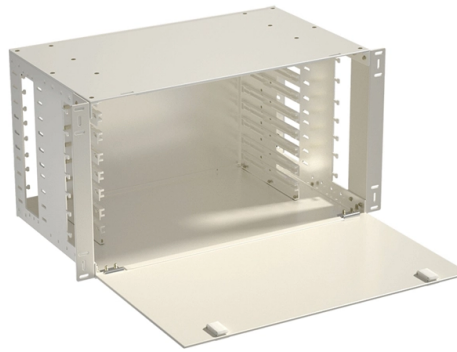


Modification methods for galvanized cable trays



Article Overview

A modification scheme for galvanized cable trays involves assessing structural support, compliance with standards, corrosion protection, and proper installation of joints and fasteners.

Standards and Compliance

Galvanized cable trays must comply with NEMA VE-1 for metal cable trays or equivalent IEC standards to ensure structural integrity and safety during modifications. Compliance with the National Electrical Code (NEC) or Canadian Electrical Code (CEC) is essential for electrical safety, including ampacity considerations and grounding requirements. Any modification should maintain adherence to these standards to avoid compromising system performance.

Material Considerations

Galvanized steel trays are protected by a zinc coating that provides sacrificial corrosion protection. Modifications such as cutting, welding, or drilling can expose bare steel, which should be treated with zinc-rich paint or galvanizing spray to restore corrosion resistance. The thickness of the zinc coating directly affects corrosion resistance, so care must be taken to maintain protective layers during modifications.

Structural Support and Installation...

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Galvanised Cable Trays | The Cable Manager

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Full cable tray systems specification document

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

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Cable Tray Installation Method Statement

Separate grounding cable for cable trays/ladders/trunking shall be provided and connected to earth bar. Burs and sharp edges shall

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Carbon steel cable trays intended for installation in corrosive or highly corrosive environments with severe alkaline and acidic

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VE 2, Metal Cable Tray Installation Guidelines Addresses shipping, handling, storing, and installation of metal cable tray systems.

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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

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