

# Making a cable tray clamp

## Article Overview

Cable tray clamps are designed to securely hold cable trays to structural supports, and can be fabricated or selected based on tray type, load requirements, and installation environment.

### Types of Cable Tray Clamps

- o Hold Down Clamps (Z-Clamps): Used to secure trays directly to supporting structures, ideal for GRP or ladder-type trays .
- o Beam Clamps (C-Clamps): Attach trays to I-beams, wide flange beams, or angles without drilling, supporting loads up to 400 lbs .
- o Grounding Clamps: Made from copper alloy with tin plating, used to hold single cables while providing electrical grounding .
- o Snap Track Hold Down Clamps: Designed for channel trays, installed at midpoints or anchor points to allow thermal expansion .

### Materials and Fabrication

- o Common Materials: Steel, stainless steel, aluminum, or copper alloys depending on load, corrosion resistance, and electrical requirements .
- o Surface Treatments: Galvanization, tin plating, or powder coating to improve corrosion resistance .
- o Custom Fabrication: Clamps can be made by cutting and bending metal strips, welding or bolting components, and adding bolts, nuts, and washers for secure attachment .

### Installation Guidelines

- o Support Placement: Clamps should be installed at structural points such as beams, walls, or ceilings, ensuring the tray is level and secure .
- o Load Considerations: Ensure clamps are rated for the weight of the tray and cables; heavy-duty clamps can handle up to 400 lbs .
- o Thermal Expansion: Use expansion guides or mid-span clamps to allow longitudinal movement and prevent stress on trays .
- o Attachment Methods: Depending on the clamp type, attach via set screws, bolts, or field-drilled holes into the tray and mounting surface .

### Practical Tips

- o Use two clamps per side rail for stability on Snap Track or similar trays .
- o For solid bottom trays, consider drilling weep holes to prevent water accumulation if installed outdoors .
- o Select clamps compatible with tray type (perforated, ladder, or solid) and environmental conditions,



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including chemical exposure or humidity . By following these guidelines, you can either fabricate custom cable tray clamps or select pre-made clamps that ensure secure, safe, and durable cable tray installations in industrial or commercial settings.

Learn about the best cable tray cover fixing accessories like no-weld clips, seven-shaped

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Cable trays are available in different configurations, straight sections are available to route cables in a horizontal or vertical plane.

See the clear advantages of Rocket Rack Cable Tray Clamps in this side-by-side

The Detachable Cable Tray is designed to maintain a neat and clean appearance, providing ample storage space for cables, power

Hold down clamps also referred as z clamps are manufactured by Gratemetal. Hold down clamps are used to clamp down cable

Hold down clamps are used to anchor Snap Trap or other cable tray to a structural element. They are typically installed when the

WITH CABLOFIL CABLE TRAY, ANY INSTALLATION CONFIGURATION IS POSSIBLE Engineers and contractors in North

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

Ground clamp styles include bolted lug types that require drilling the cable tray side rail and clamp-on styles that work like a beam

Eaton

Cable Trays and Fittings For ease of installation and accessibility, lay cable and hose in trays instead of pulling it through conduit or

MP Husky cable tray clamps are the most reliable, highest quality, and cost effective cable tray clamps in the industry. Proper cable



# Making a cable tray clamp

Here's how to make cable clamps from scratch using simple tools.

Cable Tray Installation Method Statement 1. Cable Tray Installation Cable trays should be installed in accordance with the latest

This video is a short excerpt from our full video that can be found

Web: <https://millstraining.co.za>

