

Recessed power distribution box



Overview

Amazon.com: Recessed Power BoxArlington FLBC4580 Recessed Power and Data Round Floor Box for Existing or New Concrete Floor Boxes (Fits in Most 4.5" Inside.

Key Takeaways

A recessed power distribution box is a flush-mounted electrical enclosure designed to house outlets, circuit breakers, or low-voltage devices, providing a safe, space-saving, and aesthetically clean installation.

A recessed power distribution box is installed within walls, floors, or cabinets, allowing electrical components to sit flush with the surface. This design keeps plugs and sockets hidden, reduces clutter, and enables devices to sit closer to walls for a cleaner appearance . These boxes are commonly used in residential, commercial, and industrial settings, including public areas, workstations, and high-end installations .

Materials and Construction

Recessed boxes are typically made from metal (stainless steel or sheet steel) or fire-resistant PC (polycarbonate) with UV protection . Metal boxes offer durability and protection against mechanical damage, while PC boxes provide fire resistance and a sleek, modern look. Many models include earth and neutral copper bars for easy wiring and routing .

Features

- Compatibility: Can accommodate GFCI or standard outlets and support both power and low-voltage applications .

- **Safety:** Made with waterproof, flame-retardant, and fire-resistant materials, suitable for indoor and outdoor use .
 - **Space-saving:** Flush-mounted design keeps plugs and cords hidden, creating a flat, attractive surface .
 - **Customization:** Some models allow for custom configurations, including multiple circuits, incoming and outgoing cabinets, capacitor cabinets, and metering cabinets .
- Installation

Recessed boxes can be installed in wood, concrete, or tile floors, or within walls and cabinets. Typical dimensions vary, for example, a panel size of 4.6 x 2.6 inches with a depth of 1.4 inches is common for floor outlet boxes . Installation kits are often included to simplify setup. For larger distribution boards, professional installation may be required to integrate circuit breakers, isolating knives, and other components .

Applications

- **Residential:** Under-cabinet outlets, kitchen islands, and home offices.
- **Commercial:** Workstations, conference rooms, and public areas.
- **Industrial:** Control panels, machinery, and high-end electrical systems requiring organized and safe distribution .

Summary

A recessed power distribution box provides a safe, organized, and visually appealing solution for electrical distribution. Its flush-mounted design, durable materials, and compatibility with various outlets make it ideal for both new construction and retrofitting existing spaces, while offering flexibility for residential, commercial, and industrial applications .

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

