

Auxiliary beam for cable tray



Article Overview

Auxiliary beams are structural supports used to suspend, stabilize, and distribute the load of cable trays in electrical installations.

Purpose of Auxiliary Beams

Auxiliary beams serve as horizontal support structures for cable trays, ensuring that the weight of cables is evenly distributed and that the trays remain stable under load. They are particularly important for large or heavy cable trays, long spans, or installations where ceiling or wall mounting alone cannot provide sufficient support. These beams help prevent sagging, maintain alignment, and allow safe routing of electrical and communication cables.

Types of Auxiliary Beams

- **Hoisting Frames:** Designed for small-sized cable trays, hoisting frames are cost-effective and easy to install. They typically use a suspension rod and a five-piece fastening kit, with a recommended spacing of 1.5 to 2 meters between frames.
- **Cross Arms:** Used for large or heavy cable trays, cross arms provide enhanced stability and facilitate maintenance. Each cross arm usually requires two suspension rods and two sets of fastening kits, spaced every 1.5 to 2 meters.
- **L-Shaped or Angle Iron Brackets:** These are customizable supports for specific site conditions, including vertical, gantry, or wall-mounted configurations. They can be adapted to support unusual spans or complex routing.
- **Suspension Rods (Threaded Rods):** Vertical connectors that link the ceiling or overhead structure to the auxiliary beam or cross arm, ensuring secure load transfer

Article Content

BEAMA Best Practice Guide to Cable Ladder & Cable Tray Systems

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support

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Cable tray

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Cable Tray Structural Design Guide

The document discusses different beam configurations that can be found in cable tray installations, including simple beams,

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Material: Side Rails: Fitting side rails are I-beams with overall dimensions similar to straight tray sections. Rungs and Bottoms: Rung

CableTray Book English

Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations.

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Explore essential cable tray installation accessories for secure, stable, and safe cable management systems: hoisting

Cable Trays Selection Guide: Types, Features, Applications

Cable trays are components of support systems for power and communications cables and wires. A cable tray system supports and

Tray and Ladder Practice Guide | PDF | Beam (Structure) | Cable

Cable Ladder and Cable Tray Systems Including Channel Support Systems and other Associated Supports 69 fThe aims are to

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