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 fire rated structures using the Astro Thermal Pipe Sleeve.

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.

Astro Thermal Fire Pipe

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.

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

<table>
<thead>
<tr>
<th>Pipe Material</th>
<th>Diameter</th>
<th>Blockwork Wall</th>
<th>Solid Floor</th>
<th>Mineral batt</th>
<th>Plasterboard Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPPER</td>
<td>15mm - 160mm</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>CAST IRON</td>
<td>15mm - 160mm</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MILD STEEL</td>
<td>15mm - 160mm</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>STAINLESS</td>
<td>15mm - 160mm</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
Installation

1. Carefully cut Fire Sleeve to required length

2. If necessary make single slit along sleeve length to allow fitting around pre-installed pipes. Re-seal slit with repair tape.

3. Use Fire Sleeve as a template when cutting the aperture for installing the sleeve. This ensures a snug fit.

4. Through floor the Fire Sleeve can be fitted flush or protruding and can be taped to existing pipe insulation.

5. Position Fire Sleeve centrally in the partition.

Ensure length of sleeve is sufficient for pipe material type - flush for metal or 25mm protruding

For specific details of approved pipe materials, pipe thickness and substrates check with Astroflame.
each side for plastic pipes.

6. Plasterboard should be a snug fit. Any irregular gaps (up to 15mm) around sleeve should be sealed with ASTRO INTUMESCENT MASTIC. Gaps greater than 15mm around the pipe sleeve should be filled with mortar or a suitable fire rated filler.
Compliance

Astro Pipe Sleeves 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

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.

Storage and disposal

For long term storage and ease of installation, it is recommended that the product 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 fax 0800 023 2483
(01329 844500) (01329 844600)

intl tel +44 1329 844500 fax +44 1329 844600

email sales@astroflame.com