

How to make a slanted cable tray



Overview

How to Make a Cable Tray Horizontal Bend with Two 45°. How to Make a Cable Tray Horizontal Bend with Two 45° Angles and Reducer How to Make a Cable Tray.

Key Takeaways

A slanted cable tray can be created by selecting the appropriate tray type, calculating the slope, and installing it with properly spaced supports and fittings to maintain stability and safety. Step 1: Choose the Right Cable Tray Type

Select a cable tray suitable for your load and environment. Ladder trays are ideal for heavy cables, while perforated or solid-bottom trays work for lighter loads or sensitive wiring. Materials can include stainless steel, galvanized steel, aluminum, or fiberglass depending on indoor, outdoor, or corrosive environments .

Step 2: Determine the Slope

Decide the slope angle based on your project requirements. Slopes are typically gentle to allow cable drainage and prevent sagging. Use the start and end elevations to calculate the incline. In software like Revit, you can adjust the Start or End Elevation to make the tray sloping and use the align option to match the slope of structural elements .

Step 3: Plan Support Structures

Install supports such as struts, threaded rods, or brackets at regular intervals. Maximum support spacing is usually around 3.6 meters, with each hanger supporting up to 318–340 kg depending on the tray type . Ensure supports are level and aligned with the slope to prevent twisting or uneven load distribution.

Step 4: Install Fittings and Accessories

Use appropriate fittings like elbows, tees, and reducers to maintain the slope while navigating obstacles. Slot patterns in trays allow for easy attachment of clamps, cable ties, and tubing supports . Ensure all components are compatible and designed to work together for safety and stability .

Step 5: Lay and Secure Cables

Once the tray is installed, lay cables carefully, avoiding sharp bends. Center-hung supports allow cables to be deposited from both sides, simplifying installation . Maintain proper spacing and secure cables with ties or clamps to prevent movement.

Step 6: Safety and Maintenance

Follow local electrical codes and manufacturer guidelines. Avoid using trays as walkways or for supporting personnel. Inspect the tray periodically for corrosion, loose fittings, or overloaded sections . Proper installation ensures long-term durability and reduces the risk of damage or injury. By following these steps—selecting the right tray, calculating slope, installing supports, and securing cables—you can create a safe and efficient slanted cable tray system suitable for industrial or commercial applications.

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