



Painted Aluminum Sheet



Painted aluminum sheets have been coated with a layer of paint for aesthetic and protective purposes. PE/PVDF painted aluminum sheets are widely used in various industries and applications due to their lightweight, durability and resistance to corrosion.

Painted aluminum sheets redefining design and function across industries. From architectural facades to interior accents, signage, and beyond, these sheets combine corrosion resistance with vibrant aesthetics to create solutions that stand the test of time. Available in a wide range of colors and finishes, our premium painted aluminum sheets offer the strength of metal with the style you've been looking for.

Specification of Painted Aluminum Sheet:

Alloy	1050, 1060, 1070, 1100, 3003, 5052, 5052, 5005, 5006, 5052, 5754, 5182
Thickness	0.2-1.5mm
Width	600-1500mm
Coating Surface	PVDF/ PE/HDP/FEVE/EOXY/ PU
Coating Thickness	Single Coating (4-20 Um)
	Double Coating (25-28 Um)
	Triple Coating (35-38 Um)
Temper	O,H12,H22,H14,H24,H16,H26,H18,H26,etc.
Color	All Ral Color or As Request
Type	Coil, Sheet, Strips, Plate, Foil
Coil Weight	3-8 MT
Coil ID	508mm and 405mm
Applications	Roofing System and Ceiling Decoration for Airport, Railway Stations, Exhibition Halls, Factory and Stadium
Supply Ability	200000 tons per year
MOQ	2 tons per size

Standards and Specifications

ASTM	B209
ISO	ISO 26204 (alloy designations), ISO 6892 (mechanical testing),ISO 9001,ISO 14001.
UNS	A91050 (United States Numbering System)



Coating Options:

The choice of coating for painted aluminum sheets can be considered according to the needs of its application field and project cost.

- **Polyester Coating:** A common choice for outdoor applications due to its durability and resistance to fading.
- **PVDF (Polyvinylidene Fluoride) Coating:** Offers superior weathering, UV resistance, and a long lifespan, often used for architectural applications.

Warrantly:

Regular PE: 3-5 years;

High Performance PE: 6-9 years;

PVDF: 15 years;

FEVE: Two coats: between 10-15 years;

FEVE: Three coats: 15-20 years.

Technical Data:

Coating	POLYESTER	PVDF
Item	Technical requirements	Technical requirements
Thickness of coating film	$\geq 18 \mu\text{m}$	$\geq 25 \mu\text{m}$
Gloss deviation	gloss<70, tolerance $\leq 10\%$	gloss<70, tolerance $\leq 10\%$
	gloss ≥ 70 , tolerance $\leq 5\%$	gloss ≥ 70 , tolerance $\leq 5\%$
Hardness of pencil	$\geq 3\text{H}$	$\geq 3\text{H}$
Adhesion	no lower than class 1	no lower than class 1
Flexibility	$\leq 2\text{T}$	$\leq 2\text{T}$
Boiling water resistance	no change (2h)	no change (2h)
Color difference	$\Delta E \leq 2.0$	$\Delta E \leq 2.0$
MEK	≥ 100 times	≥ 150 times

Color Options

Standard Color

The standard color of painted aluminum sheets is modulated according to the Ral color card. The basic colors are red, yellow, blue, green, white, gray and other colors and their derivative colors, which are suitable for most conventional applications.

Metallic Colors

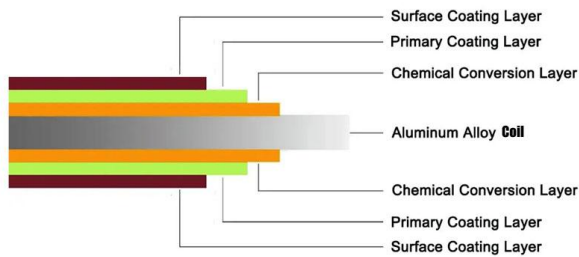
The Metallic color of painted aluminum sheets simulate metal textures, such as silver gray, bronze, rose gold, etc., which add a sense of luxury and class to the product and are often used in high-end architectural decoration.

Printing Series

The printing series achieve natural texture effects such as wood grain and stone grain through special coating technology, providing more diversified choices for architectural design, suitable for places that pursue natural and environmental protection concepts.



Structure of Painted Aluminium Sheet



Advantages of Painted Aluminum Sheet Metal:

- **Lightweight:** Aluminum is much lighter than other metals like steel, making it easier to transport and install, which is particularly advantageous in construction and manufacturing.
- **Corrosion Resistance:** The natural oxide layer on aluminum provides inherent resistance to corrosion. The added paint layer further protects the aluminum from environmental factors, including moisture and chemicals.
- **Aesthetic Versatility:** Available in a wide range of colors, finishes, and textures, painted aluminum sheets can be customized to fit specific design requirements, making them ideal for architectural and artistic applications.
- **Durability:** The paint coating can enhance the surface hardness of the aluminum, providing additional protection against scratches and wear. This makes them suitable for high-traffic areas and outdoor environments.
- **Low Maintenance:** Painted aluminum sheets require minimal maintenance. Regular cleaning with mild detergents can keep them looking new, and they are less prone to rust compared to steel.

Applications of Painted Aluminium Sheets:

- **Architectural Applications:** Used for exterior cladding, roofing, and interior panels in commercial and residential buildings. They provide an attractive finish while offering structural integrity.
- **Signage:** Ideal for outdoor signs due to their lightweight nature and resistance to fading and weathering. They can be printed directly or coated with vinyl.
- **Automotive Industry:** Employed in manufacturing vehicle body panels, trims, and components where weight reduction contributes to fuel efficiency.
- **Consumer Appliances:** Found in various appliances, including refrigerators, ovens, and microwaves, where aesthetics and durability are essential.
- **Transportation:** Used in the production of trailers, buses, and other vehicles where lightweight materials are necessary for efficiency.