

Standard Dimensions of Stainless Steel Cable Trays

Article Overview

Stainless steel cable trays are available in standard widths from 50mm to 900mm, with heights from 25mm to 150mm and material thickness varying by duty class and application.

Standard Widths and Heights

Stainless steel cable trays are manufactured in ten standard widths: 50mm, 75mm, 100mm, 150mm, 225mm, 300mm, 450mm, 600mm, 750mm, and 900mm . Heights (or sidewall depths) generally range from 25mm to 150mm, depending on cable volume, ventilation requirements, and tray type . Ladder trays often have higher sidewalls for load support, while perforated and wire mesh trays prioritize ventilation and flexibility.

Material Thickness and Duty Classes

Material thickness varies according to the duty class of the tray: light, medium, or heavy duty. Heavy-duty trays typically require 2.5mm or greater thickness with reinforced side rails to support larger power cables and higher loads . Stainless steel grades commonly used are 304 and 316, chosen for corrosion resistance and suitability in harsh environments such as offshore, petrochemical, and food processing facilities .

Standard Lengths and Rung Spacing

Cable trays are usually supplied in standard lengths of 3 meters or 6 meters, with rung spacing for ladder trays typically around 102mm (4 inches) to ensure proper cable support and airflow . Perforated trays have continuous bottoms with ventilation openings, while wire mesh trays offer flexible layouts for data and telecom cables .

Compliance and Selection Considerations

Standard dimensions follow NEC, NEMA, and IEC guidelines, ensuring compatibility, safety, and ease of installation . When selecting a tray, consider:

- o Total cable cross-sectional area and fill ratio to prevent overcrowding and overheating.
- o Future expansion requirements to avoid costly retrofits.
- o Environmental conditions to choose the appropriate stainless steel grade and duty class.

By adhering to these standard dimensions and guidelines, stainless steel cable trays provide reliable cable support, proper ventilation, and long-term structural integrity across industrial, commercial, and specialized applications.



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

Stainless steel cable trays resist corrosion, rust, chemicals, UV, water, high temperature and any other

EzyStrut perforated cable trays are the strongest in their class with 20 mm return sides on all straight lengths, providing optimum

During severe fire conditions, steel or stainless steel cable tray will remain intact and provide support longer than aluminum or

Explore the types of cable trays, their advantages, applications, and standard sizes. Learn how they improve cable

Stainless Steel Stainless Steel 1.4301 (304) Stainless Steel 1.4404 (316L) Cleaned (Pickled & Passivated) Applying a pickling

Covers are available in all material types: Aluminum, Steel (pre-galvanized), Stainless, and Paint Ready. Covers provide protection

Our manufactured systems are made in various finishes using a range of materials including mild steel pre-galvanised as standard

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports

Custom sizing and non-standard tray lengths are available.

Selecting the right cable tray size is critical for electrical safety, system efficiency, and cost control. This

Stainless Steel: Straight section and fitting side rails and rungs shall be made of AISI Type stainless steel. Transverse

Hardware shall be AISI Type 316 stainless steel. Ladder Cable Trays shall consist of two longitudinal members (side rails) with

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300mm, 450mm, 600mm,

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

STANDARD PERFORATED CABLE TRAY Suitable for power and data cable routing in industrial, commercial, and infrastructure

Web: <https://www.kremgroup.co.za>

