# Aluminium U Channel

Aluminum u channel has high strength and resistance to corrosion, easy to machine and weld. Aluminum U channel is a widely used extruded aluminum product known for its excellent strength-to-weight ratio, corrosion resistance, and versatility. It's commonly utilized in structural applications, framing, and fabrication projects where lightweight yet durable material is needed. The "U-channel" designation refers to its shape, which resembles the letter "U" when viewed in cross-section. This profile provides rigidity and support while allowing for easy attachment of other components.

Aluminum 6061 is a heat-treatable alloy, offering good machinability and weldability, making it suitable for a wide range of applications across various industries, including construction, automotive, aerospace, and marine. Besides of u channel, Haomei Aluminum also provides many styles of extruded aluminum channels including aluminum hat channel, aluminum f channel, aluminum j channel, aluminum c slide track channel, aluminum h channel, t slot channel, and aluminum z channels, etc.

Specification of Aluminium U Channel:
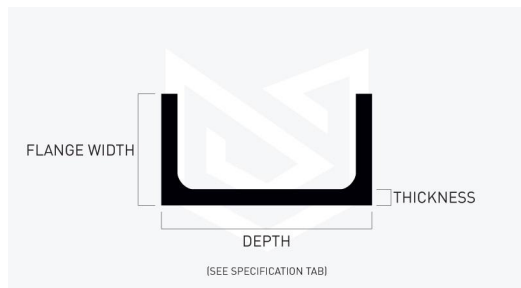
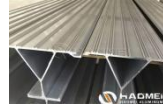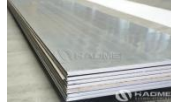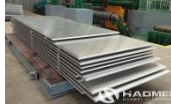|	
Material	6000 Series, 6061, 6063, 6082
Temper	T4, T5, T6
Shape	square, round, flat, angle, rectangular, common channel (c,u,j,f,h,t), customized
Size / Thickness	General profiles thickness from 0.3 to 5.0mm, length from 3m-6m or customized available; Anodize protection film thickness from 8~25 um, powder coating from 40 ~ 120 um.
Length	customized length
MOQ	Low MOQ

| Deep process	CNC, drilling, milling, cutting, stamping, welding, bending, assembling, Custom Aluminum Fabrication
Surface treatment	Anodizing, Mill finish, Electroplating, Polishing, Sand blasted, Powder coating, Silver plating, Brushed, Painted etc.
Packaging	standard export packaging or as discussed
Certificate	CE/SGS/ISO/Rohs
Service	1. Free sample, Free design; 2. OEM/ODM available; 3. Custom-made request; 4. New design solution suggestion
Delivery time	15-20 days after sample confirmed & down payment, or negotiated

Features of Aluminum U Channel:

- High strength: Excellent strength-to-weight ratio, it can provide structural integrity while remaining lightweight. This makes it suitable for applications requiring low weight and high strength.
- Corrosion resistance: good corrosion resistance and is well suited for outdoor or marine applications that require exposure to moisture and other harsh environments.
- Machinability: Easy to machine and has good formability to meet specific design requirements.
- Weldability: Can be welded using a variety of techniques, including TIG (tungsten inert gas) welding, MIG (metal inert gas) welding and resistance welding, providing flexibility in the assembly process.
- Heat treatment properties: Can be heat treated to improve its mechanical properties, such as strength and hardness.
- Versatility: U-channel profiles are versatile in design and application, they can be easily integrated into structures and used for framing, bracing or as protective edges. The "U" shape provides inherent rigidity and support.
- Anodizing Capabilities: U-Channels can be anodized to enhance their surface finish, improve corrosion resistance and provide aesthetic appeal, and anodizing is also available in a variety of color options.
- Cost-Effectiveness: Aluminum is relatively cost-effective compared to some other metals, striking a balance between performance and affordability.
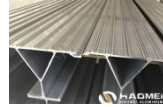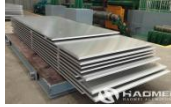
Applications of Aluminum C Channel:

Marine grade aluminum channel is often used for shipbuilding structure, mainly used in hull structures and generally consists of bottom plates, bottom plates, side plates, bulge plates, bulwarks, decks, bulkheads, ribs, brackets, stringers, hoardings, ribs, keels, rebars, columns and rods.

Why Choose Haomei Aluminum?

- Specialization: We excel in providing top-grade marine grade aluminum profiles.
- Diverse Options: Explore a variety of other grades to suit your specific project requirements.
- Value-added Services: Benefit from efficient sourcing, quick turnaround, and services like precision saw cutting for seamless project integration.
- Reliability: As your trusted aluminum profile distributor, we are committed to meeting your needs promptly and efficiently.
- Certified: Haomei Aluminum is an ISO-certified, CCS,DNV, LR, KR, BV, RINA, and ABS cerificated, family-owned, and operated provider of high-quality specialty metals and alloys.