

201 Stainless Steel Cable Tray Wall Thickness



Overview

201 Stainless Steel Cable Tray Load-bearing capacity depends on material thickness (commonly 1-3 mm for 201 grade) and support spacing (typically 1.5-3 m).

Key Takeaways

The typical wall thickness for 201 stainless steel cable trays ranges from 1.0 mm to 2.0 mm, depending on tray width and load requirements.

201 stainless steel is an austenitic alloy with lower nickel content and higher manganese and nitrogen, making it a cost-effective option for indoor cable tray installations. It offers moderate corrosion resistance and good mechanical strength, suitable for dry, climate-controlled environments such as offices, data centers, and retail spaces (Qionghai) .

Standard Wall Thickness

- Common thickness: 1.0 mm is standard for cable trays up to 300 mm in width (B-Line series) .
- Wider trays: For trays exceeding 300 mm, wall thickness may increase to 1.2 mm or more to maintain structural integrity and load-bearing capacity.

- Load considerations: Thicker walls are used for trays supporting heavier cables or longer spans, ensuring compliance with safety factors and mechanical standards.

Comparison with Other Stainless Steel Grades

- SS304 and SS316: These grades offer higher corrosion resistance and are often used in humid, saline, or industrial environments. Wall thicknesses are similar, but SS201 is preferred for budget-conscious indoor applications where extreme corrosion resistance is not critical .

Practical Recommendations

- Indoor use: 1.0–1.2 mm is sufficient for most office or commercial installations.
- Outdoor or high-humidity environments: Consider SS304 or SS316 with similar or slightly thicker walls to prevent rust and maintain longevity.
- Fabrication and installation: SS201 is easier to fabricate and weld at these thicknesses, but care should be taken to avoid brittleness during deep drawing or bending . In summary, 201 stainless steel cable trays typically use 1.0 mm wall thickness for narrow trays and up to 2.0 mm for wider or heavily loaded trays, making them suitable for indoor, low-corrosion environments while balancing cost and strength requirements.

Article Content

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SS201 is most cost-effective for indoor, dry applications, but for areas exposed to moisture or chemicals, thicker walls or higher

Stainless Steel Cable Tray

Thickness: 0.5mm - 3.0mm. Stainless steel cable trays are suitable for laying cables in chemical and purification plants, refineries,

B-Line series pan tray catalog

Solid flanged covers should be used when maximum enclosure of the cable is desired and no accumulation of heat is expected.

Cable Tray Technical Guide A practical guide to product selection

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

SS (Stainless-Steel) Cable Tray | Harsha Group

Available in various sizes and configurations, Harsha Group's SS cable trays are suitable for different cable routing needs.

CABLE MANAGEMENT SOLUTIONS CM201-425-8 Cable Tray

The 201 Series Snake Tray® is utilized both below raised floors and overhead either mounted to walls or suspended from the ceiling,

201 Stainless Steel Cable Tray

201 stainless steel cable tray is a durable and cost-effective solution for cable management in industrial and commercial settings.

201 Stainless Steel Cable Tray Wall Thickness

The 201 stainless steel cable tray from DongKuo is a professional, cost-effective solution for cable management. It is certified by

Cable Trays and Accesories

SFSP manufactures a wide range of products capable of providing the characteristics which respond to the proposed application,

CABLE TRAY

SFSP produces a variety of products ranging from cable management systems; cable trays, cable ladders, basket trays, trunkings

Steel Cable Tray

Steel Cable Tray systems are Certified CSA Cable Tray, UL listed, and NEMA certified and are available in the following material

CABLE TRAY SYSTEMS GUIDE

The Ladder Tray features light, rugged, tubular steel construction. It is designed for mechanical support and strain relief in long runs

Cable tray manual

Metallic cable trays are readily available in aluminum, pregalvanized steel, hot-dip galvanized after fabrication, and stainless steel.

STANDARD SPECIFICATION E-30-11

Channels for cable tray mounting shall be formed from stainless steel complying with BS EN 10088-2 Grade 1.4401 (ASTM Grade

Cable Tray Technical Guide A practical guide to product selection

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

Steel cable tray

The flexible coupler provides easy installation without measuring and cutting cable tray side rails. Once installed, the coupler allows

cable tray technical specifications cable tray

stainless steel 304 & 316 tray 8-1: 2014 without a post treatment. The European standard that lists the chemical composition of

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