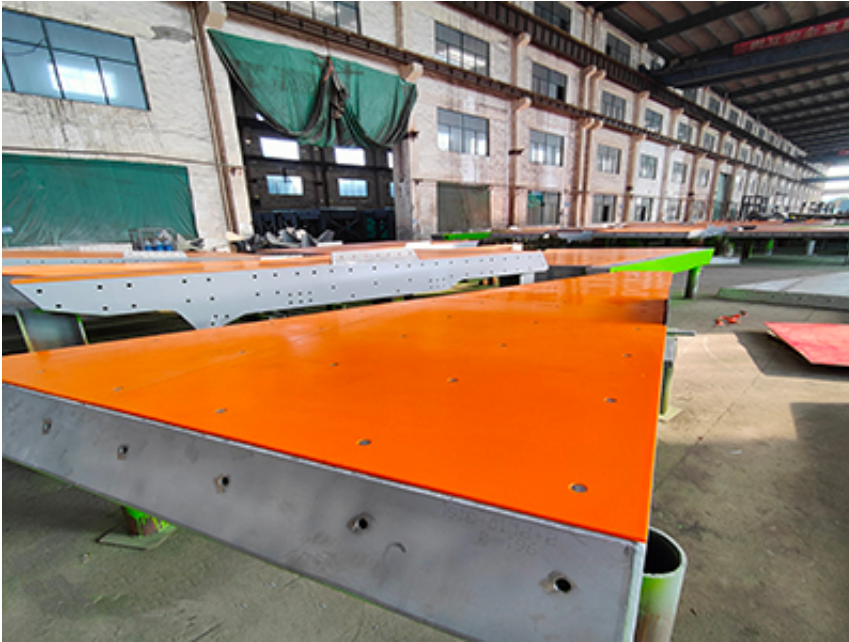

Cast Anti-Collision Polyurethane Plates

Title	Cast Anti-Collision Polyurethane Plates
Thumb	
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Description

Cast anti-collision polyurethane plates have been widely used in construction, logistics, transportation, and marine engineering. In addition to the remarkable anti-collision, shock absorption, high rebound, chemical corrosion resistance, wear resistance, high and low temperature resistance, and long service life, it also has multiple advantages such as thermal insulation, moisture and waterproof, light weight and high strength, fire resistance and sound absorption and sound insulation.



Features of cast anti-collision polyurethane plates

- Thermal insulation

The thermal conductivity of polyurethane plates is extremely low, usually between $0.018\text{g}\sim 0.023\text{w}/(\text{m}\cdot\text{k}\cdot\text{w})$, which is much better than traditional thermal insulation materials. This allows the thickness of polyurethane panels to be greatly reduced under the same thermal insulation effect, thereby increasing the indoor use space.

- Moisture-proof and waterproof

Since the closed-cell rate of polyurethane plates exceeds 90%, it is a hydrophobic material. The surface is waterproof like a lotus leaf, and water droplets slide directly away, and the interior does not absorb water. It can maintain excellent performance even in a humid environment.

- Lightweight and high strength

Polyurethane boards have low density, only 1/8 of steel, light weight, but high compressive strength, which makes handling and installation more convenient, while reducing the load on the building and reducing the structural cost.

- Fireproof performance

By adding flame retardants, polyurethane boards can achieve a flame-retardant self-extinguishing effect. Its softening point can exceed 250°C . The carbonized layer formed

on the surface during combustion can also effectively prevent the spread of fire, and no harmful gases will be produced.

- Sound absorption and sound insulation

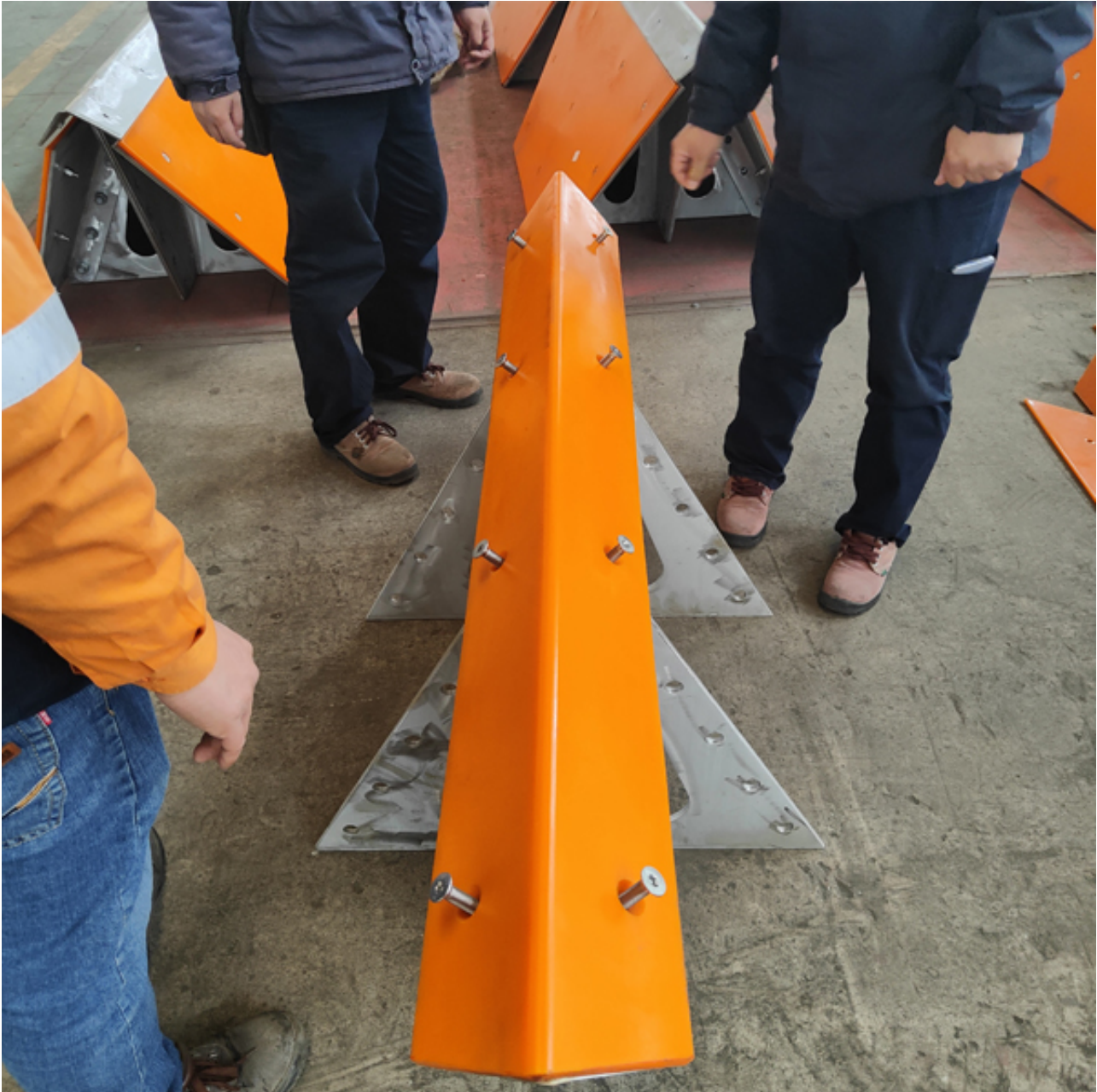
The closed-cell structure of polyurethane materials gives it good sound absorption performance. Its application in the construction field can effectively reduce noise and improve the comfort of living and working environments.

- Other properties

In addition to the above characteristics, polyurethane boards also have anti-collision, shock absorption and high rebound characteristics. They can effectively absorb energy and quickly return to their original state when impacted, protecting equipment and personnel safety. In addition, its resistance to chemical corrosion, wear and high and low temperature resistance enables it to maintain stable performance and long service life in various harsh environments.

Where are anti-collision poly sheets most needed?

- Construction site: roof insulation + waterproof + fireproof, one board can do it, and the construction period is shortened by half.
- Logistics warehouse: the shelves are light and can carry heavy loads, and they are not damaged even if they are hit by forklifts.
- Subway tunnel: shock absorption and noise reduction + fire prevention, passengers are comfortable and safe.
- Offshore platform: anti-seawater corrosion, anti-ship collision, and no frequent maintenance.



In short, cast anti-collision polyurethane sheet has the characteristics of anti-collision, shock absorption, high rebound, chemical corrosion resistance, wear resistance, high and low temperature resistance, long service life, thermal insulation, moisture and waterproof, light weight and high strength, fire resistance, and sound absorption and sound insulation. These characteristics make it the first choice for various industries seeking reliable and durable protection solutions.