

Regulations for Galvanized Steel Strips for Cable Trays



Article Overview

Galvanized steel strips for cable trays must comply with international standards such as IEC 61537 and NEMA VE 1, with hot-dip galvanizing preferred for corrosion resistance and minimum zinc coating thickness specified by GB/T 13912-2020.

Galvanizing Processes and Standards

There are two main galvanizing methods for steel strips used in cable trays:

- Electro-galvanizing: Deposits a thin, uniform zinc layer via electrolysis. It provides moderate corrosion resistance and is specified under GB/T 26941.1-2011 for general cable tray requirements .
- Hot-dip galvanizing: Submerges steel in molten zinc, forming a thick zinc-iron alloy layer with superior adhesion and corrosion protection. This method is preferred for harsh environments such as outdoor, industrial, or coastal installations and is regulated by GB/T 13912-2020 .

Coating Thickness Requirements

- Tray sheet metal thickness 1.5–3 mm: Minimum zinc layer thickness of 45 μm (coating mass $\geq 325 \text{ g/m}^2$).
- Heavier components ($>3 \text{ mm}$): Minimum zinc thickness of 55 μm .
- For sea-freighted or coastal storage, a coating mass of at least 275 g/m^2 ($\approx 39 \mu\text{m}$) is recommended to prevent white rust and ensure long-term corrosion resistance .

Applicable Standards

Article Content

Series 1 Steel Specification Document.pdf

2.01 General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated; with splice plates,

Galvanized Cable Tray: Durable Industrial Solutions

Discover galvanized cable trays for industrial wiring, with installation tips, load data, and corrosion-resistant solutions

Cope Ladder Master Spec

All covers and splice plates must also be hot-dip galvanized after fabrication; mill galvanized covers are not acceptable for hot-dipped

CABLE TRAYS

2 Cable trays shall be constructed from mild steel hot dip galvanized and of minimum thickness of 1.5 mm. 3 Insert elements, bolts,

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Hot dipped galvanized after fabrication (H.D.G.A.F.) (see ASTM A123) steel, aluminum, and stainless steel cable tray and fiberglass

12-SDMS-06

This SEC Distribution Material Specification requirements for design, materials, manufacturing, indoor/outdoor Metallic Cable Tray

Codes and Standards | Cable Tray Institute

Provides technical requirements concerning the construction, testing, and performance of metal cable tray systems. It is the first joint

Cable tray

Common cable trays are made of galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic. The material for a

Best Practice Guide to Cable Ladder and Cable Tray Systems

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

Metal Cable Tray Installation Guidelines | Cable Tray Institute

The Cable Tray Institute is making available the current edition of this practical guide for the proper installation of aluminum or steel

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

1910.305

Cable assemblies and flexible cords and cables shall be supported in place at intervals that ensure that they will be protected from

Codes and Standards | Cable Tray Institute

The Cable Tray Institute is making available the current edition of this practical guide for the proper installation of aluminum or steel

Practices for grounding and bonding of cable trays

A bare copper equipment grounding conductor should not be placed in an aluminum cable tray due to the potential for electrolytic

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

This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics,

(B) Steel or Aluminum Cable Tray Systems

Steel and aluminum cable tray systems can serve as equipment grounding conductors if specific criteria are met. These include

12-SDMS-06

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

GUIDE CABLE TRAYS TECHNICAL

Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian

Contact Us

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