

RIVO MULTITRADE OPTICAL SYSTEMS

How many floors are electrical distribution boxes usually located on



Overview

A distribution box is installed under the main distribution box, and a switch box is installed under the distribution box.

Key Takeaways

Electrical distribution boxes are usually installed on every floor of a multi-story building, with the main distribution box often on the ground or lowest floor. Placement in Multi-Story Buildings

In multi-story buildings, each floor typically has its own distribution board connected to either a separate energy meter or a main distribution box on the ground floor. This ensures balanced electricity distribution and easier maintenance. The main distribution fuse board is generally installed on the lowest floor for quick access in case of emergencies, while sub-distribution boards are located on each floor to supply branch circuits to lamps, fans, and sockets .

Height and Accessibility

For residential and commercial buildings, standards such as IEC 60364 and BS 7671 recommend that distribution boards be installed at a height between 1 meter and 1.8 meters from the floor, with 1.3 meters suggested for elderly or handicapped users . Electrical panels should be positioned so that all adults can reach the highest breaker without strain, typically between 4 and 6 feet off the floor . Adequate clearance around the panel is required for safety and maintenance.

Layout Considerations

Distribution boxes should be located close to the load center, in dry, ventilated, and well-lit areas that do not obstruct building aesthetics. In high-rise buildings, boxes on each floor are usually aligned in the same position and direction to facilitate installation and maintenance . The final sub-circuits are drawn from these floor-level distribution boxes to supply individual electrical appliances.

Summary

- Main distribution box: Usually on the ground or lowest floor for centralized control and safety .
- Sub-distribution boxes: Installed on each floor to manage branch circuits .
- Height: 1-1.8 meters from the floor, accessible to all adults .
- Location: Dry, ventilated, well-lit, and close to load centers . This setup ensures efficient, safe, and code-compliant electricity distribution throughout multi-story buildings.

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The construction and installation points of distribution boxes and switch boxes are summarized as follows:

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Electrical Panel Locations Often during the schematic design process, the question comes up from time to time

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