

Article Overview

Cable trays can be securely fixed to steel structures using bolted, welded, or stud-based fasteners, with material and method chosen based on load, corrosion protection, and installation requirements.

Types of Fasteners

1. Bolted Fixings: Bolting involves drilling holes in the steel structure and passing bolts through both sides to secure the tray. This method is reliable and allows for disassembly but requires access to both sides of the steel and careful alignment to ensure load capacity . 2. Welded Fixings: Welding provides a robust, permanent connection. Traditional welding is highly durable but requires skilled labor and can be time-consuming. Modern alternatives include blunt tip self-welding studs or drawn arc stud welding, which allow faster installation and corrosion-resistant connections . 3. Stud Fasteners: Stud solutions, such as Hilti's X-ST GR, X-BT, S-BT HL, and F-BT, are threaded studs fixed directly to steel using powder-actuated tools or welding techniques. These provide fast, strong, and corrosion-resistant fixing without the need for access to both sides of the steel . 4. Brackets and Hangers:

- o Vertical wall brackets: For mounting trays vertically, typically for widths ≥ 150 mm.
- o Central hangers: For suspending trays from ceilings or beams, compatible with various tray widths and depths, using threaded rods (6-12 mm) depending on tray size .
- o Base fixing plates: Flush-fit trays to flat surfaces, providing 15 mm clearance for uneven surfaces .

Materials and Corrosion Protection

Fasteners are commonly made from pre-galvanised steel, hot-dip galvanised steel, Dacromet-coated steel, or stainless steel. Selection depends on environmental conditions and required corrosion resistance. Stainless steel is preferred for high-humidity or outdoor installations .

Installation Considerations

- o Ensure load capacity matches the weight of cables and trays.
- o Maintain proper spacing of hangers and brackets according to tray width and depth.
- o Use threaded rods or bolts of appropriate diameter for the tray size.
- o Avoid narrow gaps (

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2.2 Structural characteristics When considering the installation of the cable supports system it is imperative to avoid the cutting or

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Attach the bracket to the mounting surface, position tray over bracket and slide tray under tabs. Lock tabs down using a screwdriver.

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Fasteners Cable tray is a system used to safely carry and protect electrical cables along pathways planned specifically for building

This article delves into typical troubleshooting scenarios encountered with cable tray systems, highlighting practical

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