

Aluminum Alloy Overhead Junction Box

Article Overview

Aluminum alloy overhead junction boxes are durable, corrosion-resistant enclosures designed to protect electrical connections in industrial and outdoor environments.

Key Features

Material and Construction: These junction boxes are typically made from aluminum alloy (such as AlSi 12), offering high strength, lightweight design, and excellent corrosion resistance. Many models are die-cast for added durability and mechanical strength . **Protection Ratings:** Most aluminum alloy junction boxes provide IP66 protection, ensuring they are dust-tight and protected against powerful water jets. They also often feature IK09 or IK10 impact resistance, making them suitable for harsh industrial conditions . **Temperature and Environmental Resistance:** They can withstand extreme temperatures, ranging from -60°C to +175°C, and are suitable for outdoor or rooftop installations on corrugated or box-section roofs of galvanised iron or fibre cement . **Surface Treatments:** To enhance corrosion resistance and paint adhesion, these boxes may be treated with SurTec 650, Alodine, or electropolishing. Powder coating in custom RAL colors is also available for aesthetic or branding purposes . **Customization and Accessories:** Many manufacturers offer custom machining, sheet metal bending, and splicing to meet specific size or design requirements. Terminal connectors and insulating sleeves are often included for safe installation . **Applications:** Aluminum alloy overhead junction boxes are ideal for industrial wiring, rooftop electrical connections, and hazardous zones (Zones 1, 2, 21, 22). They are suitable for housing electrical and electronic equipment, ensuring safety and reliability in demanding environments . **Additional Benefits:** Lightweight construction simplifies installation, while the robust design ensures long-term protection against mechanical impacts, moisture, and chemical exposure. Some models also provide EMC shielding to protect sensitive electronics . In summary, aluminum alloy overhead junction boxes combine strength, corrosion resistance, and environmental protection, making them a versatile solution for industrial, commercial, and outdoor electrical installations .

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Aluminum Alloy Junction Boxes. Customer focused design for all applications and environments. Known for ease of installation and

6"x 6" x 2.8" (160*160*70mm) small size Features: Surface Mounted, sealed aluminum metal electrical enclosure switch Junction

The Aluminium Junction Box by Phoenix Mecano is a highly rugged industrial enclosure made of AlSi 12, specifically engineered for

Aluminium alloy die-castingforming, high temperature resistant, Corrosion-Proof, can be used in harsh environments. Surface

number represents complete hinge sets necessary for enclosure assemb Enclosures are pre-drilled for hinge kits unless otherwise

Application The JBE1 junction boxes are designed for tap, splice or connecting of conductors for control, instrument or power circuit.

Pratley aluminium alloy junction boxes can also be purchased prepopulated with rail

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The series of waterproof junction box is made of aluminum alloy die-casting, waterproof rating is IP66. Adopting silicone sealing strip,

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