

Cable tray air defense sealing



Overview

AF BAGS are intumescent and ablative fireproof pillows certified under EN 1366-3 for sealing up to EI 240 of cable tray penetrations.

Key Takeaways

Cable tray air defense sealing involves using fireproof pillows, pressure-exerting sealants, and modular frames to create airtight, fire-resistant, and weatherproof barriers around cable tray penetrations. Fireproof Sealing Solutions

Intumescent pillows like AF BAGS are designed to seal cable tray penetrations in walls, floors, and sandwich panels. They expand under heat to prevent fire and smoke passage, providing protection up to EI 240 according to EN 1366-3 standards. AF BAGS are suitable for cables up to 21 mm in diameter and can be installed in thin structures without additional framing. They are repositionable, non-toxic, and facilitate maintenance or modification of cable systems. Pressure-exerting sealants, such as Pyroplex, expand multi-directionally when exposed to high temperatures, sealing around single or bunched cables and small pipes. These sealants are halogen-free, odorless, and provide fire resistance up to 240 minutes. They are ideal for internal applications and can be combined with coatings for enhanced protection.

Modular and Weatherproof Systems



Modular firestop systems like Hilti's cable transit frames create water-, smoke-, and gas-tight barriers for industrial and offshore projects. These systems are designed for easy installation around multiple cables and can be adapted to different penetration sizes. Weatherstop frames from CSD are suitable for outdoor environments, using corrosion-resistant steel frames with water-resistant pads and silicone-based sealants. They provide a weathertight seal for cable trays, conduits, and bus ducts, allowing easy maintenance without additional parts. These systems are NEMA-rated up to 4X and are non-toxic, halogen-free, and suitable for hazardous or wet conditions.

Installation Considerations

- Measure the cable tray dimensions to select the appropriate size and number of sealing units or pillows.
- Ensure surfaces are clean and dry before applying sealants or installing frames.
- Follow manufacturer guidelines for sealing depth, fire rating, and compatibility with wall or floor materials.
- Allow for maintenance access, especially when using repositionable pillows or modular frames. By combining these solutions, cable tray penetrations can be effectively sealed against fire, smoke, air, and water, ensuring compliance with safety standards and maintaining system integrity in industrial, commercial, and offshore environments.

Article Content

Fireproof pillow for cable tray penetrations

AF BAGS are intumescent and ablative fireproof pillows certified under EN 1366-3 for sealing up to EI 240 of cable tray penetrations.

CSD Sealing Systems: Weatherstops

WSP units accept any cable size and quantity. Our units install before or after tray and cable. Cable maintenance and changes are

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

Cable transit frames and penetration sealing systems

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

FYLLOFOAM

The foam rubber is used as alternative for mineral wool systems and as sealing system for installations where cable trays or cable

Cable and pipe seals

With 430 tests and approvals and 285 registered certificates, according to standards like ul 1479 and En 1366, we are the leading

Firestop

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

Cable Entry Seals: A Complete Beginner's Guide

Cable entry seals are protective barriers designed to safeguard cables where they pass through walls, enclosures, or equipment

Efficient Cable Tray Sealing System for Industrial Applications

The cable tray sealing system provides robust solutions for managing cable and pipe penetrations in fire-rated

Device seal with tray cable. Needed or not?

Device, Union, seal, then cable gland to open air tray cable is how they are installed. Sounds like you're closing the

CSD Sealing Systems: Firestop & Weatherstop Products for Multi-cable ...

Multi-cable and Cable-tray Penetrations We are the exclusive United States supplier of quality firestop and weatherseal products for

Cable Tray Penetration Seals Manufacturers and Suppliers in

Manufacturer of cable, pipe penetration, and sealing transit products suitable for explosion, pressure, and fire protection. Products

Cable Tray Technical Guide A practical guide to product selection

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Cable and pipe seals

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

Roxtec Cable Seals

The Roxtec sealing system for equipment, cable and duct penetrations provides certified protection against multiple risks. Use it in

Seals on Cables in Tray from Non-Haz to Haz

Another simpler way, is to run cable tray from the MCC up over top of the Compressor Enclosure and towards the

Cable tray sealing through walls

Cable tray sealing through walls Cable trays provide essential routes for power and data cabling in modern infrastructure. However,

Plan, Install & Firestop Cable Penetrations

Firestop mortar around the tray and pillows within the tray area provide an economical solution for these firestop

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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

