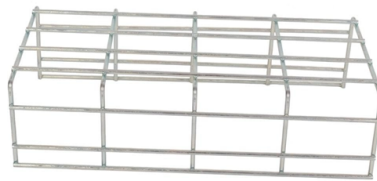


Dimensions and Specifications of Electrical Distribution Boxes for Large Flat Floors



Overview

Floor Box Design and Electrical Floor Outlet Browse specifications, literature, drawings, videos and tools that make floor box planning and installation 60.

Key Takeaways

Electrical floor boxes for large flat floors are modular, typically accommodate multiple power and data outlets, and are designed for raised or concrete floors with load ratings up to 1600 lb. Floor Box Types and Dimensions

Modular Floor Boxes:

- Available in rectangular or round designs.
- Module capacity varies: horizontal positions can have 12, 18, or 24 modules, while vertical positions can have 8, 12, or 16 modules, depending on the number of sockets and data ports required .
- Standard raised floor boxes require a minimum floor height of 5 inches and can accommodate 4 duplex receptacles in the power compartment and up to 3 data plates (12 data ports) in the telecommunications compartment .
- Round floor boxes also support 4 duplex receptacles and 1 voice/data plate .

Backbox Material and Construction:

- Typically made of pre-galvanized steel (DX51D Z140 MAC) for durability and fire resistance .
- 16-gauge galvanized steel is common for raised floor boxes, with a durable plastic lid and trim ring .
- Lids are often hinged, recessed for carpet or vinyl inserts, and may include self-closing or locking mechanisms for safety .

Load and Electrical Ratings

- Load capacity: up to 1600 lb, suitable for heavy foot traffic .
- Electrical rating: 20 Amp, 120/208V or 120/240V, 60 Hz; modular receptacles can be specified as 15A or 20A .
- Data compatibility: designed to support Cat 6 structured cabling systems .

Installation Considerations

- Compatible with raised floors or concrete screed floors with heights from 70 to 110 mm .
- Height adjustment is possible using removable high-density foam blocks or extension kits to match floor finish.
- IP20-rated enclosures ensure protection against solid objects, and chemical-resistant, non-corrosive materials are used for durability .
- Knockouts are provided for data plates, allowing flexible configuration during installation .

Summary

For large flat floors, electrical distribution boxes are modular, durable, and adaptable, supporting multiple power and data connections. They are designed for raised or concrete floors, with adjustable heights, high load capacity, and compliance with structured cabling standards. Selection depends on socket requirements, floor height, and desired layout, ensuring both functional and aesthetic integration into the floor design .

Article Content

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

