

Requirements for the zinc plating thickness of galvanized cable trays



Article Overview

The standard zinc coating thickness for galvanized cable trays ranges from 12 μm for electro-galvanized trays to 65 μm or more for hot-dip galvanized trays, depending on steel thickness and environmental conditions.

Hot-Dip Galvanized (HDG) Cable Trays

Hot-dip galvanizing provides a thick, durable zinc layer that offers long-term corrosion protection. The minimum zinc coating thickness is typically 65 μm (0.065 mm) per side, corresponding to a coating weight of 460 g/m² per side, as specified in ASTM A123/A123M and industry standards for carbon steel cable trays . For tray components with thicker steel (over 3 mm), the local zinc thickness may be increased to ≥ 55 μm to ensure adequate protection . In typical atmospheric environments, a coating of 50–100 μm can provide decades of corrosion resistance, with thicker coatings recommended for industrial, coastal, or high-humidity environments .

Electro-Galvanized Cable Trays

Electro-galvanizing produces a thinner zinc layer, suitable for indoor or less corrosive environments. The minimum zinc thickness for electro-galvanized trays is 12 μm , as defined in GB/T 26941.1-2011 . This method offers limited corrosion resistance compared to hot-dip galvanizing and is generally not recommended for outdoor or highly corrosive conditions.

Measurement and Compliance



Article Content

Technical specifications CT15 (Cable Tray perforated)

The following process steps are involved: degreasing, rinsing, pickling, re-rinsing, fluxing, drying and hot-dipping. The coating

Full cable tray systems specification document

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

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

ZINC COATINGS

batch hot-dip galvanizing, continuous sheet galvanizing, This practical aid examines the following zinc coatings: zinc painting, zinc

Coating Thickness/Weight

The specifications include tables providing specific requirements for thickness or weight per surface area based upon the steel part

Hot dip galvanized cable tray applications

This article explains where hot-dip galvanized cable trays perform best, how engineers should select appropriate zinc coating

ASTM B633 Zinc Electroplating Services | Gatto Industrial Platers, Inc.

The electrolytic plating process can cause thickness variations of the coating from point to point on a part. For that reason, areas

HDG Perforated Cable Tray | GI Cable Tray Manufacturer

Hot Dip Galvanized (GI) Perforated Cable Trays are metal trays coated with a layer of zinc through the hot-dip galvanizing process.

Zinc Layer Thickness Guide for Galvanized Cable Bridges

This guide provides a comprehensive overview of zinc coating thickness for galvanized cable bridges, ensuring compliance with

RECOMMENDED SPECIFICATIONS OF JUNCTION BOX AND CABLE TRAY

Basic requirements for some aspects of the E& I components (e.g., cable tray and junction box) can be found in the ABS Rules for

Galvanizing Thickness: Standards, Dimensions, and Service Life

Description: This standard specifies the requirements for zinc coatings applied by hot-dip galvanizing on finished steel products and

[Zinc Coating Standards and Testing | PDF](#)

IS 2629 (1966).-Recommended practices for hot dip galvanizing of Iron MS Tray 2. IS 2633 (1972)-Method of Testing, Weight,

12-SDMS-06

Carbon steel used for cable trays shall be protected against corrosion by the following processes: Hot-dip galvanized zinc after

[QCS 2010: Cable Tray Specifications | PDF | Cable | Screw](#)

It specifies that cable trays shall be constructed from hot-dipped galvanized mild steel with a minimum thickness of 1.5mm. Tray

[HDG Cable Tray Specification Guide](#)

[HDG Cable Tray Specification with Self-Healing Zinc Coating - Free download as Word Doc \(.doc / .docx\), PDF File \(.pdf\), Text File](#)

[Technical Requirements for Wire Mesh Cable Trays](#)

Technical Specifications for Wire Mesh Cable Trays Wire mesh cable tray technical requirements are crucial for the success of cable

[HDG Cable Tray Specification Guide](#)

How is the minimum zinc coating thickness for hot-dip galvanized cable trays ensured during manufacturing, and why is this

[Wiremesh Tray Finishes](#)

MILL GALVANIZING When it comes to wire mesh cable tray, there can be some legitimate confusion surrounding the finishes that

[Galvanizing Thickness: Standards, Dimensions, and Durability](#)

Understand the importance of zinc coating thickness. Learn about the factors that influence coating thickness and corrosion

[Perforated GI Cable Tray Specifications](#)

The document provides technical specifications for perforated galvanized iron (GI) cable trays with tray covers. It outlines 5 key

[Cable Tray Specifications and Compliance | PDF | Specification](#)

For each requirement, it states the proposed product details and confirms compliance. The proposed cable trays are constructed

Cable Tray Technical Specifications | PDF | Galvanization ...

The document provides a technical data sheet for cable trays including ladder and perforated types. It lists specifications for material,

Know your Microns

It is remarkable to think that a coating, just thicker than a sheet of A4 paper, can protect a steel structure for the better part of one

Ultimate Guide To Choosing Right Galvanized Cable Tray

Galvanized cable tray, also known as Electro-Galvanized Cable Tray, is a durable, versatile, and cost-effective cable tray system

Cable Tray Technical Specifications | PDF | Galvanization ...

Key details include the cable trays being made of hot dip galvanized MS sheet, having a maximum deflection of 7mm under load,

Cable Tray Material Specifications | PDF | Galvanization

This document discusses material and finish standards for cable tray selection. It describes the advantages of aluminum, steel, and

Measuring Galvanizing Thickness | Resources | DeFelsko

Consequently, inspection of zinc coating thickness is the single most important step in determining the quality of a galvanized

B-Line series Cable Tray Design Considerations

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market

Contact Us

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