Cable tray trough type galvanized steel plate

Overview

Trough Cable Tray It can be used for laying fully enclosed cables. It is most suitable for laying control cables for computer cables, communication cables.

Key Takeaways

A galvanized steel trough-type cable tray is a fully enclosed, corrosion-resistant system designed to protect and organize cables in industrial and commercial environments. OverviewTrough-type cable trays are channel-shaped systems formed from a single steel sheet, typically Q235 carbon steel, with a hot-dip galvanized coating for enhanced corrosion resistance. They feature a rectangular trough profile with optional removable covers, providing superior protection against dust, moisture, oil mist, and electromagnetic interference.

This design is ideal for environments where cables require maximum protection and organization, such as industrial plants, utility corridors, and equipment rooms.

Material and Surface Treatment

Base Material: Q235 carbon steel, stainless steel (SS304/SS316), or aluminum alloys. Surface Finishes: Pre-galvanized, hot-dip galvanized, powder-coated, anodized, or coated with anti-corrosion paint. Corrosion Resistance: Hot-dip galvanization thickness typically ≥ 85 µm, meeting ASTM A123 standards for long-term durability.

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Structural Characteristics

Fully or semi-enclosed profile for environmental isolation. Smooth internal surfaces to prevent cable damage. Removable covers for inspection and maintenance.

Side Rail Heights: 50–300 mm (2–12 inches), customizable based on load and cable capacity. Tray Widths: 50–800 mm (2–32 inches), lengths typically 2–6 meters. Load Capacity and PerformanceTrough-type trays have high load-bearing capacity due to their closed-channel geometry, supporting heavy cable bundles with fewer supports.

Recommended support spans vary by tray width: 100–200 mm (medium load, 1. 5–2. 0 m), 300–400 mm (high load, 2.

0–2. 5 m), 500+ mm (very high load, 2. 5–3.

0 m),. Maximum working load can reach 250 kg per section, depending on size and material.

Advantages

Superior environmental isolation: Protects cables from dust, moisture, oil, and mechanical impact. Mechanical impact resistance: Enclosed walls reduce risk of insulation damage. Improved cable organization: Maintains consistent bending radius and separation between cable groups.

Durability: Hot-dip galvanization and optional coatings extend service life, especially in humid or industrial environments.

Applications

Industrial cable support and wiring systems. Power and control cable installations. Environments with high dust, moisture, or chemical exposure.

Utility corridors, equipment rooms, and production halls.

Installation Considerations

Plan support spacing according to manufacturer recommendations. Avoid overcrowding; maintain minimum bending radius. Use separators for multiple cable types.

Ensure proper grounding and compliance with electrical codes (NEC, IEC standards),. Trough-type galvanized steel cable trays are a reliable, long-term solution for cable management where protection, organization, and durability are critical, outperforming open ladder or wire mesh trays in harsh or industrial environments.

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Article Content

Trough Cable Tray

It can be used for laying fully enclosed cables. It is most suitable for laying control cables for computer cables, communication cables, thermocouple cables and other highly sensitive

Galvanized Steel Trough Cable Tray

Discover galvanized steel trough cable trays with CE certification, hot-dip galvanized finish for corrosion resistance, ideal for industrial cable laying and network installations.

Product Catalogue Cable Management Solutions

With over 20 years of experience T&B Cable Tray provides a complete solution in cable management systems including design, manufacturing and technical support by offering a complete solution for

Trough Trays | Cable Tray and Reels | Wire and Cable Management

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance. Multi purpose splice for straights, offsets, horizontal or vertical

Accio Trough Galvanized Cable Tray: Your Ultimate Guide

This table provides a comprehensive comparison of various categories of trough galvanized cable trays, highlighting their specific usage scenarios, characteristics, advantages,

Full cable tray systems specification document

All hot dip galvanized after fabrication steel cable trays must be returned to point of manufacture after coating for inspection and removal of all icicles and excess zinc. Failure to do so can cause damage

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

Steel Cable Tray

Steel Cable Tray Steel Cable Tray systems are Certified CSA Cable Tray, UL listed, and NEMA certified and are available in the following material types 316

B-Line series pan tray catalog

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Cable Tray Fittings are designed to support cables as they transition directions. Note: Perforated slot dimensions and patterns may vary depending on tray size and type. Solid and perforated bottoms

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

Cable Tray Manufacturer in India | Industrial Cable Trays

Get Industrial cable trays manufactured in perforated and ladder types with galvanized finish, custom sizes, accessories and easy installation. Contact KP

Technical Guidelines for Cable Tray Installation and

Outdoor: Hot-dip galvanized or stainless steel trays. Corrosive/High Humidity: Aluminum alloy or fiberglass-reinforced plastic trays. Based on Load Capacity:

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Wholesale cable tray-Buy Best cable tray lots from China cable tray ...

Perforated Galvanized Steel GI Steel Cable Tray 300mmx50mm From Guangdong China Factory $ 11.69 MOQ: 10 units 8 yrs CN Supplier

Cable Tray Prices

Discover cable trays with CE certification, available in stainless steel, aluminum, and galvanized materials. Ideal for industrial cable laying.

CABLE TRAY INSTITUTE

Fabricated in numerous styles (wiremesh, ladder, ventilated trough, channel, and solid-bottom) and sizes, cable tray provides the greatest versatility among cable support systems, while offering

Cable Tray Fitting Accessories

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These fittings are typically constructed from materials like galvanized steel, stainless steel, aluminum alloy, or fiberglass-reinforced plastic (FRP). As the leading cable

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