Add anti-sway brackets to cable trays

Overview

Suspension bracket for cable tray and cable ladder | OBOCable trays or cable ladders can be mounted both in a lengthwise and a transverse direction beneath.

Key Takeaways

Anti-sway brackets stabilize cable trays, preventing lateral movement and reducing stress on supports and cables.

Purpose of Anti-

Sway BracketsAnti-sway brackets are used to prevent swaying or swinging of cable trays, which can occur due to vibrations, wind, or seismic activity. Uncontrolled movement can lead to mechanical stress, fatigue, and potential failure of the tray supports and attached cables. They are particularly important for long cable tray runs, overhead installations, or areas prone to seismic activity.

Types of Anti-

Sway SolutionsPLP Anti-Sway Brackets: These secure the bottom of cable spacers or trays at tangent poles or support points to prevent lateral movement of cable bundles.

Speed Link SL

K with Y-Hook: This system attaches to wire basket trays, cable trays, or cable ladders. Hooks can be installed at a 45-degree angle to provide sway control, effectively stabilizing the tray without overloading the support. Seismic Bracing Kits: Kits like those from Legrand include threaded rods, sway braces, and predrilled tabs for direct attachment to concrete decks.

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These are designed for long runs and trapeze installations, with recommended spacing of at least every 30 feet.

Installation Guidelines

Attachment Points: Secure the anti-sway brackets to the tray's side rails or bottom, depending on the hardware type. For trapeze or ceiling-mounted trays, connect to threaded rods or structural supports. Spacing: Typical spacing for sway control is every 30 feet, but this may vary depending on tray length, load, and environmental conditions.

Orientation: Brackets can be installed lengthwise or transverse relative to the tray to counteract movement in multiple directions. Load Considerations: Ensure that the tray supports can handle the additional load from the anti-sway brackets and any attached cables.

Best Practices

Use hardware compatible with the tray type (ladder, ventilated trough, or wire basket). For outdoor or corrosive environments, select corrosion-resistant materials. Verify compliance with NEC Article 392 and local building codes for cable tray support and bracing.

Inspect and tighten brackets periodically to maintain stability over time. By following these guidelines, anti-sway brackets can effectively enhance the structural integrity of cable tray systems, reduce mechanical stress, and improve safety and longevity of electrical installations.

Article Content

Suspension bracket for cable tray and cable ladder | OBO

Cable trays or cable ladders can be mounted both in a lengthwise and a transverse direction beneath previously installed cable sections. Optional mounting in

Guide to cable support systems

The systems are suspended from the ceiling with threaded rods, stand-off brackets allow raised floor mounting of cable trays, ladders and mesh cable trays. The universal systems comprise ceiling

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These fittings are used in conjunction with cable trays to support cables in ventilation holes, assist with directional change of piping systems, and aid cable channelling around obstacles.

Cable Tray Mounting Brackets | McMaster-Carr

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Choose from our selection of cable tray mounting brackets in a wide range of styles and sizes. Same and Next Day Delivery.

Cable trays must be equipped with anti-sway hangers

Install warning signs at 50 feet centers along cable tray, located to be visible. Strong hangers or brackets should be used to ensure that cable trays do not fall or hang.

Seismic Bracing Kit | Seismic Bracing | Wire and Cable Hangers | Wire ...

Use 2 EZ BN 3/8 to attach cables to FAS PCH for sway bracing. Predrilled tabs allow attachment directly to concrete deck. Spacing must be at least every 30''. For installation recommendations contact

Anti-Sway Brackets

PLP Anti-Sway Brackets secure the bottom of cable spacers at tangent poles to prevent sway/swinging movement of the bundle. Bundle movement can cause stress and fatigue at the support, potentially

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In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and any additional loading that may be applied to the cable tray system (e.g.,

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Posted on: 30/04/2025 Regarding cable management, the fixing and mounting you choose for your cable trays can make or break your setup. Whether you''re managing voice, data, or electrical cables,

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A functional cable tray system consists of various clamping, supporting, and splicing accessories in order to achieve the best possible system. Other add-ons include plastic nuts, bolts, swift clips, wire

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Address cable sagging promptly by redistributing the weight, adding support brackets, or adjusting the spacing between existing brackets. This ensures the stability of the cable trays.

Cable Tray Brackets | Cable Tray System | Netceed UK

Netceed''s selection includes products from leading manufacturers such as Armorduct and Unistrut, ensuring high quality and reliable cable management

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Proper installation and maintenance of cable tray and cable ladder systems are vital to maximize their benefits and minimize potential risks. This comprehensive and in-depth guide delves

Mechanical Guide Focus Group

Step 4: Install anchors For instructions on installing anchors, see Anchors (page 104). Step 5: Run conduit and install conduit clamps Secure cable tray to strut or angle with one- or two-hole brackets

Cable trays must be equipped with anti-sway hangers

Cable trays must be equipped with anti-sway hangers Cable trays must be adequately supported to carry the weight of cables plus any additional loads (such as snow or ice for outdoor installations).

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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