

Metal cover plate for distribution box



AI Overview

The metal cover plate of a distribution box provides mechanical protection, corrosion resistance, and safety for internal electrical components. Construction and Material Metal cover plates are typically made from high-strength cold-rolled steel (Q195) or galvanized steel, ensuring rigidity and durability under load or during cable overheating. Some models feature powder-coated finishes for enhanced resistance to dust, dirt, and mechanical impacts, while others include anti-corrosion treatments verified through extended testing. The thickness of the metal ranges from 1.2mm to 2mm, depending on the enclosure type and intended protection level. Protection and Safety The cover plate contributes to the IP protection rating of the distribution box. For indoor applications, IP30 is common, providing protection against solid objects larger than 2.5 mm. For outdoor or more demanding environments, IP65-rated boxes include a rubber gasket around the door to ensure dust and water resistance. The cover plate also prevents accidental contact with live components, enhancing operational safety. Design Features Drop-down or hinged design for easy access to internal components like MCBs, RCDs, RCBOs, and surge protection devices. Quarter-turn or lockable closures for secure installation and tamper prevention. Customizable finishes and colors, such as RAL7035 (light grey) or RAL9005 (black), are available for aesthetic or branding purposes. Internal mounting plates allow secure attachment of modular components, while the cover plate protects them from mechanical damage. Applications Metal cover plates are suitable for residential, commercial, and industrial installations, including EV charging units, data centers, and general low-voltage distribution systems. They provide long service life, high mechanical durability, and reliable operational safety, making them ideal for environments where unskilled persons may access the distribution box. In summary, the metal cover plate is a critical component that ensures structural integrity, safety, and environmental prot...

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RB_Tree/Dictionary.txt at main ·

Contribute to Mahmoud5704/RB_Tree development by creating an account on GitHub.

Metal distribution box - Distribution boxes - Tracon Electric

Plastic safety lock (2) Masked metallic power distribution box (13) Metal plate power distribution box with mask (surface mounted version) (4) Metal plate power distribution box with mask (recessed version)

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