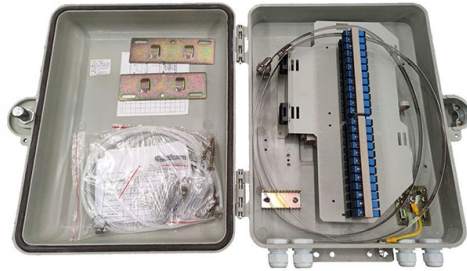


Concealed electrical box



Article Overview

Electrical concealed boxes are designed to house wiring and outlets discreetly, improving aesthetics while maintaining safety and accessibility.

Types of Concealed Electrical Boxes

1. Recessed Floor Boxes: These are installed into the floor, allowing plugs to be hidden below the surface with only cords emerging above. For example, the Lew Electric RCFB-1 is a recessed floor box with a 15A duplex outlet, tamper-resistant plugs, and a durable brass cover. It eliminates tripping hazards and can be installed under rugs or in finished floors like hardwood, with multiple knockouts for wiring access . 2. Wall-Mounted Concealed Boxes: These are embedded in walls or partitions to hide junctions, outlets, or switches. They can be made from steel, aluminum, ABS, or polycarbonate, offering protection against dust, moisture, and mechanical damage. Some boxes are designed for residential, commercial, or industrial use, with compliance to UL, IEC, CE, and RoHS standards .

Installation and Safety Considerations

- **Accessibility:** Concealed boxes must remain accessible for maintenance and emergency shut-off. For electrical panels, the National Electrical Code (NEC) requires a minimum working space of 36 inches in front, 30 inches wide, and 6 feet 6 inches vertical clearance .
- **Non-Permanent Covers:** Decorative covers, hinged artwork, or lightweight panels can conceal boxes while allowing tool-less access for safety and code compliance .
- **Durability:** Floor and wall boxes often undergo rigorous testing, such as load and s...

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