

Marine grade aluminum sheet plate in grades of 5052, 5083, 5086 are widely used in shipbuilding for excellent corrosion resistance performance. BCM ALU can provide 5052, 5754, 5083, 5086, 5454, 5059, 5383 and 6061, 6063, 6082 aluminum alloy for you. The most used are: 5052 aluminum plate, 5083 aluminum plate, 5086 aluminum plate, 6061 aluminum plate, etc.

The 5000 series marine grade aluminum and 6000 series marine grade aluminum produced by BCM have successively passed the certification of China Classification Society (CCS), Det Norske Veritas (DNV), American Bureau of Shipping(ABS), Bureau Veritas(BV) and Lloyd's Register(LR). It has been tested by the market and has outstanding quality. It is the best choice for aluminum for ships.

Specification:

Alloy	5052, 5083,5086, 5754,5454, 5059, 5383, 6061, 6082
Temper	Soft HO, H111, H112, H114, H116, H321, T6, T651, etc
Size	4x8 aluminum sheet, 4x10 aluminum sheet, 5x10 aluminum sheet
Thickness	2mm, 2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 10mm ( thick ), etc
Width	100-2600mm
Length	500-16000mm

- 5083 Marine Grade Aluminum.

5083 aluminum alloy belongs to Al-Mg alloy. The strength and corrosion resistance of 5083 are good, 5083 is more suitable for applications requiring higher strength and corrosion resistance. Such as the ship's side and bottom shell and keel. The common tempers of marine grade 5083 aluminum alloy are h112, h116 and h321.

- 5052 Marine Grade Aluminum.

5052 aluminum plate has good resistance to marine atmosphere and salt water corrosion. Its fatigue strength is greater than that of most grades of aluminum alloys. And it has good processing toughness. 5052 aluminum alloy is suitable for complex shapes such as ship roof and side panels, chimneys, decks, cable trays, portholes, gangways, etc.

- 5086 Marine Grade Aluminum

5086 aluminum is frequently found in marine applications, with higher strength capacity than aluminum 5052 or 5083. 5086 has superior corrosion resistance, moderate strength, and good formability. 5086 is non-magnetic, easily weldable and formable. It is typically used in pressure vessels, cryogenics, towers and rigs, oil/gas piping, and armor.

- 6061 Marine Grade Aluminum

6061 aluminum is an Al-Mg-Si alloy. It can be increased in strength by heat treatment. 6061 aluminum alloy has good workability and strength. It is very suitable for making structural parts of ships, stiffeners of hulls and other parts.

Marine grade aluminum profiles for shipbuilding industry:

Item	Designation	Alloy
Friction Stir Welding Plate	superstructure and hull	6082 T6
T bar	cabin stiffeners and solar panel	6061
Angle Bar	Strakes & glass frame	6061
Pipe	Bollards, fuel line&railing, targa, fuel air pipe, railing vertical	6061/6082
Solid Round Bar	bollards spike	6061
I beam	hull structures	6061/6082
Tube	boat frames, masts, railing	6061,6082
U Channel	hull structures	6061, 6082