

Article Overview

The support for a vertical shaft cable tray is typically called a vertical support or hanger, which can include wall brackets, suspended supports, or specialized vertical shaft support systems.

Overview

A vertical shaft cable tray is designed to carry electrical and data cables in a vertical direction, such as between floors or along walls, and requires robust support to handle the weight and stress of the cables . The support system ensures safety, prevents cable damage, and maintains organization.

Types of Vertical Supports

- o Wall and Support Brackets These are mounted directly to walls or structural elements to hold the cable tray in place. They provide mechanical stability and are commonly used in riser shafts .
- o Suspended Supports These hang from ceilings or overhead structures using rods or hangers. They are suitable for vertical runs where wall mounting is not feasible .
- o Vertical Shaft Support Systems Specialized systems are designed for vertical applications, often using G, U, C, or L profile brackets. These supports are engineered to handle heavy loads and can be pre-galvanized, hot-dip galvanized, or stainless steel for corrosion resistance .
- o Hanger Rods and Connectors Ladder-type cable trays in vertical orientation often use hanger rods (3/8" or 1/2") and connectors such as I-beam ladder vertical support hanger connectors to secure the tray to the structural framework .

Installation Considerations

- o Supports should be spaced according to the cable tray manufacturer's recommendations to prevent sagging.
- o Material selection (galvanized steel, aluminum, or stainless steel) depends on environmental conditions and load requirements.
- o Accessories like mounting plates or coupler plates may be used to attach the tray to the support system securely . In summary, vertical shaft cable trays rely on a combination of wall brackets, suspended supports, hanger rods, and specialized vertical support systems to maintain structural integrity and ensure safe cable management in vertical installations .

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

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



Cable tray supports in the vertical shaft

of cable ladder and

Innovative vertical cable support that aides cable pulling with its unique locking mechanism. Combined

Any vertically orientated component, whether cable ladder, cable tray or support, acts structurally as a column; it is not usual to

A common type of support is the cable tray. Cable tray is usually U-shaped or trough-shaped. The bottom may be solid or punctuated

Complete vertical cable tray installation guide: materials, grounding, firestop, and GB standards compliance for

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I-BEAM Ladder - Vertical Support Hanger Connector Welded aluminum I-beam ladder cable trays are a core solution and an

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Cable tray is alternatives to wire ways and electrical conduits, which completely enclose

Vertical cable tray elbows at the top of runs should be supported at each end. At the bottom of runs, they should be supported at the

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

NEMA Standards Publication VE 2-2006 Cable Tray Installation Guidelines Published by: National Electrical Manufacturers

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