

Steel Plate for Distribution Boxes



Article Overview

Steel plates in distribution boxes serve as mounting surfaces for electrical devices, providing strength, durability, and protection against environmental factors.

Material and Construction

Steel plates used in distribution boxes are typically made from cold-rolled or electro-galvanized steel, offering excellent mechanical strength and resistance to deformation . These plates are often treated with powder coatings, such as polyester finishes, to protect against dust, dirt, corrosion, and mechanical impacts, while also providing a professional appearance . Standard colors include light grey (RAL7035), black (RAL9005), or custom colors on request .

Function and Features

The primary function of a steel plate in a distribution box is to mount electrical devices securely, including circuit breakers, relays, and terminal blocks . Key features include:

- Pre-drilled mounting holes or customizable cutouts for flexible device placement .
- Grounding provisions to ensure electrical safety .
- Compatibility with wall-mounted or freestanding enclosures, depending on the application .
- Optional stiffener rails and gland plates to facilitate wiring and reduce cable damage

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