Method for stamping crossarms of mesh cable trays



Overview

essories for floor, wall and ceiling mounting The mesh cable trays can be mounted directly on the floor, wall.

Key Takeaways

Crossarms of mesh cable trays can be stamped or marked using a combination of field-safe marking tools and protective procedures to ensure clear identification without compromising tray integrity. Recommended Method1.

Preparation

Ensure the mesh cable tray is clean and free of debris at the crossarm location. Verify that the tray is properly supported and secured to prevent movement during marking. Wear appropriate personal protective equipment (PPE), including gloves and eye protection, to avoid injury from sharp edges or metal fragments.

2. Choosing a Marking ToolUse a metal stamping tool or embossing punch suitable for the tray material (typically steel or galvanized steel). For temporary or less permanent marking, a permanent marker or paint pen can be used to label crossarms before assembly.

Avoid cutting or deforming the mesh wires during stamping, as this can reduce structural integrity. 3.

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Stamping Procedure

Position the stamping tool on the crossarm at the desired location. Apply firm, even pressure to create a clear impression of the identification number, letter, or symbol. If using a hammer-driven stamp, ensure the tray is supported on a solid surface to prevent bending.

For multiple crossarms, maintain consistent spacing and orientation for uniformity. 4.

Post-

Stamping Protection

After stamping, inspect the crossarm for any sharp edges or burrs. Apply a protective coating (such as zinc-rich paint or anti-corrosion spray) if the stamping process exposed bare metal, to prevent corrosion. Ensure that stamped markings are legible and correspond to the installation plan.

5. Integration with AssemblyWhen assembling bends, tees, or crosses, follow standard field practices using bolt cutters or Flextray Cleanshear™ tools to cut and shape the tray without damaging stamped areas. Maintain grounding continuity by running a ground wire alongside the tray and connecting it at each section, including stamped crossarms, as recommended by NEMA VE-2 and UL guidelines.

Additional Tips

For large projects, consider pre-stamping crossarms in the workshop before delivery to the site to save time. Use rubber caps or edge protectors on cut ends near stamped areas to prevent injury and maintain safety. Document stamped identifiers in the installation plan to facilitate inspection, maintenance, and troubleshooting.

By following these steps, crossarms of mesh cable trays can be clearly and safely stamped, ensuring proper identification and compliance with installation standards while maintaining structural integrity and corrosion protection.

Article Content

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essories for floor, wall and ceiling mounting The mesh cable trays can be mounted directly on the floor, wall.

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The choice of method should be discussed with a local inspector. The best decision may be to extend only the cables, creating a discontinuity in the cable tray.

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®

Cable Tray Installation Method Statement

This document provides a method statement for installing cable trays and trunking systems for building electrical services.

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Answer: There is no NEC or other limitation on cable trays that would prevent the “Edge-Wise” orientation. The CTI needs to develop guidelines for this installation. This type of installation

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CABLE TRAY SYSTEMS GUIDE

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