Specifications and dimensions of cable tray rainproof covers

Overview

A complete guide to cable tray cover types: Compare 9+ designs, material specifications (NEMA/IEC), selection factors & maintenance best practices.

Key Takeaways

Cable tray rainproof covers are protective enclosures designed to shield cables from environmental hazards, available in various materials, shapes, and standard dimensions to suit indoor and outdoor applications.

Materials and Standards

Cable tray covers are fabricated from corrosion-resistant materials such as aluminum, mill-galvanized steel, galvannealed steel, and stainless steel (304 or 316), with optional HDGAF steel on request for heavy-duty applications.

FR

P (Fiberglass Reinforced Plastic) covers are also common, offering lightweight, UV resistance, corrosion resistance, and fire retardancy. Covers meet standards like NEC 392. 6 for cable tray installations, UL 50E for water ingress protection, and can be Class I Div 1 certified for hazardous locations.

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Cover Types and Shapes

Flat Covers: Economical, suitable for most straight sections; may be flat or flat flanged with 3/8” flanges for channel applications.

Hat-

Shaped Covers: Protect cables extending above tray flanges; available with flat solid or corrugated ventilated tops, typically 2” or 4” in height. Peaked Covers: Designed to shed snow or debris; standard peak height is 1/2”, with higher peaks available on request. Louvered Covers: Provide ventilation while protecting cables; available in flat, flat flanged, or hat-shaped designs.

Dimensions and Lengths

Standard lengths: Most covers are supplied in 12-foot lengths, with 5- or 6-foot lengths available upon request. Width compatibility: Covers are designed for 3”, 4”, and 6” wide channel applications, with flanged options for secure attachment.

FR

P covers: Ladder-type and channel-type FRP trays can be fitted with flat or peaked covers; the peaked design helps reduce snow or particulate accumulation.

Performance Features

Load resistance: FRP covers can withstand environmental loads such as snow (up to 500 lb/ft^2 in some standards) and prevent liquid pooling with a 15° slope. Environmental protection: UV-stabilized materials provide a 20+ year lifespan, and covers are moisture-proof, dust-proof, and corrosion-resistant. Thermal management: Perforated or ventilated designs allow airflow to meet IEEE 635 requirements for data centers.

Electrical shielding: Copper-clad designs can achieve up to 90 dB attenuation for EMI protection.

Installation Considerations

Covers are designed for easy installation, often requiring no welding, and can be cut or drilled on-site. They provide smooth edges to protect cables and accommodate changes in direction or elevation of cable runs. For outdoor or corrosive environments, 316L stainless steel or vinylester/epoxy FRP is recommended.

In summary, rainproof cable tray covers are available in multiple materials, shapes, and standard lengths, designed to protect cables from rain, debris, and environmental hazards while complying with safety and performance standards. Selection should consider material, cover type, width, peak height, and environmental conditions to ensure optimal protection and longevity.

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Article Content

Cable Tray Cover Types: Designs, Materials & Selection

A complete guide to cable tray cover types: Compare 9+ designs, material specifications (NEMA/IEC), selection factors & maintenance best practices.

Cable Tray Cover | 100mm & 300mm Available | Metsec

PDF file

GUIDE CABLE TRAYS TECHNICAL - Legrand

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®

Cable Tray Covers

Each outdoor cable tray with cover offers effective shielding against rain and UV exposure while maintaining proper cable ventilation. The covers are compatible

I-BEAM Rain Hood for Wall Penetration Sleeves

Welded aluminum I-beam ladder cable trays are a core solution and an iconic design in the cable tray industry. The I-beam design is the most common cable

Straight Cable Tray Covers

Ventilated Cable Tray Cover, Cablofil, CVN 300 PG Ventilated Cable Tray Cover, 12in Wide, 3.3ft Long, Cablo CVN 300PG. 1 pkg = (3) 3.3ft Covers for (1) 10ft Tray

Cable Tray Covers

MP Husky offers a wide variety of cable tray covers to provide protection for the cables contained within the system from sunlight, environmental elements, dirt, debris, and falling objects. All of the covers

Cable Tray Fitting Covers – Vantrunk

Vantrunk cable tray fitting covers are available in widths of 50mm to 900mm as standard. Covers are common for both closed and ventilated applications.

Cablofil Cover Cvn | Wire Mesh Trays | Cable Tray and Reels | Wire

Cablofil Wiremesh Cable Tray concept based upon performance, safety and economy; three qualities which make Cablofil Wiremesh Cable Tray system preferred by installers. Cablofil

Smart Cable Tray Covers: A Buyer''s Guide to Material, Fit & ROI

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Explore cable tray cover types, materials & standards to optimize safety and system ROI. Read more in our expert guide.

Cable Tray Dimensions Guide: Standard Sizes, Tray

Standard Cable Tray Dimensions Cable tray dimensions are not chosen at random. Across most global markets, they follow well-established

Cable tray manual

There are several sections which cover the requirements for the use of single conductor cables in cable tray even though they only comprise a small percentage of cable tray wiring systems.

Cable Tray

Cable Tray Cable trays are mechanical support systems that provide a rigid structural system for electrical cables, raceways, and insulated conductors used for electric power distribution, control,

LEGRAND CABLE TRAYS TECHNICAL GUIDE

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management, recommendations mentioned in this technical guide only apply to our

CABLE TRAYS

Dimensions en mm : ... 2.1 Inside 90° risers ref 6377 05/15/25/35/45/55, 6378 05/15/25/35/45/55, 6379 05/15/25/35/45 PVC figuration. With a consistent 150mm radius, they

Cable Tray Specifications for Power Project

This document provides specifications for cable trays, supports, and conduits for a 800 MW supercritical thermal power project. It specifies that cable trays must be constructed from minimum 14 SWG sheet

Cable Tray Width, Dimensions and Specifications as per NEC

Learn about cable tray width dimensions and specifications as per NEC standards. Understand types, sizes, materials, and installation guidelines for safe and efficient wiring systems Cable tray systems

Cable Trays Specifications

Find Cable Trays on GlobalSpec by specifications. Cable trays are rigid-type trays used as raceways for cables and wires.

11 Types of Cable Tray Covers and How to Choose It New

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Cable tray is a structure for supporting and organizing cables. Usually, it has another section that encloses the cables within the tray called a “cover” or “lidding” section. That is, it covers

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

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