
Trade Name: ASTRO THERMAL FIRE PS
Thermal Fire Pipe Sleeve

Suitable for fire protecting a wide range of plastic and metal pipes.

Tested to BS476: Part 20

Tested to BS EN 1366-3

2 Hours plus Fire Rated

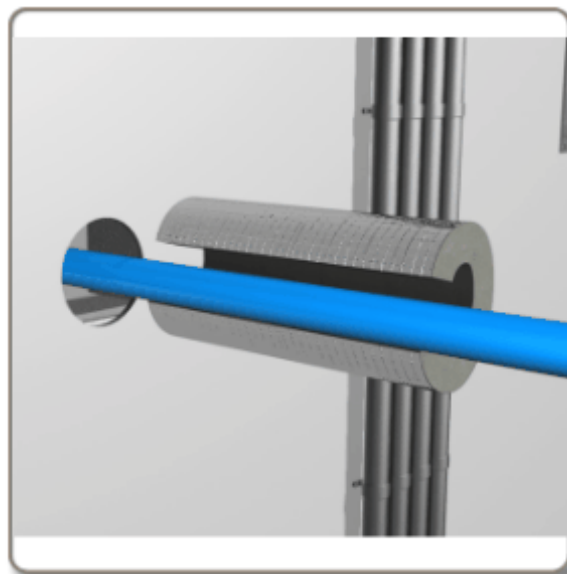
Excellent Acoustic Insulation

Maintains thermal insulation for the pipe

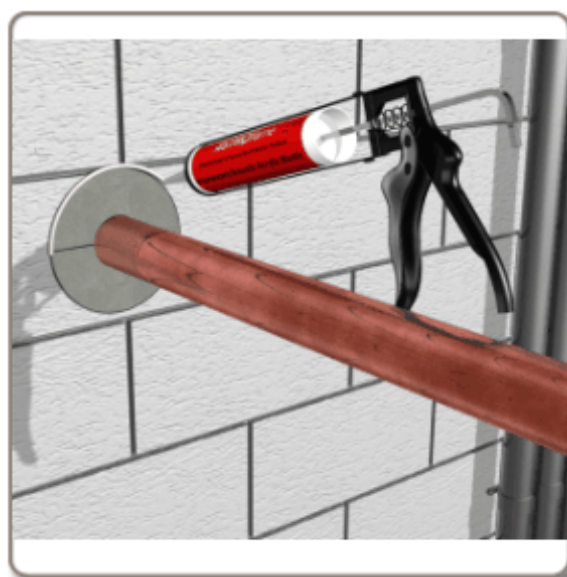
For use through a wide range of fire partition walls and floors.

Allows for thermal movement of pipe

NHBC Type Approval



NHBC
TYPE APPROVAL



Description

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.

BS 476 part 20

Copper	12mm - 160mm	2 hours
Stainless Steel	15mm - 160mm	2 hrs
Mild Steel	15mm - 165mm	2 hours
Cast Iron	15mm- 160mm	2 hours
PVC	55mm- 110mm 160mm	2 hours 90 mins
Polybutylene	12mm - 28mm	2 hours
HDPE		2 hours

EN 1366-3

Metal	15mm - 158mm 159mm	EI 120 Wall E120 EI30 Wall
PVC	43mm - 160mm	EI 120 min wall & floor
HDPE	40mm - 110mm 160mm	120 min wall & floor EI 90 wall / EI 120 floor

15mm
-
160mm

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.

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

Pipe Material	Diameter	Blockwork Wall	Solid Floor	Mineral batt	Plasterboard Wall
COPPER	15mm - 160mm	•	•		•
CAST IRON	15mm - 160mm	•			•
MILD STEEL	15mm - 160mm	•	•		•
STAINLESS STEEL	15mm - 160mm	•	•		•
POLYBUTYLENE	12mm	•	•	•	•
POLYBUTYLENE	28mm	•	•	•	•
PVC	55mm - 110mm	•	•	•	•
PVC	160mm	•	•		•
PVC-U	15mm - 160mm	•	•		•
HDPE	15mm - 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	Code	Diameter	Code
17mm	AFIPS17/2E	80mm	AFIPS80/2E
21mm	AFIPS21/2E	89mm	AFIPS89/2E
27mm	AFIPS27/2E	102mm	AFIPS102/2E
34mm	AFIPS34/2E	108mm	AFIPS108/2E
42mm	AFIPS42/2E	114mm	AFIPS114/2E

48mm	AFIPS48/2E	140mm	AFIPS140/2E
54mm	AFIPS54/2E	127mm	AFIPS127/2E
60mm	AFIPS60/2E	159mm	AFIPS159/2E
67mm	AFIPS67/2E	169mm	AFIPS169 /2E
76mm	AFIPS76/2E		

To order & 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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