

Fireproof sealing materials for vertical shaft cable trays



Article Overview

Modern fireproof sealing for vertical shaft cable trays combines intumescent materials, modular firestop systems, and precise installation techniques to prevent fire and smoke spread in high-rise buildings.

Key Materials and Systems

Intumescent Caulks and Mastics: Products like IC 15WB Caulk expand under heat to seal gaps around cables and trays, effectively containing fire and smoke at the penetration point. These are suitable for both new construction and retrofits, and can be applied with standard caulking tools for precise sealing (Eaton).

Firestop Packs and Mineral Wool: Fire-resistant mineral wool or firestop packs are used to fill larger gaps in vertical shafts. Packing thickness is typically at least 24 cm, and gaps between packs and cables should not exceed 1 cm² to ensure integrity. Fire-resistant backing plates may be installed for large openings to support the seal (AllPCB).

Modular Sealing Systems: Systems like FIRSTO and NOFIRNO provide modular, pre-engineered solutions for multi-cable and cable tray penetrations. These systems use expanding rubber sleeves combined with fireproof sealants to create a tight, reliable seal that is easy to assemble around existing cable runs. They are designed for vertical shafts and can accommodate multiple cables or pipes through the same penetration (CSD Sealing Systems).

Coatings and Elastomeric Sheets: FISSIC Coating® is a water-based, APEO-free fire retardant coating that protects metal surfaces and cable trays from fire and corrosion. 3M Fire Barrier Moldable Putty+ combines elastomeric sheets with steel mesh and aluminum foil for enhanced fire r...

Article Content

Firestopping cable runs

In any installation, properly firestopping breached firewalls and floor-to-floor raceways is necessary. Following proper procedures and

Firestop

Our premium, intumescent latex/water-based caulk. This is an affordable firestop caulk that helps you stay on budget. Its unique

3M™ Fire Barrier Composite Sheet CS-195+ | 3M

Sheets combine 30-gauge steel, intumescent material, wire mesh and aluminum foil and are easy to

Fire Protection For Cables: Fire resistance & fireproofing

AS3000 is the primary design standard used for NCC/BCA compliance; this is our wiring rules for electrical

Fire protection for cables & cable trays | Flamro

Fire protection for cables and cable trays: effective solutions to prevent cable fires
Cable systems are

Trunking and Cable Tray Protection

Additionally, many modern trunking and cable tray systems are designed with built-in fire barriers or

Passive fire protection system with fire-proof cable and pipe seals ...

Roxtec cable and pipe entry seals provide certified protection against multiple hazards – including smoke and fire. The

Fire sealing cable penetrations

Cable penetrations and fire safety There are many different types of cables and cable penetrations that can

Cable Penetration Seals | ZAPP-ZIMMERMANN GmbH

Cable penetration seal up to EI 120 for rigid walls, rigid floors and flexible walls.
Through penetration

Fireproof pillow for cable tray penetrations

AF BAGS are intumescent and ablative fireproof pillows certified under EN 1366-3 for EI 120/180 sealing of

Fire protection for cables & cable trays | Flamro

Fire protection solutions to protect cables, cable trays and cable systems. Discover our tested cable

Cable transit frames and penetration sealing systems

Seal cable penetrations with our modular firestop solutions, designed to create water-, smoke- and gas

Firestop

The following charts give the number of 3M pillows needed to completely firestop an opening that cable tray passes through.* Two

Cable penetration seals in fire protection

Find out why cable penetration seals are essential in fire protection. We offer specialist expertise throughout Germany

Firsto System | CSD Sealing Systems

FIRSTO firestops are designed to seal multi-cable and cable tray penetrations of fire-rated walls and floors. FIRSTO fire stops are

CSD Sealing Systems: Firestops

Multi-cable and Cable-tray Firestop Penetrations CSD FIRSTO® firestops are designed to seal multi-cable and cable tray

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Firestopping Cable Installations Don't introduce fire hazards when working on a new project. Ensuring your cable runs don't

Pressure Exerting Sealant | Pyroplex | Fire resistance up to 240 minutes

Approval Type: IFC Certification No. IFCC1029 Pyroplex Pressure Exerting Sealant expands multi-directionally when exposed to

Cable and pipe seals

Where to use Roxtec? You find roxtec cable and pipe seals in many applications throughout the construction industry. Discover the

Performance Evaluation of Cable Shaft Fireproof Sealing System in

The effectiveness of fireproof sealing systems in preventing the spread of fire in high-rise building cable shafts relies

Fire Rated Cable Coatings and Penetration Sealing

Fire Rated Cable Coatings and Penetration Sealing Protective Coating Systems are specialists in Fire

Vertical Cable Tray Installation

Complete vertical cable tray installation guide: materials, grounding, firestop, and GB standards compliance for

Promat Fire Stopping Handbook

ed seal for walls and floors. It is designed to be used with single cables, cable bundles or combustible and non-combustible pipes to

Performance evaluation for fireproof sealing system of cable shaft in ...

The fire in the cable shaft has the characteristics of fast spread, great fire hazard, and high difficulty in extinguishing. And the

Fire protection cable penetration seals | Discover now

Cable penetration seals are important construction products for establishing preventive structural fire

How do Sealing module fireproof sealing kits prevent fires in wires and ...

The holes through which the cables pass through the walls, bottoms of trays, and shafts are tightly sealed with fire

Performance Evaluation of Cable Shaft Fireproof Sealing System

The test platform measures changes in temperature, humidity, and smoke mass during fire tests to compare the

Performance evaluation for fireproof sealing system of cable shaft in ...

Therefore, based on the entropy method, this paper proposes a performance evaluation system for the fireproof sealing system of

Guide to Fire-blocking Sections (Fire Sections/Fire Partitions) of ...

In the power industry, the installation of fire-blocking sections (fire-proof sections/fire-proof partitions) on cable trays is

Technical Guidelines for Cable Tray Installation and

Periodically inspect outdoor trays for rust, moisture accumulation, or UV damage reproof trays require

Technical Guidelines for Cable Tray Installation and

Cable tray installation must comply with specific technical standards to ensure electrical safety, system

Trunking and cable tray protection

Our range of trunking and cable tray protection products provide effective fire protection for pipes, cables

Contact Us

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