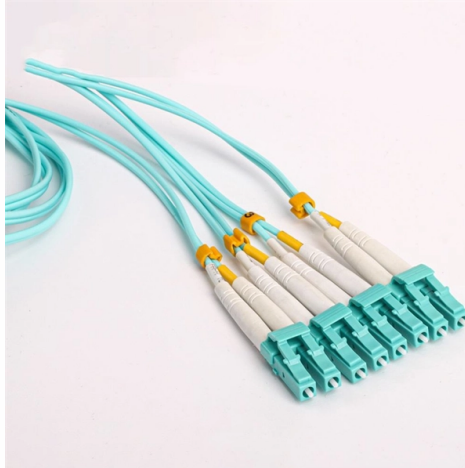


Standards for Angle Steel in Cable Tray Hangers



Overview

Four different mesh cable tray types are available, depending on the requirements, area of application and cable quantity.

Key Takeaways

Angle steel for cable tray supports and hangers is typically made from carbon steel or stainless steel, with dimensions and thickness selected based on load, span, and compliance with standards such as DIN EN 61537 and BS EN 61537.

Material and Corrosion Protection

Angle steel used in cable tray supports is generally high-quality carbon steel or stainless steel. To enhance durability and prevent corrosion, surfaces may be galvanized, powder-coated, or otherwise treated depending on environmental conditions, such as exposure to moisture, chemicals, or outdoor weather. Stainless steel is preferred in highly corrosive environments.

Dimensions and Load Considerations

Angle sizes commonly range from 25x25 mm to 50x50 mm, with thicknesses from 2 mm to 5 mm, depending on the span between supports and the weight of the cable load. Load capacity is influenced by the angle steel's cross-section, the span between hangers, and the type of cable tray (ladder, solid-bottom, or mesh). Support spacing is typically determined by the cable tray manufacturer's guidelines and standards, ensuring the system can withstand mechanical loads, including cable weight, wind, ice, and short-circuit forces.

Standards and Compliance

Cable tray supports and hangers must comply with DIN EN 61537 (Europe) or BS EN 61537 (UK) for cable management systems. Channel support systems may follow BS 6946 for safe working loads and slip resistance. Angle steel and associated fasteners should be tested as a system to ensure mechanical stability and safety.

Installation Guidelines

Angle steel is used as support brackets, wall mounts, or suspended hangers to secure cable trays to ceilings, walls, or structural beams. Mounting elements such as bolts, nuts, and channel nuts are used to attach the angle steel to the structure and cable tray. Supports should be aligned and level, and the system should allow for thermal expansion and vibration without compromising cable integrity.

Practical Recommendations

Select angle steel thickness and size based on the span and load class of the cable tray. Use galvanized or stainless steel in corrosive or outdoor environments. Ensure all components are compatible and tested together to maintain system integrity.

Follow manufacturer guidelines for support spacing, hanger type, and installation method to comply with safety standards. By adhering to these specifications, angle steel supports and hangers will provide safe, durable, and compliant support for cable tray systems in industrial, commercial, or data center installations.

Article Content

Guide to cable support systems

Four different mesh cable tray types are available, depending on the requirements, area of application and cable quantity. The innovative Magic connection system of the GRM and G-GRM mesh cable

Codes and Standards | Cable Tray Institute

The Cable Tray Institute is making available the current edition of this practical guide for the proper installation of aluminum or steel cable tray systems. These guidelines will be useful to engineers,

Best Practice Guide to Cable Ladder and Cable Tray Systems

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems, channel support systems and associated supports.

NEMA Standards Publication VE 2-2018

Attaching a channel cable tray by using the method illustrated in Figure 3-88 maintains the electrical requirements, and the bolted mechanical connection while providing a practical method for dropping

GUIDE CABLE TRAYS TECHNICAL

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®

Cable Support Distances

This provides distances for cables based on their diameter and cable type. Prysmian was instrumental in providing this information and an extract is provided in this document.

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

This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics, installation, and requirements.

Cable Tray Design and Standards Guide | PDF | Sheet Metal

The document outlines codes and standards that must be followed for design and construction of cable trays and their components. Standards listed include those for materials, rolling and cutting

NEMA BI 50016-2024

Cable tray system design shall 269 comply with National Electrical Code® (NEC®) Article 392, NEMA BI-50015 (formerly VE 1), and NEMA 270 FG 1, and follow safe work practices as described in NFPA

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The document is a catalogue for cable tray products from SFSP. It includes: - An introduction and overview of SFSP, a leading steel products factory in Lebanon established in 2011. - Descriptions of

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CABLE LAddEr TrAY

SFSP PRODUCTS SFSP produces a variety of products ranging from cable management systems; cable trays, cable ladders, basket trays, trunkings and support systems, to mechanical cladding

9 Best Ergonomic Keyboard Trays (June 2026) Expert Reviews

Discover the best ergonomic keyboard trays with our 2026 guide. We tested 9 models for comfort, adjustability, and value to help prevent wrist strain.

Cable Tray Installation Cost per Meter – Price Estimator

Understanding the cable tray installation cost per meter is essential for effective budget planning. Costs vary based on tray material (steel, aluminum, or fiberglass), size, design (ladder or

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

