Fixing on the top plate of the cable tray



Overview

Learn common methods for connecting cable trays safely and efficiently. Our guide covers splice plates, quick-connects, and key tips for secure electrical cable management.

Key Takeaways

Cable tray covers are secured using clamps and bolts, with proper torque and positioning to ensure stability and prevent sagging.

General Procedure

Position the Cover: Place the cover on top of the cable tray or ladder, ensuring it aligns with the tray edges and any pre-drilled holes for clamps. Install Clamps: Use HD cover clamps or standard cover clamps depending on tray size. For a typical 3-meter cover, three clamps are recommended, with additional clamps for trays 600 mm wide or larger.

Position clamps evenly along the cover. Bolt and Nut Assembly: Insert the bolt through the clamp and tray, then loosely attach the nut. Ensure the bolt passes through the pre-drilled holes in both the cover and clamp.

For larger trays, a central bolt may be added to prevent sagging. Tightening: Once all clamps and bolts are in place, tighten the nuts and bolts to the recommended torque, typically 6 Nm for standard HD cover clamps. Use a torque wrench to ensure consistent and secure fastening.

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Anti-

Sag Measures: For wide trays, use anti-sag clamps in conjunction with HD cover clamps. Drill holes as required and secure with pop rivets or additional bolts to maintain structural integrity. Final Check: Verify that all clamps are properly seated, bolts are tightened to specification, and the cover is flush with the tray.

This ensures long-term stability, safety, and ease of maintenance.

Best Practices

Always use manufacturer-recommended clamps and bolts to match tray type and material. Ensure even spacing of clamps to prevent cover deformation or sagging. For heavy-duty or industrial installations, consider full-height splice plates or bolted couplers for added strength.

Maintain proper torque control to prevent loosening due to vibration or thermal expansion. Follow installation standards such as BS EN 61537 for cable trays and BS 6946 for channel support systems. By following these steps, the top plate or cover of a cable tray will be securely fixed, protecting cables and maintaining the structural integrity of the tray system.

Article Content

Connecting Cable Trays: Your Guide to Secure and Easy Joins

Learn common methods for connecting cable trays safely and efficiently. Our guide covers splice plates, quick-connects, and key tips for secure electrical cable management.

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These fittings are used in conjunction with cable trays to support cables in ventilation holes, assist with directional change of piping systems, and aid cable channelling around obstacles.

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Mounting instructions

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Electrically trained specialists charged with installing cable support systems and cable trays. These instructions are based on the standards valid at the time of compilation (12/2023). Please read the

INSTALLATION GUIDE

Where metal supports for metal cable trays are bolted to the tray and are in good electrical contact with the grounded structural metal frame of a building, the tray shall be deemed to be bonded to ground.

Cable Tray Fitting Accessories

As the leading cable tray manufacturer and supplier, JLH Electric offer a collection of cable tray fitting accessories and spare items like tray supports, tray connection,

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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 Installation Details

The document outlines specifications for various joint plates and connectors used in cable tray installations, including dimensions and quantities for each component.

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The document outlines the procedure for installing cable trays, including essential tools, equipment, and safety measures. It emphasizes the importance of thorough material inspection and proper

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Cable Tray Installation Procedure Guide

This document provides procedures for installing cable trays according to international standards. It describes inspecting and storing cable trays upon

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Learn how to install cable trays correctly. Get the ultimate step-by-step guide on setting up a seamless and reliable cable management system.

Mounting instructions

For unperforated cable trays, pre-drill the connector perforation for the add-on tee and joint plate. Fig. 50: Screwing the add-on tee on a continuous cable tray

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