

Article Overview

Cable tray bends in Ethiopia should be installed following international standards with proper support, spacing, and alignment to ensure safety, accessibility, and future expansion.

Planning and Preparation

Before installation, review the approved shop drawings to determine the layout, length, and location of cable trays and bends in the building or facility. Ensure that the site is cleared and ready for MEP installations, and coordinate with other services to avoid clashes. Maintain sufficient clearance for cable pulling and future maintenance .

Material Handling

All cable trays, bends, and accessories should be inspected upon receipt for compliance with project specifications and stored horizontally on flat surfaces with timber supports to prevent damage from moisture or sunlight . Only approved materials should be used, including ladder-type or perforated trays manufactured from hot-dip galvanized carbon steel .

Installation of Bends

- o Support Spacing: Provide adequate support for bends, branches, and offsets. Typically, a maximum distance of 1.2 meters is maintained between supports for horizontal runs to prevent sagging .
- o Fixing: Bends should be fixed onto standard steel shapes, welded steel structures, or concrete structures using self-drilling dowels. Ensure that the bend is aligned with the main tray run and securely fastened .
- o Orientation: Horizontal bends are laid flat, while vertical bends or edgewise trays require individual cable fastening using stainless steel strips or clips as recommended by the manufacturer .
- o Load Considerations: Design bends to carry the expected cable load, including a 20% allowance for future expansion. Ensure that the tray and bend can support the weight without exceeding deflection limits .

Best Practices

- o Avoid cutting or drilling structural members without approval .
- o Use splice plates and accessories to maintain rigidity and continuity of the tray system .
- o Tag and trace each cable circuit for easy identification during future modifications .
- o Ensure compliance with international standards such as NEMA VE1, VE2, or ARAMCO standards for safety and durability .

Installation of cable tray bends in Ethiopia

Local Suppliers in Ethiopia

For high-quality cable trays and bends, NAHMA Precision Metal Products in Addis Ababa provides ladder-type, perforated, and custom cable tray solutions suitable for industrial and electrical applications. By following these guidelines, cable tray bends can be installed safely, efficiently, and in compliance with both local and international standards, ensuring long-term reliability and ease of maintenance.

Unlike the CT range of tray, the ET range does not come with pre-made fittings, rather, it uses accessories that allow you to bend,

Below is the detailed cable tray installation method statement not only for cable tray but also applicable for GI ladder and trunking for

Installation of Cable in Cable Trays involves precise routing on support systems, NEC/IEC

Cable Trays and Trunking shall be fixed with metal bracket at an interval of 1200mm or less as per manufacturer recommendations

Mesh cable trays, screw connection fittings - Mesh cable tray bends.

How to Master back of bend measurements on electrical Cable Tray. Make a 90

Prepare the required tools and materials to be used for the installation of the cable tray. Inspect tools for proper

By choosing the right tools for the job, you will have the necessary equipment to effectively bend cable trays. These

This method statement covers the site installation of the cable tray & ladders and the requirements of checks to be

Below is a complete method statement for installation of cable tray, cable trunking and cable ladders in compliance with project

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

For Cable Tray Installers--This publication is intended as a practical guide for the proper installation of cable tray systems. Cable

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The document contains engineering drawings for: 1) A ladder type cable tray system with general notes specifying materials, finishes,

Step-by-step instrumentation cable tray installation guide with safety tips, standards, inspections, and downloadable

Cable trays are systems that distribute bundles of insulated electrical cables from power supplies to electrical equipment, consisting

Learn about the benefits and applications of cable trays, and the specific advantages of using Snake Tray products.

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