How to support cable trays in the corner



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 at corners should be supported using angled brackets, adjustable corner pieces, or properly positioned support elements to ensure load distribution and structural stability.

Using Adjustable Corner Pieces

For corners, one effective method is to use an adjustable corner piece, such as the SRS type, which fits inside the cable tray and can be secured with screws. These pieces allow for a range of angles, typically from 0° to 75°, accommodating various corner configurations without compromising the tray's integrity or cable routing.

Angled Support Brackets

Support brackets can also be installed at an angle to distribute the weight of the cables more evenly and prevent sagging at the corner. When using angled brackets: Ensure the structural integrity of the support system is maintained. Position brackets to support both the horizontal and vertical sections of the tray.

Verify that the angle does not reduce the load-bearing capacity of the tray.

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Standard Support Methods

Cable trays should be supported according to standard practices: Wall or ceiling-mounted brackets can be used to secure the tray at the corner. Suspended supports or center suspensions may be necessary for long runs or heavy cable loads. Support spacing should follow manufacturer recommendations and NEC Article 392 guidelines to prevent excessive sag or stress on the tray.

Additional Considerations

Material selection: Use steel, stainless steel, or corrosion-resistant materials depending on the environment. Cable management: Ensure that cables are properly tied and organized to avoid uneven weight distribution. Fittings: Use horizontal or vertical bends, T-pieces, or crossovers as needed to maintain smooth cable routing through corners.

By combining adjustable corner pieces with angled or standard support brackets, you can achieve a stable, code-compliant, and efficient cable tray installation at corners, ensuring both safety and ease of maintenance.

Article Content

A Guide to Installing and Supporting Electrical Cable Trays

This guide covers the critical steps, from selecting the right electrical cable tray and performing accurate cable fill calculations to managing a safe cable pull through

Guide to cable support systems

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