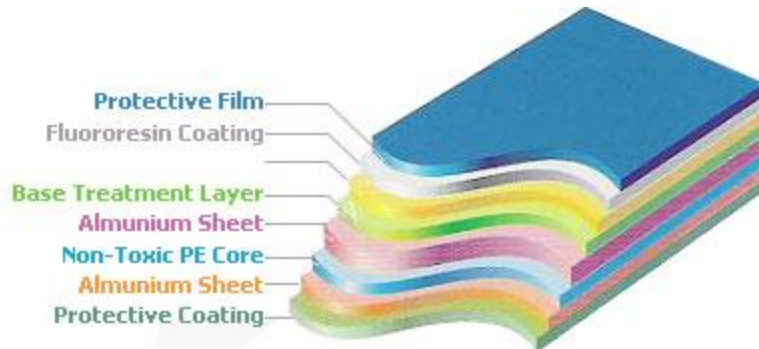


Aluminum Composite Panel:

Aluminum composite panel is composed of non-toxic and low density polyethylene core between two sheets of aluminum by using "extrude and continuous composite" compositing production line.

The surface of aluminum composite panel is coated with either fluorocarbon resin (KYNAR 500 / HYLAR 5000 PVDF > 70%) or PE resin. Panel is produced with various core thicknesses in a continuous lamination process.



Available Sizes

Thickness: 2mm, 3mm, 4mm, 5mm, 6mm (product tolerance $\pm 0.2\text{mm}$)

Width: from 1220 to 1500mm (product tolerance $\pm 2.0\text{mm}$)

Length: to customers' requirement; maximum 6000mm (product tolerance $\pm 4.0\text{mm}$)

Colors

30 standard colors / customized colors (please refer to color chart)

Coating

PE (Polyester) coating has a coating warranty for 10 years

PVDF (Fluorocarbon) coating has a coating warranty for 15 years

NANO PVDF (Fluorocarbon) coating has a coating warranty for 20 years

Aluminum Sheet / Aluminum Alloy

Aluminum Coil Thickness: 0.10 ~ 0.50 mm (product tolerance $\pm 8 \sim 10 \%$)

Standard Aluminum Alloy: A 1100 H18

Subject to Minimum Order quantity material is also available in:

Aluminum Alloy 3003 H 16, 3105 H 16, 5005 H 16 and Custom Made / Special Size

Technical Properties:

Thickness		2mm	3mm	4mm	5mm	6mm
Aluminum cover sheet	[mm]	0.25		0.50		
Weight	[kg / m ²]	2.25	3.5	5.60	6.55	7.60
Section modulus	W [cm ³ / m]	0.91	1.25	1.75	2.10	2.75
Rigidity	EJ [kNcm ² / m]	880	1250	2400	3250	5900
Width (standard size)	[mm]	1220 / 1250 / 1500				

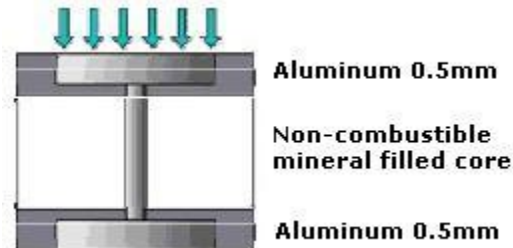
Mechanical Properties of Aluminum Cover Sheets:

Alloy	A3003
Modulus of elasticity	7,000 kg / mm ²
Tensile strength of cover sheets [N/mm ²]	Rm ≥ 130
Proof stress [N/mm ²]	Rp0.2 ≥ 90
Elongation	A50 ≥ 5%
Linear expansion	2.4mm/m at 100°C temperature
Yield strength	15.5 kg / mm ²

Physical Features	Test Value
Bending strength	119 Mpa
Bending modulus of elasticity	3.48 x 10 ⁴
Penetrating resistance	9.9KN
Shearing strength	32.8Mpa
180° peel strength	11.4N / mm
Thermal expansion coefficient	1.6 x 10 ⁻⁵
Temperature of thermal	112 °C
Temperature resistance	-40 °C to +80 °C

FR Aluminum Composite Panel:

FR Aluminum Composite Panel is a fire-safe material that passes mandatory requirements for exterior application. It is composed of fire-rated high mineral fill core sandwiched between two skins of 0.5mm thick aluminum. The core of FR Aluminum Composite Panel is white or grey containing a non-combustible mineral wool.



Available Sizes

Thickness: 4mm and 6mm (product tolerance $\pm 0.2\text{mm}$)

Width: from 1000mm to 1500mm (product tolerance $\pm 2.0\text{mm}$)

Length: to customers' requirement; maximum 6000mm (product tolerance $\pm 4.0\text{mm}$)

Colors

30 standard colors / customized colors (please refer to color chart)

Coating

PE (Polyester) coating has a coating warranty for 10 years

PVDF (Fluorocarbon) coating has a coating warranty for 15 years

Fire Safety Performance

British Standard 476: Part 6: 1989

British Standard 476: Part 7: 1997

(Class "0" Rating)

Mechanical and Technical Properties:

Thickness	4mm	6mm
Aluminum Alloy	A3003 H18	A3003 H18
Tensile Strength	166 N/mm ²	166 N/mm ²
0.2% Proof Stress	115 N/mm ²	115 N/mm ²
Elongation	22 %(DIN EN 485-2)	22 %(DIN EN 485-2)
Modules of Elasticity	70,000 N/mm ²	70,000 N/mm ²
Panel Weight	7.6 kg/m ²	10.9 kg/m ²
Rigidity	2400 kNcm ² / m	2400 kNcm ² / m