

# Metal cable trays should be treated with anti-corrosion measures



## Overview

The anti-corrosion layers on cable trays include hot-dip galvanizing, galvanized nickel, cold galvanizing, powder electrostatic spraying, and more. Legrand wiremesh cable trays are resistant to corrosion thanks to the various available surface treatments. There is a solution for each type of environment. This white paper compares the High Resistance (HR) and Hot-Dip Galvanising (HDG) solutions and highlights the new High Resistance range, ZnAl. Corrosion can weaken cable trays, leading to failures that disrupt operations and pose safety risks. Common materials include: Stainless Steel: In the construction and design of electrical systems, anti-corrosive cable trays selection plays a crucial role in ensuring both the durability and safety of the entire system. Here are some effective strategies to combat cable tray corrosion: Material Selection: Choosing the right material for cable trays is the first step in preventing. The durability of cable tray systems is critical in installations where environmental conditions pose a high risk of corrosion.



## Article Content

Mar 05, 2026

Preserving Performance: Strategies to Address Cable

Protective Coatings: Applying protective coatings to cable trays can enhance their corrosion resistance. Epoxy coatings, powder coatings, and PVC

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Effective Measures for Protecting Cable Trays in

Learn how to protect cable trays in outdoor environments from the effects of sunlight, oil, and corrosive liquids to ensure the longevity and safety of

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Materials for Cable Trays in Corrosive Environments

This comprehensive guide explores the best materials for cable trays in corrosive environments, analyzing options like HDG steel, stainless steel,

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CABLE TRAYS

The HS (High Resistance) alloys used in ZnAl (Zinc Aluminum), ZnMg (Zinc Magnesium) or ZnNi (Zinc Nickel) cable trays have an excellent resistance to corrosion, especially in salt spray tests, and in

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Chemical Plants & SS Cable Trays: Corrosion Resistance Explained

Chemical plants demand durable, corrosion-resistant cable management solutions to withstand harsh environments. Stainless Steel (SS) Wire Mesh Cable Trays are a top choice due to

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Do You Know Cable Trays in the Petrochemical Industry

How Does Corrosion Affect Cable Trays? Corrosion leads to several issues: Metal Degradation: This reduces the load-bearing capacity of cable trays,

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Understanding Stainless Steel Cable Tray Corrosion

Discover the major causes of stainless steel cable tray corrosion, preventive measures, and how to ensure long-lasting durability. Learn how environmental factors, improper materials, and

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Low Price Vertical Cable Tray Customizable Cable Parts | Alibaba

Steel Vertical Cable Tray Constructed from high-strength carbon steel, these trays are engineered for maximum durability and load-bearing capacity. Most steel trays undergo galvanization (zinc coating)

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Management of C8 classification corrosion protection

The corrosion resistance of the cable trays is based on the UNE-EN IEC 61537 standard and is verified by the continuous salt spray test (ISO 9227). Both

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How to Choose the Surface Corrosion Protection for

To ensure that cable trays perform well under diverse and challenging environmental conditions, selecting the right surface treatment and coating

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Preserving Performance: Strategies to Address Cable

Addressing cable tray corrosion is crucial to ensure the longevity and performance of the system while maintaining safety standards. Here are some

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Materials for Cable Trays in Corrosive Environments

Material Selection Guidelines for Cable Trays in Corrosive Environments To make the right choice for your cable trays, it is crucial to

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Preventing Corrosion and Deterioration: What's in the

In 300.6 of the 2002 NEC, new text was added: "Ferrous metal raceways, cable trays, cablebus, auxiliary gutters, cable armor, boxes, cable

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Cable Tray Corrosion Protection Guide

Discover the best practices for cable tray corrosion protection, including load capacity, materials, and customized solutions for various applications.

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How to choose the type of anti-corrosion layer on the surface of cable

The designer must choose the cable tray's surface anti-corrosion layer that matches the engineering environmental conditions, and explicitly state the selection in the design documents.

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How to choose the type of anti-corrosion layer on the surface of cable tray

The anti-corrosion layers on cable trays include hot-dip galvanizing, galvanized nickel, cold galvanizing, powder electrostatic spraying, and more. According to manufacturer's information, the hot-dip

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Common Cable Tray Failures and How to Resolve Them

Learn about common cable tray failures, their causes, and practical solutions for ensuring the longevity and safety of your cable tray system, including

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Explosion Proof Cable Trays in Chemical Plants

Essential guide to explosion proof Cable Trays in Chemical Plants. Learn about tray zoning, materials, design, installation, & safety for hazardous

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How to prevent cable tray from being corroded? What are the methods ...

Hot-dip galvanized cable tray technology zinc has good corrosion resistance. As a way to protect the cathode metal by dedicating itself to the anode, the life of zinc dipping depends on its

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Corrosion-Resistant Cable Trays Guide

Corrosion-resistant cable trays are essential components in modern electrical infrastructure, especially in environments prone to moisture, chemicals, or extreme temperatures. These trays not only

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Anti-corrosive Cable Trays Selection: A Comprehensive

In this article, we will discuss how to make the best choice for anti-corrosive cable trays across various corrosion levels to guarantee the safety,

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### Cable Trays Surface Treatment: Methods and Applications

Cable trays play a critical role in electrical systems, offering sturdy support and reliable protection for cables in various environments. The Cable

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### Beama Best Practice Guide | Installation Environment | Types of Cable ...

For further details on electrochemical corrosion see PD 6484 "Commentary on corrosion at bimetallic contacts and its alleviation." If copper is laid directly onto a galvanised surface the zinc will rapidly

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### 100+ Essential Questions Answered About Cable Trays:

Outdoor cable trays need protective measures against wind, rain, sunlight, and corrosion. Use corrosion-resistant materials like stainless steel or

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### Cable Tray SHIB NAL

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of a planned cable management system to support, route, protect and

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### Beama Best Practice Guide | Installation Environment | Types of

The best way to prevent electro-chemical corrosion is to ensure that all system components have the same finish e.g. all components HDG or all components stainless steel. Where this is not possible

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### How to prevent cable tray from being corroded? What are the methods ...

The cable tray coated with antirust paint can only be treated with antirust paint because of the limitation of galvanizing equipment. It has the advantages of low cost and convenient operation,

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### Corrosion-Resistant Cable Trays Guide

Discover the essentials of corrosion-resistant cable trays, including load capacity, customization options, and industry applications.

## Contact Us

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