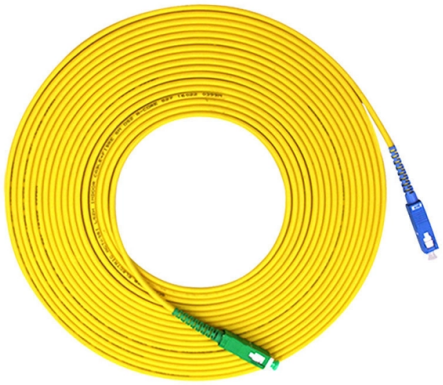
Specifications of Galvanized Trapezoidal Cable Trays



Overview

The document provides a technical data sheet for cable trays including ladder and perforated types. It lists specifications for material, thickness, dimensions, loading capacity, fittings and accessories.

Key Takeaways

Galvanized trapezoidal cable trays are widely used for supporting and routing electrical cables, with pre-galvanized and hot-dip galvanized options suited for different environments.

Types of Galvanized Cable Trays

Trapezoidal cable trays are a type of metallic cable tray with a trapezoid-shaped cross-section, designed to provide strength and rigidity while supporting heavy cable loads. Common types of galvanized cable trays include: Pre-Galvanized (PG) Trapezoidal Trays: Made from steel sheets coated with zinc before fabrication. The coating thickness typically ranges from 12 to 20 microns (Z120-Z275).

These trays are ideal for dry indoor environments such as office buildings or clean factories, offering moderate corrosion resistance at a lower cost.

Hot-

Dip Galvanized (HDG) Trapezoidal Trays: Steel trays are fully dipped in molten zinc, creating a thick coating of 65–85 microns that covers all edges, corners, and holes.

HD

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G trays are highly resistant to moisture, rain, and salt air, making them suitable for outdoor, coastal, or chemical facility installations. They provide long-term durability, often exceeding 20 years.

G

I (Galvanized Iron) Trays: Similar to pre-galvanized trays but may vary in zinc coating and fabrication process. They are commonly used in industrial and commercial applications where moderate corrosion protection is sufficient.

Key Features and Benefits

Corrosion Resistance: Zinc coating protects steel from rust and environmental damage.

HD

G trays offer superior protection compared to pre-galvanized trays.

Load-

Bearing Capacity: Trapezoidal design enhances structural strength, allowing the tray to support heavy cable bundles. Load capacity depends on support span; doubling the distance between supports reduces the tray's weight capacity to approximately 25% of its original rating. Versatility: Trapezoidal trays can be used in industrial, commercial, and infrastructure projects.

Accessories like elbows, tees, crosses, and support brackets allow for flexible routing. Compliance: High-quality trays meet standards such as IEC 61537 and NEMA VE 1, ensuring safety and reliability under mechanical stress.

Selection Considerations

When choosing a galvanized trapezoidal cable tray, consider: Environment: Use pre-galvanized trays indoors; choose HDG for outdoor or corrosive environments. Cable Load: Ensure the tray can support the weight of cables without failure. Span and Support: Proper bracket spacing is critical to maintain structural integrity.

Regulatory Compliance: Verify compliance with NEMA, IEC, or local standards to ensure safety and legal adherence. Budget vs. Longevity: HDG trays are more expensive but provide long-term durability, reducing maintenance costs over time.

Conclusion

Galvanized trapezoidal cable trays are a reliable solution for organizing and supporting electrical cables. Pre-galvanized trays are cost-effective for indoor use, while hot-dip galvanized trays are ideal for harsh or outdoor environments. Proper selection based on environment, load, and compliance ensures safety, durability, and efficient cable management.

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Article Content

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, thickness, dimensions, loading capacity, fittings and accessories. Key

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 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®

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This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge and flange types, and bent cable trays.

Product Specifications: CABLE TRAY

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Ecuadorian Standard for Cable Trays

Different cable tray designs are distinguished by factors such as differences in width, height of the side, stair design, maximum space between steps, and connection of the side to the base . These factors

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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