

Article Overview

Cable tray side column supports are vertical or side-mounted structural elements designed to securely hold cable trays, ensuring proper load distribution, alignment, and accessibility.

Overview

Cable tray side column supports are used to mechanically support cable trays along walls, columns, or other vertical structures. They are essential for maintaining tray alignment, preventing sagging, and ensuring safe routing of electrical and communication cables. These supports are compatible with various tray types, including ladder trays, wire mesh trays, and solid-bottom trays .

Types of Side Column Supports

- o Wall-Mounted Brackets: Fixed to walls or vertical surfaces, these brackets hold the tray at a specified height and can support horizontal runs or bends .
- o Vertical Columns or Posts: Freestanding vertical supports that carry the weight of multiple tray levels, often used in industrial or high-load applications .
- o Hanging Clamps and Bars: Suspended from threaded rods or strut channels, these can attach to the sides of trays to provide vertical support while allowing some flexibility in height adjustment .
- o Custom Fabricated Supports: For complex layouts, supports can be designed to accommodate large radii bends, tees, or multi-tiered tray systems .

Installation Guidelines

- o Support Spacing: Horizontal tray sections should be supported at intervals recommended by the tray manufacturer, typically every 8-10 feet for heavy-duty trays, with additional support near bends, tees, or expansion joints .
- o Side Support Placement: Supports should be positioned so that splice joints or fittings fall between support points, and vertical supports should align with structural elements for stability .
- o Load Considerations: Ensure that the support can handle the tray weight plus the maximum cable load, which can reach up to 280 lbs per foot for heavy-duty systems .
- o Corrosion Protection: Supports are typically made of steel, stainless steel, or aluminum, with galvanization or zinc plating to resist corrosion in industrial or outdoor environments .

Best Practices

- o Install center supports for long spans or large-radius bends to prevent sagging.
- o Use threaded rods, nuts, and washers as required for hanging supports, ensuring secure attachment.
- o Verify that supports do not interfere with cable bend radius or accessibility for maintenance.



Column-side cable tray support

o Consider environmental factors such as moisture, chemicals, or temperature when selecting materials . Cable tray side column supports are critical for safe, efficient, and durable cable management, providing structural integrity while allowing easy access for installation and maintenance. Proper selection, spacing, and material choice ensure compliance with standards and long-term reliability .

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A professional guide to installing electrical cable tray systems per NEC Article 392. Covers support,

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

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

Our mission is to provide cost-effective, safe, and efficient cable tray support systems while

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Key Factors Impacting Cable Tray Spacing Understanding cable tray spacing is key to

Installing Cable Trays (in Scenarios with a Column) Prerequisites Determine the position and mode (combined or layered) for

ICS Industries provides reliable cable tray supports, designed for secure mounting of cable trays in

Eaton

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

This guide covers the critical steps, from selecting the right electrical cable tray and performing accurate

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