

# PIPE WRAPS - Installation Guide

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NHBC  
TYPE APPROVAL

## Introduction

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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 fire rated structures using the Astro Wrap

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

- 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.

## THE ASTRO WRAP SYSTEM

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Flexible strips of high performance intumescent material encapsulated in a polythene sleeve - designed for wrapping around plastic pipes that pass through masonry floors and walls. On exposure to fire the wrap expands rapidly inwards to squeeze the collapsing plastic pipe until the aperture is completely sealed.

The wraps have been independently tested in accordance with BS476: Part 20: 1987 and can provide up to 4 hours fire resistance.

## Installation

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ASTROflame Intumescent Pipe Wraps are economical, easy to fit and are unaffected by moisture, humidity or frost. However, care should be taken so as to avoid damaging the outer polythene.

The Intumescent Pipe Wrap is designed for wrapping around UPVC pipes that pass through masonry floors and walls.

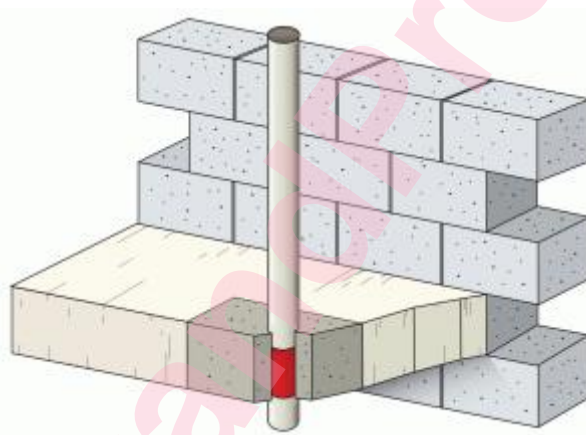
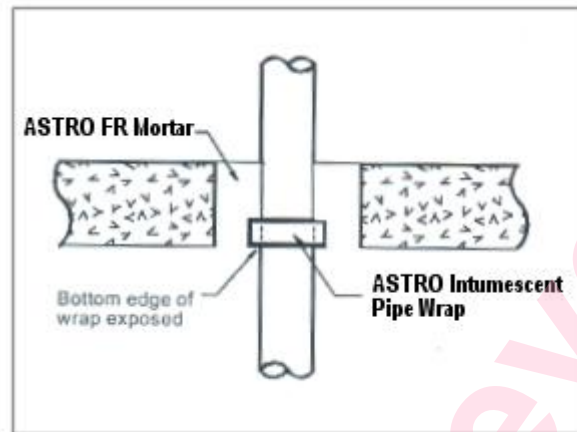
Manufactured to the correct length to suit the following sizes, 55mm, 82mm, 110 and 160mm diameter for other size of pipes use the next wrap size up.

Ensure that there is adequate annular space between the plastic pipe and the concrete floor or wall to allow for the astro wrap thickness and sufficient astro fr mortar to cast in place

Push the wrap into the void so that the bottom edge is flush with the soffit (underside of the concrete floor) or flush with the wall surface, wrap the Astro Wrap tightly around the pipe and secure with the self-adhesive tape attached: it is important for the proper functioning of the wrap that the edge is exposed to view.

Fill the annular gap with Astro FR Mortar and finish the floor or wall surface to suit the rest of the surroundings. Maintain records of installation for future record.

**IMPORTANT** The polythene sleeve is sealed in the factory with the correct amount of intumescent material to suit the relevant pipe sizes, and should not be removed. These products must be cast in situ, and as such are not suitable for use in timber floor constructions, metal or timber stud walls, or any other 'hollow' construction, where the use of an ASTROFLAME astro pipe collar is recommended.



## Compliance

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Astro Wrap 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 and Assessment Reports

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BS Standard 476 part 20 and EN1366-3  
NHBC Type Approval.

## Storage and disposal

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Astro Wraps 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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