

Steel plate of indoor distribution box



Overview

Choose from our selection of steel boxes, including corrosion-resistant washdown enclosures, compartmented boxes, and more.

Key Takeaways

Indoor distribution boxes often use lightweight or stainless steel plates to provide structural support, secure mounting, and protection for electrical or telecommunication components. **Material and Construction**

Indoor distribution boxes typically feature steel backplates or mounting plates made from mild steel or stainless steel. For example, standard LSA-PLUS® series boxes use lightweight mild steel plates in grey (RAL 7032 or RAL 7035) for indoor applications, providing a stable surface for mounting modules and accessories. Stainless steel variants, such as 1.4301 (V2 A) or 1.4404 (V4 A), are used in environments requiring higher corrosion resistance or compliance with hazardous area standards. These plates are often removable and lockable, allowing flexible installation and maintenance.

Mounting and Accessories

Steel plates serve as the primary support for modules, circuit breakers, or terminal blocks. They may include pre-drilled holes or slots for easy attachment of components, jumper rings for cable management, and grounding points to ensure electrical safety. Some boxes provide detachable backplates, which simplify installation and allow components to be pre-mounted before securing the box to the wall.

Protection and Standards

Steel plates contribute to the mechanical strength and protection of the distribution box. Indoor boxes typically meet IP20 standards, while more robust enclosures with stainless steel plates can achieve IP65 or IP66, offering protection against dust and water ingress. Proper earthing of the steel plate is essential to comply with safety regulations and prevent electrical hazards.

Applications

Steel plates in indoor distribution boxes are used in telecommunication networks, electrical distribution, and industrial control systems. They provide a rigid mounting surface, facilitate organized cable routing, and support modular upgrades, including overvoltage protection or additional terminal modules. Stainless steel plates are preferred in harsh or corrosive environments, while mild steel is sufficient for standard indoor installations.

Summary

In essence, the steel plate in an indoor distribution box acts as a structural backbone, ensuring secure mounting, electrical safety, and durability. Selection between mild steel and stainless steel depends on environmental conditions, required IP rating, and the type of components to be installed. Proper installation, grounding, and compatibility with accessories are key to maximizing performance and safety.

Article Content

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