



Wood Grain Aluminum Sheet



Wood grain aluminum sheet is a decorative material with a realistic wood grain pattern printed on the surface. It is scanned by high resolution, recorded in a computer program and manually modified to achieve a more realistic and three-dimensional effect after advanced roll coating process.

Wood grain aluminum is made of high-quality aluminum alloy and coated with a protective layer for durability and resistance to corrosion and weathering. The wood grain coating on aluminum provides several advantages over real wood. It is resistant to rot, decay, and insect damage, making it a more durable option. It is also lightweight, fire-resistant, and requires minimal maintenance. Additionally, wood grain coated aluminum is available in a wide range of colors and wood grain patterns, allowing for greater design flexibility.

Wood finish aluminum can be divided into indoor and outdoor coatings according to the environment and economy. The interior is generally a polyester coating with a dry film thickness of about 16-25 μm and a shelf life of more than 10 years. The exterior is made of fluorocarbon coating, the dry film thickness is about 25-30 μm , and the warranty period is more than 15 years. Combining the durability of metal with the aesthetics of wood, it serves as an eco-friendly alternative to timber for architectural facades, cladding, siding, ceilings and interior/exterior decor.

Specification of Wood Grain Aluminum Sheet:

Alloy	1050, 1060, 1070, 1100, 3003, 3004, 3105, 5005, 5052, 8011, etc
Coil thickness	0.018-1.5mm
Coil width	30-2000mm, Standard 1240mm, MAX 2020mm
Coil weight	0.5 to 5.0 tons per coil
Surface treatment	PE/PVDF coated, Wood grain
color	Various wood grain patterns or customized
Packing	Standard exporting packing/ or at buyer's requirement
Trade Terms	FOB/CIF etc
Diameter	405mm, 505mm, 508mm
Coating thickness	14-28 microns (PE: $\geq 14\mu\text{m}$, PVDF: $\geq 25\mu\text{m}$)
Coils core diameter	150mm, 405mm, 505mm
Temper	O - H112
gloss	20-100%(matte: ≥ 20 , glossy: ≥ 60)



Coating Parameter of Wood Grain Aluminium Sheet:

Item	POLYESTER	PVDF
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

Warranty:

Regular PE: 3-5 years;

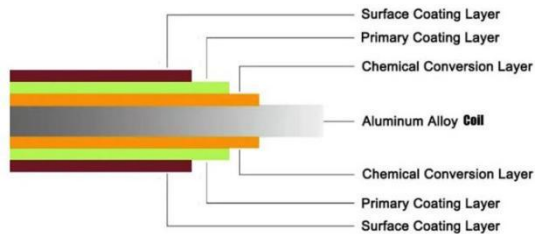
High Performance PE: 6-9 years;

PVDF: 15 years;

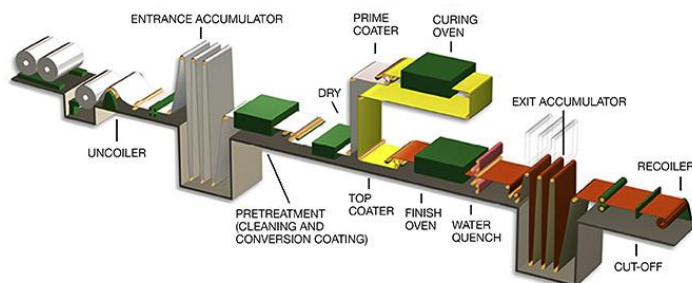
FEVE: Two coats: between 10-15 years;

FEVE: Three coats: 15-20 years.

Structure of Wood Coated Aluminum Coil:



Process of Coil Coating





Color Options of Wood Grain Aluminum Coil:



Advantages of Wood Finish Aluminum Sheet:

1. Aesthetically pleasing:

Wood grain aluminum sheet provides a natural and rustic look to any application. It adds warmth and character to buildings, making them visually appealing.

2. Durable and long-lasting:

Wood finish aluminum coil is highly resistant to weathering, corrosion, and UV rays. It does not fade or crack easily, ensuring a long lifespan and minimal maintenance requirements.

3. Cost-effective:

Compared to real wood, wood look aluminum coil is more affordable and cost-effective. It offers the same visual appeal as wood but with lower installation and maintenance costs.

4. Lightweight and easy to install:

Wood grain coated aluminum coil is lightweight, making it easy to handle and install. It can be easily cut and shaped to fit any application, reducing installation time and labor costs.

5. Eco-friendly:

Wood grain aluminum coil is made from recycled materials and is fully recyclable at the end of its life. It is a sustainable and environmentally friendly alternative to real wood, which requires cutting down trees.



Applications of Wood Look Aluminum Sheet:

Architectural Facades:

Create natural-looking building exteriors with enhanced weather protection.

Interior Decoration:

Perfect for walls, ceilings, and decorative partitions, adding a touch of elegance and warmth to spaces.

Commercial Spaces:

Applied in shopping malls, office buildings, and retail stores for a professional yet natural look.

Public Infrastructure:

Used in airports, stations, and exhibition centers for aesthetic durability and reliable performance.

