

Article Overview

For concrete support frames of cable trays, M16 anchors are recommended for secure fastening and load-bearing capacity.

Overview of Cable Tray Support Frames

Cable tray support frames are designed to mechanically support cable trays, ladders, and trunking systems in industrial, commercial, or marine installations. They ensure proper routing, separation, and protection of electrical and communication cables while maintaining compliance with standards such as DIN EN 61537 and BS 6946:1988 . Support frames can be mounted on ceilings, walls, or floors, and are typically made from steel or stainless steel with galvanization or other corrosion-resistant coatings .

M16 Anchor Usage

For concrete support frames, the use of M16 anchors is specified to provide sufficient mechanical strength and stability for the cable tray system . Key points include:

- o Anchor Type: M16 bolts or expansion anchors suitable for concrete substrates.
- o Load Capacity: M16 anchors are capable of supporting medium to heavy cable tray loads, depending on tray width, cable weight, and spacing.
- o Installation: Anchors are inserted into pre-drilled holes in the concrete and tightened to secure the support frame. Proper torque must be applied to ensure stability.
- o Spacing: Anchor spacing should follow manufacturer guidelines and standard support construction practices to maintain structural integrity and prevent sagging .

Support Frame Components

A typical cable tray support frame includes:

- o Cantilever or C-channel brackets: Connect the tray to the anchor points.
- o Threaded rods or suspension systems: For ceiling-mounted trays.
- o Couplers and fasteners: To join tray sections and secure them to the frame.
- o Accessories: Covers, barrier strips, or cable protection rings as needed .

Practical Considerations

- o Material Finish: Pre-galvanized or hot-dip galvanized steel is recommended for corrosion resistance .
- o Custom Lengths: Support frames can be fabricated to specific lengths to match project requirements.



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- o Compatibility: Ensure the M16 anchors and support frame components are compatible with the cable tray type (ladder, perforated, or solid-bottom trays), .
- o Safety Compliance: Follow local electrical and building codes, including fire protection and mechanical load standards . Using M16 anchors in concrete support frames ensures a robust, reliable, and code-compliant installation for cable tray systems, suitable for industrial and commercial applications.

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Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

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SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

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IEC 61537 covers cable tray and cable ladder systems for the support and accommodation of cables, while NEC Article 392 governs

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