

Article Overview

Cable tray shaft supports are typically installed using trapeze, cantilever, or center-hung systems, ensuring proper load distribution, secure attachment, and compliance with standards.

Types of Cable Tray Supports

- o Trapeze or Swing Support: The most common method for vertical shafts, where two vertical hangers support a horizontal cross member that holds the tray. This allows for easy adjustment and cable installation from both sides .
- o Cantilever Wall Brackets: Mounted directly to walls for vertical or horizontal runs along shaft walls, suitable for shorter spans or lighter loads .
- o Center-Hung Supports: Ideal for large trays or heavy cable loads, allowing cables to be deposited from both sides and providing balanced support .

Installation Steps

- o Preparation:
 - o Determine the tray type (ladder, ventilated trough, or solid-bottom) and calculate cable fill according to NEC 392.22 .
 - o Identify support spacing based on manufacturer load charts and anticipated cable weight. Maximum support spacing is typically 3.6 m for center-hung supports .
- o Mounting Vertical Hangers:
 - o Drill or punch holes in the cross member slightly larger than the all-thread diameter (1/16" to 1/8") to allow adjustment .
 - o Thread hex nuts 25-50 mm above the tray bottom, slide on square washers, and insert the cross member.
- o Attaching the Tray:
 - o Thread a second set of hex nuts to secure the cross member to the tray underside.
 - o Ensure the cross member is level and allows horizontal adjustment for tray clips.
 - o Install tray clips either inside or outside the tray rungs, depending on interference with connectors .
- o Load and Safety Considerations:
 - o Maximum load per hanger ranges from 318 kg to 340 kg (700-750 lbs), .
 - o Avoid overfilling trays to prevent overheating and mechanical stress .
 - o Use compatible system components to ensure safety and compliance with BS EN 61537 or equivalent standards .

Additional Tips

Cable tray shaft support installation method

- o Use trapeze supports for long vertical runs to maintain stability and allow easy cable installation.
- o For corrosive or high-moisture environments, consider stainless steel or FRP trays .
- o Always verify alignment and level of supports before final tightening to prevent sagging or uneven load distribution. By following these methods, cable tray shaft supports can be installed safely, efficiently, and in compliance with industry standards, ensuring long-term reliability and ease of maintenance.

The following recommendations are intended to be a practical guide to ensure the safe and proper installation of

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems,

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

Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span),

Overloading cable trays can lead to a breakdown of the tray, its connecting points and/or supports, causing hazards to persons

Cable trays are easy to install, and since they come in different sizes, you can choose the right tray for

This document provides the method statement for installing cable trays and ladders at a data center project site. It outlines the scope,

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

This document provides a method statement for installing cable trays, trunking, and ladders. It outlines responsibilities, storage, pre

Center hung tray supports allow for quicker and easier cable installation by allowing cables to be deposited into tray systems from

d) Cable tray supports are to be spaced to ensure that the deflection of the fully loaded trays or do not exceed the

Cable tray shaft support installation method

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

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

Step-by-step cable tray and conduit installation method with safety, quality and inspection

Learn everything about cable tray installation with our complete guide. Discover types, steps, and safety tips for

Please contact us for more detailed information about installation. #cabletray #installation

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