

Reinforcement Solution for Cable Tray Supports in Factory Buildings



AI Overview

Reinforcing cable tray supports in factory buildings involves proper selection of materials, support spacing, mounting methods, and adherence to standards to ensure mechanical stability and safety under heavy cable loads. Key Considerations for Reinforcement

- 1. Material Selection:** Cable trays are typically made from steel, stainless steel, or aluminum, with various galvanization or protective coatings to resist corrosion in industrial environments. Stainless steel (AISI 316L) or hot-dip galvanized steel is preferred for high-strength and corrosion resistance, especially in harsh factory conditions.
- 2. Support Spacing and Load Capacity:** Support spacing depends on the tray type, width, and cable load. Standard guidelines suggest:
 - Cable ladders and trays: Supports every 1.5 to 3 meters for typical loads.
 - Heavy-duty or densely loaded trays: Reduce spacing to 1-1.5 meters to prevent sagging.
 - Cantilever or pendant brackets: Use additional reinforcement for long spans or heavy cable bundles.
- 3. Mounting Methods:**
 - Ceiling-mounted trays: Use threaded rods, cantilever brackets, or ceiling brackets with verified fasteners. Reinforce with U-profiles or head plates for longer spans or higher loads.
 - Wall-mounted trays: Cantilever brackets with proper adapters (e.g., KAWG 12) can be reinforced with additional threaded rods or angled supports.
 - Direct rod suspension: For heavy trays, M10 or larger threaded rods can be anchored directly to the ceiling or structural beams.
- 4. Reinforcement Techniques:**
 - Spacer bars or stiffeners: Increase rigidity of tray rails to prevent bending under heavy loads.
 - Double supports or parallel brackets: For wide trays or high cable density, use dual support points to distribute weight.
 - Cross-bracing: In long runs, cross-bracing between supports can reduce lateral movement and vibration.
 - Fire-rated supports: In critical areas, use supports and fasteners that maintain circuit integrity...

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Guide to cable support systems

Cable support systems for cable support structures are used to bridge large loads and support spacings and to create complex section routes. The systems allow large support spacings of wide span systems

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