

Materials for SDB Distribution Box



Summary of Content

SDB distribution boxes are primarily made from sheet steel, polycarbonate, and polystyrene, with additional options including PVC, HDPE, and thermoset plastics depending on the application.

Common Materials

Sheet Steel: Many SDBs, especially those for commercial and industrial use, are constructed from high-quality sheet steel up to 2mm thick. Steel provides excellent mechanical strength, impact resistance, and durability, making it suitable for both indoor and outdoor installations. Steel enclosures can also be epoxy-coated to enhance corrosion resistance and withstand harsh environments.

Polycarbonate: Polycarbonate is a robust thermoplastic used in SDB housings for indoor and covered outdoor environments. It is highly impact-resistant, flame-retardant, and can handle heat and electrical stress, making it ideal for modern distribution boxes requiring high safety standards.

Polystyrene: Polystyrene is another plastic option for professional-quality SDB housings, suitable mainly for indoor or sheltered outdoor locations. It is lightweight and provides adequate insulation for electrical components.

Other Plastics: Additional materials include PVC (polyvinyl chloride) and HDPE (high-density polyethylene), which are lightweight, corrosion-resistant, and suitable for indoor or outdoor use depending on environmental conditions. Thermoset plastics like SMC (sheet molding compound) are used for high-voltage or outdoor applications due to their strong insulation and heat resistance.

Material Selection Considerations

- **Indoor vs Outdoor Use:** Metals like steel are preferred for outdoor or harsh environments, while plastics are often used indoors or in protected areas.

Article Content

ABB I Sub distribution boards

Depending on your specific application, our range of sub distribution boards includes solutions with mounting plates and DIN-rails

Distribution box, 5 division units, empty, polycarbonate | OBO

Distribution box with terminal strip for surface mounting, for the current sub-distribution in interior and exterior areas, in accordance

What is a DB Box? Types, Wiring, Selection Guide

Learn everything about DB box (distribution box): what they are, how they work, wiring diagrams, types, and how to choose the right

Electric Panel Store

What is a Sub Distribution Board (SDB)? A Sub Distribution Board (SDB) is an electrical panel that receives power from the Main

Wiring of the Distribution Board with RCD (Single Phase Home Supply)

Wiring Accessories for Single Phase Distribution Board Main Distribution Board or Fuse Boards (Consumer Unit) usually contains on

SUB Distribution Boards (SDB)

GENERAL DESCRIPTION The MDB feeds Sub Distribution Boards (SDB) which are installed midway through the power distribution

Distribution Board Design: Standards, Surge Protection & Smart

Early planning of a distribution board's layout and component selection is essential for long-term system performance.

Key Material Requirements for Distribution Box

Learn the key material requirements for distribution box, Discover how the right materials

Durable SDB Distribution Boxes Overview

The SDB distribution boxes from OBO Bettermann are robust polycarbonate and polystyrene enclosures designed to protect

SUB Distribution Boards (SDB)

SUB Distribution Boards (SDB) Overview: The MDB feeds Sub Distribution Boards (SDB) which are installed midway through the

Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

Overview of DB and SDB in Electrical Systems

DB (Distribution Board) and SDB (Sub-Distribution Board) are essential for distributing electrical power within buildings, containing

Distribution Board Types & SPD Protection: The Ultimate Guide for ...

Explore distribution board types and features. Find the right one for your needs and see how SPD devices protect

Distribution box, 12 division units, empty, polycarbonate | OBO

Small distributor for surface mounting, for the current sub-distribution in interior and exterior areas, according to IEC 439-3. With pre

What Is Distribution Board? Types, Uses and

Learn what is distribution board, its meaning, types, uses, and installation best practices for safe, efficient,

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Distribution board

A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or DB box) is a component of

SDB small distributor series

Thanks to the use of high-quality special plastics, new OBO SDB series can satisfy all the requirements modern distribution boxes. In

The installation requirements for the distribution box

A distribution box is the heart of any electrical system. It takes the incoming power and safely distributes it to different

SDB distribution box

The distribution boxes are available in two different materials to suit different installation locations. The professional quality housing is

The Ultimate Guide to SDB Box for Modern Electrical Installations

This blog explains technical features, real-life application benefits, sizing considerations, brand compatibility guidelines, and critical

Distribution Board Types

An SDB's constituent parts consist of: The main switch – Utilized for overall distribution board control.

SDB-Sub Distribution Board

-SDB series of enclosure are designed to adapt to all kinds of electrical switch gears & control gear assemblies. -Suitable for variety

What is the Internal Structure of The Distribution Box

Learn about the internal structure of a distribution box, its components, functions, and key

Power DB Box Explanation

Learn about power distribution boxes (Power DB box), their essential components, functions, varieties, benefits,

SDB distribution box

Thanks to the use of high-quality special plastics, the new OBO SDB series can satisfy all the requirements for modern distribution

Distribution Boards & Consumer Units

Mini Center Compact is a reliable range of distribution boards allowing maximum flexibility, offering wide choice of incomers: Switch

Sub-distribution Board (SDB) Safety Tips and Tricks

Understand the importance of a sub-distribution board (SDB) in your electrical system for better management and safety.

Contact Us

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