European Stainless Steel Cable Tray Span



Overview

Wide Span Cable Trays WRL Wide span cable tray, 150x200x6000 mm, t=1,5 mm, perforated, steel, hot dip galvanised DIN EN ISO 1461. EAN 4013339590506. Eurost.

Key Takeaways

The recommended span for European stainless steel cable trays typically ranges from 1. 5 m to 3 m depending on tray type, width, load, and support conditions.

Material and Construction Considerations

European stainless steel cable trays are commonly made from AISI 304 or 316 stainless steel, with ladder-type trays consisting of two longitudinal side rails and transverse rungs welded at standard intervals of 150 mm, 225 mm, or 300 mm (6", 9", 12"),. The trays are designed to support concentrated loads of up to 200 lb per rung with a safety factor of 1. 5, and straight sections are often fabricated as I-beams for added rigidity.

Widths typically range from 150 mm to 900 mm (6" to 36"),.

Span Guidelines

The span of a cable tray is the distance between two consecutive supports. For stainless steel trays in Europe: Ladder trays: Standard spans are generally 2 m to 3 m for light to medium loads, with shorter spans required for wider trays or heavier cable loads. Perforated or solid-bottom trays: Spans are usually 1.

5 m to 2. 5 m, depending on the load and deflection limits. Deflection limits: European practice often limits deflection to L/200 of the span, where L is the distance between supports.

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The actual span depends on tray width, cable weight, and installation environment. Wider trays or trays carrying heavy power cables may require closer support spacing to prevent excessive deflection or vibration.

Installation and Safety

Stainless steel trays are suitable for indoor and outdoor applications, including industrial and marine environments. Open or perforated designs help reduce overheating and allow for easier maintenance. Splice plates and hardware should be stainless steel to maintain corrosion resistance and structural integrity.

Practical Recommendations

Always consult the manufacturer's load tables for the specific tray system, as spans can vary by design and material thickness. Consider environmental factors such as temperature, wind, and seismic loads, which may require reduced spans. For critical installations, perform a structural calculation to ensure compliance with deflection limits and safety factors.

By following these guidelines, European stainless steel cable trays can be installed safely and efficiently, ensuring long-term durability and reliable cable support.

Article Content

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Series 3 & 4 Stainless Steel Specification Document

Rung spacing in radiused fittings shall be industry standard 9" and measured at the center of the tray''s width. Each rung must be capable of supporting a 200 lb. concentrated load at the center of the cable

Load Tables | Cable Management | Metsec

Range of Load Tables for Metsec Cable Tray Systems for the mechanical and electrical services industry. For any queries, contact our team on +44 (0)121 6016000.

B-Line series pan tray catalog

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Cable Tray Fittings are designed to support cables as they transition directions. Note: Perforated slot dimensions and patterns may vary depending on tray size and type. Solid and perforated bottoms

GUIDE CABLE TRAYS TECHNICAL

If it has excellent electrical continuity and is integrated in the installation''s equipotential bonding system, a metal cable tray reduces the coupling''s impact and thus contributes to good EMC of the electrical

Cable tray,Stainless steel, 70 mm | Wibe group

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

Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span), and handling and installation constraints.

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