

Cable tray cutting hole

Article Overview

Cutting holes in cable trays requires proper tools, precise measurements, and safety precautions to maintain structural integrity and prevent cable damage.

Tools and Materials Needed

- o Measuring Tape and Marker: For accurate placement of holes and cut lines .
- o Power Drill and Drill Bits: High-quality metal drill bits for creating pass-through holes .
- o Hacksaw, Circular Saw, or Bandsaw: Choose a saw suitable for the tray material (metal, stainless steel, or aluminum), .
- o Clamps or Vice: To secure the tray during cutting .
- o Deburring Tool or File: To smooth sharp edges after cutting .
- o Protective Gear: Safety glasses, gloves (Kevlar recommended), hearing protection, and dust mask .
- o Cutting Fluid (Optional): Reduces heat and prolongs blade life, especially for stainless steel .

Step-by-Step Process

- o Measure and Mark: Determine the exact location and size of the hole. Use a permanent marker or chalk to outline the cut .
- o Secure the Tray: Clamp the tray firmly to prevent movement during cutting .
- o Drill Pilot Holes: For larger openings, drill small pilot holes at the corners of the marked area to guide the saw .
- o Cut the Hole:
 - o For light metal trays, a circular saw or bandsaw is efficient and precise .
 - o For stainless steel, use a hacksaw or power saw with a metal-cutting blade, applying cutting fluid to reduce friction .
 - o Angle grinders can be used if saws are impractical, but require careful handling to avoid sparks and injury .
- o Deburr and Smooth Edges: Remove sharp edges with a file or deburring tool to prevent cable damage and ensure safety .
- o Inspect the Cut: Ensure the hole is straight, clean, and meets installation requirements .

Safety and Best Practices

- o Always wear PPE including gloves, goggles, and hearing protection .
- o Avoid mixing cutting blades between different metals to prevent galvanic corrosion .
- o Do not use torches for cutting, as this can weaken the tray and damage surface treatments .
- o For modular or pre-finished trays, follow manufacturer guidelines for cutting intervals and edge treatment .

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Additional Tips

- o Use cutting guides or jigs for precise, repeatable holes .
- o For professional or high-volume installations, consider battery-powered cable tray cutters for faster and cleaner cuts .
- o Always plan hole placement to maintain the tray's structural integrity and comply with electrical codes . By following these steps and precautions, you can safely and efficiently cut holes in cable trays while preserving their durability and ensuring safe cable routing.

Watch how a professional fabricator perfectly marks, measures, and cuts a cable tray

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market

Cutting wire mesh tray properly reduces sharp ends and makes for a safer installation.To

In the Oglaend System Cutting Guideline you can easily find out what the optimal cutting

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Cut each wire with one clean cut - eliminating any grinding or touch-up. Cut the bottom wires first, in order as shown, from the

Cutting trunking and cable tray scotchchambers36 Oct 12, 2011 angle blade cable cable tray cutting diamond drill

Fast installation with dependable support. Everything you need to build a cable management system, including Cablofil wire mesh

How to design cable tray? Most projects are roughly defined at the start of cable tray design. For projects that are not

Introduction Oglaend System manufacture and deliver Multidiscipline modular bolted support systems, cable trays, cable ladders and

Hello, I am learning how to become an electrician. I am going to make a series of videos showing how to fabricate cable tray and

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Usage Guidelines - Specifically designed for cutting open PVC cable trays and standard DIN rails - Do not use for

Get the best cable tray installation tools for efficiency and safety. A complete guide covering

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

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

1. The document outlines codes and standards that must be followed for design and construction of cable trays and their

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