

Moldova Fire Cable Tray Installation



Overview

Cable tray installation must comply with specific technical standards to ensure electrical safety, system reliability, and long-term maintainability.

Key Takeaways

Fire-resistant cable trays in Moldova should be installed using proper layout planning, fireproof materials, and precise firestopping techniques to ensure safety and compliance.

Planning and Layout

Proper route planning is essential. Cable trays should follow the shortest and straightest path, avoiding unnecessary crossings or detours, and segregating power and signal cables to minimize electromagnetic interference. Coordination with the building structure is critical to ensure alignment with architectural and mechanical systems.

Approved shop drawings should be reviewed to confirm tray layout, length, and location before installation begins.

Material Selection

Indoor trays: Painted steel or galvanized steel
Outdoor trays: Hot-dip galvanized or stainless steel
Corrosive/high-humidity environments: Aluminum alloy or fiberglass-reinforced plastic
Tray width and thickness must support the weight and number of cables without deformation. Fire-resistant materials include fire-rated boards, firestop packs, firestop mastic, and mineral wool.

Installation Requirements

Trays must be level, plumb, and securely mounted with horizontal deviation $\leq 2\text{mm/m}$ and vertical deviation $\leq 3\text{mm/m}$. Cable trays and busways at floor or slab penetrations require a waterstop of at least 50 mm and firestopping of 20–30 mm, with a fire-support plate installed at the top. Reserved openings should be sized correctly, typically 100 mm larger than the tray dimensions, to allow effective sealing.

Steel protective plates (≥ 4 mm thick) should extend 200 mm beyond tray dimensions, treated with anti-rust paint and fireproof coating.

Firestopping Techniques

Gaps between firestop packs and cables should not exceed 1 cm^2 , with packing thickness ≥ 24 cm. Firestop materials must be layered and tightly packed, covering all gaps inside and around metal trunking. Cover plates should be square, evenly painted, and securely fixed to maintain fire integrity.

Fireproof mortar should be applied evenly to avoid compromising sealing effectiveness.

Quality Control and Safety

Inspect all materials on-site for damage or discrepancies before installation. Ensure tools and equipment comply with contract requirements. Verify that fireproof boards, steel plates, and firestop materials are securely fixed and properly treated.

Maintain clear access for maintenance and ensure layout facilitates future inspections. By following these guidelines, fire-resistant cable trays in Moldova can achieve optimal fire protection, structural reliability, and compliance with safety standards.

Article Content

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