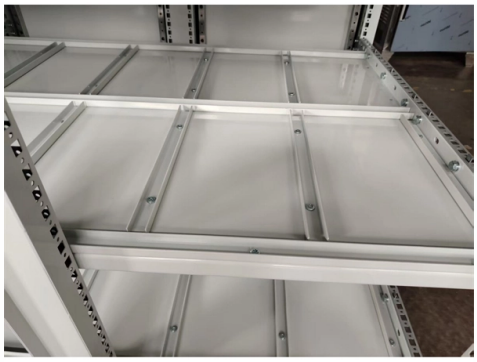
Fireproof sealant sealing of cable tray openings



Overview

FLAMRO® penetration sealing systems are suitable fire protection solutions for cables of all types, cable trays, racks, and ladders as well as electrical installation conduits.

Key Takeaways

Fireproof sealants and systems for cable trays include intumescent pillows, acrylic sealants, coatings, and modular sealing systems, all designed to prevent fire and smoke spread while maintaining cable functionality. Intumescent PillowsAF BAGS are intumescent and ablative fireproof pillows certified under EN 1366-3 for up to EI 240 fire resistance. They consist of a non-combustible fiberglass casing filled with intumescent compounds, thermal insulators, and water-release products.

These pillows can be inserted directly into cable tray penetrations, even in thin structures, without requiring a frame around the perimeter. They are suitable for cables up to 21 mm in diameter and allow easy repositioning for maintenance or modifications.

Fireproof Coatings and Tapes

Products like FLAMMOTECT-A and DG-CR 0. 7 provide a protective coating or tape around cables inside trays. These solutions prevent flame propagation, maintain cable functionality during a fire, and protect against environmental factors such as UV, moisture, and chemicals.

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They are suitable for indoor and outdoor applications, including industrial, hospital, and offshore facilities. Intumescent Acrylic SealantsFireStop Intumescent Acrylic Graphite 682 is an acrylic-based sealant that expands when exposed to heat (starting at +200°C), effectively blocking smoke and fire. It is ideal for sealing cable penetrations before finishing works and can be used in combination with fire-rated PU foam for enhanced protection.

Modular Sealing Systems

Systems like CSD Sealing Systems and KBS offer modular solutions for multi-cable or cable tray penetrations. These systems use expanding rubber inserts, sealants, or mortars to create fire, gas, and water-tight seals. They are designed for easy installation around existing cables and can adapt to different diameters and penetration types.

KB

S solutions, for example, ensure that steel tube temperatures do not exceed 180 K within 90 minutes of fire exposure, complying with EN 1366-3 standards.

Installation Considerations

Measure the cable tray dimensions and select the appropriate size and number of pillows or sealant volume. Ensure the sealing depth meets the certified fire rating (e.g., 120 mm for AF BAGS). For coatings or tapes, apply evenly around all cables to maintain continuous protection.

Modular systems should be assembled around the cable run and secured to the wall or floor as per manufacturer instructions. Always verify that the chosen solution is compatible with the cable type, tray material, and fire rating requirements.

Summary

For sealing inside cable trays, intumescent pillows are ideal for quick, repositionable solutions, acrylic sealants provide flexible fireproofing for joints, coatings and tapes protect individual cables, and modular systems offer robust, multi-cable penetration protection. Selecting the right solution depends on cable diameter, tray configuration, fire rating requirements, and maintenance needs.

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Article Content

Fire protection cable penetration seals | Discover now | Flamro

FLAMRO® penetration sealing systems are suitable fire protection solutions for cables of all types, cable trays, racks, and ladders as well as electrical installation conduits.

Fireproof pillow for cable tray penetrations

The product is certified for "small" - "medium" and "large" cable penetrations, to create a fireproof seal for cables with a diameter of up to 21 mm ("small") with a

Firestopping Requirements for Cable Trays and Wall/Slab Penetrations

Sealing shall be tight and reliable, without visible cracks or voids. For large openings, install a fire-resistant backing plate before sealing. Layout and positioning must be reasonable to

Firestop

Use this product in new construction or update your fire protection in a renovation - the optional mounting bracket opens easily allowing retrofit installations. As your needs change, reuse the device

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 developed as a modular system which is simple to assemble around

Fire protection for cables & cable trays | Flamro

Fire protection solutions to protect cables, cable trays and cable systems. Discover our tested cable coatings and fire protection bandages!

Fireproofing cable penetrations Penosil solutions

To ensure the fire-resistant sealing of cable penetration before finishing works, an intumescent acrylic should be used. FireStop Intumescent Acrylic Graphite 682 – an acrylic-based intumescent sealant

KBS – Cable Fire Protection and Penetration Sealing | Wolman

KBS ® Pipe Seal M collars effectively ensure protection against the passage of fire and smoke in the event of fire. This fire stopping solution ensures that flames and smoke gases cannot spread to the

Fire rated wall | If

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Sealing of penetrations should be included as a separate task in all projects and included in the day-to-day maintenance routine. The work should not be regarded as completed until the quality of the

Cable penetrations seals | Wolman

Fire stopping of cable penetrations Avoid cable fires and stop them safely! KBS ® offers various solutions to effectively protect cable penetrations from the passage of flames and smoke. In most

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Firestopping Cable Installations Don''t introduce fi re hazards when working on a new project. Ensuring your cable runs don''t compromise established barriers is often your responsibility.

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 cable tray penetrations.

CSD Sealing Systems: Firestops

Multi-cable and Cable-tray Firestop Penetrations CSD FIRSTO® firestops are designed to seal multi-cable and cable tray penetrations of fire-rated walls or floors. FIRSTO® utilizes a metal frame that

What are the methods for fire sealing of elements within a building''s ...

This article considers the methods for fire sealing where wiring systems and openings are made within the building fabric during electrical installation work. One of the most commonly

Cable penetration seals in fire protection

Fire protection sleeves: These are fitted around cables and expand in the event of a fire to seal the openings and prevent the spread of fire.

Fire protection cable penetration seals | Discover now

Cable penetration seals are important construction products for establishing preventive structural fire protection in buildings. They ensure that openings in

Firestopping cable runs

Firestopping through concrete barriers, installing wall boxes and using cable trays are the most common problems in this area. Firestopping cable trays is particularly difficult because of the irregular size and

Fire Rated Cable Coatings and Penetration Sealing

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Fire Rated Cable Coatings and Penetration Sealing Protective Coating Systems are specialists in Fire Rated Cable Coatings & Penetration Sealing Firestop Mortar is

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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