Marine Grade Aluminum Checker Plate - Haomei Aluminium

The **marine grade aluminum checker plate** are available in 5052, 5083 and 5086 alloy aluminium which is indeed suitable for marine applications. Our quintet marine grade aluminium diamond plate is suitable for marine applications where a combination of strength and corrosion resistance to sea water requirement is a priority. This high strength aluminium alloy is tough, good for welding thus making it perfect for flooring applications. Easy to clean, with good slip resistance, it also has a decorative industrial appearance.

Manufacturing of deck, walkways, loading bays, stair-tread, flooring, kick plates, vehicle accessories, and various decorative purposes is done with marine grade aluminium trade plate. The marine grade aluminum checker plate are available in 5052, 5083 and 5086 alloy aluminium which is indeed suitable for marine applications. This material is good for welding and perfect for flooring applications. These plates are easy to clean and look fine because of its good slip resistance property. With a feature of decorative industrial appearance, you can count on these products for decorative purposes. It is also known for its superior resistance to seawater and this is why it is ideal for the marine industry.
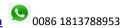
Specification of Marine Grade Aluminum Diamond Plate

Alloy	5052, 5754, 5454,5083, 5086 6061	
Temper	H114, H224, H12, H14, H16, H18, H32, H34, H36, H38, T4, T6, F	
Surface	Bright finish, Mill finish	
Bar Difference	1 bar (Diamond), 2 bar, 3 bar, 5 bar	
Thickness	0.8 - 6.5mm	
Width	500 ~ 2200mm	
Length	under 10000mm or in coil	
Coil ID	300, 400, 500, etc	
Available Dimension		
	Mill Finish Surface	Bright Finish Surface
Thickness	1.00---6.50mm	1.20---6.50mm
Pattern height	Sheet Thickness from 1.0 to 2.0mm, bar height: 0.5mm	Sheet Thickness from 1.0 to 2.0mm, bar height: 0.5mm
	Sheet Thickness from 1.0 to 2.0mm, bar height: 1.0mm	Sheet Thickness from 1.0 to 2.0mm, bar height: 1.0mm
	Sheet Thickness above 2.0mm, bar height: 1.5mm	Sheet Thickness above 2.0mm, bar height: 1.5mm
Width	Maximum 1500mm	Maximum 1650mm
Length	Maximum 6000mm	Maximum 6000mm
Paper interleaves	On request for selected	On request for selected
Normal size	1200×2400mm, 1219×2438mm, 1219×3048mm	1200×2400mm, 1219×2438mm, 1219×3048mm

Chemical Composition of Marine Aluminum Checker Plate

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Each	Total	Alu
5052	0.25	0.4	0.1	0.1	2.2--2.8	0.15-0.35	-	0.10	-	-	-	0.05	0.15	Remainder

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Each	Total	Alu
5083	0.4	0.4	0.10	0.40-1.0	4.0--1.0	0.05-0.25	-	0.25	0.15	-	-	0.05	0.15	Remainder

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Each	Total	Alu
5086	0.4	0.5	0.10	0.20-0.7	3.5--4.5	0.05-0.25	-	0.25	0.15	-	-	0.05	0.15	Remainder

Patterns of Marine Grade Aluminium Checker Plate

During production, the pattern is applied to the plate by forming rolls which are pressed onto the plate with a large force. In doing so, the bottom of the plate remains plain. It is not possible to emboss the aluminium plate subsequently.

Due to the diagonally finned structure, the plate becomes slip-resistant which is why it is also suitable for use outdoors and in wet areas. In addition to the finned structure, there are many other shapes and patterns which provide the same characteristics.

Depending on the type of plate, 1 to 5 bars are arranged next to each other, forming a checked pattern. It is differentiated between 1 bar(diamond), 2 bar, 3-bar and 5-bar patterns.

Application of marine grade aluminium checker plate

Due to its superior resistance to sea water, Marine grade chequered plate is used in marine platforms, door kick plates, door cladding, access ramp covering for wheelchairs and stair treads.

Features of marine grade aluminium checker plate

Excellent corrosion resistance.

Large specification

High precision

Good fatigue resistance