

National Standard Deviation of Cable Tray Thickness



Article Overview

The allowable deviation of cable tray thickness is defined by national standards JB/T 10216-2000 and JB/T 10216-2013, with tolerances depending on tray width and material.

Standard Thickness and Allowable Deviations

Cable trays are manufactured in steel and aluminum, with standard thicknesses as follows:

- Steel trays: 1.0mm, 1.2mm, 1.5mm, 2.0mm, 2.2mm
- Aluminum trays: 1.2mm, 1.5mm, 2.0mm, 2.2mm, 2.5mm For ladder-type trays, the side plate, rung, and connecting plate thicknesses are considered, while for trough-type trays, the pallet, cover plate, and connecting plate thicknesses are included .

JB/T 10216-2000 Standard (Outdoor Hot-Dip Galvanized)

- Width < 100mm: minimum thickness deviation $\geq 1.0\text{mm}$
- Width > 800mm: minimum thickness deviation $\geq 2.5\text{mm}$

JB/T 10216-2013 Standard (Indoor Cold-Dip Galvanized)

- Width $\leq 150\text{mm}$: minimum thickness deviation $\geq 1.0\text{mm}$
- Width > 800mm: minimum thickness deviation $\geq 2.2\text{mm}$ These deviations repres...

Article Content

Sep 28, 2025

Technical bulletins | Cable Tray Institute

NEMA Cable Tray Technical Bulletin 5, Tie Down Practices for Multiconductor Cables in Cable Trays NEMA Boletín Técnico 5:

Feb 20, 2026

IEEE 525-2007_accepted

IEEE-SA Standards Board Abstract: The design, installation, and protection of wire and cable systems in substations are covered in

Apr 28, 2026

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

Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span),

Oct 14, 2025

What is the allowable positive and negative deviation of the national ...

2013 bridge standard is the national standard of common thickness of indoor cable tray, 2000 bridge standard is the

May 04, 2026

Document DICOS

This harmonized standard was prepared by the CANENA Technical Harmonization Committee for Metal Cable Tray Systems,

Feb 02, 2026

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]

Nov 15, 2025

Cable Tray Standards | Cable Management | Metsec

Cable Management - Cable Tray Systems Standards. Contact Our Dedicated Support Team On +44 (0)121 6016000.

Jan 06, 2026

CABLE TRAY SYSTEMS GUIDE

The total load supported by the cable tray, uniformly distributed. This will be the combined weight of all of the cables or tray contents,

Sep 21, 2025

Cable Tray Specifications and Sizes

The data sheet provides specifications for standard cable trays and accessories. Standard cable trays are 2.5 meters in length with a

Jun 03, 2026

QCS 2010: Cable Tray Specifications | PDF | Cable | Screw

It specifies that cable trays shall be constructed from hot-dipped galvanized mild steel with a minimum thickness of 1.5mm. Tray

Sep 10, 2025

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

Mar 31, 2026

What is the allowable deviation of the national standard for the ...

The thickness of the trough cable tray includes the pallet thickness, the cover plate thickness and the connecting plate

Jun 26, 2026

Codes and Standards | Cable Tray Institute

Purchase UL 568. FG 1, Fiberglass Cable Tray Systems Covers construction and test requirements for continuous, complete

May 16, 2026

Cable Tray SHIB NAL

The National Electrical Manufacturers Association (NEMA) also publishes three consensus standards that apply to the proper

Dec 30, 2025

IEC 61537:2023 | IEC

Where necessary, cable tray systems and cable ladder systems can be used for the arrangement of cables into groups. This

Aug 31, 2025

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

Jul 30, 2025

GUIDE CABLE TRAYS TECHNICAL

Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian

Apr 26, 2026

LEGRAND CABLE TRAYS TECHNICAL GUIDE

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

May 25, 2026

Cable tray manual

INTRODUCTION The B-Line series Cable Tray Manual was produced by our technical staff. We recognize the need for a complete

Jun 14, 2026

What is the national standard for the thickness of cable trays ...

The thickness standard for galvanized (steel) Cable Trays is based on GB/T 14540-2020 "Cable Trays" (the latest

Mar 03, 2026

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

Cable tray installed in a hazardous location must contain only those cables that are appropriate for this type of environment as

Mar 20, 2026

NEMA vs IEC vs BS: Global Cable Tray Standards Comparison

Note: NEMA does not specify minimum thickness —the philosophy is that if the tray passes the load test at the

Jan 05, 2026

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

Feb 23, 2026

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

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Apr 22, 2026

Codes and Standards | Cable Tray Institute

NEMA VE 2 - This standard is a practical guideline used by engineers, contractors and maintenance personnel for the proper

Jan 10, 2026

Cable Tray Size Calculation for Project Engineers

Cable tray size calculation is important for ensuring safe cable installation, proper heat dissipation, and enough spare

May 04, 2026

Cable Tray Design and Standards Guide

The document outlines codes and standards that must be followed for design and construction of cable trays and their components.

Jan 12, 2026

GUIDE CABLE TRAYS TECHNICAL

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations

Jun 23, 2026

Cable Tray Size Guide: How to Choose the Right

Complete cable tray sizing guide with standard size chart, NEC calculation methods, and real engineering

Apr 02, 2026

Cable Tray Design and Components Guide

This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge

Oct 26, 2025

What are the national standards for cable tray and the thickness ...

The thickness deviation of the plate used when the width is larger than the 800mm bridge tray can not be lower than

Jul 17, 2026

IEC 61537:2023

This document specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and

May 11, 2026

Cable tray manual

These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1,

Contact Us

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