ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Standard Sizes and Specifications of Chilean Distribution Boxes



Overview

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways.

Key Takeaways

Chilean distribution boxes typically follow modular standards ranging from 1-way to 36-way enclosures, with IP-rated protection, ABS or polycarbonate construction, and standardized mounting rails.General Specifications

Module Capacity and Configuration: Distribution boxes in Chile are commonly available in capacities from 1-way up to 36-way, with some industrial models extending to 54 modules. Residential and commercial boxes often use TH35x7.5 mm DIN rails for mounting circuit breakers and protective devices, with one or multiple rows depending on the number of modules required . Dimensions: Typical dimensions vary by module count. For example, small residential boxes may measure approximately 200–400 mm in height, 150–300 mm in width, and 80–150 mm in depth, while larger commercial or industrial enclosures can exceed 600 mm in height and 400 mm in width. Exact dimensions depend on the manufacturer and the number of ways . Material and Construction:

- ABS plastic: RAL 7035 grey, halogen-free, suitable for indoor use.
- Polycarbonate (PC): UV-protected, recommended for outdoor installations.

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• Transparent windows are often included for visual inspection of breakers without opening the box . Protection Ratings:

• IP65 is common for outdoor or dust/water-resistant applications.

• Indoor boxes may have lower IP ratings (IP40–IP44) depending on exposure . Mounting and Installation:

• Boxes are typically surface-mounted or flush-mounted.

• DIN rails allow modular installation of breakers, relays, and other protective devices.

• Inlet and outlet positions are standardized to ensure proper wiring and safety . Safety and Compliance:

• Distribution boxes are designed to meet low-voltage electrical safety standards, including protection against overloads, short circuits, and earth faults.

• Chilean installations often follow IEC or international low-voltage directives, ensuring compatibility with imported equipment . Additional Features:

• Removable covers for maintenance.

• Baffles or internal separation to prevent short-circuiting.

• Modular design allows easy expansion or upgrades . In summary, Chilean distribution boxes are modular, standardized enclosures designed for safe and flexible electrical distribution. They are available in a range of sizes, materials, and protection levels suitable for residential, commercial, and industrial applications, with DIN rail compatibility and IP-rated protection for both indoor and outdoor use.

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The document provides details for designing the electrical distribution box and circuits for a residence. It includes specifications for

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The quantity, size, shape of reserved openings for incoming and outgoing wires, as well as the installation method of the boxes

Distribution Boxes

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