Installation Method of Anti-corrosion Plastic Cable Trays



Overview

The choice of method should be discussed with a local inspector. The best decision may be to extend only the cables, creating a discontinuity in the cable tray.

Key Takeaways

Anti-corrosion plastic cable trays should be installed with careful handling, proper support spacing, and alignment to ensure durability and safe cable management.

Pre-

Installation Preparation

Material Inspection: Upon delivery, inspect trays, fittings, and supports for physical damage, dirt, oil, or corrosion. Ensure coatings are intact and trays comply with approved submittals and specifications. Storage: Store trays horizontally on a flat surface with timber supports at intervals of about 1 meter.

Cover to protect from direct sunlight and moisture. Documentation: Verify availability of shop drawings, material submittals, inspection requests, and method statements before starting installation.

Planning and Layout

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Route Planning: Mark the tray route according to the electrical design, considering clearance, load capacity, and separation from other services. Tray Type Selection: Choose ladder, perforated, or solid-bottom trays based on cable type, load, and environmental conditions. Plastic trays are preferred in corrosive environments for their resistance to chemicals and moisture.

Sizing: Calculate tray width and depth based on cable count and spacing to prevent overcrowding and overheating.

Installation Steps

Support Installation: Mount brackets, hangers, or supports at recommended intervals (typically 1. 5–3 meters depending on tray type and load). Ensure supports are level and aligned.

Tray Placement: Position trays on supports carefully to avoid bending or scratching the surface. Use manufacturer-approved hardware for connections. Alignment: Check vertical and horizontal alignment using spirit or laser levels.

Ensure trays are straight and free from sagging. Joining Sections: Connect tray sections using approved fittings. Ensure joints are secure and maintain continuity of the tray system.

Cable Laying: Lay cables neatly, using cable ties or straps to separate by voltage or function. Leave slack for expansion or future adjustments.

Safety and Quality Checks

Conduct a toolbox talk and safety briefing before starting work. Barricade work areas and follow HSE procedures. Inspect installed trays for alignment, secure fixings, and absence of damage.

Maintenance Considerations

Regularly check for dirt, damage, or sagging. Ensure supports remain secure and trays are free from obstructions. Plastic trays require minimal corrosion maintenance but should be cleaned periodically to maintain longevity.

By following these steps, anti-corrosion plastic cable trays can be installed safely, ensuring durable, organized, and compliant cable management in industrial or commercial environments.

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To install the cable tray supports, first find the required elevation from the floor to the bottom of the cable tray and establish a level line with a laser or a nylon string.

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