

Finnish mesh cable trays are easy to install



Overview

Cable tray: Wall support YPK is used to attach cable ladders to walls from above. Cable trays are attached to wall support YPK with M6x30 screws and M6 nuts.

Key Takeaways

Finnish mesh cable trays should be installed according to SFS 6000 standards and MEKA® guidelines, ensuring proper support, load distribution, and compliance with local electrical safety regulations.

Standards and Regulations

In Finland, mesh cable tray installations must comply with SFS 6000 “Low voltage electrical installations” and relevant ST cards, including ST 51. 13 for cable trays, ladders, and lightning tracks, and ST 53. 21 for earthing and potential equalization.

These standards ensure that installations are safe, fire-resistant, and mechanically stable.

General Installation Guidelines

Qualified Personnel: Only trained professionals familiar with electrical contracting, construction practices, and safety standards should perform the installation.

Load and Deflection: The load on each tray span must not exceed the manufacturer's specified maximum. Deflection should not exceed 1/100th of the span; for example, a 3-meter span may deflect no more than 30 mm, including a 50% allowance for existing cable load.

Support and Fastening: Mesh trays can be mounted on walls, ceilings, or floors using brackets, hangers, or adjustable supports. Ensure that the fastening points are compatible with the surface material and can bear the load. **Component Compatibility:** Use only matching components from the same system to maintain structural integrity and corrosion resistance.

Avoid mixing different manufacturers' parts. **Cable Installation:** Trays are intended solely for cable support. Do not use them as walkways or ladders, and avoid attaching safety harnesses or other equipment to the trays.

Tool Usage: Avoid impact wrenches or overtightening bolts to preserve the corrosion protection and structural integrity of the tray.

Practical Considerations

Bends and Branches: Mesh trays allow easy creation of bends, T-intersections, and X-intersections due to separable wires and flexible mesh design.

High-

Current Cables: When installing high-current cables, use appropriate clamps and follow KS80 or KSF80 ladder specifications. **Storage and Handling:** Store trays in a dry environment and handle carefully to prevent damage to protective coatings.

References for Installation Manufacturer-specific instructions, such as MEKA® mounting guides, provide step-by-step procedures for wall, ceiling, and beam attachments, including adjustable angles and joint connections.

Ensure compliance with fire-resistant cable system requirements (ST 51. 06) and soundproofing or fire insulation in lead-through installations (ST 51. 18.

01 and ST 51. 18. 02) when applicable.

By following these guidelines, Finnish mesh cable trays can be installed safely, efficiently, and in full compliance with local standards, ensuring long-term reliability and protection of electrical cables.

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Cable trays are attached to wall support YPK with M6x30 screws and M6 nuts. 00:32 Wire mesh tray joint WMT CL is used to attach wire mesh tray to the wall support YPK.

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