

New National Standard for Galvanized Cable Trays

Article Overview

The latest national standard for galvanized steel cable trays is T/CECS 31-2017, which specifies galvanizing processes, zinc coating thickness, and structural requirements for industrial and civil installations.

Overview of the Standard

The T/CECS 31-2017 standard is the most recent national guideline for steel cable trays, covering both indoor and outdoor applications, as well as high and low voltage power transmission and distribution projects . It defines the galvanizing processes and the corresponding zinc layer thickness required to ensure durability and corrosion resistance under various service conditions . The standard emphasizes that hot-dip galvanizing provides superior bonding strength, compactness, and long-term maintenance-free performance compared to electroplated coatings .

Material and Structural Requirements

- For ladder-type trays with a width between 150mm and 400mm, the side plate and rung thickness must be at least 1.2mm, and the cover plate at least 0.6mm .
- For trays wider than 500mm and up to 800mm, steel trays require a bridge thickness of 2.0mm, aluminum alloy trays 2.2mm, and fiberglass trays 4.5mm .
- The service life and corrosion resistance of galvanized parts are directly related to the zinc coating thickness, which should be increased for more stringent environmental conditions

Article Content

Oct 14, 2025

IEC Standard for Cable Tray: Complete Technical Guide

Understanding the IEC Standard for Cable Tray Cable trays play a vital role in supporting

Jun 27, 2026

NEC Standards for Cable Trays: Grounding, Fill Capacity

The flexibility and scalability of cable trays make them an ideal choice for environments where cable density and

Jul 03, 2026

Cable Tray Institute

Answer: There is no NEC or other limitation on cable trays that would prevent the "Edge-Wise" orientation. The CTI needs to develop

Aug 17, 2025

Full cable tray systems specification document

Hardware shall be zinc plated in accordance with ASTM B633 SC1 for pre-galvanized cable trays, or Chromium Zinc in accordance

Feb 16, 2026

Technical bulletins | Cable Tray Institute

Technical Bulletins CTI has committed most of its energies towards support services. The Cable Tray Institute is now making

Jun 24, 2026

Galvanized Cable Tray Zinc Coating Standards and Regulations

To ensure trays arrive in "as-new" condition, industry best practice for sea-freighted trays, especially those made from

Jan 30, 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

Jan 10, 2026

Galvanized Cable Tray Zinc Coating Standards and

The galvanization process is the primary anti-corrosion treatment for cable trays. The quality

Oct 25, 2025

Cable Tray

Cable Tray Cable trays are mechanical support systems that provide a rigid structural system for electrical cables, raceways, and

Feb 15, 2026

NEMA Standards Publication VE 2-2018

The National Electrical Manufacturers Association (NEMA) Standards and guideline publications, of which the document herein is

Mar 22, 2026

Cope Ladder Master Spec

Cable Tray Hold Downs – Cable tray supported on standard 1-5/8 inch strut shall be held down with Cope style hold-down brackets.

Jul 14, 2026

What Are The Standards For Cable Tray Installation?

Cable tray manufacturers in India have to follow the standards set by NEMA that define the types of environments for

Nov 14, 2025

NEC Article 392 Guide: Ensuring Compliance for Cable Tray Systems

Master NEC Article 392 with our comprehensive guide. Learn essential cable tray requirements for installation,

Nov 27, 2025

GUIDE CABLE TRAYS TECHNICAL

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

Dec 17, 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 17, 2025

12-SDMS-06

Carbon steel cable trays intended for installation in corrosive or highly corrosive environments with severe alkaline and acidic

Sep 06, 2025

Cable Trays

What criteria apply to the design of cable trays? Cable trays are designed and installed to NEMA standards such as NEMA VE-1 for

Jul 07, 2026

IEC 61537:2023 | IEC

IEC 61537:2023 specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and

Apr 29, 2026

FAQ | Cable Tray Institute

Cable Tray System FAQs National Electrical Code Question: We have a customer who would like to install the majority of cable tray

Oct 29, 2025

NEMA BI 50016-2024

Cable tray system design shall 269 comply with National Electrical Code® (NEC®) Article 392, NEMA BI-50015 (formerly VE 1), and

Feb 19, 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

Apr 13, 2026

Cable Tray Specifications and Sizes | PDF | Galvanization

The document specifies requirements for cable trays, including that they be fabricated from galvanized sheet steel in standard

Mar 04, 2026

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

Apr 04, 2026

Essential Cable Tray Standards: Your Guide to Compliance & Safety

NFPA 70: The National Electrical Code (NEC) includes regulations related to the installation of cable trays, providing guidelines on

Oct 17, 2025

RECOMMENDED SPECIFICATIONS OF JUNCTION BOX AND CABLE TRAY

The design standard for junction boxes and cable trays in the offshore projects is based on applicable industry standards,

Sep 23, 2025

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

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

