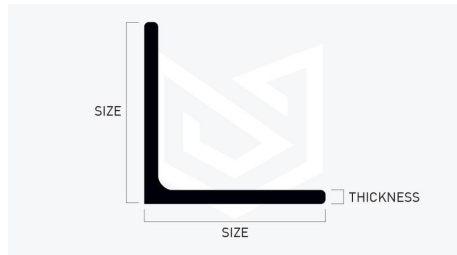


## Aluminum Angle

Aluminium angles, also known as L-sections, L-profile, L-channel, are shaped to 90 degrees on both the inside and outside edges and have two protruding legs. They come in two variations, equal and unequal, which refer to the lengths of the legs.

Haomei Aluminum offer structural aluminum angle bar in grades of 6061 and 6082. Thanks to their lightweight yet strong properties, aluminum angle bar is primarily used for ships, vessels, yachts, cruise and offshore's exterior railings, decorative trim, and door frames etc.

### Specifications of Aluminium Angle Bar:



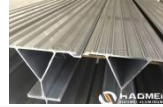
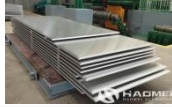
Alloy	Temper	Thickness (mm)	Side (mm)	Length mm	Certificate
6082	T6	1-10	10-150	6000	BV / DNV / LR / CCS
5083	O	1-10	10-150	6000	BV / DNV / LR / CCS

#### Chemical composition of Aluminium Angle bar

Grade	Al, %	Si, %	Fe, %	Cu, %	Mn, %	Mg, %	Cr, %	Zn, %	Ti, %	Other elements, %		Note
										Each	Total	
6082	Base	0.7-1.3	≤ 0.50	≤0.10	0.40- 1.0	0.6-1.2	≤0.25	≤0.20	≤0.10	≤0.05	≤0.15	
5083	Base	≤ 0.40	≤ 0.40	≤0.10	0.4 - 1.0	4.0 -4.9	0.05-0.25	≤0.25	≤0.15	≤0.05	≤0.15	

#### Mechanical properties of Aluminium Angle bar

Grade	Temper condition	Thickness t, mm	Yield stress		Tensile strength Rm, N/mm <sup>2</sup> , min.	Elongation, %,min.	
			Rp0,2, N/mm <sup>2</sup> ,	N/mm <sup>2</sup> ,		A 50 mm	A 5d



### Mechanical properties of Aluminium Angle bar

			min.			
6082	T6	$3 \leq t \leq 12.5$	250	290	6	
		$12.5 \leq t \leq 50$	260	310	10	8
5083	O	$3 \leq t \leq 50$	145	290	17	17

## Features of Aluminium Angle bar:

- Superior Strength: aluminum impressive strength properties, making it suitable for structural applications where durability is paramount.
- Excellent Corrosion Resistance: This alloy exhibits excellent resistance to corrosion, ensuring longevity and reliability even in harsh environments.
- Ease of Machinability: With its excellent machinability, 6061 aluminum allows for easy fabrication and shaping to meet your specific requirements.
- Lightweight Design: Despite its robustness, 6061 aluminum remains lightweight, making it ideal for applications where weight is a concern.

## Application of Marine Grade Aluminum Angle Bar:

Marine grade aluminum angle bar is often used for shipbuilding., 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, rebar, 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.