

How to drill holes in cable tray supports and brackets

Article Overview

Drill holes at marked support points using appropriate anchors and tools, ensuring proper spacing and alignment for secure cable tray installation.

Step-by-Step Guide

1. Plan and Mark Support Points Determine the cable tray route and mark the locations for supports. Standard intervals are typically 1.5 to 2 meters (5-6.5 feet), but always check the manufacturer's specifications for your tray type and load . Use a chalk line or laser level to ensure the marks are straight and level. 2. Select the Mounting Method

- o Wall Mounting (Cantilever Brackets): Drill into walls using expansion bolts or wall anchors suitable for the material (concrete, brick, or block).

- o Ceiling Suspension (Trapeze or C-Hanger): Drill into the structural ceiling slab and install drop-in anchors for threaded rods that will support a Unistrut channel or trapeze hanger . 3. Choose the Right Drill and Bit

- o For concrete or masonry, use a hammer drill with masonry bits.

- o For steel or metal supports, use a power drill with high-speed steel (HSS) bits.

- o Ensure the drill bit diameter matches the anchor or bolt size specified by the manufacturer . 4. Drill the Holes

- o Drill perpendicular to the surface at the marked points.

- o Maintain consistent depth according to the anchor requirements.

- o For solid-bottom trays, field-drill holes 1 inch from the inside edge for bolts, as recommended in installation guides . 5. Install Anchors and Supports

- o Insert wall or ceiling anchors into the drilled holes.

- o Attach brackets or threaded rods, using washers and nuts to secure them.

- o Ensure all supports are level and aligned before placing the tray . 6. Safety and Finishing

- o Wear PPE: gloves, safety glasses, and a hard hat.

- o Deburr any sharp edges after drilling to prevent cable damage.

- o Avoid cutting structural members and ensure the tray remains accessible for maintenance . By following these steps, you ensure that cable trays are securely supported, properly aligned, and compliant with electrical installation standards, minimizing the risk of damage to cables or structural elements.

TRAY TO STRUT MOUNTING FIELD DRILL HARDWARE CLEARANCE HOLES FOR EACH
SB-MHW INCLUDES: DESCRIPTION

How to drill holes in cable tray supports and brackets

Using a power drill, carefully drill holes at the marked points. Be sure to choose the appropriate drill bit size for the

This document provides standard operating procedures for installing cable tray systems. It discusses receiving and unloading

Get the best cable tray installation tools for efficiency and safety. A complete guide covering

Drilling Holes for splice plates must be drilled in field-cut cable trays. The most common method of locating the hole positions is to

In this video, watch a professional fabricator fitting the base for a cable tray channel step by step -- using essential

This method statement outlines the procedures for installing cable trays and conduits, including: 1) preparing materials and tools, 2)

The document provides information about cable tray systems, including: - The six main types of cable trays: ladder, solid bottom,

Step-by-step on-site guide: learn how to plan, mark, support, and install cable trays correctly, from shop

- The steps for installing cable trays, which include marking, cutting, drilling holes, installing supports, and fixing fittings and

This document provides details on installing cable trays and their support systems. It includes diagrams showing how to mount cable

This document provides a method statement for installing cable tray or trunking systems. It outlines the key

It outlines several key steps: 1) Preparing by checking shop drawings and material levels; 2) Inspecting materials and storing

When considering the installation of the cable supports system it is imperative to avoid the cutting or drilling of structural building

Introduction This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray

Do not use a cable tray as a walkway, ladder, or support for people; a cable tray is a mechanical support

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system for cables and

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

