How to adjust the horizontal and left right tilt of the cable tray

Overview

Flexible horizontal adjustble splice plate instructions r tool, and drill. (No special tools required.) STEP 1. Prepare the cable tray and flexible horizon.

Key Takeaways

Cable tray horizontal alignment and tilt can be adjusted using software justification settings or by physically leveling and spacing supports on-site.Software-Based Adjustment (CAD/Modeling)

In tools like Revit, you can adjust the horizontal alignment of cable trays using the Justification Settings. This allows you to align the tray edges horizontally using the center, left, or right side as a reference. You can also apply a horizontal offset to position the tray at a fixed distance from other components in the view. For vertical alignment, the vertical justification option lets you align the tray using the top, middle, or bottom of the tray as a reference .

Physical On-Site Adjustment
• Support Placement: Ensure that threaded rods, Unistrut channels, or other support systems are installed according to the approved layout. Supports should be positioned so that connectors between horizontal tray sections fall between the support point and the quarter-point of the span, avoiding the center of the span .

• Leveling and Tilt: Use a spirit level or laser level to check the horizontal plane of the tray. Adjust the height of threaded rods or support brackets to correct any left/right tilt. Minor lateral adjustments can be made by loosening the fasteners on the Unistrut channels and sliding the tray slightly before re-tightening .

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• Spacing Considerations: Leave adequate clearance on both sides of the tray for proper alignment and cable installation. For example, if the tray width is 15 cm, allow an additional 3 cm on each side for alignment and tilt adjustments .

• Expansion and Bonding: Ensure that expansion connectors are installed at building expansion joints and that all trays are bonded together to maintain electrical continuity. This also helps prevent misalignment due to thermal expansion .
Best Practices
• Always follow manufacturer guidelines for tray fittings and support spacing .

• Avoid cutting or drilling structural members without approval .

• Make incremental adjustments and verify alignment frequently along the tray run to maintain a smooth, level installation. By combining software justification settings for design and careful leveling and support adjustment on-site, you can achieve precise horizontal alignment and correct left/right tilt for cable trays.

Article Content

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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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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