

**FIREPRO<sup>®</sup>**

# INTUMESCENT PILLOWS CE

Temporary firestop solution for service voids in walls





## **FIREPRO® INTUMESCENT PILLOWS CE**

**ROCKWOOL Intumescent Pillows CE provide up to 2 hours (EI 120) fire protection for differing services.**

They are designed to provide fire stopping to metal services, plastic conduits and cables passing through fire resisting compartment walls.





### Advantages

- Easy to install
- Easy to remove and reinstate when changing services
- Maintenance free
- Dry system

### Description

FIREPRO® Intumescent Pillows CE consist of intumescent material encased within a waterproof glass cloth bag. Intumescent Pillows CE are designed to create a temporary or permanent fire seal around all types of services to maintain continuity of fire performance of compartment walls. They are an ideal solution for applications where services are required to be changed or replaced on a regular basis.

Easy to install, they are simply packed tightly in between penetrating services and the wall.

### Applications

Under fire conditions, Intumescent Pillows CE expand several times their original volume to form an effective seal around service penetrations.

Intumescent Pillows CE are suitable for use with:

- Metal pipework
- Plastic conduits
- Cable trays/ladders

*Note: For applications inside metal cable trunkings please contact ROCKWOOL.*



## Performance

### Fire performance

ROCKWOOL Intumescent Pillows CE provide up to 2 hours fire rating where services pass through fire-rated walls.

**Table 1**

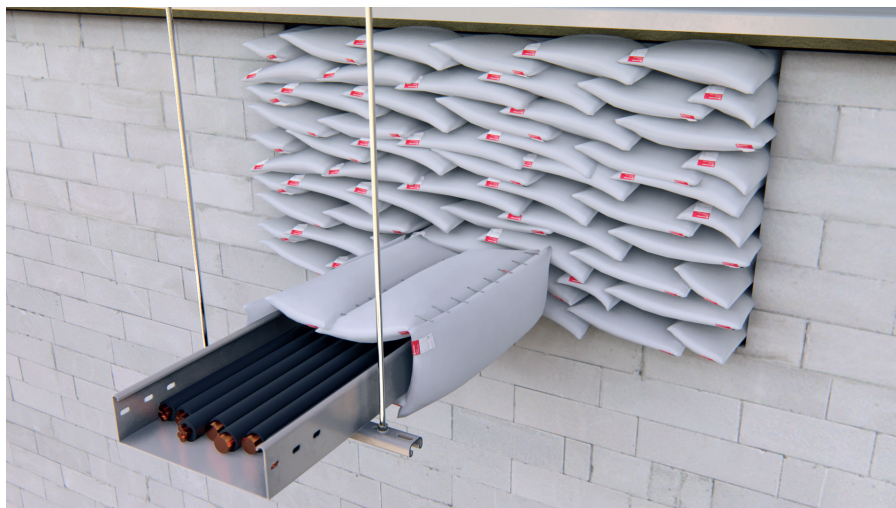
Performance in Masonry Supporting Walls - BS EN 1366-3:2009

Rigid wall construction 150mm thick (min.) Intumescent Pillow CE seals 330mm deep laid centrally within the aperture with 75mm projection from each face of wall. Additional FIREPRO® Intumescent Pillows CE to be sewn to provide additional protection to the cable to minimum distance of 300mm either face of the seal.

Services	Fire Resistance (min)	
	Integrity (E)	Insulation (I)
Telecom cables up to 21mm Ø (single or bundles up to 100mm Ø)	120	120
Electrical cables up to 21mm Ø	120	120
Electrical cables up to 50mm Ø	120	90
Electrical cables up to 80mm Ø	120	90
Unsheathed wires up to 24mm Ø	120	120
Steel or Copper conduits and tubes up to 16mm Ø	120	120
Plastic (any) conduits and tubes up to 16mm Ø	120	120
Cable trays or ladders up to 300mm wide	120	60
Cable trays up to 500mm wide	120	90
108mm Ø x 1.5-14.2mm thick copper pipe (C/U)*	120	90

*Note: Maximum aperture size 1100mm x 1100mm.*

Minimum density masonry walls - 650kg/m<sup>3</sup> 330mm bag length to be laid horizontally in wall void. Bags should be laid centrally within all wall thicknesses.



**Figure 1**

**Table 2**  
Performance in Masonry Supporting Walls - BS EN 1366-3:2009

Rigid wall construction 150mm thick (min.) Intumescent Pillow CE seals 330mm deep laid centrally within the aperture with 75mm projection from each face of wall.

Services	Fire Resistance (min)	
	Integrity (E)	Insulation (I)
165mm Ø x 5.6-14.2mm thick mild steel pipe (C/U)*	120	0
48mm Ø x 3.5-14.2mm thick steel pipe with 300mm local interrupted (LI)** foil faced ceramic blanket 7mm thick (C/U)*	120	120
113mm Ø x 4.5-14.2mm thick steel pipe with 300mm local interrupted (LI)** foil faced ceramic blanket 10mm thick (C/U)*	120	120

**Note: Maximum aperture size 1100mm x 1100mm.**

All pipes tested according to EN 1366-3 have been tested with a specific pipe end configuration. All pipes have been tested U/C unless otherwise stated in the tables.

The EN test standard EN 1366-3 states, "it is important to ensure that sealing systems have been tested with appropriate pipe end conditions."

The specification of pipe closure devices will be determined based on the scope of test data and whether the pipework is ventilated or not.

**Key:**

- \* The product can withstand temperature travelling along the service.
- \*\* LI - Local interrupted - insulation installed upto face of pillows.
- U/U = Uncapped inside and outside the furnace.
- U/C = Uncapped inside and capped outside the furnace.
- C/U = Capped inside and Uncapped outside the furnace.

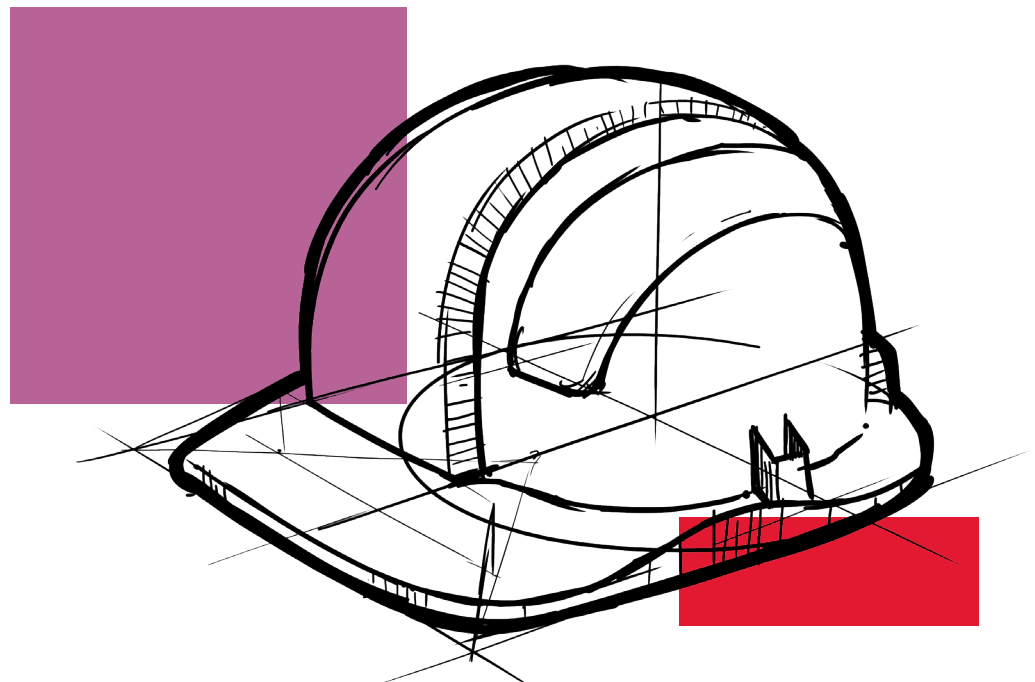
## Technical information

### Standards and approvals

FIREPRO® Intumescent Pillows CE have been tested in accordance with BS EN 1366 Part 3: March 2009 achieving fire resistance of up to 2 Hours (EI120) in walls and dependent upon service type - see Tables 1 & 2 (pages 4 & 5).

### Product information

Property	Description
Length	330mm
Width	50mm, 200mm
Thickness	20mm, 25mm, 45mm
Fire Resistance	Up to 2 hours integrity and insulation (EI120)
Application	Internal
Shelf Life	N/A if stored in cool, dry, well ventilated area
Acoustic	Airborne Sound Insulation $R_w$ (C,Ctr) = 33 (0,-2)
Air Permeability	Tested to EN1026



## Installation

### Installation in walls

1. Push the first Intumescent Pillow CE into the hole to be filled, so that the longest dimension (330mm long) spans across the wall with 75mm projection from either face.
2. Pack the hole tightly with additional Intumescent Pillows CE, staggering the joints, until it is tightly packed.
3. For wall penetrations, the pillows are normally self supporting, but for large openings with few penetrations, you may require a steel retaining mesh for support on both sides of the penetration.
4. Smaller pillows are used as appropriate to fill smaller gaps.

### Installation of service penetrations

1. The total amount of cross sections of services should not exceed 60% of the penetration area.
2. The minimum permitted separation between adjacent seals/apertures is 200mm.
3. Pipes must be installed singular, cables require no minimum separation.
4. Services in walls shall be supported via steel angles/hangars/channels a maximum 250mm (BS EN 1366-3:2009) or a maximum 500mm (BS 476:Part 20:1987) from the face of the separating element.
5. Pipes must be perpendicular to the seal surface.

Plastic conduits or trunking should be cut short by at least 100mm either side of pillow seal.

### Coverage

**Table 4**  
Estimating quantities.

Pillow size (mm)	Approximate number
330 x 200 x 45	113 per m <sup>2</sup> opening
330 x 200 x 25	180 per m <sup>2</sup> opening
330 x 50 x 20	As required to fill small voids

## Specification clauses

FIREPRO® Intumescent Pillows CE are associated with the following NBS clauses:

- P12 Fire stopping systems
- 345 Intumescent pillows

## Disclaimers

This product should only be utilised for applications as outlined in the relevant ROCKWOOL product datasheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally, the product must be installed in accordance with the current ROCKWOOL guidelines.

For further information please visit [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact our Technical Solutions Team on 01656 868490.

## Supporting information

For further information relating to any aspect of the FIREPRO® range, please refer to the applicable ROCKWOOL standard details at [www.rockwool.co.uk](http://www.rockwool.co.uk) or contact the ROCKWOOL technical solution team on 01656 868490 or [technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

## Sustainability

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:

## Health & Safety

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC: ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from [www.rockwool.co.uk](http://www.rockwool.co.uk) to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

## Environment

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.



**Fire resistance**



**Acoustic comfort**



**Sustainable materials**



**Durability**



## Interested?

For further information, contact the Technical Solutions Team on 01656 868490 or email [technical.solutions@rockwool.co.uk](mailto:technical.solutions@rockwool.co.uk)

Visit [www.rockwool.co.uk](http://www.rockwool.co.uk) to view our complete range of products and services.

*Copyright ROCKWOOL September 2020*









February 2021

**ROCKWOOL Limited**

Pencoed  
Bridgend  
CF35 6NY

Tel: 01656 862 621  
info@rockwool.co.uk  
rockwool.co.uk

