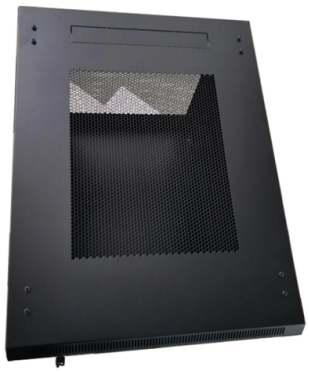
COETZER OPTICAL SYSTEMS (Pty) Ltd

Installation of ladder-type composite cable trays



Overview

This document provides a method statement for installing cable ladder, tray, and perforated tray with support.

Key Takeaways

Ladder-type composite cable trays should be installed following careful planning, proper support spacing, and adherence to safety and load standards to ensure durability and accessibility.Pre-Installation Planning

Successful installation begins with thorough planning. Review approved shop drawings to determine tray routes, lengths, and locations, ensuring horizontal and vertical runs avoid clashes with other services and allow sufficient clearance for cable pulling and future maintenance . Order 10–15% extra material to account for cuts, modifications, and unexpected changes . Inspect all materials upon delivery for damage or discrepancies and store them horizontally on flat surfaces with timber supports to prevent warping or moisture damage .

Tools and Materials

Essential materials include ladder-type composite trays, fittings, threaded rods, 'L' angles or slotted channels, nuts, and metal plugs. Tools typically include chalk lines, laser levels, drills, wrenches, and measuring devices . Ensure all tools comply with contract and safety requirements.

Support and Mounting

Mark support locations along the planned route, typically spaced 1.2–2.5 meters apart depending on tray size and load . Use threaded rods with appropriate anchors to secure supports, and attach 'L' angles or slotted channels to hold the trays. Provide additional support at bends, branches, and offsets to prevent sagging . Center-hung supports allow easier cable installation and reduce stress on the tray .

Installation Procedure

• Mark the route using a chalk line or laser level to ensure alignment .

• Install supports at marked intervals and secure them firmly.

• Place ladder trays onto supports, ensuring proper alignment and level.

• Connect tray sections using manufacturer-specified fittings and fasteners.

• Check load capacity to ensure trays can support the weight of cables and future expansion .

• Verify clearances for maintenance access and compliance with fire safety and electrical codes .

Safety and Compliance

Only qualified personnel familiar with electrical hazards and local codes should perform installation . Ladder trays are designed to support cables, not personnel, and should not be used as walkways. Follow relevant standards such as BS EN 61537 for tray systems and BS 6946 for channel supports . Ensure proper labeling and documentation for future maintenance and modifications .

Environmental Considerations

Select composite materials resistant to corrosion, UV exposure, chemicals, and temperature extremes for outdoor or industrial environments . Maintain accessibility for inspection and cable management while protecting trays from mechanical damage. By following these steps, ladder-type composite cable trays can be installed efficiently, safely, and in compliance with industry standards, ensuring long-term reliability and ease of maintenance.

Article Content

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Learn about ladder, solid bottom, ventilated trough, wire mesh, and channel trays, fill calculations, permitted cables, support

Cable Tray / Ladder Tray INSTALLATION PowerTray

General Installation Guidelines: latest NEMA standards and local building codes. Trough tray field support and frequency depends on

LADDER CABLE TRAY – Makewell Composite

The ladder type design features horizontal rails (rungs) connected by vertical posts (side rails), providing a secure and accessible

Cable Ladder and Tray Installation Guide

This document provides a method statement for installing cable ladder, tray, and perforated tray with support. It includes 8 sections

The Standard installation procedure of cable ladders & cable trays

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Cable Tray and Cable Ladder Installation Checklist

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General Installation Guidelines: For more information refer to the latest NEMA standards and local building codes. Trough tray field

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This document provides a method statement for installing cable trays, trunking, and ladders. It outlines responsibilities, storage, pre

Method Statement for Cable Tray & Ladder Installation

4.2 Installation – Mark on site the raceway location of cable trays and cable ladders as per the latest approved shop drawings. –

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The document outlines the installation method statement for cable tray ladder and trunking, detailing inspection, storage, and

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2.2 Structural characteristics When considering the installation of the cable supports system it is imperative to avoid the cutting or

Method Statement for Installation of Cable Tray or Trunking

On completion of cable tray/ ladder installation including fittings, inspect exposed finish. Remove burrs & construction

Related Video Reference

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