



Requirements for Concealed Secondary Distribution Boxes

Article Overview

Concealed secondary distribution boxes must meet accessibility, material, labeling, and installation standards to ensure safety, durability, and maintainability.

Accessibility Requirements

Secondary distribution boxes, including underground and handhole enclosures, must be installed so that wiring is accessible without removing parts of the building or excavating finished surfaces such as sidewalks or paving. Boxes cannot be concealed to the point where they are unknown or inaccessible, and access cannot rely solely on removing a luminaire unless the box is integral to the luminaire. This ensures safe troubleshooting and maintenance.

Material and Construction Standards

- o Non-concrete enclosures: Must comply with Engineering Material Specification No. 51, with polymer concrete covers that are slip-resistant (coefficient of friction ≥ 0.65) and labeled with PG&E identification, manufacturer name, weight, and code number.
- o Concrete enclosures: Required in areas subject to full vehicular traffic, meeting ASTM C-857 standards, with interchangeable joints and covers also slip-resistant and labeled.
- o Pedestals: No longer allowed for new construction; replacement codes are specified in utility documentation.

Installation and Cover Requirements

- o Cover depth: Minimum 24 inches for secondary (0-750 V) and 30 inches for primary (>750 V) underground installations, measured from the top of the final grade.
- o Enclosure size selection: Based on the maximum conductor size and number to serve the service panel, and whether the area experiences incidental or full vehicular traffic.
- o Labeling: All enclosures must display manufacturer information, weight, and utility code numbers on inside surfaces.

Modular and Concealed Systems

For raised floors or accessible ceilings, modular zone distribution systems can be used, combining pre-cut, pre-tested cables with plug-in connectors. These systems allow for easy adds, moves, and changes, improving cable management and reducing installation costs while maintaining accessibility.



Requirements for Concealed Secondary Distribution Boxes

Summary

Concealed secondary distribution boxes must be accessible, properly labeled, constructed from approved materials, and installed at appropriate depths. Compliance with utility specifications (e.g., PG&E) and electrical codes (e.g., NEC) ensures safety, maintainability, and durability, whether installed underground, under raised floors, or in accessible ceilings .

Electric and Gas Service Requirements Manual (Greenbook) Purpose and Scope This document provides specifications, ordering

5.7. All meter boxes shall be installed at a height of 200 mm from ground to the bottom of the meter box. Civil construction

Wiring requirements of distribution box Upper incoming line, lower outgoing line, main circuit on the left, control circuit on the right,

Distribution materials specification-construction standard for overhead lines Distribution materials specification-construction standard

Learn how to install a distribution box safely and correctly. Covers wiring, placement, standards, and expert tips for a

Discover the booming concealed distribution box market! This comprehensive analysis reveals key trends, growth

The following paragraphs provide important U.S. Postal Service guidelines for determining the location, type of mailbox receptacles,

The distribution box generally assembles switchgear, measuring instruments, protective electrical appliances and auxiliary

The 2020 requirements still maintain that boxes and conduit bodies must be installed so the wiring contained inside can be accessed

(1) General requirements -- (i) Electrical continuity of metal raceways and enclosures. Metal raceways, cable armor, and other metal

Specifications for Electrical Underground Distribution Systems from Pad Mounted Transformation,

Requirements for Concealed Secondary Distribution Boxes

Secondary Service Accounts

This document provides specifications, ordering information, illustrations, and application instructions for the various sizes of non

As a result of locating power transformers and their close-coupled secondary switchboards as close as possible to the

NEC Article 314 establishes requirements for the installation and use of electrical boxes, conduit bodies, fittings, and

1.1. The mailbox shall meet all new U.S. Postal Service regulations (Effective October 05, 2006), USPS approved and installed to

One Enclosure and Box of each type for each of the classification aspect mentioned above i to 1 viii) shall be tested to cover that

Web: <https://millstraining.co.za>

