Installation Method of Concealed Distribution Box



Overview

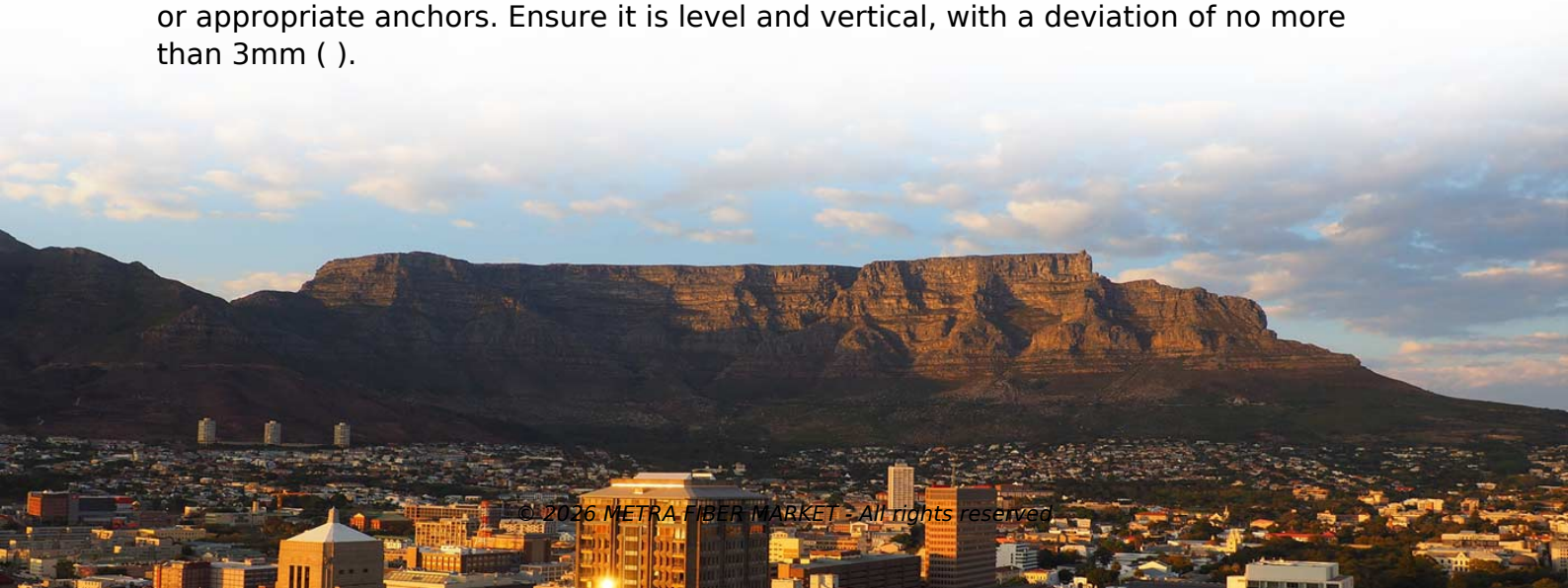
The invention relates to the technical field of distribution boxes, in particular to a concealed distribution box and a construction method thereof.

Key Takeaways

A concealed distribution box is installed within walls or ceilings, ensuring safety, organization, and compliance with electrical standards. Step 1: Selecting the Right BoxChoose a concealed DB box based on size, load capacity, material, and certifications. Plastic boxes are lightweight and suitable for indoor use, while metal boxes offer higher durability and fire resistance.

Ensure the box is UL-listed or CE-certified for safety compliance ( ). Step 2: Preparing the WallMark the location where the box will be installed, ensuring accessibility for future maintenance. Cut an opening slightly larger than the box dimensions (about 20mm extra on length and width) to accommodate plastering ( ).

The depth of the reserved hole should equal the box thickness plus the plaster layer. Step 3: Mounting the BoxEmbed the box into the wall and fix it firmly using concrete or appropriate anchors. Ensure it is level and vertical, with a deviation of no more than 3mm ( ).



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Seal gaps around the box edges and coat contact areas with anti-corrosion paint to prevent damage ( ). For heavier boxes, consider structural support or vibration dampers if near motors or high-vibration areas ( ). Step 4: Wiring and ConnectionsConnect the power line to the terminal of the intermediate contact and the load line to the threaded terminal for fuses, ensuring no electric shock during maintenance ( ).

Install circuit breakers, busbars, and terminal blocks neatly, using DIN rails if available. Separate neutral (N) and protective earth (PE) busbars, number them, and avoid splicing ( ). Use proper wire gauge, insulation, and grounding according to local electrical codes ( ).

Step 5: Finalizing InstallationInstall the cover plate securely. Perform visual inspections and multimeter tests to verify correct wiring and absence of short circuits ( ). Label each circuit for easy identification and future maintenance ( ).

Step 6: Maintenance and SafetySchedule regular inspections to ensure long-term reliability. Keep the box dry, ventilated, and accessible. Ensure all protective devices like breakers, fuses, and surge protectors are functional ( ).

By following these steps, a concealed distribution box can be installed safely, neatly, and in compliance with electrical standards, providing both protection and organized distribution of electricity within a building.

Article Content

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The invention relates to the technical field of distribution boxes, in particular to a concealed distribution box and a construction method thereof.

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Size determination, installation method and wiring mode

6) The electrical appliances in the distribution box shall be first installed on the non-metallic or wooden insulated electrical installation board, and then fastened in

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Embedded Conduit Installation Method This document provides a method statement for installing embedded conduits, boxes, and fittings during concrete construction.

Installation process of distribution box

3. The distribution box shall be embedded in the installation, and the panel after installation shall be flat with the wall. 4. After the cabinet (panel) adjustment is finished, the cabinet body and foundation

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