

Fabrication of cable tray cover plate elbows



Overview

Professional Cable Tray Elbow Making | Metal Fabrication Tutorial This video shows metal fabrication techniques, DIY cable tray projects, and tips for perfe.

Key Takeaways

Cable tray cover plates and elbows can be fabricated by cutting, bending, and assembling metal sheets according to the required angles and dimensions, followed by finishing and inspection for durability and safety.

Materials and Tools

Materials: Common metals include galvanized steel, stainless steel, or aluminum sheets, chosen based on environmental conditions and load requirements. Tools: Shearing machine or angle grinder for cutting, bending machine or manual press brake for shaping, welding machine for assembly, measuring tape, protractor or set square, drill with bits, nuts, bolts, and cold galvanizing spray for rust protection.

Fabrication of Elbows

Determine Angle and Radius: Decide the elbow type (e.g., 45° or 90°) and the bend radius suitable for cable routing. Mark and Cut: For a 90° elbow, mark the center line and measure 45° cuts on each side of the tray. Cut the side flanges and V-notch the base to allow bending.

Bend and Assemble: Use a bending machine or manual techniques to form the elbow. For larger trays, welding may be required to secure the joint. Fastening: Drill holes and use bolts, nuts, and washers to assemble the elbow if welding is not used.

Fabrication of Cover Plates

Measure and Cut: Cut the metal sheet to match the tray width and length. Ensure edges are smooth to prevent cable damage. **Bend Edges:** Slightly bend the edges to fit securely over the tray flanges.

Surface Treatment: Apply paint or galvanizing spray to prevent corrosion and improve durability.

Finishing and Quality Control

Inspection: Check dimensions, angles, and strength of the elbows and cover plates. Ensure proper fit and alignment with the cable tray system. **Safety:** Follow welding and cutting safety protocols, wear protective gear, and ensure proper ventilation.

Tips for Professional Results

Use precise measurements and templates for consistent bends. For complex bends, consider mitered cuts to reduce stress on the metal. Ensure all edges are deburred to prevent cable damage.

Maintain a minimum bend radius to avoid sharp turns that could damage cables. By following these steps, you can fabricate custom cable tray elbows and cover plates that are durable, safe, and compliant with installation standards.

Article Content

Cable Tray Fitting Accessories

As the leading cable tray manufacturers and suppliers, JLH Electric offers a wide range of accessories and spare items, including tray supports and tray connections. We can provide custom design and

Cable Tray Elbow Cutting & Fabrication Tutorial Learn the ...

Cable Tray Elbow Cutting & Fabrication Tutorial Learn the cutting and fabrication method of this cable tray elbow. A practical guide showing accurate...

How to make cable tray elbows?

Making cable tray elbows requires certain professional knowledge and skills, as well as attention to safety and environmental protection issues. During the production process, relevant industry

Cable Tray Technical Guide A practical guide to product selection and ...

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and any additional loading that may be applied to the cable tray system (e.g.,

cable tray system

ENGINEERING manufactures all construction accessories to enable on site installation of cable tray systems. These include splice plate connectors, channels, clamps brackets and hangers.

Cable tray fittings and accessories

High-precision fabrication ensures structural strength, seamless cable movement, and consistent mechanical/electrical performance across the entire pathway.

CABLE TRAY

We have a 50,000 sq. foot manufacturing facility in Port Coquitlam, B.C. and are 100% Canadian owned and operated. Our professional, seasoned sales staff take pride in the quality of the workmanship

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®

Contents sre cable tray | PDF

The document describes the various types, components, and specifications of cable tray systems manufactured by SR Electrical Co. It includes ladder cable trays, perforated cable trays, solid bottom

Criteria for Sizing, Designing, Installing and Supporting of Cable-Tray ...

7.6 Cable tray covers shall be provided when cables might be exposed to damage from objects falling from overhead (that is, when platforms of column boxes are both directly above and adjacent to

26 05 36 Cable Trays for Electrical Systems

Install cable tray as a complete system, including fasteners, hold-down clips, support systems, barrier strips, adjustable horizontal and vertical splice plates, elbows, reducers, tees, crosses, cable

Steel & Galvanized Cable Tray Installation Guide for Uganda

AI SUMMARYThis guide by Build Matt Ltd. covers step-by-step cable tray installation practices tailored to Uganda's industrial warehouses. It explains how to select the right cable tray

Cable Tray Ladder Trunking Wire Basket Installation Guidelines

Typical examples of fittings include elbows, tees, crosses, and risers. Each of these fittings are available in various radii and bend angles. Covers are accessories and shouldn't be in here unless splices etc.

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Document DICOS

Hot dipped galvanized after fabrication (H.D.G.A.F.) (see ASTM A123) steel, aluminum, and stainless steel cable tray and fiberglass or other non-metallic cable tray can be stored outside without cover

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Professional Cable Tray Elbow Making | Metal Fabrication Tutorial

Whether you are a DIY enthusiast, electrician, or metalworker, this tutorial will help you create cable tray elbows like a pro. ☐☐ Topics Covered: Tools for cable tray elbow making Step-by-step ...

CABLE TRAY

Hot dipped galvanized after fabrication (H.D.G.A.F.) (see ASTM A 123) steel, aluminum, and stainless steel cable tray and fiberglass or other non-metallic cable tray can be stored outside without cover,

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