Electrical distribution box in multi-story buildings

Article Overview

Electrical distribution in multi-story buildings typically uses floor-specific distribution boxes connected to a main supply, ensuring safe, balanced, and accessible power distribution.

Overview of Distribution Systems

In multi-story buildings, electricity can be distributed using either separate energy meters for each floor or a single main meter on the ground floor. Each floor usually has its own distribution board (DB) or sub-distribution board, which receives power from the main distribution fuse board. From these boards, sub-circuits are drawn to supply lighting, fans, sockets, and other electrical loads, ensuring balanced load distribution and safety .

Centralized vs Decentralized Distribution

• Centralized Distribution: A single main distribution board on the lowest floor supplies all floors. Sub-circuits are routed vertically to each floor's distribution board. This method is simpler but may require multiple circuits per floor to handle the total load .
• Decentralized Distribution: Each floor has its own distribution box connected directly to the main supply or via risers. This approach allows pluggable, flexible, and modular installation, which is particularly useful in smart buildings or areas with high energy efficiency requirements ....

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