

How to Choose the Size of Stainless Steel Cable Trays



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

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

Website: <https://www.tomor.eu>

Email: info@tomor.eu

Phone: +49 69 2381 5497

Address: Am Hauptbahnhof 10, 60329 Frankfurt am Main, Germany

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