

Categories of Anti-corrosion Coatings for Steel Cable Trays



Overview

ISO 12944 helps engineers select a protective coating system by defining atmospheric corrosivity categories (C1 to C5 and CX) and linking the environment + durability target to coating system performance expectations. The ISO 12944 standard is an international standard for corrosion protection of steel structures and iron components using paint and coating systems. If your project spec says "C3/C4/C5," it's essentially telling you how aggressive. This white paper compares the High Resistance (HR) and Hot-Dip Galvanising (HDG) solutions and highlights the new High Resistance range, ZnAl wiremesh, ZnMg metal cable trays and accessories and ZnNi screws and bolts. Both procedures are certified and audited by AENOR, which guarantees full compliance with national and international standards.



Article Content

Aug 24, 2025

Cable Tray Material and Surface Treatment

Corrosion of metal is a main factor that affect cable tray lifespan. Therefore choice of surface treatment or the type of steel is very

Nov 01, 2025

Corrosion-Resistant Cable Trays Guide

Corrosion-resistant cable trays are essential components in modern electrical infrastructure, especially in

Mar 08, 2026

CORROSION PROTECTIVE COATINGS FOR STEEL

PRACTICAL COATING SYSTEMS FOR ALL IMPORTANT APPLICATIONS ACCORDING TO ISO 12944:2018 Insufficient corrosion

Sep 12, 2025

Management of C8 classification corrosion protection treatments on ...

To do this, it is imperative to understand what a corrosion grade is, what its requirements are, the types of coatings available and the

Sep 24, 2025

CORROSION PROTECTIVE COATINGS FOR STEEL

In the 2018 revised standard, the corrosivity categories were restructured and now range from C1 to CX. CX describes extreme

Jun 05, 2026

Cable Tray Corrosion Protection Guide

Materials for Corrosion-Resistant Cable Trays Choosing the right material is crucial for corrosion protection. Common

Aug 02, 2025

CABLE TRAYS

The HS (High Resistance) alloys used in ZnAl (Zinc Aluminum), ZnMg (Zinc Magnesium) or ZnNi (Zinc Nickel) cable trays have an

Sep 10, 2025

Cable Tray Protects Cables from Corrosion

Cable Tray- Insulated Channel Types Cable tray can be made of low carbon steel, FRP or stainless steel. The low carbon steel has

Jan 12, 2026

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

Oct 23, 2025

From C1-C5 and CX: The Corrosion Resistance Grade and Design

ISO 12944-2 classifies environments into six corrosivity categories. Each category is defined by measurable factors:

Mar 01, 2026

Preserving Performance: Strategies to Address Cable Tray Corrosion

Epoxy coatings, powder coatings, and PVC coatings create a barrier between the metal surface and corrosive

Feb 26, 2026

Materials Used & Finishing Of A Cable Tray

There are many types of materials and finishings used to manufacture a Cable Tray. Hutaib Electricals, Cable Tray

Jun 19, 2026

Epoxy Resin Cable Tray Resist Corrosion

According to the structure, epoxy resin cable trays can be classified into channel type, ladder type, perforated type, large span cable

May 13, 2026

Corrosion-Resistant Cable Trays Guide

1. Understanding Corrosion Resistance in Cable Trays Corrosion resistance is achieved through materials like

Sep 22, 2025

Classification of Corrosion Resistance Grades for Anti-corrosion Cable ...

Understand in detail common types of corrosion, its effect, standard test methods of corrosion resistance and mechanism of anti

Mar 11, 2026

GALVANIZED CABLE TRAYS

The steel type, aluminum alloy type and glass fiber reinforced plastic type. Three types according to different usage: The ordinary,

Apr 18, 2026

Corrosion Classification in the Cable Tray Industry

Corrosion Resistance: Choosing the right materials for cable trays and related components based on the

Dec 28, 2025

Corrosion protection

Corrosion protection Cost effective corrosion protection of structural steelwork should present little difficulty

Aug 27, 2025

Coatings

Coatings — the first line of defense — play a major role in protecting structural steel from corrosion. Here we'll outline surface

Jun 04, 2026

Cable Tray Corrosion Protection Guide

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

Jul 05, 2026

Suitable Cable Trays For Your Environment | Cable Tray

Hutaib Electricals: Leading cable tray manufacturer in India. Explore durable cable trays and accessories with epoxy,

Oct 16, 2025

Management of C8 classification corrosion protection treatments on ...

Applicable standards and test methods The corrosion resistance of the cable trays is based on the UNE-EN IEC 61537 standard and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

