# Fireproofing and Sealing Quota for Cable Trays



## Overview

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

## Key Takeaways

Cable tray fireproofing requires sealing gaps with fire-resistant materials, maintaining a minimum packing thickness of 24 cm, and ensuring gaps do not exceed 1 cm² around cables.

### Fireproofing Requirements

Cable trays and busways must be protected against fire propagation using fire-rated boards, firestop packs, firestop mastic, or fire-resistant mineral wool. These materials form a barrier that prevents flames and smoke from spreading through walls, slabs, or shafts where cables pass ( ). Fire protection coatings and tapes, such as FLAMMOTECT-A or DG-CR 0.

7, can also be applied to enhance resistance to fire, UV, moisture, and chemicals while maintaining cable functionality during a fire ( ).

### Sealing Quotas and Dimensions

Gap Area: The space between firestop packs and cables should not exceed 1 cm² ( ). Packing Thickness: Firestop packs should have a minimum thickness of 24 cm to ensure adequate fire resistance ( ). Waterstop: For cable trays at floor level, a waterstop of at least 50 mm is recommended, while slab penetrations require 20–30 mm of firestopping with a fire-support plate installed at the top ( ).

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Cover Plates: Openings should be closed with square, evenly painted cover plates to ensure a complete seal ( ).

### Installation Guidelines

Complete floor and wall finishes in the electrical shaft and install shaft doors before firestopping ( ). Install fire-resistant backing plates for large openings to support the firestop material ( ). Ensure all gaps inside and around metal trunking or cable trays are tightly sealed both internally and externally ( ).

Use intumescent caulks or putty, such as 3M Fire Barrier Moldable Putty+ or IC 15WB Caulk, to seal penetrations and protect structural steel and cables from heat ( ).

### 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 ( ).

Fireproofing materials should be compatible with the tray type and environmental conditions to ensure long-term reliability and compliance with fire safety standards ( ).

### Summary

To meet fireproofing and sealing quotas for cable trays: maintain tight, crack-free seals, use fire-resistant materials with adequate thickness, limit gap areas to 1 $cm^2$, and install support plates and cover plates where necessary. Proper selection of materials and adherence to installation standards ensures both fire safety and functional integrity of cable systems during emergencies ( ).

## Article Content

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Firestopping Requirements for Cable Trays and Wall/Slab Penetrations

The gap area between firestop packs and cables should not exceed 1 cm2, and the packing thickness should be not less than 24 cm. All gaps inside and around metal trunking must be

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