

5052 Aluminum Diamond Plate | Haomei Aluminium

Alloy 5052 is a non-heat-treatable magnesium, chromium alloy commonly available in flat rolled coil, sheet and plate from a wide range of producing mills. Like all the 5000-series high magnesium alloys, 5052 has a fairly high strength and is hardenable to a significant degree by cold working, enabling a series of H tempers. Alloy 5052 is also produced as a tread plate (also known as checker plate) with mainly industrial applications.

[5052 aluminum tread plate](#) checkered sheets are very resilient against aggressive substances and therefore, they regarded as indestructible. Due to their durability, they are used in many different areas because they do not lose their shape or look, even after a long time. Whether industrial floors, airplanes, ships and vehicles, or stairs indoors or outdoors, 5052 aluminium checker plates are a popular material which is appreciated for its excellent properties, the high resilience and the low weight. Even designers use these plates due to their decorative look.

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.

During production, the checkered 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 aluminum plate remains plain. It is not possible to emboss the aluminium plate subsequently. Due to the diagonally finned structure, the 5052 aluminum checker 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.

Specification of 5052 aluminum diamond plate:

| | |
|-----------------|---|
| Alloy | 5052 |
| Thickness | 1.0-6.0mm |
| Width | 500-1600mm |
| Length | 500-6000mm |
| Surface | Mill finish,Flat,Clean |
| Film / Paper | Can be blue film coated or not , also can be paper between each sheet |
| MOQ | 3 MT , or depend on the SPECIFICATION . |
| Production Line | DC and CC |
| Application | Building ,Construction,Decoration ,Mechanical etc. |
| Kind attn | Custom Made, if any questions, pls do feel free to contact us . |

Chemical Composition of 5052 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 |

| Available Dimension | | |
|---------------------|---|---|
| | Mill finish Surface | Bright finish Surface |
| Thickness (mm) | 1.00---6.50mm | 1.20---6.50mm |
| Pattern height | Sheet Thickness from 1.0mm to 2.0mm, bar height: 0.50mm | Sheet Thickness from 1.0mm to 2.0mm, bar height: 0.50mm |
| | Sheet Thickness from 1.0mm to 2.0mm, bar height: 1.00mm | Sheet Thickness from 1.0mm to 2.0mm, bar height: 1.00mm |
| | Sheet Thickness above 2.0mm, bar height: 1.50mm | Sheet Thickness above 2.0mm, bar height: 1.50mm |
| Width (mm) | Maximum 1500mm | Maximum 1650mm |
| Length (mm) | 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 |

Application of 5052 aluminium checker plate:

- A. 5052 Aluminum tread checkered plate sheet has good skid resistance. So it is usually used in the loading ramps, trench covers, dock flooring, stair treads and even for the car, truck, ambulance and fire truck.
- B. It has the decorative function, so it can be used as decoration wall panels, cabinet and ceilings.
- C. Because of the anti- corrosion, it can be used in the chemical industry, or in the decoration of the ship and port facilities.

Advantages of 5052 aluminium tread plate:

- Corrosion-resistant
- Anti-slip
- Hot-Rolled – Perfect for Fabrication
- Highly suitable for many practical and decorative applications including floors, walls, trailers, garages, and gyms