ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Vertical Shaft Cable Tray Branch



Overview

Vertical branch Characteristic of this steel type is that – prior to mechanical deformation – it is given a zinc coating by Vertical Shaft Cable TrayVertic.

Key Takeaways

A vertical shaft cable tray branch joint connects a vertical riser to horizontal floor trays, requiring proper support, grounding, and alignment to ensure safe and efficient cable routing.Overview

A vertical shaft cable tray branch joint is used in multi-story buildings to distribute cables from a main vertical riser to horizontal trays on each floor. These joints are typically formed using vertical tees or elbows, allowing cables to sweep smoothly from the vertical tray into horizontal runs . Proper design ensures minimal stress on cables and maintains electrical continuity.

Material and Coating

Vertical branch trays are often made from Sendzimir galvanized steel, which provides corrosion resistance through a zinc coating. Cut edges should be treated with galvanized paint to prevent rusting . Coating thickness is usually around 18–20 µm (Z 275), providing long-term protection against oxidation .

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Installation Guidelines
• Support Structure: Vertical trays must be supported using trapeze or swing hangers, threaded rods, and cross members. The cross members should allow horizontal adjustment and be level with the tray bottom . Supports should be installed close to the joint, typically within 300 mm, to maintain stability .

• Alignment and Clearance: Ensure the vertical tray is truly vertical and horizontal trays are parallel to the building features. Maintain a minimum clearance of 75 mm from walls or other structures for cable installation and maintenance .

• Joint Assembly: Use elbows or tees to create the branch. Horizontal runs can start with a downward bend to allow cables to sweep from the vertical riser. Earth continuity strips should be installed at all joints to maintain grounding .

• Cable Protection: Remove sharp edges and burs before installation to prevent cable damage. Ensure load-bearing cleats are provided in vertical trays to support cable weight .

• Software Modeling: In BIM or CAD software, vertical tees may not be pre-defined. A practical approach is to create a vertical riser, then add horizontal runs with elbows, adjusting elevations to simulate the branch .
Best Practices
• Verify all materials against approved submittals and QA/QC plans before installation .

• Keep joints as close as possible to supports to reduce stress on the tray.

• Provide expansion joints where trays pass through building expansion areas.

• Ensure proper grounding and bonding for safety and code compliance. By following these guidelines, a vertical shaft cable tray branch joint can be installed safely, maintain structural integrity, and provide efficient cable routing across multiple floors.

Article Content

Vertical branch

Characteristic of this steel type is that – prior to mechanical deformation – it is given a zinc coating by

Vertical Shaft Cable Tray

Vertical shaft cable trays play an important role in electrical systems. Their lightweight design, excellent

Vertical Shaft Cable Tray And Trunking

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Our cable tray design considerations guide details key factors to consider when designing cable tray systems for industrial and

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We specialize in full-range cable trays (solid/channel, perforated/tray, ladder, fire-rated, galvanized, aluminum, stainless steel) and

What is a Vertical Cable Tray?

When planning cable pathways, the horizontal runs often get the most attention. However, the vertical cable tray is an

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Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian

Vertical Bracket-Black (2D,,8W,,2L) | Wire Mesh Trays

Features Unique support keeps tray secure vertically. Fold-over tabs secure tray: no additional hardware needed es 2 supports for

Solved: Cable Tray connections vertical

The main cable tray backbone will be installed in the building''s four-story shaft. From it, a dedicated floor cable tray will

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Cable Trays and Accesories

Cable Trays and Accessories are designed to meet most requeriments of cable and electrical wire installations and comply to local

Electrical cable Tray Installation Details with Support Systems

Comprehensive technical drawing illustrating various cable tray installation detials for electrical systems. The document includes

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Norden provides a versatile and customizable cable management solution in the form of the T-Slot Vertical Cable Tray, designed to

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

Cable tray fittings and accessories

Cable tray directional fittings Cable tray fittings are used to change direction, transition, branch, or adapt

How to carry out a Semi ¨T¨ branch in a vertical surface in Unex ...

Mounting instruction showing how to carry out a Semi ¨T¨ branch in a vertical surface. Four screws are required to fix

I-BEAM Ladder Vertical Adjustable Branch Pivot

I-BEAM Ladder - Vertical Adjustable Branch Pivot Connector Welded aluminum I-beam ladder cable

Cable Tray Installation and Cable Handling Method Statement

3. Cable Tray Support Locations Cable tray supports should be strategically positioned so that connectors between horizontal

Cable Tray Systems – Globe Electricals

''Cable Tray System'' is an assembly of formed metal sections, coupled together by splice plates to provide an economical and rigid

Cable Tray Tee Fitting Guide

What Is a Cable Tray Tee Fitting? A cable tray tee fitting is a branch fitting that connects three tray sections together, allowing cables

CableTray Book English

Aluminum Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to

NEMA Standards Publication VE 2-2006

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Imperial cable tray system | NEMA cable tray

Imperial cable tray and ladder Eaton''s B-Line series imperial cable tray system is designed to significantly

GENERAL INFORMATION

Vertical Rise All Optical Cable Corporation tight buffer cables can be installed in vertical applications. In vertical installations, the

Document DICOS

Vertical adjustable splice plates should be designed and placed to maximize the rigidity of the cable tray, unless vertical adjustable

Typical Design Philosophy of Cable Trays for Power Plant

Cable trays shall be complete with necessary hot dip galvanized sheet steel accessories such as coupler plates,

Cable Tray Supports

Discover cable tray supports at TechLine Mfg. Choose from hangers, brackets, and clamps for your needs. Contact us today for

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Vertical branch

Connect with BN06-10 Coated finishing available on demand. RAL colour code to be confirmed on your order.

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The Ladder Tray features light, rugged, tubular steel construction. It is designed for mechanical support and strain relief in long runs

Vertical Shaft Cable Tray

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I-BEAM Ladder - Vertical Adjustable Branch Pivot Connector Welded aluminum I-beam ladder cable trays are a core solution

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