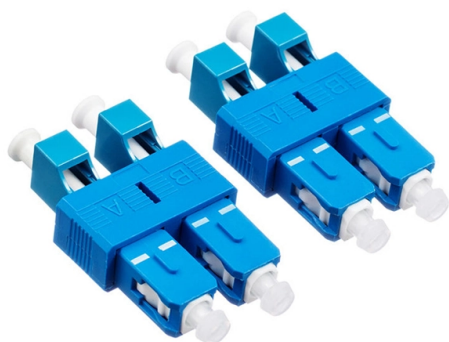


RIVO MULTITRADE OPTICAL SYSTEMS

How to make a support for a trapezoidal cable tray



Overview

A Guide to Installing and Supporting Electrical Cable Trays This guide covers the critical steps, from selecting the right electrical cable tray and perform.

Key Takeaways

A trapeze support for a cable tray can be constructed using slotted strut channels suspended from threaded rods, providing a secure and adjustable framework for the tray. Materials Needed

- Slotted strut channels (deep channel or standard strut type) sized to match the width of the cable tray
- Threaded rods (M10 or M12 recommended) for suspension from ceilings or beams
- Nuts, washers, and brackets for securing the strut to the rods
- Optional: lightweight tubular rails for easier handling in overhead installations

Step-by-Step Construction

- Measure and Plan Determine the length of the cable tray run and the spacing of supports. Typical spans depend on tray type and load but generally range from 1.5 to 3 meters. Ensure the support spacing complies with NEC Article 392 or local codes .



- **Cut and Prepare Strut Channels** Cut the strut channels to the required length. If using slotted channels, ensure slots are centered to allow flexible attachment of the tray . For prefabrication, consider cutting multiple pieces in a shop environment to save time .
 - **Install Threaded Rods** Secure threaded rods to the ceiling or structural beams. Use appropriate anchors or fasteners for the building material. Ensure rods are vertical and aligned with the planned support points .
 - **Assemble the Trapeze Frame** Attach the strut channels horizontally to the threaded rods using nuts and washers. The trapeze frame should form a stable “H” or “U” shape, with the cable tray resting on the horizontal strut .
 - **Mount the Cable Tray** Place the trapezoidal cable tray onto the strut channels. Use clamps or brackets to secure the tray to the strut, ensuring it is level and properly supported along its length .
 - **Check Alignment and Load** Verify that the tray is level and that the trapeze supports can handle the expected cable load. Adjust nuts and brackets as needed. For heavy or long runs, consider additional supports or a stronger strut system .
- Tips for Efficiency and Safety**
- Prefabricate supports in a shop to reduce installation time on-site .
 - Use lighter rails where possible to ease handling and reduce risk of injury .
 - Ensure compliance with local electrical and structural codes, especially in seismic areas .
 - Consider environmental factors such as corrosion; powder-coated or FRP materials may be used in harsh conditions . By following these steps, you can create a secure, adjustable, and code-compliant trapeze support system for trapezoidal cable trays, ensuring safe and efficient cable management.

Article Content

[Cable Tray Sleeper Design Details | PDF | Length](#)

The document provides details on the design of a cable tray mechanical support system, including specifications for cable tray

[Master Cable Tray Installation: A Professional Step-by-Step Guide for ...](#)

Learn how to install cable trays for large-scale projects with our professional, step-by-step guide covering industry

[Trapeze Support Kit | Cable Runways | Cable Tray and Reels | Wire](#)

Cable Runway is available with tubular side rails that are lightweight yet strong and utilize rungs are made of tubular

Cable Tray Installation Guide: Supports, Spacing, Bonding

Cable tray installation guide: support spacing, deflection, joints, expansion and bonding checks. What contractors and

Cable Tray Supports & Clamps

These heavy duty hold down cable tray clamps can be used to attach the cable tray to most surfaces by field drilling holes into the

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Choose from our selection of cable tray supports in a wide range of styles and sizes. Same and Next Day Delivery.

Cable Tray Trunking & Ladder Installation Method for Projects

Make cable tray, trunking and ladder connections using standard fittings. Cable tray and trunking will be installed with

Cable Tray Installation and Cable Handling Method Statement

Cable Tray Installation Method Statement 1. Cable Tray Installation Cable trays should be installed in accordance with the latest

Cable Tray Technical Guide A practical guide to product selection

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Cable Tray Hanger Support In Revit Family: How To Hang Trays From ...

Description: Welcome to our latest video tutorial on mastering cable tray hanger support in Revit! If you're an

Full guide of cable tray installation and sizing

The Engineering Galaxy - Engalaxy Full guide of cable tray installation and sizing - Part 1 These chapters are auto

Best Practice Guide to Cable Ladder and Cable Tray Systems

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure the

Trapeze Cable Tray Set

Features Features Use Tool-free connection to fiber tray Install at any location along a straight channel or transitional fitting Drilling

Cable Tray Structural Design Guide

The document then covers structural design stresses and factors of safety used in determining allowable stresses for aluminum

CABLE TRAY AND ELECTRICAL EQUIPMENT SUPPORT

Support cable tray for vertical tray should provide secure means, other than friction, for fastening the tray to the

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Types of Cable Trays – Purpose, Advantages, Disadvantages

Cable trays are capable of supporting all types of wiring: such as High Voltage Power Lines. Power Distribution

Fiberglass Cable Tray Structural Characteristics & Loads

Fiberglass - Technical Data Structural Characteristics of Cable Tray and Supports When viewed in its installed condition, any cable

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