Specifications and Models of Galvanized Channel Cable Trays

Overview

TechLine Mfg perforated angle and channel cable trays in hot-dip galvanized, aluminum, and 304 stainless steel.

Key Takeaways

Galvanized channel cable trays are typically fabricated from structural steel with a corrosion-resistant zinc coating, available in ventilated or solid designs, and comply with ASTM and NEMA standards.Material and Coating

Galvanized channel trays are made from structural quality steel, either pre-galvanized 14-gauge steel meeting ASTM A653 G90 or hot-dip galvanized steel after fabrication according to ASTM A123, ensuring corrosion resistance and durability in industrial environments . Hot-dip galvanized trays are inspected and labeled after coating to maintain quality control .

Tray Design
• Type: Channel trays are available in solid or ventilated bottoms. Ventilated trays have burr-free oblong or round perforations to allow airflow and facilitate cable tie attachment .

• Edges: Rounded edges and smooth surfaces are standard to prevent cable damage .

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• Length: Standard straight sections are typically 10–12 feet (3–3.6 m), with shorter lengths allowed for assembly flexibility .

Dimensions

• Widths: Common nominal widths are 1.5, 3, 4, and 6 inches .

• Minimum loading depth: Approximately 1.25 inches .

• Fittings: Bends, elbows, and tees are available with minimum radii of 12, 24, 36, or 48 inches, and standard angles of 30°, 45°, 60°, and 90° . Adjustable elbows are also available for custom routing.

Standards Compliance

• ASTM Standards: A123 (hot-dip galvanizing), A653 (pre-galvanized steel), A1011 (structural steel) for mechanical properties .

• NEMA VE 1/VE 2: Metallic cable tray systems and installation guidelines .

• NEC Article 392: Compliance for electrical safety .

• UL and NFPA: Equipment grounding and maintenance standards .

Accessories and Installation

• Splice plates and hardware are included with each straight section and fitting .

• Support spacing: Straight sections typically require supports at intervals not exceeding the tray length, with ventilated trays designed for easy cable tie attachment .

• Field modification: Some systems, like Eaton's KwikSplice, allow cutting and splicing without drilling, simplifying installation .

Summary

Galvanized channel cable trays provide a durable, corrosion-resistant solution for routing electrical cables in industrial and commercial applications. They are available in multiple widths, lengths, and configurations, with ventilated or solid bottoms, and comply with ASTM, NEMA, NEC, UL, and NFPA standards. Proper selection of tray width, fittings, and support spacing ensures safe and efficient cable management .

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Article Content

Channel cable tray specification document

Channel cable tray straight sections shall be constructed with ventilated flat bottom. Ventilated bottom shall be perforated with 2.25"

Channel tray

Cable channel T&B offers cable channel in solid or ventilated straight sections. Ventilated channel has burr-free oblong punched

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Galvanized Channel Cable Tray System is a high-quality cable protection and management product

26 05 36 Cable Trays for Electrical Systems

Description: This product category covers metal cable trays and metal cable tray systems intended for field assembly and for use in

GUIDE CABLE TRAYS TECHNICAL

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The galvanized wire then welded and formed into the appropriate basket tray size. Hubbell''s pre-galvanized finish performs the same

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

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Fabricated in numerous styles (wiremesh, ladder, ventilated trough, channel, and solid-bottom) and sizes, cable tray provides the

Cable Tray Specifications and Sizes

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The document specifies requirements for cable trays, including that they be fabricated from galvanized sheet steel in standard

Types of Cable Trays: Ladder, Perforated, Basket, Solid & Channel

Cable trays support insulated electrical cables in industrial and commercial settings. There are several types of cable

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Resources for Cable tray and ladder systems

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Series 1 to 5 Aluminum and Steel

2.01 General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated; with splice plates,

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A cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

Galvanized Channel Cable Tray System

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Cut the galvanized channel cable tray according to the length, and connect them with connectors. Place the galvanized channel

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