

What to cut at the elbow of an electrical cable tray



AI Overview

To create a 90-degree elbow in a cable tray, cut the side flanges at 45-degree angles and remove V-shaped sections from the base to allow the tray to bend. Tools and Materials Needed: Straight section of cable tray, Cutting tools (angle grinder with cutting disc or hacksaw), Measuring tape and marker, Set square or protractor, Drill and drill bits, Nuts, bolts, and washers for fastening, Cold galvanizing spray for rust protection.

Steps to Cut at the Elbow:

- Mark the Center Line:** Determine where the bend will occur and draw a straight line across the center of the tray base. This line serves as a reference for your cuts.
- Mark the 45-Degree Cuts:** From the center line, measure outward on both sides by a distance equal to the tray width or use a standard range of 45mm to 82mm depending on tray size. Draw the 45-degree lines on the side flanges.
- Cut the Side Channels:** Using your cutting tool, cut the tray flanges along the 45-degree lines, stopping at the base of the tray. This allows the sides to meet cleanly when bent.
- V-Notch the Base:** Remove V-shaped sections from the base where the bend will occur. This step ensures the tray can close properly at the elbow without deforming the sides.
- Bend and Fasten:** Carefully bend the tray along the prepared cuts to form the 90-degree angle. Drill holes if necessary and secure the joint with nuts, bolts, and washers.
- Protect the Cut Edges:** Apply cold galvanizing spray or another rust-preventive coating to the cut edges to prevent corrosion.

Additional Tips: Ensure accurate measurements to maintain proper alignment and fit. Use appropriate personal protective equipment (PPE) when cutting metal. For larger or heavier trays, consider additional support during bending to avoid deformation. Verify that the bend radius meets cable specifications to prevent damage to installed cables. By following these steps, you can safely and effectively...

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Take a 90-degree cable tray bend elbow as an example, and apply the same principles for 45-degree bends accordingly. The length of the bottom side

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How to make cable tray elbows?

Determine the angle and required radius size of the elbow, and choose the appropriate elbow type based on these parameters, such as 90 degree elbow, 45 degree elbow, etc.

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CUTTING GUIDELINE

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electrical #cable tray# making 90,° elbow #

Creating a 90-degree elbow in an electrical cable tray, often called a "fabricated" or "mitered" bend, involves cutting, bending, and fastening a straight section of tray. The most common method ...

Assembly Guide

The bends, tees, crosses, risers and reducers of wire mesh cable tray can be easily and quickly made live at the project by using a bolt cutter. Since the jaws of the bolt cutter drags a layer of zinc across

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Key points: - Cable trays have integral connectors for bends, tees, etc. and require additional supports for large components and cuts. - Medium and heavy-duty

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