Methods for drilling holes for splicing cable trays



Overview

Cable tray fabrication Drilling holes before splicing cable traysDrilling Holes for splice plates must be drilled in field-cut cable trays. The most common.

Key Takeaways

Drilling holes for splicing cable trays is typically done using templates or drill jigs to ensure accurate alignment and proper fit for splice plates.

Step-by-

Step Method1.

Marking and Preparation

Begin by marking the route of the cable tray and the position of the splice points. Identify the locations for support system fixing points and anchor holes. Ensure the tray is properly supported and accessible for drilling.

2.

Using Templates or Drill Jigs

The most common method is to use the splice plate as a template. Place the splice plate against the end of the field-cut tray section. Drill jigs or short side rail pieces with factory-punched holes can also be used to align the drill and act as a stop against the tray edge.

3.

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Drilling the Holes

Clamp the splice plate securely to the tray side rail. Drill through the splice plate holes and into the tray using the correct drill size, which should match the hardware supplied with the tray system. After drilling, remove any burrs to prevent damage to cables and ensure a smooth fit.

4.

Surface Protection

If the tray or support channels are cut or drilled, protect exposed surfaces with zinc-enriched paint or other corrosion-resistant coatings to maintain durability. 5.

Assembly and Splicing

Align the drilled holes with the splice plate and adjoining tray section. Secure the splice plate using bolts, washers, and nuts as specified in the project drawings. Ensure the tray sections are level and properly supported according to wall, floor, or ceiling mounting requirements.

Tools and Safety Considerations

Tools: Electric drill, drill bits matching hardware size, clamps, deburring tools, and protective coatings. Safety: Wear gloves, eye protection, and ensure the tray is stable to prevent movement during drilling. Avoid cutting structural building members or installing trays in hoist ways or areas prone to physical damage.

By following these methods, drilled holes will align accurately with splice plates, ensuring a secure and structurally sound cable tray installation.

Article Content

Cable tray fabrication Drilling holes before splicing cable trays

Overview Drilling Holes for splice plates must be drilled in field-cut cable trays. The most common method of locating the hole positions is to use a splice plate as a template. Cable tray (or cable

Cable Tray Installation Procedure Guide

It emphasizes the importance of thorough material inspection and proper installation techniques to ensure the reliability and longevity of the cable tray system. Key components discussed include

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Attaching a channel cable tray by using the method illustrated in Figure 3-88 maintains the electrical requirements, and the bolted mechanical connection while providing a practical method for dropping

Cable Tray Ladder Trunking Wire Basket Installation Guidelines

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

METHOD STATEMENT FOR CABLE TRAY INSTALLATION

2.0 This method statement will cover the minimum requirements for installation of cable trays and other related electrical works to be applied at the site for commercial buildings, plants and refineries.

5 Steps to Learn How to Install Cable Trays

Installing a cable tray system requires careful planning to ensure it can support the weight of the cables and adheres to electrical safety codes. Here is a step-by-step guide on how to install a

Cable Tray Installation Guide | NEMA VE 2-2018

NEMA VE 2-2018 Cable Tray Installation Guidelines. Learn best practices for cable tray installation, support, and accessories.

Cable Tray Technical Guide A practical guide to product selection and ...

The choice of method should be discussed with a local inspector. The best decision may be to extend only the cables, creating a discontinuity in the cable tray.

Cable Tray / Trough Tray INSTALLATION

) To install: place 1 part of cover clamp around trough tray cover and tray assembly. Place 2nd part around opposite end of Trough Tray, align clamp holes and install hardware.

How to Install a Fiber Optic Termination Box (FTTH Steps)

Learn how to install a fiber optic termination box step-by-step for FTTH projects. Covers mounting, splicing, routing, labeling, and testing for indoor/outdoor use.

Ecuadorian Standard for Cable Trays

Different cable tray designs are distinguished by factors such as differences in width, height of the side, stair design, maximum space between steps, and connection of the side to the base . These factors

Cable Tray Installation Tools: Essential Equipment for a

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Get the best cable tray installation tools for efficiency and safety. A complete guide covering cutting, drilling, measuring, and safety gear.

Fiberglass Cable Tray

Looking for durable and corrosion-resistant Fiberglass Cable Tray? Our lightweight, high-strength trays offer long-lasting performance. Order now!

AEONS Premium Monitor Laptop Mount & Under Desk Cable Management Tray ...

EASY NO DRILL INSTALLATION: use the mounting clamp to secure all three items to your desk. No drilling, No tools for installation and take off, clamp to tabletop of wood, glass, metal, marble tables,

METHOD STATEMENT FOR CABLE TRAY INSTALLATION

1.0 This method statement will serve as a minimum guideline to carry out the Cable Tray Installation activities for commercial buildings, plants and refineries in accordance with Project Drawings and

Cable Tray / Trough Tray INSTALLATION

) Feed provided 3/8”x3/4” hex head bolt thru tray and u-splice and attach 3/8” serrated nuts on outside of u-splice.) Recommended torque: For 3/8” fasteners: 25-35 ft-lbs [33.9-47.5 N-m].) If desired,

Method Statement For Cable Pulling and Final Electrical Connections

This procedure covers the method for all the cable pulling, electrical connections and terminations for cables running on cable ladders and cable trays. Electrical method also covers all associated cables

Method Statement For Drilling Holes in Existing Steel ...

This document outlines the method statement for drilling holes in existing steel structures for cable tray supports at BGCS-3, ensuring compliance with Saudi Aramco Engineering Standards. It details the

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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