

# Cable tray aluminum profile models and specifications



## AI Overview

Aluminum cable trays are lightweight, corrosion-resistant systems designed for safe cable management, available in ladder, ventilated, and solid-bottom models with high load capacities and easy installation. Key Specifications

**Material and Certification:** Aluminum cable trays are made from lightweight, durable aluminum, offering superior corrosion resistance and fire safety compared to steel. They are typically CSA certified, UL listed, and NEMA compliant, ensuring adherence to industry standards.

**Load Capacity:** Standard aluminum trays support high loads, with many designs accommodating an additional 200 lb concentrated load beyond the published load class. Load ratings often include a 1.5 safety factor, and deflection calculations are based on 42-inch wide trays with rungs spaced at 12-inch centers.

**Structural Design:** Ladder-type trays feature welded rungs on extruded I-beam side rails, providing high strength and flexibility. Every second rung may be reversed for easy mounting of cable ties and clamps. Ventilated trays have openings in the bottom to allow airflow, reducing cable overheating. Maximum spacing between transverse elements is typically 102 mm (4 in.). Solid-bottom trays provide full support for cables without ventilation openings, suitable for sensitive or heavy-duty applications.

**Dimensions and Span:** Aluminum trays are available in various widths and lengths. Continuous spans reduce deflection by up to 50%, and deflection factors allow calculation for lighter loads.

**Installation Features:** Fast and easy snap-in splice plates are provided with straight sections. Components and fittings, including horizontal reducers, are designed for quick assembly and secure attachment.

**Grounding:** Due to aluminum's high electrical conductivity, grounding is required to prevent electrical hazards.

**Common Models**

**Aluminum Cable Ladder:** High load capacity, welded rungs...

## Article Content

Metallic Cable Tray | PDF Catalogues | ABB Electrification Canada

Browse our T& B galvanized metallic cable tray systems. More adaptable and easier to maintain than conduit pipe, ideal for evolving wiring needs.

Channel cable tray specification document

2.05 General: Except as otherwise indicated, provide ventilated metal channel cable trays, of types, classes and sizes indicated with splice connectors, fittings and all other necessary accessories for a

CableTray Book English

T& B channel tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The

Series 1, 2, 3, 4, 5 Alum Specification Document.pdf

Construct units with rounded edges and smooth surfaces; in compliance with applicable standards; and with the following additional construction features. Cable tray shall be installed according to the latest

Aluminum Cable Tray

Because of their lighter weight aluminum cable trays are easier to install than steel cable tray.

GUIDE CABLE TRAYS TECHNICAL

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®

Aluminum Profile Cable Tray And Trunking

Aluminum Profile Cable Tray And Trunking Shandong Bolt Electrical Equipment Co., Ltd. will give you a detailed introduction to the content of Aluminum Profile Cable

A T& B Cable Tray Metallic cable tray

Introduction Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is more cost efficient, more reliable, more adaptable to changing needs and

Cable Tray Specifications and Accessories

Cable Tray Specifications and Accessories This document provides specifications for perforated and solid cable tray systems including: - Straight sections that

## PRODUCT BROCHURE T& B® Cable Tray Specialty aluminum solutions

Technical specifications Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

### Aluminum Cable Tray | EAE USA

The aluminum cable tray is a lightweight, durable, and cost-effective solution used for organizing and safely carrying electrical and data cables. With easy installation and strong corrosion resistance, it is

### CableTray Book English

Aluminum cable tray Straight lengths — Tray bottom types: ladder, ventilated and solid trough Ladder Extra wide aluminum rungs are welded to extruded aluminum I-beam side rails. Every second rung is

### Aluminum Cable Ladder Specifications | PDF | Screw

The document discusses aluminum cable ladder products from series 2, 3, 4, and 5. It provides information on straight sections, accessories, fittings, and fitting

### Aluminum Cable Tray Specifications | PDF | Mechanical

The document provides detailed specifications for aluminum cable trays, including features, accessories, material compliance, and load ratings. It outlines various

### Thomas & Betts

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is less expensive, more reliable, more adaptable to changing needs and easier to maintain.

### One-piece tray

Solid trough Fabricated from one sheet to form a continuous one-piece tray design Available in aluminum, pregalvanized steel, hot-dipped galvanized steel and stainless steel 316 Fittings are also

### KwikRail cable tray specification Document

KwikRail Aluminum Cable Tray - Specifications Section 161xx - KwikRail Cable Tray PART 1 GENERAL 1.01 Section Includes The work covered under this section consists of the furnishing of all necessary

### Aluminum Profile Cable Tray

Aluminum Profile Cable Tray Shandong Bolt Electrical Equipment Co., Ltd. will give you a detailed introduction to the content of Aluminum Profile Cable Tray,

### Cable Tray Specifications and Guidelines

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

Niedax Cable Tray

CABLE TRAY SPECIFICATIONS Cable Tray Design & Manufacture Niedax's Cable Tray Systems are designed and manufactured according to National (Indian Standard, CPR) and International

CableTray Book English

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint.

653 Series Snake Tray Aluminum Cable Tray | Snake Tray

The 653 Series Aluminum Cable Tray is a ultralight weight, high capacity cable tray system designed to accommodate customer's needs for an extra large cable tray.

Aluminium Cable Trays | EAE Electric

The aluminium cable tray weighs approximately half as much as its steel equivalent. Aluminum cable trays do not rust and are highly durable, even in saltwater

T& B Cable Tray Metallic Aluminum

Ventilated • A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the

## Contact Us

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