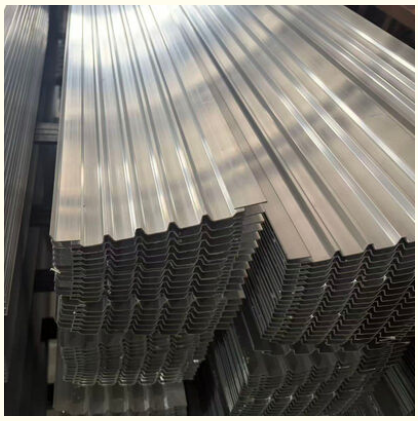
6063-T5 Aluminum Corrugated Roof Profile with Integral Extrusion Hollow Structure and Customizable Size for Extruded Aluminum Roofing Sheet

Our Product Introduction

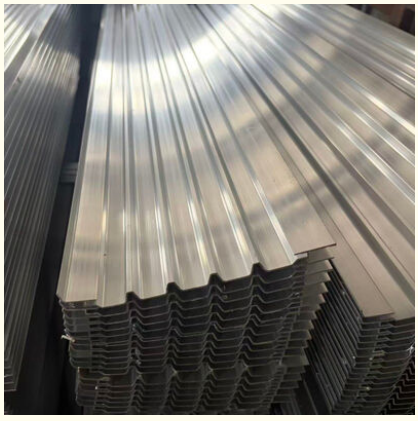
Basic Information

- Certification: SONCAP, ISO, RoHS, TUV
- Minimum Order Quantity: 500
- Price: 1

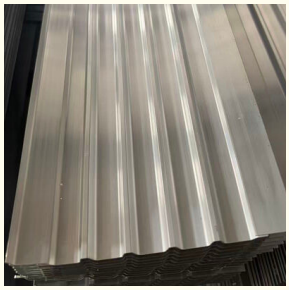


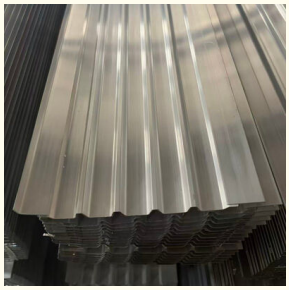
Product Specification

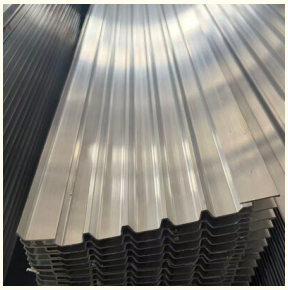
- Model NO.: Aluminum Corrugated Roof Profile
- Grade: 6000 Series
- Temper: T3-T8
- Window & Door Aluminium Profile: 60 Series
- Alloy: Alloy
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Polished Aluminum Profile: Mechanical Polishing
- Surfacet Treatment: Anodizing/Powder Painting /Electrophoresis
- Logo: Silk Screen /Laser
- Colour: Customized
- Polish: Chemical/Mechanical Polish
- Machining: Tapping, Cutting, Milling
- Transport Package: Carton&Wooden Case

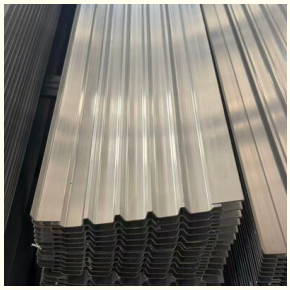


More Images









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Our Product Introduction

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Product Description

Factory Direct 6063 Extrusion Aluminum Corrugated Roof Profile

Product Description

Our **6063 extruded aluminum corrugated roofing profile** is a solid hollow extrusion roof panel, different from traditional roll-formed thin aluminum tiles. Manufactured with premium 6063-T5 aluminum alloy, this structural aluminum roof tile features integral extrusion forming, hollow thermal insulation cavity, excellent weather resistance and high structural stability. It is a premium roofing solution widely used for villa rooftops, self-built houses, sunrooms, canopy shelters and commercial building roof renovation projects.
As a professional aluminum extrusion factory, we provide fully customized extrusion profiles in arbitrary lengths, various surface finishes and exclusive structural optimization for long-term outdoor roofing applications.

Product Specification
6063-T5 Grade Aluminum Alloy: Adopts standard architectural-grade 6063 aluminum, featuring smooth extrusion performance, uniform texture, high toughness and strong oxidation resistance. Far more stable than 1060/3003 roll-formed aluminum tiles for long-term outdoor exposure.
Integral Extrusion Hollow Structure: One-piece extruded molding with hollow cavity design. Effectively reduces roof heat transfer, achieves outstanding heat insulation and sound insulation performance, solving the heat and noise problems of traditional metal roofs.
Zero Rust & Long Service Life: Aluminum alloy natural anti-corrosion property plus optional anodizing, powder coating and fluorocarbon coating treatments. Waterproof, anti-aging, wind-resistant and corrosion-resistant .
High Structural Strength: Extruded profile integral structure improves overall roof load-bearing capacity, strong wind resistance and pressure resistance, not easy to deform or dent compared with thin roll-formed aluminum tiles.
Customizable Size & Finish: Custom profile cross-sections, arbitrary cutting length, multiple color and surface treatment options to match architectural design requirements.
Easy Installation & Low Maintenance: Standard profile structure for fast splicing and installation. No frequent maintenance required after installation, greatly saving later operating costs.

Applications:

6063 extruded aluminum corrugated roofing profiles are specially designed for high-end outdoor roofing scenarios. Widely applied in residential villas, rural self-built houses, sunshade sunrooms, courtyard canopies, scenic spot buildings, hotel exterior roofs and old building roof replacement projects. It is the ideal upgraded substitute for color steel tiles and ordinary thin aluminum corrugated sheets.

Competitive Advantage:

1) Engineering design and support.
2) Aluminium profiles deeply processing:cutting,punching,drilling,milling,and fabricating.
3) High Quality system, strictly inspection during production and whole inspection before package.

Primary Technical Data

1) Chemical composition

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Impurity	Al
6063	0.2-0.6	0.35	0.1	0.1	0.45-0.9	0.1	0.1	0.1	0.15	Rest
6061	0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.15	Rest
6060	0.3-0.6	0.1-0.3	0.1	0.1	0.35-0.6	-	0.15	0.1	0.15	Rest
6005	0.6-0.9	0.35	0.1	0.1	0.40-0.6	0.1	0.1	0.1	0.15	Rest

2) Mechanical property

Alloy	Temper	Tensile strength	Yield strength	Elongation
6063	T5	≥ 160Mpa	≥ 110Mpa	≥ 8%
	T6	≥ 205Mpa	≥ 180Mpa	≥ 8%
6061	T6	≥ 265Mpa	≥ 245Mpa	≥ 8%

Technical Support

1. Based on the customer's requirements, we help design the appearance of the extruded profiles, provide CAD drawings and 3D models for customer confirmation, customize the molds, and extrude the aluminum profiles that meet the customer's requirements.

2. For customers with design capabilities, our professional R&D team will analyze and optimize the design based on the customer's drawings and our experience in extrusion processing, using the most reasonable design to reduce production costs and improve product performance.

3. Our company adopts a "one-stop" service and production model, including product design, customized molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment. We can effectively control the alloy composition of raw materials and maintain product accuracy throughout the production process, providing you with high-quality products.

Factory

Equipment

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus is capable of producing various standards of commercial aluminum profiles and industrial aluminum profiles with maximum outer diameter of 350mm.

MetalPlus has 44 aluminum profile extrusion lines equipped with PLC control systems and precise molds. The largest extruder used in the MetalPlus factory is a 6800 ton unit. The machine is used for the production of industrial profiles in various shapes with a maximum diameter of 600mm. This allows us to satisfy the different requirements of our various customers. Some of the aluminum products produced by MetalPlus include radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.

MetalPlus can produce custom molds according to customer requirements. We have the abilities and experience to produce aluminum profiles with complex structures. We have our own R&D team so we can provide reasonable suggestions for our customers in order to create superior products at affordable prices.

Anodizing

Anodizing is a process in which a layer of aluminum oxide is formed on the surface of aluminum alloy products when they are placed in an electrolyte solution and then an electrical current is applied. Oxidized aluminum profiles feature improved corrosion resistance so that the surface can withstand various weather conditions. Meanwhile, the aluminum oxide also increases the product's hardness and wear resistance. MetalPlushas 6 anodizing production lines. The profiles processed in our anodizing lines feature uniform oxidation film thickness and color giving them a beautiful appearance. The oxidized profiles come in various color options including silver, black, gold, champagne, and imitation steel. Other colors can be customized upon request.

The anodized products will all be inspected by highly trained professional inspectors. Defective products which cannot be re-processed will be directly scrapped. Products with uneven color will be de-coated and re-anodized until they can meet the requirements. This ensures that there is no color difference among each batch of products.

Painting

Our factory is equipped with 4 powder spraying lines and all of them are using high-quality spray nozzles from Gema Switzerland. In the meantime, MetalPlus only uses safe and environmental friendly paint with strong adhesive force as well as durable color retention.

CNC Machining

MetalPlus is equipped with highly advanced machining equipment sets. All fine machining processes are accomplished by technicians with rich industry experience. Strict industrial standards are adopted during production to ensure fine machining precision and product quality.

1. MetalPlus has 12 PRATIC machining centers which can be used for the milling, drilling or tapping of profiles from different angles. They are especially suitable for the production of long profiles up to 6 meters. The equipment sets can realize machining of complex profiles with the simplest methods

2. MetalPlus has fully automatic cutting machines from Wegoma which can accomplish precise cutting with automatic and continuous material feeding, which means that the machines feature low labor cost and high production efficiency. Therefore, the cutting price of MetalPlus is significantlylower than that of the other enterprises in the industry.

3. We have 30 punching machines of which the punching pressure ranges from 50 to 100 tons. They can be used for the punching of relatively thick profiles of which the thickness can be over 5MM. There are also 10 stretch bending machines/bending machines which can realize bending of profiles to arc or different angles. The machining angle is highly precise. The factory is also equipped with 10 milling machines, realizing machining of different planes, bevels or grooves so that we can satisfy different machining requirements of our customers.

Packing and Shipping

Finished products are packaged manually and ready for delivery. MetalPlusadopts strict warehouse management procedures; the finished product warehouse is divided into sections to store specific products, any in & out transactions have to be recorded and each product has to be examined before delivering.

Certifications

Company History

In 2004 "THE RECOGNIZED BRAND OF THE BUILDING INDUSTRY MATERIAL MARKET"

In 2006 "CERTIFICATE FOR PRODUCT EXEMPTION FROM QUALITY SURVEILIANCE INSPECTION " and "ISO9001"

In 2009 "ADVANCED COMPANY "

In 2009 "JIANGSU FAMOUS BRAND CERTIFICAT "

In 2009 "CERTIFICATE FOR CREDIBLE PRODUCT OF QUALITY IN JIANGSU PROVINCE"

In 2012, Established the business relation ship with Panasonic , LG .

In 2015, be and inovative producer an supplying partner for Germany Client .

In 2017, Developed the new products of baseboard heaters .

In 2019, Cooperate with the world's largest Heater Manufacturers , and supply the Aluminum Shells for them .Won a good reputation !

In 2023, We will confidence to develop oversea distributor , to expand market for win-win benefits .

Project

The Soccer City Stadium, in Johannesburg is one of the major project of south African ,the 94 000 seat stadium is the largest capacity stadium in Africa .

We are very honored to participate in the construction of the project as the main supplier of aluminum!

The Soccer City Stadium won unanimous praise after it was built!

Lobster Trailers is a Nordic trailer giant ,we are very pound to cooperate with them .
Our professional R&D team analyze and improve upon Lobster's designs and then process them with our excellent processing equipment , exquisite technology . We minimize production costs and improve product performance thanks our optimization proficiencies.

We are very glad that our local customer Dadnwon the bid of the school project , and we supplied the Aluminum Legs of the school desks for them .

With our strong design and mature technics ,we will help more customers to get the tender .

Hentec Industry Co.,Ltd

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