How to fix cable tray supports by drilling holes



Overview

Best Fixing and Mounting Options for Cable Trays | CMWDiscover the best fixing and mounting options for cable trays and wire mesh basket trays. CMW shares.

Key Takeaways

Drilling holes for cable tray fixing requires precise marking, correct drill sizes, and proper support installation to ensure secure and compliant cable tray systems.

Marking and Planning

Before drilling, mark the route of the cable tray according to approved shop drawings or layout plans. Identify the positions for support system fixing points, including wall, ceiling, or floor mounts, and ensure adequate spacing to prevent stress on cables where they enter or leave the tray. Use templates or splice plates to locate hole positions accurately, especially for field-cut trays.

Drilling Procedure

Select the correct drill size based on the hardware supplied with the cable tray, such as bolts, anchors, or self-tapping screws. Clamp the splice plate or template to the tray or support channel to guide the drill. Drill through the marked points, ensuring holes are clean and free of burrs.

Remove any sharp edges to prevent cable damage. For wall or ceiling installations, drill anchor fixing holes and insert appropriate anchors or fisher plugs before fixing the tray or trunking.

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Support Installation

Use threaded rods (e.g., 10mm for trays below 300mm, 12mm for above 300mm) to suspend trays from ceilings. Install slotted GI channels or brackets using nuts and washers, then mount the cable tray sections onto these supports. Ensure adequate spacing around trays for cable installation and maintenance.

Protect cut or drilled surfaces with zinc-enriched paint to prevent corrosion.

Fire Safety and Compliance

When drilling through fire-rated walls or floors, ensure that fire separation is reinstated after penetration. Follow relevant electrical codes and containment standards to maintain safety and compliance.

Final Steps

Join adjoining tray sections using splice plates or joiners. Secure cables with ties at intervals, marking circuit references where required. Verify alignment, leveling, and stability of the entire tray system before installing cables.

By following these steps, you can ensure that cable trays are securely fixed, compliant with standards, and safe for long-term cable management.

Article Content

Best Fixing and Mounting Options for Cable Trays | CMW

Discover the best fixing and mounting options for cable trays and wire mesh basket trays. CMW shares tips for efficient cable management.

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INSTALLATION GUIDE

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We''re on a journey to advance and democratize artificial intelligence through open source and open science.

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

8 Best Under Desk Cable Management Solutions

Are tangled cables and wires beneath your desk giving you headaches? Solve your cable woes with these nifty under-desk cable organizer

Mounting instructions

The cable trays are screwed together using con- nector holes with the appropriate fastening material. The selection of the matching cable tray system is dependent on the area of use and the cable load

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The document provides a method statement for installing cable trays, trunking, and supports in concrete slabs and walls. It outlines several key steps: 1) Preparing by checking shop drawings and material

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