Location of Construction Distribution Box

Overview

The wire inlets and outlets in the distribution box and switch box shall be set at the lower bottom of the box. It is strictly prohibited to set them at the top, side, back or door of the box.

Key Takeaways

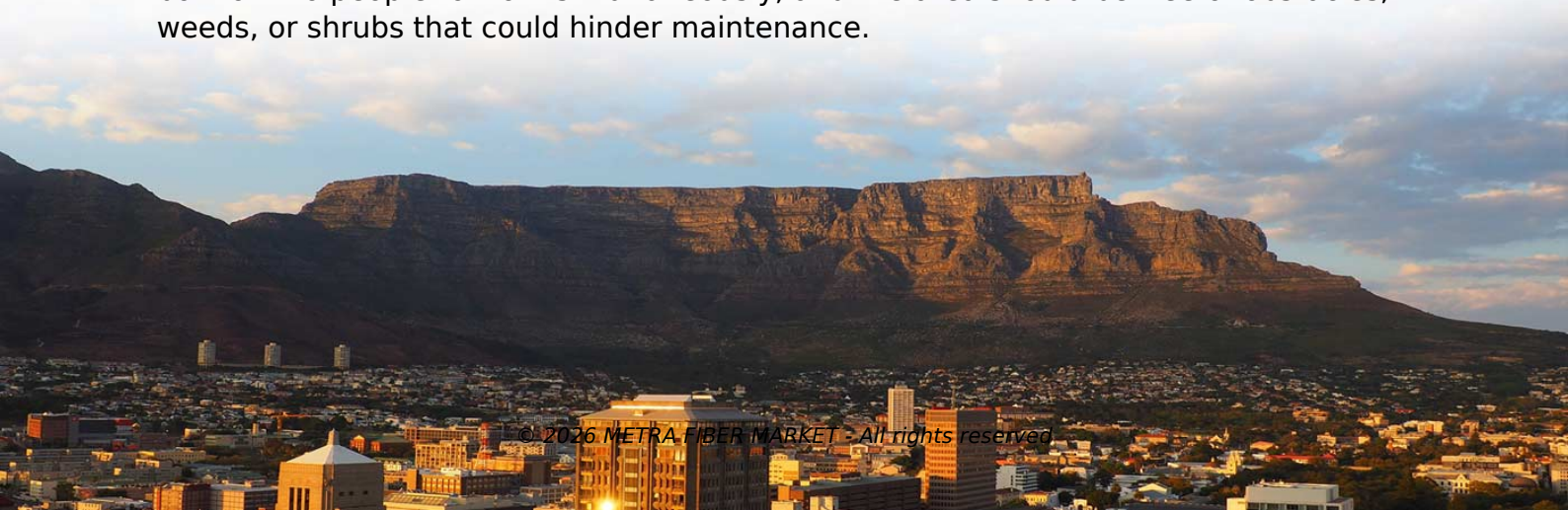
A construction distribution box should be installed close to the main power supply, in a dry, ventilated, and accessible area, away from harmful substances and hazards.

Optimal Placement

The main distribution box should be located near the power supply and in areas where electrical equipment or loads are concentrated, ensuring efficient power distribution to switch boxes and connected devices. The distance between the distribution box and any switch box should not exceed 30 meters, and the horizontal distance from the switch box to the equipment it controls should be within 3 meters.

Environmental Considerations

The installation site must be dry, ventilated, and at normal temperature. It is strictly prohibited to place the box in areas exposed to gas, flue gas, steam, liquids, vibration, impact, or heat sources. Adequate space should be provided around the box for two people to work simultaneously, and the area should be free of obstacles, weeds, or shrubs that could hinder maintenance.



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Accessibility and Safety

The distribution box should be easily accessible for electricians and maintenance personnel, allowing quick inspection and repair. Power and lighting distribution should ideally be separated, or if combined, their circuits must be clearly segregated. Wire inlets and outlets should be positioned at the bottom of the box, with proper insulation and waterproofing to prevent electrical hazards.

Material and Construction

Distribution boxes are typically made of iron plate or high-quality insulating materials, with metal parts electrically connected to ensure grounding. Components like circuit breakers, fuses, bus bars, and residual current devices should be properly installed to protect circuits from overloads and short circuits.

Summary

In summary, the ideal location for a construction distribution box is: Close to the main power supply and concentrated electrical loadsDry, ventilated, and at normal temperatureAway from flammable, corrosive, or hazardous substancesAccessible for maintenance with sufficient working spacePositioned to comply with distance requirements from switch boxes and equipment Following these guidelines ensures safety, operational efficiency, and compliance with electrical standards on construction sites.

Article Content

Key Points Of Installation And Collocation Of Distribution Box In ...

The wire inlets and outlets in the distribution box and switch box shall be set at the lower bottom of the box. It is strictly prohibited to set them at the top, side, back or door of the box.

The installation requirements for the distribution box

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars, earth bars, RCDs, RCBOs, SPDs, enclosure ratings, and wiring layout.

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Location: Install the distribution box in a dry, accessible area with good ventilation. Industrial setups should consider environmental factors like dust and humidity.

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The distribution box should be installed in an area close to the power supply to reduce power loss and ensure safety. Avoid installing in a humid and corrosive environment to prevent

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Requirements for distribution box at construction site

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1、The manufacture and installation of distribution box and switch box shall meet the following requirements: 1. The distribution box shall be made of iron plate or other fire-proof insulating

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The distribution box is the central hub of the home circuit and the general control of our daily power consumption. It is an indispensable electrical equipment. If there are some potential safety hazards,

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