

Article Overview

Large-span cable trays in North Macedonia require careful planning, proper support spacing, adherence to standards, and consideration of local market availability and environmental conditions.

Technical Considerations

Cable tray systems are used to support and route electrical and communication cables efficiently. For large spans, the trays must be mechanically supported to prevent sagging and ensure safety. Typical materials include steel or stainless steel, often with galvanization for corrosion protection, suitable for industrial environments and varying weather conditions . Cable trays can be ladder, perforated, or mesh types, with fittings for horizontal and vertical bends, T-pieces, crossovers, and end closures . Support and spacing are critical for large spans. Supports such as wall brackets, suspended supports, and center suspensions should be installed at intervals to prevent sagging, typically no more than 1.2 meters apart for standard trays, with additional support at bends, branches, and offsets . Expansion joints and bonding jumpers are required for long runs, especially outdoors, to accommodate thermal expansion and maintain electrical continuity .

Installation Best Practices

- o Site Preparation: Ensure the area is cleared and civil works are completed before installation. Mark tray routes according to approved shop drawings, maintaining horizontal and vertical runs and avoiding clashes with other services .
- o Material Handling: Store trays horizontally on flat surfaces with timber supports at 1-meter intervals, protecting them from moisture and sunlight .
- o Cable Pulling: Use the conductor for pulling medium voltage cables, not the insulation, and employ tension meters to monitor pulling forces. Low voltage cables should follow industry-standard pulling methods .
- o Rigging and Safety: Temporary supports may be required for rigging. Cable trays should not be used to support rigging loads .

Local Market and Supply

The North Macedonian cable tray market is growing, with multiple suppliers providing trays, ducts, and accessories. Market trends indicate increasing demand for industrial and commercial installations, with competitive pricing and availability of standard and custom solutions . Local suppliers can provide guidance on material selection, certifications, and compliance with European and local standards.

Summary

For large-span cable tray installations in North Macedonia, it is essential to:

- o Select appropriate tray types and materials for environmental and mechanical loads.
- o Follow proper support spacing and installation methods to prevent sagging.
- o Adhere to standards such as NEMA VE 2 and manufacturer guidelines for bonding, grounding, and expansion.
- o Coordinate with local suppliers for material availability and compliance with local regulations . Proper planning and adherence to these practices ensure durable, safe, and efficient cable tray installations suitable for industrial and commercial projects.

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This report analyzes the North Macedonian plastic cable trays and ducts market and its size, structure, production, prices, and trade.

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Cable trays are typically manufactured from galvanized steel, stainless steel, or aluminum, with perforated, solid, or wire mesh

Engineered for long distance cable routing, long-span cable tray offers high load capacity and strong



Large-span cable trays in North Macedonia

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