Standard for Galvanized Steel Cable Trays

Overview

Cable tray shall be fabricated either from corrosion resistant metal such as aluminum alloy or carbon steel with corrosion resistant coating such as zinc coatings as specified in the data schedule.

Key Takeaways

Galvanized steel cable trays are available in pre-galvanized and hot-dip galvanized forms, conforming to ASTM and NEMA standards, with a range of widths, depths, and rung spacing for various load capacities.

Material and Coating Standards

Galvanized steel cable trays are typically manufactured from structural quality steel and coated to resist corrosion. Common standards include: Pre-Galvanized Steel: Coated according to ASTM A653, Grade 33, with G90 zinc coating for corrosion protection.

Hot-

Dip Galvanized Steel: Coated after fabrication in accordance with ASTM A123, ensuring uniform zinc coverage and durability. Mechanical Properties: Steel must meet minimum yield and tensile strength requirements as per ASTM standards. Covers, splice plates, and other accessories are also hot-dip galvanized to maintain consistent corrosion resistance.

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Tray Types and Construction

Galvanized steel cable trays are available in several types: Ladder Type: Side rails with welded rungs, allowing air circulation and easy cable support. Solid Bottom Type: Provides full cable protection, often used in dusty or wet environments. Trough and Channel Types: Offer partial coverage with openings for ventilation and cable access.

Rungs are typically 1 5/8 inches wide, with maximum spacing of 102 mm (4 inches) between rungs to support cables effectively. Side rails are formed and welded to rungs for rigidity.

Dimensions

Cable trays come in a variety of widths, depths, and lengths to accommodate different cable loads: Widths: Commonly range from 100 mm to 600 mm or more, depending on the manufacturer and application. Depths: Typically 50 mm to 150 mm for standard trays, with deeper trays available for higher cable volumes. Lengths: Standard straight sections are usually 3 meters to 6 meters, with custom lengths available.

Tray dimensions are selected based on cable loading, span, and installation environment, following NEMA VE 1 and VE 2 guidelines. Additional FeaturesTy-Rap Cable Tie Slots: Some ladder trays include slots on 1-inch centers for securing cables.

Snap-

On Covers: Optional covers provide additional protection against dust and moisture. Rounded Edges and Smooth Surfaces: Ensures safety during installation and prevents cable damage.

Compliance and Standards

Galvanized steel cable trays comply with: NEMA VE 1: Metallic cable tray systemsNEMA VE 2: Installation guidelinesASTM A123, A653, A1008: Steel and zinc coating specificationsIEC 61537: International standard for cable tray systems These standards ensure mechanical strength, corrosion resistance, and safe installation practices.

Summary

Galvanized steel cable trays are robust, corrosion-resistant solutions for cable management, available in pre-galvanized or hot-dip galvanized finishes, multiple tray types, and a wide range of widths, depths, and lengths. Selection depends on cable load, environmental conditions, and compliance with ASTM and NEMA standards, ensuring durability and safety in electrical installations.

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Article Content

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Galvanized Cable Tray Zinc Coating Standards and

To ensure trays arrive in “as-new” condition, industry best practice for sea-freighted trays, especially those made from exported galvanized steel

Cable Tray Design and Standards Guide | PDF | Sheet Metal

The document outlines codes and standards that must be followed for design and construction of cable trays and their components. Standards listed include those for materials, rolling and cutting

GUIDE CABLE TRAYS TECHNICAL

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 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 developed by ABB as a practical reference regarding cable tray

HDG Cable Tray Specification Guide

This document specifies the requirements for hot-dip galvanized (HDG) steel cable trays with self-healing zinc coating, suitable for electrical cable support systems.

Full cable tray systems specification document

Hardware shall be zinc plated in accordance with ASTM B633 SC1 for pre-galvanized cable trays, or Chromium Zinc in accordance with ASTM F-1136-88 for hot dip galvanized cable trays.

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 cable tray systems. These guidelines will be useful to engineers,

Metallic Cable Tray | PDF Catalogues | ABB Electrification Canada

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CABLE TRAYS

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Galvanized Steel Cable Trays for Industrial Power Management & Safety

Explore the benefits of galvanized steel cable trays for industrial power management. Learn about heavy-duty cable trays, corrosion resistance, and industry standards to ensure efficient and

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IEC Standard for Cable Tray: Complete Technical Guide

Understanding the IEC Standard for Cable Tray Cable trays play a vital role in supporting electrical cables and wires in commercial, industrial, and

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