Haomei-Aluminum plate suppliers

Haomei is a professional enterprise specializes in processing and manufacturing aluminum plate,aluminum alloy plate 7075,6061,3003,2024,5052,5083,5086 etc.

We possesses complete set of processing equipments such asΦ650/Φ1600*3200four-roll reversible hot rolling, CNC face milling, sawing, crimping, leveling and heat treatment machines. We depend on our professional level and proven technique in aluminium processing industry to manufacture 1 series, 2 series, 5 series, 6 series, 7 series for hot rolled products and kinds of alloy aluminium plates .

The max thickness is up to 220mm, width is 2250mm, and annual output of alloy aluminium plate is about 150,000 tons.

Hot rolled aluminum plate are widely used in many industrial areas, such as pressure vessels, mould, aircraft, ship building, vehicles, machinery etc. where a combination of high strength with moderate toughness and corrosion resistance are required.

Aluminum plate Common Size

5052 Aluminum plate
Thickness 6-50mm, 1000x2000mm, 1200x2400mm, 1220x2440mm

5083 Aluminum plate
Thickness 6-50mm, 1000x2000mm, 1200x2400mm, 1220x2440mm

aluminum plate Common thickness: 1/4 inch aluminum plate,1/2 inch aluminum plate,3/8 aluminum plate,3/4 aluminum plate,10mm aluminium plate,6mm aluminium plate,5mm aluminium plate

Other sizes are available upon request.

Specifications

Alloy	Temper	Thickness	Width	Length
1050 3003 2024 5005 5052 5754 5083 5086 6061 6063 6082 7075	O H111 H112 H116 F T3 T4 T6 T651	4.5-220mm	500-2250mm	1000-6000mm

Chemical Composition % Max.

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Other Each	Other Total	Al
1050	0.25	0.40	0.05	0.05	0.05	-	-	0.05	0.03	-	0.03	-	99.50
2017	0.20-0.8	0.70	3.5-4.5	0.40-1.0	0.40-0.8	0.10	-	0.25	0.15	-	0.05	0.15	Remainder
2024	0.50	0.50	3.8-4.9	0.30-0.9	1.2-1.8	0.10	-	0.25	0.15		0.05	0.15	Remainder
3003	>0.60	0.70	0.05-0.20	1.0-1.5	-	-	-	0.10	-	-	0.05	0.15	Remainder
5005	0.30	0.70	0.20	0.20	0.50-1.1	0.10	-	0.25	-	-	0.05	0.15	Remainder
5052	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	-	0.15	-	-	0.05	0.15	Remainder
5754	0.40	0.40	0.10	0.50	2.6-3.6	0.30	-	0.20	0.15	-	0.05	0.15	Remainder
5083	0.40	0.40	0.10	0.40-1.0	4.0-4.9	0.05-0.25	-	0.25	0.15	-	0.05	0.15	Remainder
5086	0.40	0.50	0.10	0.20-0.7	3.5-4.5	0.05-0.25	-	0.25	0.15	-	0.05	0.15	Remainder
6061	0.40-0.8	0.70	0.15-0.40	0.15	0.8-1.2	0.04-0.35	-	0.25	0.15	-	0.05	0.15	Remainder
6063	0.20-0.6	0.35	0.10	0.10	0.45-0.9	0.10	-	0.10	0.10	-	0.05	0.15	Remainder
6082	0.70-1.3	0.50	0.10	0.40-1.0	0.60-1.2	0.25	-	0.20	0.10	-	0.05	0.15	Remainder
7075	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	-	5.1-6.1	0.20	-	0.05	0.15	Remainder

Aluminum plate Physical Properties

Alloy	Temper	Thickness mm	Tensile Strength Rm/Mpa Min.	Yield Strength Rp0.2/Mpa Min.	Elongation % Min.
1050	0	>6	60-100	20	28

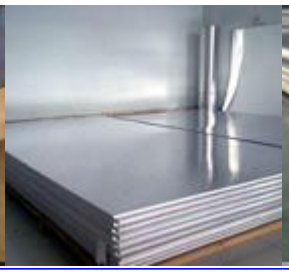
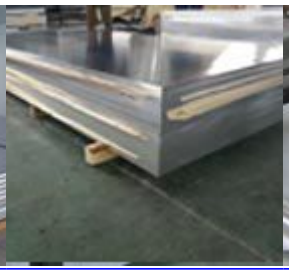
Alloy	Temper	Thickness mm	Tensile Strength Rm/Mpa Min.	Yield Strength Rp0.2/Mpa Min.	Elongation % Min.
	H112	6-12.5	80	45	10
		12.5-25	70	35	16
		>25	65	30	22
2024	O	>6	≤220	—	10
	T3	>6	440	290	12
	T4	>6	425	275	15
3003	O	>6	95-140	35	24
	H112	6-12.5	115	70	10
		>12.5	100	40	18
5005	O / H111	6-12.5	100-145	35	24
		>12.5	100-145	35	20
	H112	6-12.5	115	—	8
		12.5-40	105	—	10
		>40	100	—	16
5052	O / H111	6-12.5	170-215	65	19
		>12.5	170-215	65	18
	H112	6-12.5	190	80	7
		12.5-40	170	70	10
		>40	170	70	14
5083	O / H111	6-12.5	275-350	125	16
		12.5-50	275-350	125	15
		>50	270-345	115	14
	H112	6-12.5	275	125	12
		12.5-40	275	125	10
		>40	270	115	10
5086	O / H111	6-12.5	240-310	100	17
		>12.5	240-310	100	16
	H112	6-12.5	250	105	8
		12.5-40	240	105	9
		>40	240	100	12
6061	O	>6	≤150	≤85	16
	T4	>6	205	110	18
	T6	>6	205	240	9
6063	O	>6	≤130	—	15
	T6	>6	230	180	8
6082	O	6-12.5	≤150	85	17

Alloy	Temper	Thickness mm	Tensile Strength Rm/Mpa Min.	Yield Strength Rp0.2/Mpa Min.	Elongation % Min.
		>12.5	≤155	—	16
	T4	>6	205	110	15
	T6	>6	300	255	9
7075	0	6-12.5	540	470	6
		>12.5	530	460	5
	T6	>6	540	475	8

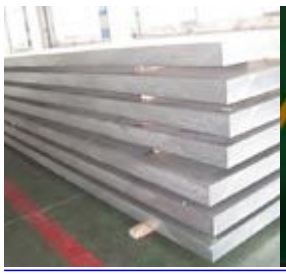
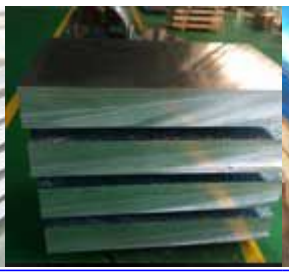
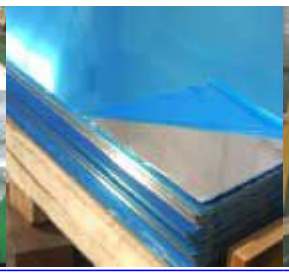
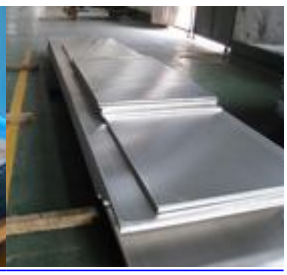
Aluminum alloy Plate

The thickness of the aluminum plate is more than 0.2mm, 500mm or less, 200mm width or more, the length of 16m or less of aluminum called aluminum plate or aluminum sheet, 0.2mm or less for aluminum, a width of less than 200mm or discharge material strip (of course with the advancement of large equipment, the widest 600mm exhaust timber can be done will be more). Refers to the processing of aluminum ingots rolled rectangular plate, divided into pure aluminum, aluminum alloy, thin aluminum, aluminum pattern in the thick aluminum,aluminum checker plate.

Typical Aluminum alloy


5083 aluminum plate | 6061 aluminum plate | 5086 aluminum plate | 5052 aluminum plate

2024 aluminum plate | 7075 aluminum plate | marine aluminum plate | aluminum mold plate

5083 Aluminum Alloy plate– 5083 aluminum plates to satisfy the requirements for many industries. 5083 aluminum plate has higher strength than 5052 plate and a high resistance to corrosion. Because Alloy 5083 exhibits excellent resistance to general corrosion, it is used in marine applications.
5086 Aluminum Alloy plate– 5086 aluminum plate has higher strength than 5052 plate and 5083 plate and its mechanical properties vary significantly with hardening and temperature. It is not strengthened by heat treatment; instead, it becomes stronger due to strain hardening or cold working of the material. This alloy can be readily welded, retaining most of its mechanical strength. The good results with welding and good corrosion properties in seawater make Alloy 5086 extremely popular in marine applications. It is also easy to form, stamp and weld.
5456 Aluminum Alloy plate – This alloy is primarily used in areas where high strength and better welding parameters are required in a marine vessel or other engineering applications. Alloy 5456 is stocked in tempers H116, H321; to spec ASTM B928. Tempers O, H112, H32; to spec ASTM B209 this alloy has higher tensile strength than other marine alloys such as 5083 or 5086, and good corrosion resistance in a sea water environment, but not always the formability and corrosion performance of some of the other alloys.
5454 Aluminum Alloy plate – This alloy is primarily used in areas where good formability is required, it is used in O, H112, H32, H34; to specification ASTM B209 Tempers and is an excellent choice for large pressure vessels and certain marine fabricated products. The formability is at its best in the soft 0 temper, but also sometimes used in H32 or H34 tempers too. However the strength and corrosion resistance are not always as good as other alloys, so as always a marine structural engineer should be consulted for each application.
5052 H32 Aluminum Alloy plate – A common alloy with good strength and weldability and it is easy to form and fabricate. However, not always considered a true marine alloy.
6061 T6 Aluminum Alloy plate – A heat treated alloy with higher strength used in many general engineering applications.However, again not considered a true marine alloy.

For additional information on these and other materials please contact us

The advantages of Aluminum alloy Plate

Fine machinability
Comparing to the steel, the speed of aluminium alloy's machinability is 4 times faster. Therefore, the mould manufacturing period can be shortened by using aluminium alloy material. Besides, the excellent machinability can largely reduce wear of cutting tools and extend their life, thus reduce the production cost and material waste.
Low density
With desity of 2700kg/m3, only 1/3 density of steel, the aluminium plate can be easily moved and transported, and the aluminium mould could be conveniently open and close because of low weight.
Outstanding thermal conductivity
With thermal conductivity 123W/m·K-170W/m·K, 4 times of the steel, aluminium alloy can shorten components cooling time effectively.

Aluminum Plate Typical Applications

Moulding industry, alloy 2xxx, 5xxx, 6xxx, 7xxx -Foam Moulding -Vacuum Forming -Blow Moulding -RIM and Structural Foam Moulding -Rubber Moulding -Injection Moulding

Pressure vessel industry, alloy 1xxx, 3xxx

Ship building industry, alloy 5xxx, 6xxx

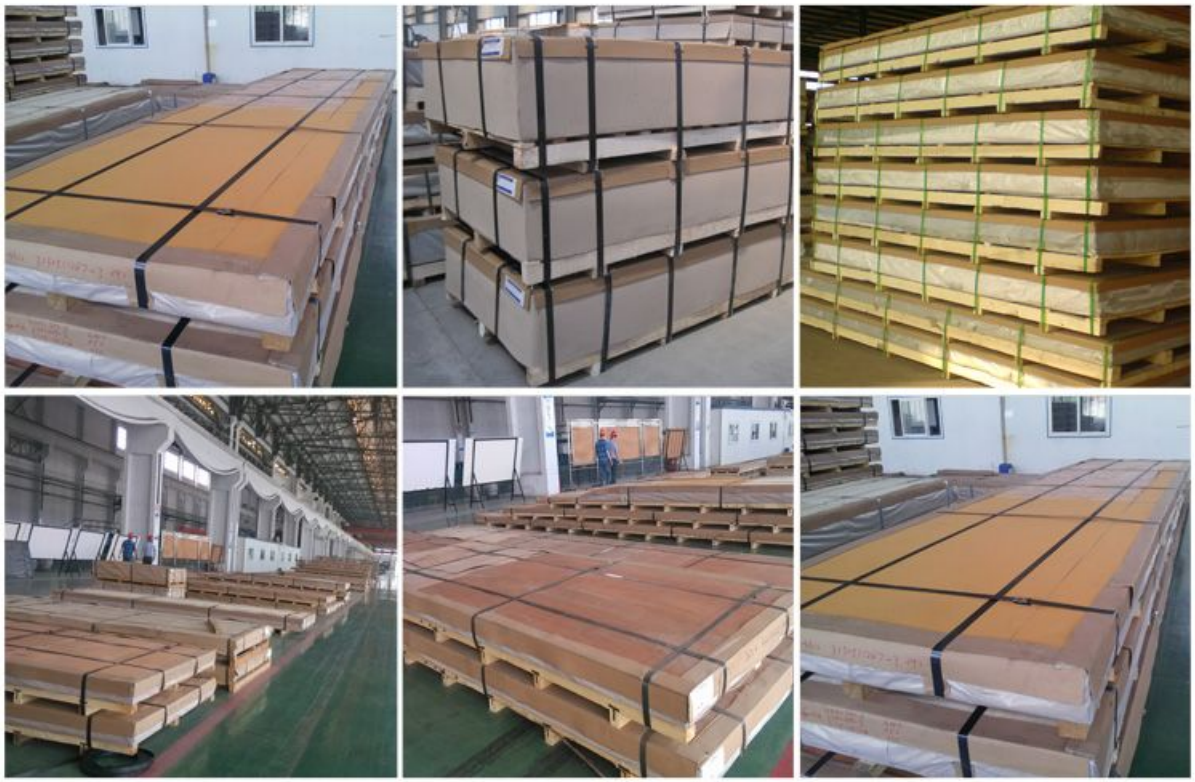
Vehicles industry, alloy 5xxx

Machinery industry, alloy 5xxx, 6xxx, 7xxx

Production Process

Melting → Casting → Saw cutting → Slab milling → Hot rolling → Cutting → Inspection → Packing → Shipment

Packing



Company profile

Haomei Aluminum is located in famous aluminum capital of Zhengzhou, Henan province. We are professional aluminum manufacturer, mainly produces series-1, series-3, series-5, series-6 and series-8 pure aluminum and aluminum alloy plate/strip/foil products.

We would like to highlight our aluminum plate,aluminum alloy plate 7075,6061,3003,2024,5052,5083,5086 plate,aluminium closure sheet for ROPP cap materials, Aluminium Circle/disc for cookware and lighting,Aluminium Tread Plate,marine aluminum plate, aluminium strip, aluminium foil and aluminum mold plate with good quality and competitive price.

Haomei Aluminum sells its products widely to United States, Mexico, Brazil, Chile, Germany, UK, Italy, Belgium, Bulgaria, Australia, Saudi Arabia, UAE, Iran, Bangladesh, India, Sri Lanka, Vietnam, Thailand, Korea, Singapore, Indonesia, Philippines, South Africa, Algeria, Tunisia etc more than 60 countries.

Haomei Aluminum has total annual production capacity of 200,000 metric ton aluminum sheet, strip and foil. It is equipped with 1+4 hot tandem rolling line, 4 cold mill production lines, and 5 foil mill production lines, and a complete complex of fishing equipment.

Serve our Clients with Heart and Soul has always been the motto of our company. Haomei Aluminum is eager to take cooperation with all the customers from home and abroad to create a wonderful future together!!!

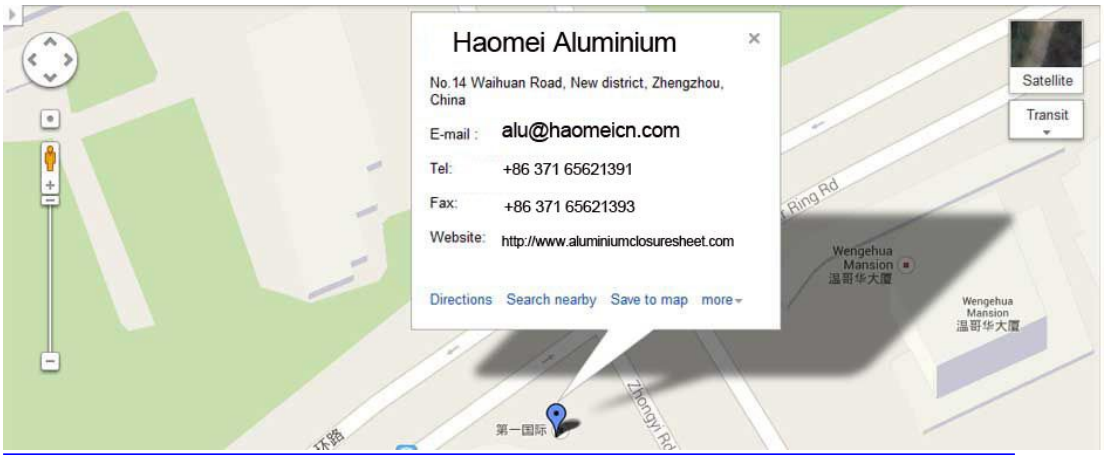
Our Team

History

1998 Established Haomei Aluminum Co., Ltd.
1999 Completed rolling plant in Gongyi, Henan.
2000 Became the first company in Henan to manufacture hot rolled thick aluminum plates.
2003 Began manufacturing aluminum plates for the largest ethylene tanks in Henan.
2005 Became the first company in Henan to manufacture materials for long aluminum bottle cap.
2007 Became the first company in Henan to manufacture materials for short aluminum bottle cap
2008 Office moved to capital of Henan—Zhengzhou city from a small town Gongyi.
2010 Established Haomei industrial(Hongkong) Co., Ltd.
2012 Established E-commerce department
2014 Established Haomei Branch of The Communist Party of China

Factory

Contact Us



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