

Cable Tray Load-Bearing Test Standards



Overview

IEC 61537 is the internationally recognized benchmark for metal cable tray systems. It applies to cable trays made of steel, stainless steel, aluminum, or other metallic materials. The standard ensures these systems can handle the physical and electrical loads they're exposed to. Cable trays play a vital role in supporting electrical cables and wires in commercial, industrial, and utility installations. For proper installation, design, and maintenance, adherence to international standards is essential. The mechanical and electrical characteristics, tests, certifications, overall quality management, recommendations mentioned in this technical guide only apply to our own cable management ranges and cannot under any circumstances be transposed to si osure, overheating or. Meka Pro measures the safe workload of the cable management systems and corresponding deflection in accordance with the IEC 61537 standard. The technical content of IEC publications is kept under constant review by the IEC.



Article Content

Oct 24, 2025

IEC 61537:2023

This document specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and accommodation of cables and possibly other electrical equipment in

Sep 01, 2025

B-Line series Cable Tray Design Considerations

Specifiers should be aware that some cable tray manufacturers do not account for this load reduction in their published cable tray load charts. Eaton's B-Line series wide cable trays use stronger rungs to

Dec 15, 2025

IEC 61537:2023

revised classification for corrosion, revised SWL test types and procedures, new tests for lengths mounted vertical running horizontal and mounted vertical running

Mar 29, 2026

Load Testing (IEC 61537)

Ensure the Load Bearing Capacity of the Entire System Cable management systems also include other parts than cable ladders and trays, which means the weakest

Aug 09, 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 calculation ensures the

Oct 25, 2025

Chapter 14 Cable Support systems

IEC61537-2004 If full details of the cabling layout are available then the likely cable load can be calculated using either manufacturer's published information or the tables of Cable Weights and

Jul 07, 2025

Load Testing (IEC 61537)

According to the standard, a safe workload may not cause visible (incl. corrective vision but without magnification) damage or cracking to the cable management

Mar 25, 2026

Document DICOS

This standards publication provides technical requirements concerning the construction, testing, and performance of metal cable tray systems. The development of this publication is the result of many

Nov 22, 2025

IEC 61537 Testing: Ensuring Reliability in Cable Tray

This international standard outlines the requirements and tests for cable tray systems used for electrical installations. Whether you're a

Mar 08, 2026

NEMA VE-1: Changes & Commentary | Cable Tray Institute

NEMA VE-1 has been revised and updated, with many significant changes that effect the way trays are tested, load rated and specified. ... In general: The document has been completely renumbered. Any

May 19, 2026

Best Practice Guide to Cable Ladder and Cable Tray Systems

The standard BS EN 61537 states that manufacturers must publish SWL (safe working load) details for their products, and specifies load test methods for determining the SWLs which can be supported by

Aug 24, 2025

Guide to cable support systems

Universal systems for cable support structures are used for small loads. The systems are suspended from the ceiling with threaded rods, stand-off brackets allow raised floor mounting of cable trays,

Dec 17, 2025

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

The Canadian Electrical Code, which publishes standards for electrical applications. Articles 12-2200 to 12-2210 cover various aspects of cable tray systems. association representing the major electrical

Feb 04, 2026

NEMA Standards | Eaton B-Line and Agilix Solutions

We partnered with the Eaton B-Line series experts for this article detailing the NEMA standards for cable tray systems.

Jun 18, 2026

26 05 36 Cable Trays for Electrical Systems

SCOPE This section includes: Metal cable trays Nonmetallic cable trays Cable tray accessories Related Requirements: Section 260010 "Supplemental Requirements for Electrical" for additional

May 31, 2026

Cable Tray Standards | Cable Management | Metsec

It should be noted that independent testing has been carried out to verify the structural performance of the cable trays at the minimum and maximum

Mar 31, 2026

Codes and Standards | Cable Tray Institute

Purchase UL 568. FG 1, Fiberglass Cable Tray Systems Covers construction and test requirements for continuous, complete nonmetallic systems of ladder, ventilated, solid bottom cable trays, or channel

Oct 05, 2025

Understanding IEC 61537: A Comprehensive Guide to

IEC 61537 does not specify exact load-bearing values for cable trays. Instead, it defines a standardized load-testing methodology and provides the following

Nov 29, 2025

LEGRAND CABLE TRAYS TECHNICAL GUIDE

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management, recommendations mentioned in this technical guide only apply to our

Nov 02, 2025

IEC Standard for Cable Tray: Complete Technical Guide

This international standard provides clear, tested, and reliable benchmarks for everything from tray strength to fire resistance and electrical

Nov 08, 2025

12-SDMS-06

4.1.2 The Metallic cable trays shall be manufactured in accordance with NEMA VE-1 standard and/or equivalent IEC standard. 4.1.3 Metallic cable trays shall be designed as a mechanical support for

Sep 25, 2025

Cable Tray Load Testing Standards

Loading Test - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document discusses load testing standards for cable trays according to

Aug 05, 2025

Cable Tray SHIB NAL

Overloading cable trays can lead to a breakdown of the tray, its connecting points, and/or supports, causing hazards to persons underneath the cable tray and even leading to possible electric shock

Mar 17, 2026

Cable Tray Load Testing: Methods, Data & Safety Checks

Cable Tray Load Testing: Methods, Steps & Safety | Learn how to test cable trays for load capacity, record data, and prevent failures.

May 18, 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] [channel type] cable trays, bends, tees, elbows, drop-outs, supports

Sep 07, 2025

Vogtle Electric Generating Plant (VEGP) Units 3 and 4 Updated ...

The tests show that for loaded trays, the damping ratio increases with increased cable loading, reaching a value of 30 percent at cable fill ratio of 50 percent to 100 percent.

Aug 17, 2025

GUIDE CABLE TRAYS TECHNICAL

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations without notice. All illustrations, descriptions and technical information

Jul 19, 2025

GUIDE CABLE TRAYS TECHNICAL

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®

Contact Us

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

Website: <https://www.regen-power.co.za>

Email: info@regen-power.co.za

Phone: +49 176 845 2036

Address: Taunusanlage 15, 60325 Frankfurt am Main, Germany

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

