



Product Model

Thermal Fire Pipe Sleeve

A high percentage of the steel, copper and plastic pipes found in commercial and domestic buildings will penetrate through fire rated constructions such as ceilings, floors and walls. Once a hole is made in a fire rated construction for the passage of pipes or services the integrity of the compartment is compromised.

To solve this problem Astroflame have developed ASTRO Thermal Fire Pipe Sleeve, which reinstates the fire rating of the construction and prevents fire spreading from one compartment to another. It also protects copper pipes from cement erosion.

The sleeve is a cost effective product for the fire stopping of pipe penetrations, e.g. plumbing pipe and metallic pipes, whilst maintaining similar thermal and acoustic properties as standard mineral fibre insulation. These properties ensure compliance to water bye laws and building regulations for cold and hot water pipes and heating systems.

In a fire situation the sleeve expands to fill the available space between the pipe and the penetration. In the case of plastic pipes the sleeve will crush and close off the pipe forming a solid char and preventing the passage of fire and smoke to the adjacent compartment.

Tested in Plasterboard Partition, Mineral Fibre Batt, Solid Walls and Floors.

Testing

Tested on the following pipe sizes to BS 476 Part 20 and BS EN 1366-3 for up to 2 hours.

Technical data supplied by the manufacturer



Key Features

- Suitable for fire protecting a wide range of plastic and metal pipes.
- Tested to B5476: Part 20
- Tested to BS EN 1366-3
- 2 Hours plus Fire Rated
- Excellent Acoustic Insulation
- Maintains thermal insulation for the pipe
- For use through a wide range of fire partition walls and floors.
- Allows for thermal movement of pipe
- NHBC Type Approval

| BS 476 part 20 | | | EN 1366-3 | | |
|------------------------|------------|---------|--------------|------------|---------------------------|
| Copper | 12 - 160mm | 2 Hours | Metal | 15 - 158mm | EI 120 Wall |
| Stainless Steel | 15 - 160mm | 2 Hours | | 159mm | E120 EI30 Wall |
| Mild Steel | 15 - 165mm | 2 Hours | PVC | 43 - 160mm | EI 120 min wall & floor |
| Cast Iron | 15 - 160mm | 2 Hours | HDPE | 40 - 110mm | 120 min wall & floor |
| PVC | 55 - 110mm | 2 Hours | | 160mm | EI 90 wall / EI 120 floor |
| Polybutylene | 12 - 28mm | 2 Hours | | | |
| HDPE | 15 - 160mm | 2 Hours | | | |

All sleeves have been tested with a 25mm nominal wall thickness. Sleeves have been tested cut flush to the wall for metal pipes only and floor for metal and plastic pipes. Sleeves have also been tested in walls, for plastic pipes, leaving 25mm exposed for connection to standard pipe insulation. The sleeve is simple to install, easy to cut and one sleeve can replace two collars. For metal pipes the sleeve may also be fitted flush to the wall for a clean line solution.

Remark: This technical data sheet replaces all previous versions. The technical data contained herein is given in good faith and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings. The information detailed in this technical data sheet is given by way of indication and is not exhaustive, users should contact either the seller or the manufacturer of the product for additional technical information concerning its use, if they think the information in their possession needs to be clarified in any way.

Solutions, Service and Supplies to the Trade

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Test Matrix - BS 476 and / or BS EN 1366-3 for 120mins

| Pipe Material | Diameter | Blockwork Wall | Solid Floor | Mineral Batt | Plasterboard Wall |
|-----------------|------------|----------------|-------------|--------------|-------------------|
| Copper | 15 - 160mm | • | • | | • |
| Cast Iron | 15 - 160mm | • | | | • |
| Mild Steel | 15 - 160mm | • | • | | • |
| Stainless Steel | 15 - 160mm | • | • | | • |
| Polybutylene | 12mm | • | • | • | • |
| Polybutylene | 28mm | • | • | • | • |
| PVC | 55 - 110mm | • | • | • | • |
| PVC | 160mm | • | • | | • |
| PVC-U | 15 - 160mm | • | • | | • |
| HDPE | 15 - 160mm | •* | • | | • |

* HDPE 160mm limited to EI90

For specific details of approved pipe materials, pipe thickness and substrates check with Astroflame.

Availability

Length 300mm. Wall thickness 27mm.

2Hr Rated Pipe Sleeves

| Diameter | Product Code |
|----------|--------------|
| 17mm | AFIPS17/2E |
| 21mm | AFIPS21/2E |
| 27mm | AFIPS27/2E |
| 34mm | AFIPS34/2E |
| 42mm | AFIPS42/2E |
| 48mm | AFIPS48/2E |
| 54mm | AFIPS54/2E |
| 60mm | AFIPS60/2E |
| 67mm | AFIPS67/2E |
| 76mm | AFIPS76/2E |
| 80mm | AFIPS80/2E |
| 89mm | AFIPS89/2E |
| 102mm | AFIPS102/2E |
| 108mm | AFIPS108/2E |
| 114mm | AFIPS114/2E |
| 140mm | AFIPS140/2E |
| 127mm | AFIPS127/2E |
| 159mm | AFIPS159/2E |
| 169mm | AFIPS169/2E |

To order and specify

Please quote: Qty | Tradename / Product Ref / Size / Rating
 Typical wording 10 / Astro Thermal Fire Ps / Afips17 /2E / 17Mm / 2 Hour

Fire Test and Assessment Reports

BS476 part 20/22 2 hour rated at Chiltern International Fire 132 minutes integrity and insulation BS EN 1366-3
 Acoustically Tested in plasterboard to BS EN ISO 140-3 and BS EN ISO 717: 1977
 NHBC Type Approval.

Health and Safety

See COSHH Sheet.

Installation

Please refer to our install sheet.

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