

Drilling holes in ordinary cable trays

Article Overview

Drilling holes on cable trays should be done carefully using templates or jigs to ensure proper alignment, correct drill size, and structural integrity.

Planning and Preparation

Before drilling, mark the tray route and support points according to your installation drawings and site layout. Ensure the tray is properly sized for the cable load and that supports are positioned to prevent sagging or stress on the tray .

Using Templates and Drill Jigs

For field-cut cable trays, splice plates are commonly used as templates to locate hole positions accurately. Drill jigs or short side rails with factory-punched holes can also serve as stops to align the drill correctly . Clamp the splice plate to the tray and drill through the plate and tray simultaneously to maintain precision.

Drill Size and Hardware Compatibility

Select a drill bit size that matches the hardware (bolts, screws, or anchors) supplied with the tray system. After drilling, remove burrs to prevent cable damage and ensure a smooth fit for connectors and fittings .

Safety and Surface Protection

- o Wear appropriate personal protective equipment (PPE) such as gloves and safety glasses.
- o Protect cut or drilled surfaces with zinc-enriched paint or other corrosion-resistant coatings to maintain tray durability .
- o Avoid cutting structural building members or installing trays in areas prone to physical damage .

Assembly and Support

Once holes are drilled, install anchors and support systems according to the design, whether wall-mounted, ceiling-suspended, or floor-mounted. Ensure earth continuity links are properly fitted to maintain grounding integrity .

Additional Tips

- o Maintain the minimum bend radius for cables on tray bends to prevent stress or damage.
- o Use dropouts or pivot connectors as templates for additional holes when routing cables at tray ends or

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corners .

o Always verify alignment and level before final tightening of bolts and fittings. By following these steps, drilling holes on cable trays can be performed safely and accurately, ensuring a secure, durable, and code-compliant installation .

A channel cable tray can be added to an existing cable tray system using the method illustrated in Figure 3-89 to add approved

Cable tray installation guidelines for industrial EPC projects with support spacing, earthing, routing, safety and real site

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

Welcome to Engineerings.w!In this video, watch the complete process of installing a cable tray on site -- from climbing the ladder,

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

Learn how to drill perfect cable runs through floor joists safely and efficiently. In this

The document provides instructions for forming various bends and joints in electrical trunking and cable trays. It describes: 1) How to

The cable glands I have shortlisted use M20 threads. What tools do I use to drill clean

This study analyzes the crosstalk effects caused by the geometry of holes in a cable tray in offshore plants. Using the analysis

Learn how to drill holes in your walls for cables the safe way! Our guide covers everything from cable management

Learn how to effectively drill holes in wood to hide cables! This comprehensive guide covers everything from choosing

Installing a cable tray system requires careful planning to ensure it can support the weight of the cables and adheres to electrical

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This can be controlled by drilling 1/4 inch drain holes in the bottom of the cable tray at three foot intervals (at the middle and very

Ground clamp styles include bolted lug types that require drilling the cable tray side rail and clamp-on styles that work like a beam

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

To install the cable tray supports, first find the required elevation from the floor to the bottom of the cable tray and establish a level

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