

Article Overview

Proper installation of cable tray supports in Romania requires adherence to spacing, load, and safety standards, using suitable materials and tools to ensure secure, compliant, and durable cable routing.

Key Considerations

Cable tray supports are essential for maintaining the structural integrity of cable installations and ensuring safe, organized routing of power, communication, and signal cables . In Romania, cable trays are typically made of galvanized steel or aluminum, with standard lengths of 3 meters and widths ranging from 50 to 600 mm . Supports must accommodate the weight of cables and allow for future additions.

Support Types and Materials

- o Wall brackets: Fixed to walls for horizontal runs.
- o Suspended supports: Threaded rods or hangers from ceilings.
- o Center supports: For long spans to prevent sagging.
- o Materials: Galvanized steel, stainless steel, or aluminum, often with perforations for ventilation and drainage .

Installation Steps

- o Planning and Layout: Obtain approved shop drawings showing tray routes, dimensions, installation height, and support locations . Maintain at least 300 mm vertical clearance between multiple layers of trays to prevent interference between electrical and telecommunication systems .
- o Marking and Leveling: Use a laser or chalk line to establish a level line for support placement. Transfer floor markings to ceiling or soffit using a plumb bob .
- o Support Spacing: Supports should be placed according to the tray type and load. Maximum spacing is typically 1.5-2 meters for straight runs, with closer spacing (e.g., 600 mm) near bends, tees, or heavy cable concentrations .
- o Mounting Supports: Drill holes in concrete or steel structures using appropriate drill bits. Install threaded rods, Unistrut channels, or brackets, securing with nuts and washers. Ensure supports are level and aligned .
- o Tray Installation: Place cable trays on supports, using splice plates at joints. Avoid placing splice plates at midpoints of gaps; ideally, install at one-quarter of the span between supports . Ensure electrical continuity every 18 meters and proper grounding.
- o Bending and Accessories: Use bends, tees, and reducers to change direction or width. Respect the minimum bending radius of the largest cable in the tray to prevent damage .
- o Final Checks: Verify alignment, level, and secure fastening. Ensure trays are accessible for maintenance and inspection. Perform visual inspections periodically to check for corrosion or mechanical damage .

Safety and Compliance

- o Workers should wear gloves, steel-toed footwear, and follow safety protocols during installation .
- o Do not cut or drill structural members without approval from the general contractor .
- o Ensure supports meet load requirements for current and future cable additions .
- o Romanian cable trays often comply with CE marking, ONFR-AFER, and other local certifications .

Maintenance

Once installed, cable trays require minimal intervention. Regular visual inspections and cleaning are sufficient to maintain performance and prevent overheating . By following these guidelines, cable tray supports in Romania can be installed safely, efficiently, and in compliance with local and European standards, ensuring long-term reliability of electrical and communication systems.

The TRAY systems are suitable for manufacturing closed cable routes for industrial and civil sites. The Tray system components are

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