

Cable tray corner cutting method

Article Overview

Proper cable tray corner cutting ensures precise fit, maintains structural integrity, and prevents sharp edges that could damage cables or cause injury.

Planning and Preparation

Before cutting a cable tray corner, measure and mark the cut line accurately using a tape measure and marker or chalk. Consider the tray material (metal, fiberglass, or composite) and the required angle for the corner. Ensure the cut will not compromise the tray's load-bearing capacity or violate installation standards such as BS EN 61537 for cable trays .

Tools and Equipment

- o Saws: Use a hacksaw for small metal cuts or a power cut-off saw for larger or thicker trays. For fiberglass trays, a fine-toothed saw or band saw is recommended .
- o Clamps or Vise: Secure the tray firmly to prevent movement during cutting, which reduces chipping and ensures accuracy .
- o Deburring Tools or Files: Smooth sharp edges after cutting to prevent cable damage and injury .
- o Protective Gear: Always wear gloves, safety glasses, and hearing protection to handle sharp edges and metal shavings safely .
- o Lubricant or Cutting Oil: Optional for metal trays to prolong blade life and achieve smoother cuts .

Cutting Technique

- o Mark the corner cut clearly on the tray.
- o Support the tray on a stable surface to prevent bending or chipping.
- o Cut slowly and steadily, avoiding excessive pressure to prevent heat buildup, which can warp metal or soften fiberglass resin .
- o Cut in steps for FRP or composite trays if needed, typically in 300 mm increments for optimal strength .
- o Deburr the edges using a file or deburring tool to remove sharp edges and maintain safety .

Installation Considerations

- o Ensure the cut corner aligns with the tray support system and maintains proper cable routing.
- o For irregular cuts, place the open end inside a starter bracket if possible to maintain torsional strength .
- o Avoid using the tray as a walkway or support for personnel, as this can compromise safety and tray integrity .

Safety and Compliance



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Always follow local health and safety regulations and manufacturer-specific guidelines. Cutting operations should be performed by trained personnel familiar with electrical installation practices. Proper PPE and careful handling prevent injuries from sharp edges or flying debris. By following these steps, cable tray corners can be cut accurately, safely, and in a way that preserves the tray's structural and functional integrity.

In this video, we'll cover the essential steps of marking and cutting cable trays. We'll

The electricians want to "notch" the cable tray side rail so wireways can be attached to it and transition the cabling into

Welcome to our step-by-step guide on installing cable trays! In this video, we'll explore the

How to make a 90 electrical cable tray bend to measurement of your choice. Great if you

This method statement covers the site installation of the cable tray & ladders and the requirements of checks to be

Learn how to cut and bend 10 ft. mesh cable trays for corners in commercial offices. Improve structured cabling for

Selecting the right method for cutting a cable tray depends on the material, tray size, and

Learn expert tips on how to avoid damaging cables during cable tray installation. Our guide

How to make a 90 electrical cable tray bend to measurement with a gusset of your

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

Topics covered: Measuring and marking cable trays Cutting methods and techniques Tool

Common cable trays are made of galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic. The material for a

Before any permanent work will proceed, pre-inspection of all materials, tools and access for installation to be carried

Learn everything about cable tray installation with our complete guide. Discover types, steps, and safety tips

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for

Cable tray system shall be used for laying of MV and LV power, control, instrumentation and special cables in the

Cable trays are systems that distribute bundles of insulated electrical cables from power supplies to electrical equipment, consisting

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