

RIVO MULTITRADE OPTICAL SYSTEMS

Small support for the side of the cable tray



Overview

It is recommended that installers add support for every five feet increments to bolster the strength of the cable baskets.

Key Takeaways

Side supports for cable trays include wall-mounted brackets, U-brackets, and H-stand supports, designed to provide secure, adjustable, and load-bearing support for small or medium-sized trays.

Types of Side Supports

Wall-Mounted Brackets: These are horizontal arms attached to walls to support cable trays along their sides. They provide good stability and are easy to maintain. Typically, one bracket is installed every 1.5 to 2 meters of tray, secured with 2-4 expansion bolts depending on tray size and load .

Riding Horse (U-Brackets): Used for vertical wall installations, these U-shaped brackets offer robust support for trays running up walls or shafts. Installation guidelines recommend one bracket per 1.5-2 meters of tray, fastened with iron expansion bolts .

H-Stand Supports: For rooftop or floor-mounted trays, H-stand supports feature a cross-brace design with non-penetrating rubber bases, allowing secure placement without drilling. They are adjustable above 12 inches and compatible with standard channel accessories, making them ideal for small to medium trays .

Clamps and Hold-Downs: Side clamps or hold-down washers can secure trays to brackets or beams, ensuring stability and preventing lateral movement. These are often used in conjunction with wall brackets or H-stands for additional support .

Materials and Finishes

Supports are commonly made from Q235 carbon steel or stainless steel (201, 304, 316) for durability. Surface treatments include hot-dip galvanizing, electrostatic powder coating, hot-dip zinc, fireproofing, and Al-Mg-Zn plating, providing corrosion resistance and long-term reliability in indoor or industrial environments .

Installation Considerations

- **Support Spacing:** For small trays, maintain 1.5–2 meters between supports. For expansion joints, place supports 2 feet on each side.
- **Load Capacity:** Ensure the support type matches the tray's weight and cable load. H-stands and wall brackets can accommodate varying loads depending on design and material.
- **Adjustability:** Many supports allow height or angle adjustments to align trays properly and accommodate site conditions.
- **Compatibility:** Check that supports fit the tray width and side height, and are compatible with clamps, rollers, or clevis assemblies if needed .

Summary

For small cable trays, wall-mounted brackets, U-brackets, and H-stand supports provide reliable side support. Proper selection depends on tray size, load, installation environment, and required adjustability. Using high-quality materials and appropriate spacing ensures long-term stability, safety, and compliance with installation standards .

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