

RIVO MULTITRADE OPTICAL SYSTEMS

How to fix cable trays to the exterior wall



Overview

Using cable trays as walkways can cause personal injury and also damage cable tray and installed cables.

Key Takeaways

Cable trays can be securely mounted to an exterior wall using wall brackets or cantilever supports, anchored with appropriate bolts and fasteners, while ensuring proper spacing and leveling. Step-by-Step Installation



1. **Plan the Route and Supports** Determine the path for the cable tray along the wall, marking locations for bends, tees, or elevation changes. Use a chalk line or laser level to ensure the tray will be straight and level. Standard support spacing is typically 1.5 to 2 meters (5–6.5 feet), but check the manufacturer's specifications for your tray type and load capacity .

2. **Select Brackets and Anchors** For exterior walls, use cantilever wall brackets or specialized wall supports like RVK or YPK types. These brackets are designed to hold ladder, perforated, or mesh cable trays securely . Choose anchors suitable for the wall material: expansion bolts for concrete, masonry anchors for brick, or heavy-duty screws for metal siding.

3. **Drill and Install Brackets** Mark the bracket positions on the wall. Drill holes at the marked points and insert the appropriate anchors. Attach the brackets to the wall using bolts or screws, ensuring each bracket is level and aligned with the others . For YPK supports, M6x30 screws and M6 nuts are commonly used .

4. **Prepare and Place the Cable Tray** Measure and cut the cable tray to fit the planned route. Deburr any sharp edges to prevent cable damage. Lift the tray onto the brackets, placing one edge on the bracket tip and pressing the other edge into place from below for a secure fit .

5. **Secure the Tray** Fasten the tray to the brackets using hold-down clips, bolts, or nuts as recommended by the manufacturer. Ensure the tray is stable and cannot slide or tilt. For wire mesh trays, use joint connectors like WMT CL to attach the tray to the wall support .

6. **Final Checks** Verify that the tray is level, properly supported, and free from obstructions. Ensure compliance with local electrical codes regarding tray fill ratios and grounding requirements .

Additional Tips

- Use PPE such as gloves, safety glasses, and a hard hat during installation .
- For bends or vertical transitions, consider pre-fabricated flanges or bendable trays like the Wall Snake to maintain proper cable bending radii .
- Ensure the installation is weather-resistant if exposed to outdoor conditions, using corrosion-resistant materials and coatings. By following these steps, cable trays can be safely and securely mounted to exterior walls, providing a durable and organized pathway for electrical cables.

Article Content

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00:00 Cable tray Wall support YPK is used to attach cable ladders to walls from above. Cable trays are attached to

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Best practice guide to cable ladder and cable tray systems

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure

Cable Tray Installation Method Statement

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

Cable Tray Installation Guidelines

This document provides details on installing cable trays and their support systems. It includes diagrams showing how to mount cable

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CABLE TRAYS GENERAL INFORMATION AND INSTALLATION

Using cable trays as walkways can cause personal injury and also damage cable tray and installed cables. Performances of cable

Method Statement for Installation of Cable Tray or Trunking

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

Cable Tray SHIB NAL

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

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