

## INTUMESCENT FIRE PILLOWS - Installation Guide



### Introduction

The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of service penetrations in walls and floors using the Astro Fire Pillows.

All service holes through floors and compartment walls must be fire stopped to prevent the passage of fire, smoke and hot gases.

The key points for intumescent passive fire protection products are :-

- Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin.
- Maintain the integrity of escape routes from a building.
- Reduce loss or damage to property from the effect of fire and smoke.
- Maintain pressure differential between compartments and ventilation channels
- Suitable for wall or floor installation
- Fire barrier for up to 2 hours to BS 476 Part 20
- Non combustible and therefore non toxic
- Remains flexible between -20°C and 130°C

### The ASTRO Fire Pillow System

The Astro Fire Pillows are filled with organic fillers and intumescent additives in a water proof, flexible glass cloth bag on the outside. Various pillow sizes enable a temporary or permanent seal to be achieved for most aperture sizes, accommodating service penetrations.

Astro Fire Pillows are designed to accommodate services which need to remain flexible or have a need to be removed from the aperture on a regular basis.

Up to 600mm<sup>2</sup> 4 Hour Rated, up to 850mm<sup>2</sup> 2 Hour Rated - vertical or horizontal.

### Availability

| Sizes   | Dimensions           | Product Code |
|---------|----------------------|--------------|
| Large   | 300mm x 200mm x 40mm | AFFPL        |
| Medium  | 300mm x 150mm x 40mm | AFFPM        |
| Small   | 300mm x 100mm x 40mm | AFFPS        |
| Sausage | 300mm x 50mm x 40mm  | AFFPSAS      |

## Installation

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### Wall Wall Seals

Four sizes of Astro fire pillow are available, ensure that the correct pillow is installed to suit the opening size.

Shake the pillows to give an even distribution of the infill material before installation.

Lay pillows in to the opening with the shortest span across the width of the opening, so that they are in a brick format. Ensuring that the lower layer is overlapped by the top layer.

Pack pillows in to the opening around the services to the required quantity, adding smaller pillows where necessary to fill all small voids. Do ensure that all voids are completely filled

All cable/electrical trunkings are to be filled using the Astro FP sausage pillow.

Ensure records of all installations are kept.

Pack pillows 300mm deep.

### Floor Seals

Install a galvanised steel mesh 50 x 50 x 5mm to the underside of the void with a 100mm overlap of the floor slab. Fix the mesh in to place using 50mm steel strap or 50mm steel angle, securing with 8mm rawl bolts or similar. Also fit wire mesh to the top of the floor penetration.

Four sizes of Astro fire pillow are available, ensure that the correct pillow is installed to suit the opening size.

Shake the pillows to give an even distribution of the in fill material before installation.

Lay pillows flat in to the opening around the services to the required quantity having a minimum depth of 150mm, adding smaller pillows where necessary to fill all small voids. Do ensure that all voids are completely filled.

Pillows to be laid in brick form allowing the top pillows to overlap the lower layer of pillows.

Fill all cable/electrical trunkings using the Astro Sausage Pillow.

Ensure records of all installations are kept.

ASTRO FP Large Fire Pillow Usage - Table 1:

ASTRO FP Small Fire Pillow Usage - Table 2:

## Compliance

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Astro FP Fire Pillows are manufactured in the EU, meeting the highest quality standard in compliance with ISO EN 9001:2000 . For fire test certification contact Astroflame Fireseals technical department.

## Fire Test or Assessment Reports

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BS Standard 476 Part 20.  
EN1366-3  
NHBC Type Approval.

## Storage and Disposal

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Astro FP Fire Pillows are not affected by the outdoor environment. However for long term storage and ease of installation, it is recommended that they should be stored indoors. No shelf life is given as this product will not deteriorate in storage.

For additional testing, certification or technical information please contact ASTROFLAME FIRESEALS LTD.

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Astroflame (Fire Seals) Ltd. Intumescent House  
Unit 8, The IO Centre, Stephenson Road, Segensworth  
FAREHAM, ENGLAND PO15 5RU

tel 0800 023 2482  
(01329 844500)

fax 0800 023 2483  
(01329 844600)

intl  
tel +44 1329 844500

fax +44 1329 844600

email [sales@astroflame.com](mailto:sales@astroflame.com)