

Fire Stopping Compartmentation Systems

FLAMO PILLOWS



TRIA

description

FLAMO PILLOWS are an ideal product to create a temporary or permanent fire barrier around all types of services to prevent the passage of fire through a compartment wall or floor, especially suitable where services are continuously being changed or replaced.

FLAMO PILLOWS are filled with organic fillers and intumescent additives in a waterproof non-combustible cloth bag.

intended use

The specific elements of construction that the system FLAMO PILLOWS may be used to provide a penetration seal in, are as follows:

- Fire Resistance EN 1366-3 EI 120 and BS 476 - 240mins.
- Fire Classification EN13501-2.
- Fire resistance tested in rigid walls & floors.
- Tested with Metallic Pipes, Cables, Cable Bunches, Cable Trays and Cable Ladders.

key product points

- Acoustic Isolation EN10140 - 46dB.
- Air Permeability EN1026 - 420Pa.
- Reaction Temperature 180°C.
- High Expansion Ratio.
- Remains flexible between -20°C to +130°C.
- Moisture resistant lining.
- Suitable for indoor and outdoor locations up to 1m².
- Contributes to Green Building.
- Non-combustible and non-toxic.
- Ease of installation and long life.

installation

Ensure that the aperture and services in question are tested with FLAMO PILLOWS, and the site conditions are within the application specification. All services and apertures need to be clean and clear of all dust and loose particles. The aperture temperature needs to be at 5°C or above at time of installation. Install the FLAMO PILLOWS in such a way that all joints are staggered in each layer until you have filled all gaps within the wall. Pack pillows tightly into the opening around the services to a minimum depth of 150mm. Always ensure that large voids are completely filled and FLAMO PILLOWS are installed in a manner that ensures a tight compression fit.

PRODUCT TECHNICAL DATA

Description	Result	Test Standards
Packaging	Sizes as above table in boxes of 25 or 50	
Colour	Silver	
Fire resistance	EI 120, 240mins	EN 1366-4, BS 476
Insulation	120mins	EN 1366-4
Classification	EN 13501-2	
Acoustic isolation	46dB	EN 10140
Air permeability	420Pa, 100Pa 22.8/31.1 m ³ /h/m ²	EN 1026
Expected shelf life	N/A	N/A

SIZE AND QUANTITY CHART

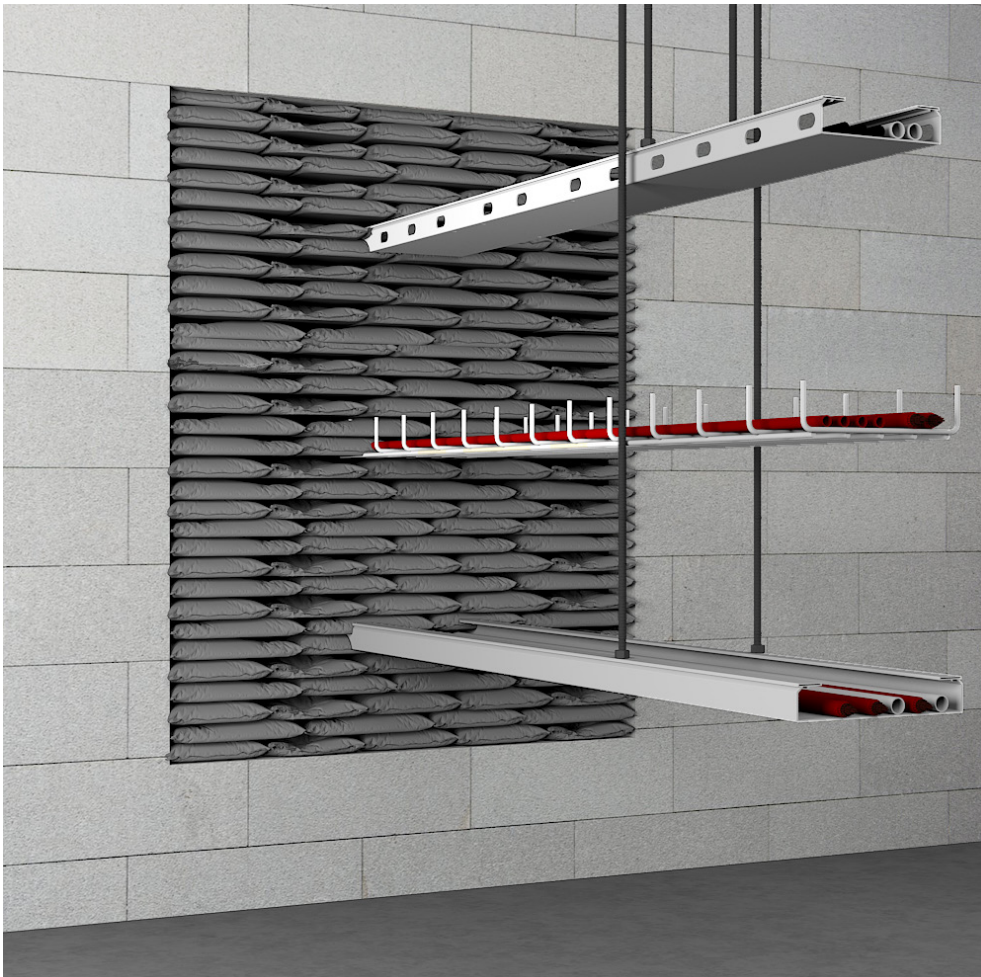
	Large	Small	Sausage
Form supplied	330mm x 200mm x 45mm	330mm x 200mm x 25mm	330mm x 50mm x 20mm
Weight supplied	385gms	185gms	50gms
Estimated quantity required per m ²	113 in Wall or Floor	180 in Wall or Floor	As required to fill small voids

substrates

Masonry / Concrete walls or Drywalls.
All walls shall have at least the same fire resistance as that required for the sealing system.

rigid wall

FLAMO PILLOWS PENETRATION SEALS 300 MM DEEP, IN RIGID WALLS	
Services	Classification
Telecom cables up to 21mm Ø (single or bundles up 100mm Ø).	EI 120
Electrical cables up to 21mm Ø.	EI 120
Electrical cables up to 80mm Ø.	E 120, EI 90
Unsheathed wires up to 24mm Ø.	EI 120
Steel or Copper conduits and tubes up to 16mm Ø.	EI 120
Plastic (any) conduits and tubes up to 16mm Ø.	EI 120
Cables trays or ladders up to 300mm wide.	E 120, EI 60
Cables trays up to 500mm wide.	E 120, EI 90



FLAMO PILLOWS PENETRATION SEALS 300 MM DEEP, IN RIGID WALLS

Services	Classification
165mm Ø mild steel pipe.	E 120

FLAMO PILLOWS PENETRATION SEALS 300MM DEEP, IN RIGID WALLS

Services	Classification
48mm Ø steel pipe with 300mm Local Interrupted (LI) Thermal Defense Wrap 7mm thick.	EI 120
113mm Ø steel pipe with 300mm Local Interrupted (LI) Thermal Defense Wrap 10mm thick.	EI 120

FLAMO PILLOWS PENETRATION SEALS 300MM DEEP, IN RIGID WALLS

Services	Classification
108mm Ø copper pipe with 2 layers of insulation.	EI 120

FLAMO PILLOWS PENETRATION SEALS 300MM DEEP, IN RIGID WALLS

Services	Classification
54mm Ø copper pipe with 2 layers of insulation.	EI 120

FLAMO PILLOWS PENETRATION SEALS 300MM DEEP, IN RIGID WALLS

Element of construction	Services	Integrity	Insulation
Walls with same fire resistance as that required for the sealing system.	Telecom cables up to 21mm Ø (single or bundles up to 100m).	120 minutes	120 minutes
	Electrical cables up to 21mm Ø.	120 minutes	120 minutes
	Electrical cables up to 80mm Ø.	120 minutes	90 minutes
	Unsheathed wires up to 24mm Ø	120 minutes	120 minutes
	Steel or Copper conduits and tubes up to 16mm Ø.	120 minutes	120 minutes
	Plastic (any) conduits and tubes up to 16mm Ø.	120 minutes	120 minutes
	Cable tray/ladder up to 300mm wide.	120 minutes	60 minutes
	Cable tray up to 500mm wide.	120 minutes	90 minutes
	54mm Ø copper pipe with 15mm insulation.	120 minutes	120 minutes
	108mm Ø copper pipe.	120 minutes	90 minutes
	48mm Ø mild steel pipe.	120 minutes	120 minutes
	113mm Ø copper pipe.	120 minutes	120 minutes
	165mm Ø mild steel pipe.	120 minutes	—

information

TRIA has Technical Representatives who provide assistance in the selection and specification of TRIA products. For more information, specification and technical advice please call our Head Office geral@tria.pt. Guarantee / Warranty: TRIA products are manufactured to rigid standards of quality. Any product which has been applied in accordance with TRIA's written instructions and in any application

recommended by TRIA, but which is proved to be defective in product quality, will be replaced free of charge. No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct. TRIA reserves the right to alter product specifications without prior notice, in line with our Company policy of continuous development and improvement.

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