

Dimensions of Aluminum Profile Cable Trays



AI Overview

Aluminum cable trays are available in ladder-style and long-span designs with widths from 12" to 36", rung spacing of 6", 9", or 12", and load ratings up to 528 lb/ft depending on span and class.

General Specifications

- Material: Extruded aluminum alloy with H-beam or I-beam side rails for high strength-to-weight ratio and corrosion resistance .
- Tray Types: Ladder-style, ventilated, and long-span sections for industrial and commercial applications .
- Rung Spacing: 6", 9", or 12" centers; every second rung may be reversed for easy cable tie or clamp installation .
- Edge Design: Rounded and smooth edges to prevent cable damage .
- Ventilation: Openings in the bottom allow airflow; maximum spacing between transverse elements is 102 mm (4 in.), .

Dimensions and Load Ratings

Tray Width	Tray Depth	Rung Spacing	Load Class / NEMA	Max Load (lb/ft)	Support Span (ft)	Deflection (in.)
12"	4"-8"	12"	AH1-8528	182.13	6'18"	4"-8"
12"	4"-8"	12"	AH1-8428	202.63	7'24"	4"-8"
12"	4"-8"	12"	AH1-8353	223.19	10'30"	4"-8"
12"	4"-8"	12"	AH1-8297	243.79	13'36"	4"-8"
12"	4"-8"	12"	AH1-8253	264.45	16'6"	4"-8"
12"	4"-8"	12"	AH1-8218	285.16	19'6"	4"-8"

Note: Load ratings are based on simple span support with deflection measured at th...

Article Content

Dec 05, 2025

Aluminum Cable Tray Specifications | PDF | Mechanical Engineering

The document provides detailed specifications for aluminum cable trays, including features, accessories, material compliance, and

Apr 19, 2026

TECHNICAL AND SIZING DATA

Even though a 900 mm wide tray has six (6) times the volume of a 150 mm wide tray, it cannot carry any more cable weight. When

Oct 05, 2025

CABLE MANAGEMENT SYSTEMS CABLE TRAYS

Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder SFSP Fiberglass Reinforced Plastic (FRP) Cable Management Systems

Oct 27, 2025

CABLE TRAY

SFSP wire Basket Trays have a fast connection profile for installations requiring long runs of straight Cable Trays lengths.

Oct 31, 2025

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

Oct 29, 2025

Aluminum Cable Tray

Aluminum Cable Tray systems are lighter than steel cable tray and Certified CSA Cable Tray, UL listed, NEMA and certified.

Feb 05, 2026

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

Jun 28, 2026

Full cable tray and cable management NEMA catalog

The weight of an aluminum cable tray is approximately half that of a comparable steel tray. Some factors to consider include:

Oct 08, 2025

Cable Tray Dimensions Guide: Standard Sizes, Tray Types & Sizing

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

Apr 20, 2026

Aluminium Strut, Cable Trays and Ladder | EzyStrut

Every length of EzyStrut aluminium channel (E2000/E4000 profiles), or cable support product is

Mar 19, 2026

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

Mar 08, 2026

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

Sep 28, 2025

B-Line series pan tray catalog

Solid flanged covers should be used when maximum enclosure of the cable is desired and no accumulation of heat is expected.

Dec 15, 2025

Cable Tray Dimensions Guide: Standard Sizes, Tray Types & Sizing

Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant

Sep 22, 2025

26 05 36 Cable Trays for Electrical Systems

Cable tray layout, showing cable tray route to scale, with relationship between the tray and adjacent structural, electrical, and

Dec 04, 2025

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

Mar 29, 2026

PRODUCT BROCHURE T& B® Cable Tray Specialty aluminum solutions

aluminum cable tray in 40-foot (12.2-meter) straight sections. These longer-length cable tray sections are ideal for industrial and

Sep 23, 2025

Cable tray

ABB designs and manufactures cable tray systems, including perforated tray, cable ladder, channel tray and strut (metal framing).

Contact Us

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