



HPHT

Leading Manufacturer of
Coated Aluminum Coils & Strip

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High-performance
coil & strip



Reliable supply
flexible delivery



Customization
minimizes your risk

ZHENGZHOU HEPU HUITONG
INDUSTRIAL CO., LTD



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COMPANY PROFILE

15+

Years
Manufacturer

200+

Global Partners

950,000+

Tons Delivering



• ZHENGZHOU HEPU HUITONG INDUSTRIAL CO., LTD

About HPHT
About Zhengzhou HPHT Industrial Co., Ltd,

Zhengzhou Hepu Huitong Industrial Co., Ltd, is the international sales company of Henan Dagang Aluminum Co., Ltd. There are 200 employees and 30 professional technical staff. The factory is a private aluminum processing enterprise that integrates the technology research, production and marketing, which is situated in Advanced Manufacturing Industry Development Zone, Gongyi City, Henan Province, China.

Our coating production line, with the thickness from 0.1mm to 2.5mm and max width 1600mm, adopts the international advanced level of precision three mixing reverse mixing machines, and performs precise coating in enclosed and dust-free conditions. We also supply customized products by slitting, cutting, embossing and brushing.

With an annual processing capacity of 60,000 tons, the company can produce various color coated aluminum coils. Our products are environmentally friendly, durable and beautiful, which are widely used in building roofing and wall systems, ceiling, curtain wall panels, honeycomb panels, aluminum composite panels, rain screens, awnings, lighting fixtures, furniture, consumer electronics, household appliances, food packaging, advertisement light words and so on.

We focus on product quality and deliver thoughtful customer service. The company has established long-term and stable cooperative relationships with many enterprises at home and abroad. In a word, we assure that we can win your trust with our high-quality products and superior service.



OUR TEAM

Core Concept: People-First

At HPHT, we understand that behind every premium aluminum coil stands the dedication and hard work of our 200 employees. We are more than just a factory; we are a warm, supportive family.



Festivals & Warmth

Heartfelt Gifts for Every Season. On every traditional holiday, we prepare curated gift sets for our staff. From the Dragon Boat Festival to the Mid-Autumn Festival, we bring warmth and festive traditions to every employee's family.



Growing Together

Celebrating Milestones Together. We hold regular collective birthday parties to celebrate our employees' special days. Your growth is our greatest pride., and we cherish every joyful moment shared with you.



Vibrant Team

Vibrant Team, Boundless Energy. Through regular team-building trips and outdoor activities, we step out of the workshop and into nature. These journeys strengthen our bonds and revitalize our collective spirit.



Social Responsibility & Support

Solidarity in Times of Need. Deeply rooted in Zhengzhou, we stand by our staff through thick and thin. We provide ongoing support and financial aid to employees facing hardships, ensuring they always have a reliable shoulder to lean on.

Color Coated Aluminum Coil

HPHT offers diverse alloys, tempers, custom coatings for optimal performance, appearance.Precision control optimizes production

01 Alloys and Temper



- Alloys:
 - 1000 series: 1050, 1060, 1070, 1100, 1200, 1350.
 - 3000 series: 3003, 3004, 3105.
 - 5000 series: 5005, 5052, 5454, 5754.
 - 8000 series: 8011, 8079.
- Temper:
 - H14, H16, H18, H19, H22, H24, H26, H28, H42, H44, H46, H48.

02 Dimensions

- Thickness of coated aluminum coil and sheet:
 - 0.1mm–2.5mm.
- Width:
 - 10mm–1600mm.
- Core Diameter of coated coil and strip:
 - 150mm, 405mm, 500mm, 505mm, 510mm.

Choose a suitable coating

Choose the Right Coating Based on Application Environment Requirements and Architectural Design



PVDF Color Coated Aluminum Coil
Coils engineered with Kynar 500 resin deliver unparalleled resistance to UV rays, acid rain and extreme temperatures. Lasts 20+ years with exceptional color and chalking resistance for high-end facades.



PE (Polyester) Color Coated Aluminum Coil
Ideal for indoor decor and signage. Vibrant finish at a competitive price.Excellent adhesion and formability for easy bending without compromising the surface integrity.



Epoxy Color Coated Aluminum Coil
High-performance primer offering extraordinary chemical resistance. Robust shield adhering perfectly to aluminum in harsh conditions.



HDP (High Durability Polyester) Color Coated Aluminum Coil
Superior weatherability and gloss retention. The "smart choice" for outdoor applications: premium durability at a more accessible cost than PVDF.

PVDF PE Epoxy HDP Performance Comparison



Weather resistance
PVDF Coating > HDP Coating
> PE Coating > Epoxy Coating



Coating Adhesion
Epoxy Coating > PVDF Coating
> HDP Coating > PE Coating



Corrosion resistance
PVDF Coating > Epoxy Coating
> HDP Coating > PE Coating



Coating Flexibility
HDP Coating > PVDF Coating
> PE Coating > Epoxy Coating



Color performance
PE Coating > HDP Coating >
PVDF Coating > Epoxy Coating



Wear resistance
Epoxy Coating > PVDF Coating
> HDP Coating > PE Coating

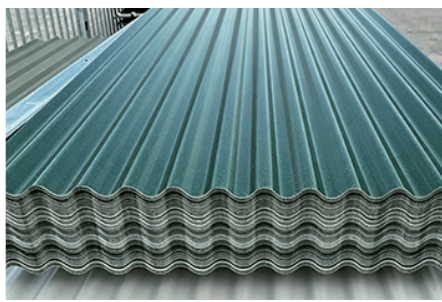


Choose Coating According to Application Environment

Application Environment	PVDF	PE	Epoxy	HDP
Coastal	Most applicable strong corrosion resistance and excellent color fastness	Not Applicable Poor corrosion resistance	Applicable, medium salt spray resistance, prone to chalking long-term	Applicable Corrosion resistance is not as good as PVDF
High temperature and high humidity	Applicable Strong anti-UV and oxidation resistance	Not Applicable Poor weather resistance and easy to fade	Conditionally applicable, easy yellowing under sustained high temp	Most Applicable Better weather resistance and lower cost than PVDF
Serious industrial pollution	Most Applicable Strong acid and alkali resistance, chemical corrosion resistance	Not Applicable Easily corroded by chemicals	Applicable, excellent acid and alkali chemical resistance	Applicable Compared with PE, it can resist chemical corrosion
Normal environment	Applicable Higher cost, long-term, high-end public buildings are optional	Most Applicable Good color performance, high cost performance	Applicable, balanced cost performance for short-term outdoor	Applicable More durable than PE and lower cost than PVDF
Interior decoration	Not Applicable Poor cost-effectiveness	Most Applicable Applicable for indoor ceilings, cost-effective	Most applicable, high high coating hardness and adhesion for indoor use	Not Applicable Highly applicable for outdoor environments and can manufacturing

Why Choose Aluminum Coil?

- Lightweight & High Strength, Superior Weather & Corrosion Resistance
- Diverse Aesthetic Options, Excellent Formability & Wide Application Range
- Eco-Friendly & Fully Recyclable



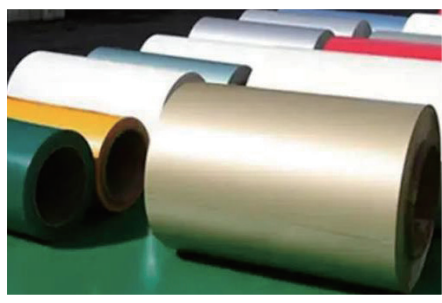
Lightweight & High Strength

Aluminum weighs only one-third of steel yet offers excellent structural performance with an outstanding strength-to-weight ratio. It greatly reduces overall load-bearing pressure for buildings and facilities, cutting transportation, installation and construction costs effectively.



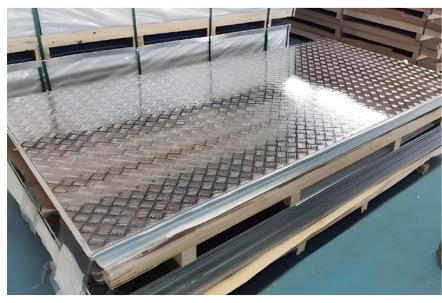
Superior Weather & Corrosion Resistance

Aluminum possesses stable native chemical properties, and premium color coating systems deliver robust protection against acid, alkali, acid rain, alkali corrosion, and UV degradation. Panels resist rust, peeling and cracking under long-term outdoor exposure, maintaining consistent coating performance for upwards of 30 years.



Diverse Aesthetic Options

Coated aluminum is available in custom finishes: solid colors, gloss, matte and textured surfaces with consistent, well-adhered coatings. It matches modern, minimalist and luxury architectural styles, preserving a sleek aesthetic through years of outdoor service.



Excellent Formability & Wide Application Range

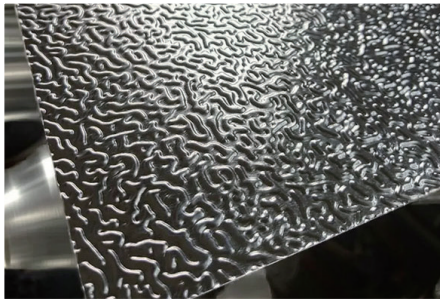
Aluminum possesses superior ductility and workability, enabling bending, stamping and profiling into complex custom shapes. It meets custom fabrication demands for curtain walls, ceilings, window systems and decorative panels to accommodate a wide range of architectural design concepts.



Eco-Friendly & Fully Recyclable

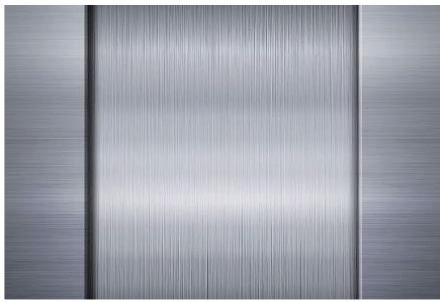
Aluminum is non-toxic and zero-emission, complying with global green building certification criteria. It is 100% recyclable with far lower energy input for secondary recycling, serving as a low-carbon, sustainable building material.

Advanced Processing Services for Color Coated Aluminum Coils



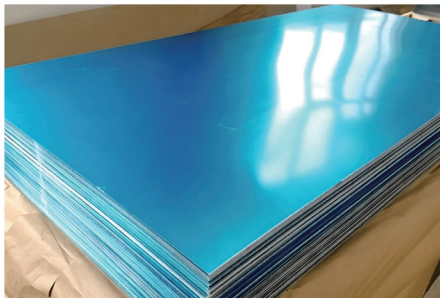
Stucco Embossing

Advantages: Enhances rigidity and scratch resistance, reduces reflective light pollution, and delivers a unique tactile aesthetic.
Applications: Widely used in refrigerator liners, cold storage panels, roofing systems, and interior decoration.



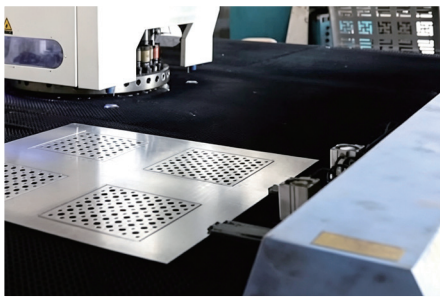
Brushing

Advantages: Creates a refined fibrous texture, blending modern high-tech texture with upscale aesthetic appeal.
Applications: Ideal for premium integrated ceilings, electronic device casings, cabinet panels, and high-end signage.



Protective Film Application

Advantages: Automatically applies high-quality PE or laser protective films to prevent scratches and contamination, eliminates coating scratches and abrasion during downstream processing.
Applications: Provides comprehensive protection throughout shearing, forming, transportation, and installation.



Precision Perforating

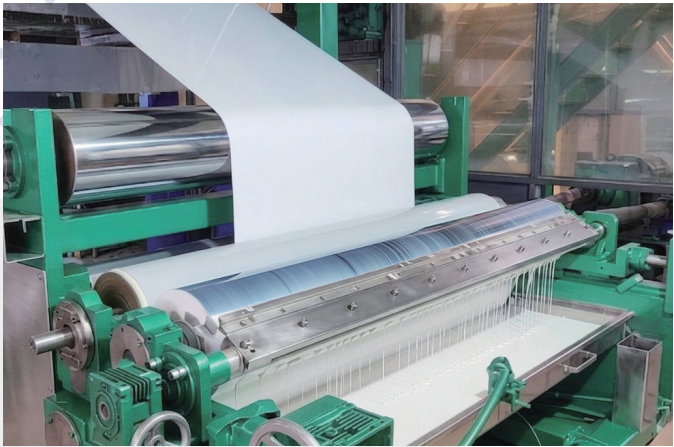
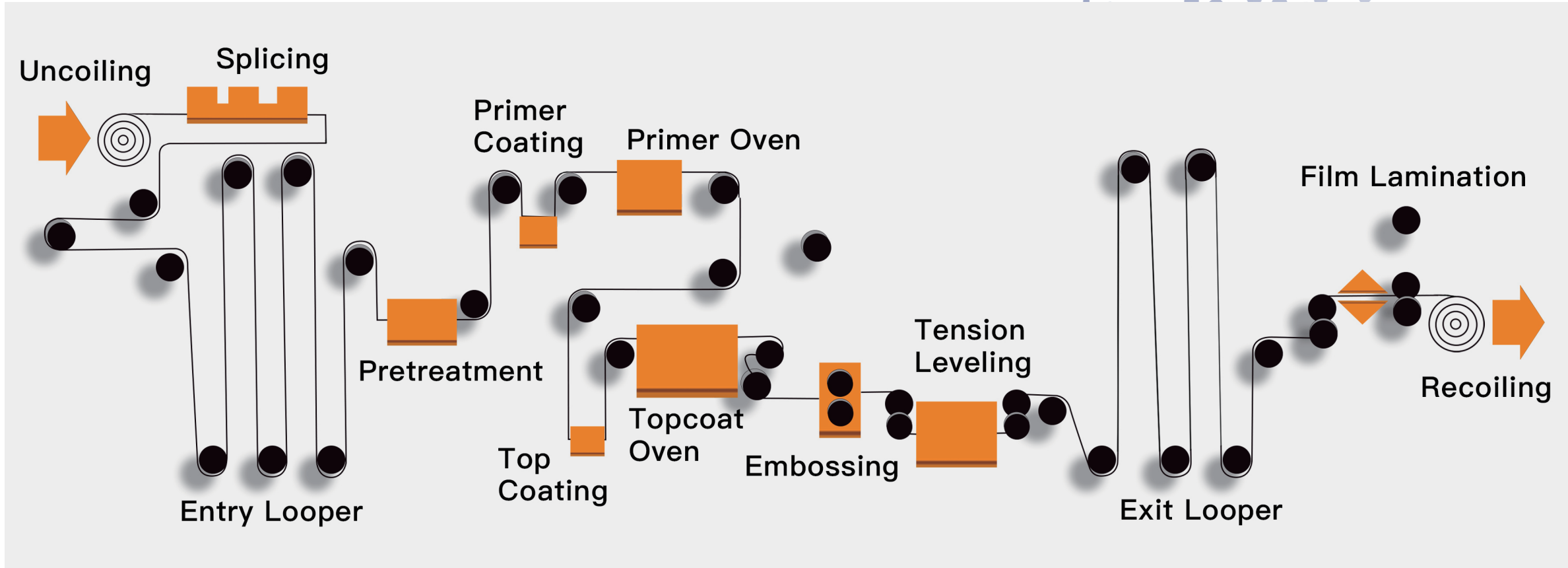
Advantages: Delivers smooth, burr-free edges while providing light transmission, ventilation, and excellent acoustic insulation.
Applications: Mainly used for architectural perforated facades, acoustic ceilings, and sunshade louvers.



Slitting & Cut-to-Length

Advantages: High-precision longitudinal slitting and transverse cutting ensure excellent flatness, meeting customized size requirements.
Applications: Provides precise narrower strips or flat sheets for subsequent stamping, bending, and fabrication.

PREPAINTED ALUMINUM COILS TECHNOLOGICAL PROCESS OF PRODUCTION



◦ STRONG ADHESION COATING

- The 30m long efficient cleaning system fully cleans the raw material strip and is equipped with a better passivation coating to ensure the coating adhesion.

◦ ENVIRONMENTALLY FRIENDLY

- Using chromium-free primer, the product is more environmentally friendly.

◦ RTO EXHAUST GAS INCINERATION SYSTEM

- At high temperature, organic matter (VOCs) in the exhaust gas is oxidized into the corresponding carbon dioxide and water. The three-chamber RTO system delivers over 99% exhaust decomposition efficiency and over 95% heat recovery efficiency.



◦ UNIFORM COATING

- The U-shaped coater changes color quickly, and pressure sensors are installed on both sides of the coater to achieve more uniform film thickness control. It is also equipped with an extra-long curing oven to fully cure the coating and improve the adhesion and stability of the coating.

◦ WORRY-FREE COLOR DIFFERENCE

- The fresh air system of the extra-wide oven ensures consistent color difference compliance with ASTM D2244 standards across similar products.

COLORED ALUMINUM APPLICATION



Roofing Systems

- Coated aluminum coil is the ideal material for roofing systems, offering a perfect blend of lightweight strength, long-lasting durability, exceptional corrosion resistance, and stunning aesthetics. Its versatility makes it suitable for a wide range of architectural styles and roofing applications.

Key Advantages

- Superior Corrosion & Weather Resistance: Capable of withstanding UV rays, acid rain, and extreme weather, ensuring a service life of over 25 years.

Lightweight & Easy Fabrication

- Its lightweight nature reduces structural loads, while its flexibility allows for easy cutting and bending, significantly lowering installation costs and complexity.

Common Specifications

- Alloy & Temper: AA1100, 3003, 3004, 3105 | H14, H16, H24
- Thickness: 0.4mm — 1.5mm
- Width: 600mm — 1600mm (Standard: 1000mm, 1200mm, 1250mm)

Coating Options

- PVDF, PE, HDPE / HDP

Sandwich Panel

- Aluminum coils serve as the premium skin material for sandwich panels, combined with core materials like rock wool, PU, or EPS for industrial plants and cold storage walls. They provide a durable shell while enhancing thermal insulation and fire resistance through specialized coatings.

Excellent Adhesion

- Excellent adhesion for long-term structural integrity without delamination.

Superior Flatness and Strength

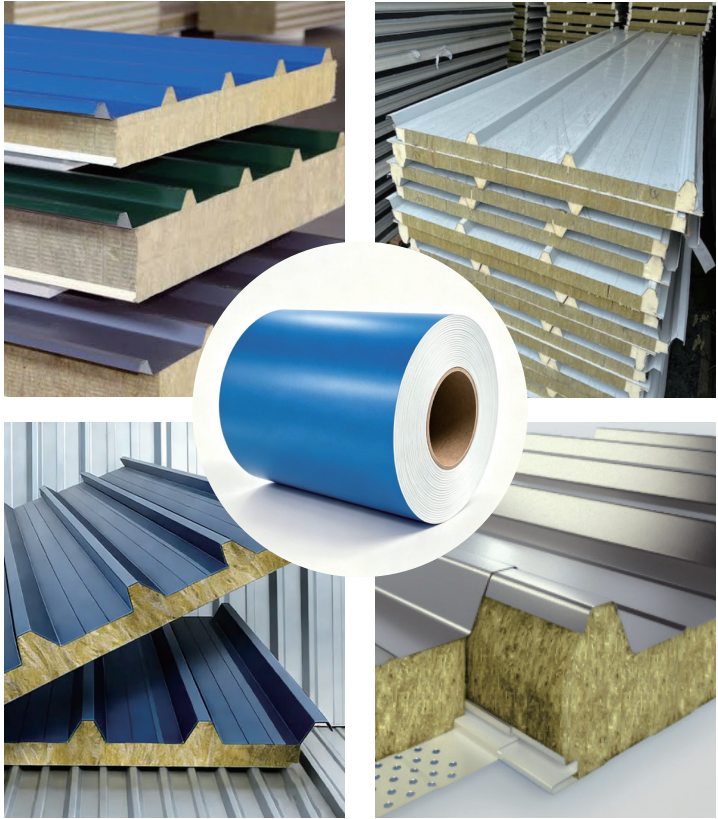
- Superior flatness and strength to maintain structural stability in wide-span buildings.

Common Specifications

- Alloy : 1100,3003, 3105
- Thickness: 0.25mm — 0.8mm
- Width: 1000mm — 1250mm

Coating Options

- PE (Polyester), HDP (High Durability Polyester), PVDF



COLORED ALUMINUM APPLICATION



Aluminum Ceiling

- Used for manufacturing clip-on tiles, linear ceilings, and perforated panels in public spaces like offices and airports.
- The surface coatings offer anti-static and anti-fouling properties, keeping indoor spaces bright and clean.

Eco-Friendly

- Eco-friendly, non-toxic, and easy to clean, maintaining color vibrancy over time.

Excellent Stamping

- Excellent stamping performance suitable for precision perforation with clean edges.

Common Specifications

- Alloy : 1100, 3003
- Thickness: 0.4mm — 1.0mm
- Width: 200mm — 1500mm

Coating Options

- PE (High-gloss or Matt), PVDF , Anti-static Coating

Aluminum Composite Panels

- As the core skin for ACP, these coils are widely used in high-rise curtain walls, interior decoration, and signage.
- The flexible surface treatment allows for various realistic effects like wood, stone, and high-gloss finishes.

Rich Expressive Power

- Rich expressive power with customizable textures and gloss levels for diverse design needs.

Superb Flexibility

- Superb flexibility ensures no coating cracking during grooving and folding processes.

Common Specifications

- Alloy : 1100, 3003
- Thickness: 0.05mm — 0.50mm
- Width: 1220mm — 1570mm

Coating Options

- PVDF (Exterior), PE (Interior), Glossy/Matt Coatings



COLORED ALUMINUM APPLICATION



Color Coated Aluminum Coils for Precision Roller Shutter Slats

- **Color Coated Aluminum master coils** serve as the premium raw material for sectional roller shutters and blinds. Engineered to withstand high-speed slitting and ultra-tight hook profiling, our coils deliver exceptional paint flexibility and scratch resistance, ensuring flawless interlocking slat production with smooth, trouble-free mass production.
- **Clean Cut Edges When You Slit**
Maintain immaculate, sharp edges when you cut our master coils. The paint film stays perfectly locked to the metal without chipping or flaking.
- **Stand Up to Daily Friction**
Protect your shutters from scratches during operation. Our high abrasion-resistant surface coating ensures your finished products look brand new for years.
- **Tailored Specifications**
Alloy : 1100,3003, 3105 Thickness: 0.2mm – 0.5mm
Width: 100mm – 1000mm (Custom sizes available)
- **Advanced Coating Systems**
Available in high-grade PE, HDP, and PVDF coatings to ensure long-term UV resistance, color retention, and chalking protection for premium projects.



Fan Blade Solutions with Coated Aluminum Coil

- Used in manufacturing blades for large industrial fans and ventilation systems, requiring high dynamic balance performance and corrosion resistance. Bright colors also serve as safety warnings.
- **High Strength-to-weight**
High strength-to-weight ratio reduces motor load and extends service life.
- **Exceptional Coating Wear**
Superior abrasion resistance of coating film even under high-speed airflow friction.
- **Common Specifications**
Alloy :3003, 5052 Thickness: 1.0mm – 2.0mm Width: Customizable
- **Coating Options**
PE, PVDF,HDP,High-performance Polyester



Tread Coils for Anti-slip Solutions

- Mainly used for stair treads, work platforms, vehicle floors, and ramps. Patterns like 5-bar, orange peel, or diamond designs provide safety and decorative appeal.
- **Unique Embossed Designs**
Unique embossed designs significantly increase surface friction to prevent slips.
- **Wear-resistant**
Hard material with wear-resistant coating, perfect for high-traffic public areas.
- **Common Specifications**
Alloy:1060, 3003, 5052 Thickness: 1.0mm –4.0mm Width: 1000mm – 1500mm



COLORED ALUMINUM APPLICATION



Signage & Channel Letter

- The preferred metal for channel letter returns, billboard frames, and brand logos. A wide range of colors ensures accurate reproduction of brand identities.
- **Easy Processing**
Easy processing with excellent bending performance for complex font outlines.
- **Weatherproof and Colorfast**
Weatherproof and colorfast for outdoor use, ensuring minimal maintenance costs.
- **Common Specifications**
Alloy: 1100, 3003 Thickness: 0.3mm – 1.2mm
Width: 30mm – 200mm (Strip) or Wide Coil
- **Coating Options**
PE, PVDF,HDP,Glossy/Matt finish



Pipe Insulation Systems

- Specifically used as the outer protective jacket for pipes in oil, chemical, and power industries. White or light-colored coatings effectively reflect heat, improving energy efficiency.
- **Corrosion and Oxidation Resistance**
Corrosion and oxidation resistance against harsh industrial environments and chemicals.
- **Excellent Formability**
Great formability allows for easy on-site wrapping and fastening.
- **Common Specifications**
Alloy: 1060, 3003 Thickness: 0.4mm – 1.0mm Width: 1000mm, 1200mm
- **Coating Options**
PE, PVDF,Epoxy Back Paint (Anti-corrosion)



Cable Shielding & Armoring

- Used as shielding or armoring for power and communication cables to prevent EMI and enhance mechanical strength. This lightweight protection improves cable reliability.
- **Excellent Shielding**
Excellent shielding to block electromagnetic interference and ensure signal stability.
- **Tough Mechanical Protection**
Tough mechanical protection provides a solid physical barrier against damage.
- **Common Specifications**
Alloy: 1060, 8011 Thickness: 0.15mm –0.3mm Width: Customizable
- **Coating Options**
PE,PVDF,HDP Clear Coating, Special Protective Varnish

QUALITY INSPECTION

HPHT advanced coating lines, precise thickness control, full automation and end-to-end traceability allow us to scale from small trial runs to large bulk orders while maintaining consistent quality.

Strict Full-process Quality Control

In production, we adhere to strict quality control standards. Each processing part will be assigned 1-2 dedicated QC technicians to control production. After production is completed, we will randomly select samples for T-bend, hardness (with pencil), adhesive performance, color difference, thickness, gloss, MEK testing according to ASTM standards. The unqualified products will be reworked until they meet the standards.

After-sales Service

Quality Issues: If there is a quality problem with the products received, our sales will confirm the problem with you as soon as possible and propose a solution within 24 hours.

Regular follow-up: Our sales will regularly contact customers for product feedback to ensure that the performance of the product in application meets expectations.

Delivery Warranty

Our color coated aluminum coils are produced in accordance with ASTM B209 standard and meet customer order requirements.

Thickness tolerance: The thickness tolerance of aluminum alloy is controlled within $\pm 0.02\text{mm}$, and the coating thickness is strictly in accordance with customer requirements.

Color consistency: Precision color matching technology is used to ensure that the color error of the same batch of products is $\leq 0.5\Delta E$.

Packaging: All products are packaged in moisture-proof, anti-oxidation, and anti-damage packaging, which meets export standard packaging.

Delivery time: Conventional colored aluminum coil 7-10 days, customized products 15-30 days.

Quality Warranty

Our color-coated aluminum coils adopt premium aluminum alloy substrates and certified top-tier coatings (e.g. AkzoNobel), with coating systems complying with all ASTM physical property standards.

Coating Service Life Warranty:

PE coating: service life 8-10 years, glossiness according to ASTM D 523.

PVDF coating: service life 15-20 years, color difference $< 0.5\Delta E$, chalking resistance according to ASTM D 4214, glossiness according to ASTM D 523.

Disclaimer

Please understand that color-coated aluminum coils are fragile products. Improper storage or use will affect the service life of color-coated aluminum coils.

- 1.Improper storage & application: long-term exposure to acid/alkaline surroundings; cleaning with unsuitable detergents
- 2.Artificial damage: scratches, collision, faulty construction or transport damage
- 3.Natural aging & slight fading beyond the warranty term
- 4.Force majeure: losses from earthquake, flood, fire, war and other unforeseeable events

Sample Retention Control System

Samples are archived for all production batches of color-coated aluminum coils

- 1. Inspection
Retained samples allow for the rechecking of film thickness, gloss, color difference, adhesion, and T-bending to identify production deviations. Uncontaminated archived samples can be directly submitted for third-party testing, eliminating the need for on-site panel collection.
- 2. After-sales Service
Retained samples act as reference standards for parallel comparison tests to resolve disputes over fading, chalking, color difference, and coating delamination.
- 3. Repeat Orders
Retained samples ensure consistent color matching for repeat orders with identical color specifications.