

Weight Content Table of Cable Tray Supports



Article Overview

Cable tray support weights depend on tray type, material, dimensions, and open area, with typical steel trays ranging from 7-25 kg/m and aluminum trays around 3-8 kg/m.

Key Factors Affecting Cable Tray Weight

- Material: Carbon steel (~7,850 kg/m³), stainless steel (~8,000 kg/m³), aluminum (~2,700 kg/m³), FRP (~1,800-2,000 kg/m³) .
- Tray Type: Ladder, solid-bottom, perforated, or mesh trays have different metal volumes; ladder trays include two rails plus rungs, while perforated trays reduce weight by 10-35% depending on open area .
- Dimensions: Width, side height, thickness, and return flange significantly influence weight per meter. Wider and deeper trays increase kg/m more than length alone .
- Covers and Fittings: Adding covers or splice plates increases total installed weight, which must be considered for support design .

Typical Weight Ranges (Self-Weight per Meter)

Tray Type	Material	Width (mm)	Side Height (mm)	Approx. Weight (kg/m)
Ladder	Carbon Steel	100-300	50-100	7-15
Ladder	Stainless Steel	100-300	50-100	8-16
Solid/Perforated	Carbon Steel	100-300	50-100	3-8
Solid/Perforated	Aluminum	100-300	50-100	1-4
Mesh	Stainless Steel	100-600	50-150	4-18

These values are planning-grade estimates; final weights should be verified against...

Article Content

Jun 26, 2026

Cable tray manual

CABLE TRAY MANUAL Based on the 2014 National Electrical Code®† ®† Mark shown is the property of its respective owner. Table

Sep 28, 2025

Full cable tray systems specification document

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

Dec 31, 2025

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

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

Aug 22, 2025

Calculating cable tray weights and support requirements

I recently came across a situation where there were several large cables (42 500MCM cables) being run in a single

Aug 11, 2025

Cable Tray Weight Calculator for Tray Load Planning

Use this cable tray weight calculator to estimate tray load, cable mix weight, support reactions, fill area, and safety

Aug 08, 2025

Cable Tray Load and Weight Calculations

The document provides details on calculating the load capacity of cable trays installed in a plant room. It lists the length, weight, and

Mar 02, 2026

Wire Mesh Tray Technical Guide

Cablofil wire mesh tray and sup-ports are designed to support any cable load allowed by the NEC when supports are spaced on 8"

Jul 13, 2026

An In-depth Analysis for Optimal Cable Tray Support Span

This study investigates how to define the longest cable tray support span considering constructability in order to reduce

Sep 01, 2025

B-Line series pan tray catalog

For approximate solid cable tray weights multiply above steel and aluminum weights by 1.064 NA = Not Available

Jun 16, 2026

Cable Tray Load Calculation | PDF | Technology & Engineering

Cable Tray Load Calculation Cable weight per meter (daN / m) = useful cross-section of the cable support system (mm²) x is based

Jul 26, 2025

Cable Tray SHIB NAL

All cable trays and their associated supports are rated for a specific maximum weight, based partly on the allowable fill area and the

May 13, 2026

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

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

Mar 29, 2026

Cable Tray Fill and Load Calculation | PDF | Cable | Wire

Wire mesh cable tray fill table below shows the number of cables and the load in lbf / lineal foot developed by typical 4 pair and 6 pair

Feb 20, 2026

Technical information

Technical information CSA and NEMA loading classes The standard classes of cable trays, as related to their maximum design loads

Mar 26, 2026

LEGRAND CABLE TRAYS TECHNICAL GUIDE

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management,

Feb 22, 2026

GUIDE CABLE TRAYS TECHNICAL

This standard specifies the requirements and test methods for cable trays, cable ladders, supports and their accessories to ensure

Sep 20, 2025

Instrument Cable Tray Load Calculation: A Detailed Guide

Cable tray systems are essential for supporting and routing instrument cables in industrial and commercial installations. Proper load

Jan 25, 2026

Cable Tray Sizes and Weights Chart

The document provides pricing information for ladder cable tray and perforated cable tray in Indian rupees per meter for various tray

Mar 08, 2026

MP Husky Cable Tray Catalog.pdf

Using the charts on the next page, determine the correct class of tray as it relates to your desired loading capacity per foot and

Feb 28, 2026

Section 16135

Wire basket cable tray systems are defined to include, but are not limited to straight sections of continuous wire mesh, field formed

Jun 06, 2026

Cope Ladder Master Spec

Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

Aug 31, 2025

Cable Tray Weight Calculator

Compute tray weight from dimensions, thickness, and material density. Include covers, perforation, joints, and safety factor options.

May 20, 2026

Cable Tray Load and Support Calculations

The document provides specifications for cable tray and cable weights, support spacing, and live load factors. It includes calculations

Jun 30, 2026

Cable Tray Weight Calculator | Steel, SS & Aluminum

Use this reference table to quickly identify approximate weights per meter for various standard cable tray configurations. Sizing

Apr 09, 2026

B-Line series Cable Tray Design Considerations

Our wind certification report provides you with list of acceptable B-Line series cable tray supports, fittings and covers based off of the

Dec 17, 2025

Flextray load and fill recommendations

The NEC rule requires that the cable cross-sectional areas together may not exceed 50% of the tray area (width x depth = fill).

Jan 08, 2026

Choosing the right wire basket tray White Paper

When it comes to cable management, it is imperative to understand the quality and reliability of the tray. For example, wire basket

Oct 10, 2025

TECHNICAL AND SIZING DATA

Complete technical support and service for Unitray product lines. Custom sizing and non-standard tray lengths are available.

Feb 10, 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

Contact Us

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