

Galvanized material for tray-type cable trays

Article Overview

Galvanized cable trays include pre-galvanized (PG), hot-dip galvanized (HDG), and GI trays, available in various styles such as solid, perforated, and trunking designs.

Overview of Galvanized Cable Trays

Galvanized cable trays are steel-based systems coated with zinc to prevent rust and corrosion, making them ideal for both indoor and outdoor installations, especially in harsh or humid environments . The zinc coating protects the steel even if the surface is scratched, extending the lifespan of the cable management system . These trays are used to support and organize electrical power cables, data cables, control wiring, and fiber optics in commercial, industrial, and infrastructure projects .

Main Types of Galvanized Cable Trays

o Pre-Galvanized (PG) Cable Trays

- o Made from steel sheets coated with zinc before fabrication.
- o Coating thickness typically ranges from 12 to 20 microns.
- o Suitable for dry indoor environments such as office buildings or clean factories.
- o Cost-effective and polished, but less resistant to moisture and outdoor conditions .

o Hot-Dip Galvanized (HDG) Cable Trays

- o Steel trays are fully submerged in molten zinc, forming a thick metallurgical bond.
- o Coating thickness ranges from 65 to 85 microns, providing superior corrosion resistance.
- o Ideal for outdoor installations, high-humidity areas, or corrosive environments.
- o Can last over 20 years even in rain or salt air conditions .

o GI (Galvanized Iron) Cable Trays

- o Similar to pre-galvanized trays but specifically made from galvanized iron.
- o Often used in industrial and infrastructure applications where moderate corrosion protection is needed .

Styles of Galvanized Cable Trays

- o Solid Bottom Trays: Provide full support and protection for cables.
- o Perforated Trays: Allow ventilation and heat dissipation, suitable for power and data cables.
- o Cable Trunking: Enclosed design for extra protection in sensitive or exposed areas .

Considerations for Selection

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- o Environment: Choose HDG for outdoor or corrosive areas; PG is sufficient for dry indoor spaces .
 - o Load Capacity: Ensure the tray can support the weight of cables without failure, following standards like IEC 61537 or NEMA VE 1 .
 - o Accessories: Elbows, tees, crosses, and support brackets should match the tray type for proper installation .
- By selecting the appropriate type and style of galvanized cable tray, you can ensure long-term durability, safety, and efficient cable management in your installation .

SFSP manufactures a wide range of products capable of providing the characteristics which respond to the

This document provides general guidelines for cable trays and their installation. It discusses the different types of

Galvanized Steel Cable Trays: These trays are coated with zinc to provide enhanced

Common cable trays are made of galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic. The material for a

Learn about the hot-dip galvanize cable trays process, benefits, and key considerations.

Series Cable Tray Type 40 Series Perforated 40 Series Perforated hot-dip is a high capacity cable transportation system resistant to

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations)

Legrand wiremesh cable trays are resistant to corrosion thanks to the various available surface treatments. There is a solution for

Hot Dip Galvanized (GI) Ladder Cable Trays are metal trays with a ladder-like design, coated with a layer of zinc through the hot-dip

Understanding the various types of cable trays is crucial for choosing the most appropriate option for your specific requirements.

In designing supports for a cable tray system, consideration should be given to the loads associated with future

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cable additions and

Constructed of different materials such as galvanized iron (GI), stainless steel, or hot dip galvanized steel, perforated cable trays are

Cable trays We offer a wide range of cable tray systems to support tubing, electrical cables and

We manufacture cable trays in three ways: Hot Dip Galvanized (Galvanizing as Per IS-2626, equivalent to ASTM A123), Pre

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

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