Cable tray made of galvanized carbon steel



Overview

Galvanized steel cable tray Find your galvanized steel cable tray easily amongst the 17 products from the leading brands (Legrand, Bourn And Koch, INTERFLE.

Key Takeaways

Galvanized carbon steel cable trays are durable, corrosion-resistant systems designed for efficient cable management in industrial and commercial environments.

Material and Construction

Galvanized carbon steel cable trays are typically made from Q235 carbon steel or high-quality carbon steel sheets, which provide strength and durability while remaining cost-effective. The trays are often fabricated with ventilated or solid bottoms and may feature perforated designs to enhance heat dissipation and facilitate cable installation. Standard thicknesses range from 1.

5 mm to 2 mm, and lengths are commonly 3 m or 6 m, with widths from 50 mm to 900 mm and heights from 50 mm to 150 mm.

Surface Treatments

To prevent corrosion, carbon steel trays are treated with galvanization. There are two main types: Pre-galvanized: The steel sheet is galvanized before fabrication. This is the most economical option but may have a shorter service life due to potential zinc coating damage during production.

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Hot-dip galvanized: The tray is fabricated first and then coated with a thick zinc layer, providing superior resistance to acid, alkali, salt, and other corrosive elements. This is the most durable and widely used method. Some trays also feature powder-coated finishes for aesthetic purposes and additional corrosion protection, available in various colors.

Features and Benefits

Corrosion Resistance: Galvanized coating ensures long-term protection against environmental elements, making the trays suitable for both indoor and outdoor applications. Sturdy Construction: Welded or reinforced structures provide high load-bearing capacity, supporting heavy cable bundles reliably. Precision Design: Trays are engineered for organized cable routing, reducing clutter and improving maintenance efficiency.

Easy Installation: Many trays include user-friendly features such as click systems or pre-drilled holes, simplifying assembly and reducing installation time. Versatility: Suitable for industrial complexes, commercial buildings, shopping malls, and workshops, these trays can handle concentrated power cables and adapt to various layouts.

Applications

Galvanized carbon steel cable trays are widely used in industrial, commercial, and civil construction projects. They are ideal for environments where durability, corrosion resistance, and organized cable management are critical, including power plants, factories, data centers, and large commercial buildings.

Summary

Galvanized carbon steel cable trays combine strength, corrosion resistance, and ease of installation, making them a reliable choice for managing electrical and communication cables in diverse settings. Choosing between pre-galvanized and hot-dip galvanized options depends on budget, environmental exposure, and desired service life. Their modular design and versatility ensure efficient cable routing and long-term performance.

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Article Content

Galvanized steel cable tray

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Cable Trays

Heavy duty cable trays and cable ladders are manufactured from pre-galvanized or hot-dipped galvanized sheet metal, designed to meet ideal environmental working conditions for indoor and

Galvanised steel cable tray

Solid-sheet cable tray with pressed bottom and safety edge, P31 auto male/female system, GS finish. Professional product designed for routing cables in buildings

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

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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

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Cable Tray Manufacturers

3. In addition to the above conditions, tray type, trough type, step type, glass anticorrosive and flame retardant cable tray or steel ordinary type cable tray can be selected according to the on-site

TOPFIX Galvanized Steel Wire Mesh Cable Tray CE ISO Certified

Working Load:120 kg;Surface Finishing:Coated With Anti-Corrosion Paint;Surface Finishing:Hot-Dip Galvanized;Surface Finishing:Pre-Galvanized;Place of Origin:CN;SHN;Material:Carbon

Cable Tray Material Comparison: Hot-Dip Galvanized vs. Stainless Steel ...

1. Hot-Dip Galvanized Cable Tray: Sacrificial Zinc Coating Protection HDG cable trays are manufactured by immersing carbon steel base materials into high-temperature molten zinc liquid,

ZM FINISH ADDED TO CABLE TRAY RANGE – Unitrunk

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ZM FINISH ADDED TO CABLE TRAY RANGE Our market-leading cable tray system is now available in ZM (Zinc Magnesium), as well as existing finishes (pre-galvanized, hot-dip galvanized, powder

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