ZITHA TECH SPECIALTY CABLES (Pty) Ltd

How to install cable tray supports in the delivery room



Overview

A Guide to Installing and Supporting Electrical Cable TraysThis guide covers the critical steps, from selecting the right electrical cable tray and perform.

Key Takeaways

Cable trays in a delivery room should be installed following approved shop drawings, safety standards, and proper material handling to ensure reliable and safe electrical distribution.Planning and Preparation

Before installation, review the approved shop drawings to determine the layout, routing, and dimensions of the cable trays, ensuring no clashes with other services and maintaining proper clearance for maintenance and cable pulling . Inspect all materials, including trays, ladders, and accessories, for damage or discrepancies, and remove unsuitable items from the site . Ensure the delivery room is clean, accessible, and free from obstacles before starting work .

Material Handling and Storage

Cable trays should be stored horizontally on a flat surface with timber supports at regular intervals to prevent deformation and protect against moisture and sunlight . Use proper lifting techniques, such as forklifts or cranes with lifting beams, to avoid damage and ensure safety . Protective gloves and eye protection are recommended when handling steel or pre-galvanized trays due to sharp edges .

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Installation Procedure
• Marking and Layout: Mark the tray routes according to the approved drawings, ensuring horizontal and vertical runs only, and coordinate with other trades to avoid interference .

• Support and Hanging Systems: Install supports and hangers at recommended intervals to maintain tray stability and prevent sagging. Ensure the system can withstand the weight of cables and any imposed loads .

• Tray Assembly: Assemble trays and ladders using compatible fittings and accessories. Maintain minimum bend radii for cables and proper rung spacing (150–230 mm) for instrumentation and control cables .

• Safety Measures: Install safety barriers and warning signs in the work area. Ensure all personnel have completed safety induction and are competent in handling electrical installations .

• Cable Identification: Clearly label each tray and conduit with feeder names and branch numbers to facilitate future maintenance .
Inspection and Quality Assurance

After installation, perform a visual and dimensional inspection to verify alignment, support spacing, and conformance with approved designs . Document all inspections and test results, and ensure an engineer or client representative is present during critical checks . Follow QA/QC procedures to confirm compliance with standards such as BS EN 61537 for cable trays and BS 6946 for channel support systems .

Special Considerations for Delivery Rooms
• Maintain hygienic conditions and avoid contamination during installation.

• Ensure electrical reliability for critical medical equipment.

• Use non-corrosive materials like pre-galvanized or stainless steel trays in environments with high humidity or cleaning agents .

• Avoid using trays as walkways or supports for personnel to prevent injury and system damage . By following these steps, cable tray installation in a delivery room can be completed safely, efficiently, and in compliance with industry standards, ensuring reliable electrical distribution for critical medical operations.

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Article Content

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This document provides standard operating procedures for installing cable tray systems. It discusses receiving and unloading

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This section starts out covering areas where cable tray cannot be installed and then covers the basic tools required for cable tray

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Proper planning for installing cable tray includes calculations based on loading, support systems, cable/wire fill and spacing,

Cable Tray Installation Procedure Guide

It describes inspecting and storing cable trays upon receipt, installing trays flat or vertically, fixing trays to structures, designing trays

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Consideration should be given to loads associated with future cable additions or any other additional loads applied to the cable tray

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2. Purpose This method statement for the Installation of Cable Tray, Trunking, and Accessories shows and explains

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