
CERTIFICATE OF APPROVAL

No CF 5239

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

ASTROFLAME (FIRESEALS) LIMITED

Intumescent House, Unit 8 The IO Centre, Stephenson Road,
Segensworth, Fareham, PO15 5RU
Tel: 01329 844500 Fax: 0800 0197611

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT
ASTRO HPE SEALANT

TECHNICAL SCHEDULE
TS03 Penetration Sealing
Systems & TS40 Linear Joint
Systems

Signed and sealed for and on behalf of Exova (UK) Limited trading as
Warrington Certification



Paul Duggan
Certification Manager



Issued: 15th April 2014
Reissued: 4th December 2017
Valid to: 9th November 2022

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CERTIFICATE No CF 5239

ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE SEALANT

1. This approval relates to the use of ASTRO HPE intumescent sealant pipe closure system for fire protection where there are services penetrating walls. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the acceptable configurations to provide fire resistance periods in accordance with BS EN 1366-3: 2009 of up to 120 minutes for differing services and elements of construction.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'
3. The product is approved on the basis of:
 - i) Initial type testing
 - ii) Audit testing at the frequency specified in TS03
 - iii) A design appraisal against TS03
 - iv) Inspection and surveillance of factory production control
 - v) Production surveillance under ISO 9001:2008
4. The masonry or concrete walls and drywalls shall be at least 100 mm thick and have at least the same fire rating as that required for the penetration seal.
5. The services which may be fitted through the seals are PVC, HDPE, ABS, insulated copper pipes and cables as detailed within the Approval Matrix included in this Certificate.
6. The approval relates to on-going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Further Information

Further information regarding the details contained in this data sheet may be obtained from Astro Flame Ltd (Tel: 01329 844500).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777, website: www.warringtonfire.net)

CERTIFICATE No CF 5239

ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE INTUMESCENT SEALANT

Approval Matrix Walls – ASTRO HPE EN 1366-3

| Pipe Size and Type | ASTRO HPE Dimensions | Backing Material | Minimum Wall Thickness | Integrity | Insulation |
|---|-----------------------------|--|------------------------|-----------------|-------------|
| PVC – 125mm Ø by 4.8-7.2 mm wall thickness | 16 mm annulus x 25mm deep | Stone wool 30mm deep nominal 80kg/m ³ | 120 mm | 120 minutes | 120 minutes |
| PVC – 40mm Ø by 1.9-3 mm wall thickness | 10 mm annulus x 25mm deep | N/A | | | |
| HDPE – 90mm Ø by 9.2 mm wall thickness | 12.5 mm annulus x 25mm deep | | | | |
| ABS – 90mm Ø by 6mm wall thickness | 12.5 mm annulus x 25mm deep | | | | |
| Copper/Steel – 60mm Ø by 0.8-14.2mm wall thickness, with 32mm Armaflex insulation | 20 mm annulus x 25mm deep | | | 120 minutes | 90 minutes |
| Copper/Steel – 13 Ø by 0.8-7mm wall thickness, with 13mm Armaflex insulation | 12 mm annulus x 25mm deep | | | 120 minutes | 120 minutes |
| Walls | | The walls shall be a minimum of 120 mm thick. Drywalls shall comprise a minimum of 2 layers of 'Type F' Gypsum board on both faces, with minimum 50 mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All walls shall have at least the same fire rating as that required for the pipe closure system. | | | |
| Application Technique: | | The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to full depth (of the drywall skin) min 25mm, with the ASTRO HPE intumescent sealant material. | | | |
| Service Coat-Back : | | Not required | | U Value: | Not known |
| Service Support Requirements: | | Services should be rigidly supported via steel angles, hangars or channels, not further than 150 mm and 450 mm from the surface of the sealing system on both faces. | | | |

CERTIFICATE No CF 5239

ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE INTUMESCENT SEALANT

Approval Matrix Walls – ASTRO HPE EN 1366-3

| Pipe Size and Type | ASTRO HPE Dimensions | Backing Material | Minimum Wall Thickness | Integrity | Insulation |
|---|-------------------------------------|--|------------------------|-----------------|-------------|
| HDPE – 63mm Ø by 7.2 mm wall thickness with Cables up to Ø 21mm | 300mm wide x 100mm high x 25mm deep | N/A | 120 mm | 120 minutes | 120 minutes |
| Cables up to Ø 21mm | 300mm wide x 100mm high x 25mm deep | | | | |
| Walls | | The walls shall be a minimum of 120 mm thick. Drywalls shall comprise a minimum of 2 layers of 'Type F' Gypsum board on both faces, with minimum 50 mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All walls shall have at least the same fire rating as that required for the pipe closure system. | | | |
| Application Technique: | | The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to full depth (of the drywall skin) min 25mm, with the ASTRO HPE intumescent sealant material. | | | |
| Service Coat-Back : | | Not required | | U Value: | Not known |
| Service Support Requirements: | | Services should be rigidly supported via steel angles, hangers or channels, not further than 150 mm and 450 mm from the surface of the sealing system on both faces. | | | |

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ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE INTUMESCENT SEALANT

Approval Matrix Walls – ASTRO HPE EN 1366-3

| Pipe Size and Type | ASTRO HPE Dimensions | Backing Material | Minimum Wall Thickness | Integrity | Insulation |
|--|--|------------------|------------------------|-----------------|-------------|
| PVC – 40mm Ø by 1.9mm wall thickness | 20 mm annulus x 25mm deep | N/A | 100 mm | 120 minutes | 120 minutes |
| PVC – 125mm Ø by 9.2 mm wall thickness | | | | 60 minutes | 60 minutes |
| HDPE – 90mm Ø by 9.2 mm wall thickness | | | | 120 minutes | 120 minutes |
| ABS – 40mm Ø by 1.9mm wall thickness | | | | | |
| HDPP – 40mm Ø by 1.9mm wall thickness | | | | | |
| Copper/Steel –40mm – 159mm Ø by 2mm-14.2mm wall thickness, with 32mm Armaflex insulation (LS650mm) | | | | 120 minutes | 30 minutes |
| Walls | The walls shall be a minimum of 100 mm thick. Drywalls shall comprise a minimum of 2 layers of 'Type F' Gypsum board on both faces, with minimum 50 mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All walls shall have at least the same fire rating as that required for the pipe closure system. | | | | |
| Application Technique: | The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to full depth (of the drywall skin) min 25mm, with the ASTRO HPE intumescent sealant material. | | | | |
| Service Coat-Back : | Not required | | | U Value: | Not known |
| Service Support Requirements: | Services should be rigidly supported via steel angles, hangars or channels, not further than 270 mm from the surface of the sealing system on both faces. | | | | |

CERTIFICATE No CF 5239

ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE INTUMESCENT SEALANT

Approval Matrix Floors – ASTRO HPE EN 1366-3

| Pipe Size and Type | ASTRO HPE Dimensions | Backing Material | Minimum Floor Thickness | Integrity | Insulation |
|--|--------------------------------------|---|-------------------------|-------------|-------------|
| Electrical cables up to 21mm Ø | Max 200mm x 200mm Min 50mm x 50mm | 100mm deep stone wool 45kg/m ³ | 150 mm | 180 minutes | 20 minutes |
| Electrical cables 22-80mm Ø | | | | 120 minutes | 20 minutes |
| Non sheathed electrical cables up to 24mm Ø | | | | 180 minutes | 15 minutes |
| Up to 21mm Ø telecom cables in bundles of up to 100mm Ø | | | | 180 minutes | 15 minutes |
| Copper/Steel –41mm – 159mm Ø by 2.5mm-14.2mm wall thickness, with 16mm - 32mm Armaflex insulation (CS) | 20 mm annulus x 25mm deep | | | 120 minutes | 120 minutes |
| Floor | | The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All floors shall have at least the same fire rating as that required for the pipe closure system. | | | |
| Application Technique: | | The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to full depth of min 25mm to the upper surface, with the ASTRO HPE intumescent sealant material. | | | |
| Service Coat-Back : | | Not required | U Value: | Not known | |
| Service Support Requirements: | | Services should be rigidly supported via steel angles, hangars or channels, not further than 270 mm from the surface of the sealing system on the upper face | | | |

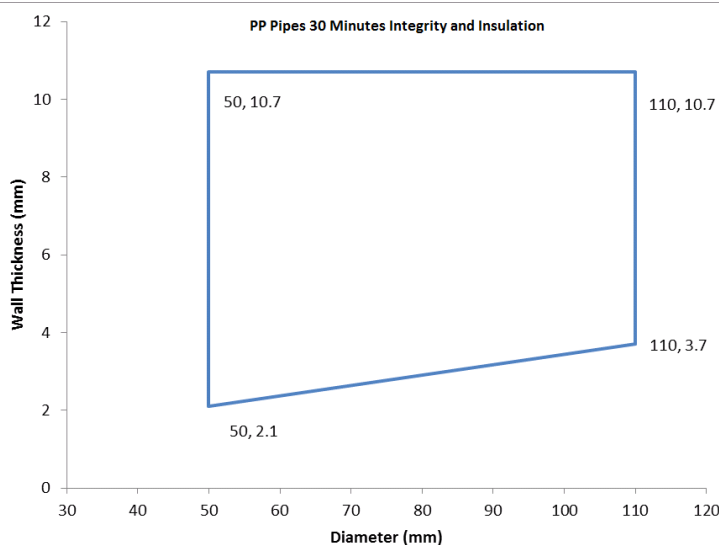
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ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE INTUMESCENT SEALANT

Approval Matrix Floors – ASTRO HPE EN 1366-3

| Pipe Size and Type | ASTRO HPE Dimensions | Backing Material | Minimum Floor Thickness | Integrity | Insulation |
|---|---|---|-------------------------|-----------------|-------------|
| PP Pipe 110mm Ø 3.7mm wall thickness | 20 mm annulus x 25mm deep(both faces) | 100mm deep stone wool 45kg/m ³ | 150 mm | 30 minutes | 30 minutes |
| PP Pipe 50mm Ø 10.7mm wall thickness | | | | 120 minutes | 120 minutes |
| PP Pipe 110mm Ø 2.1mm wall thickness | | | | 240 minutes | 240 minutes |
| Floors | | The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All floors shall have at least the same fire rating as that required for the pipe closure system. | | | |
| Application Technique: | | The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to full depth of min 25mm to the both faces, with the ASTRO HPE intumescent sealant material. | | | |
| Service Coat-Back : | | Not required | | U Value: | Not known |
| Service Support Requirements: | | Services should be rigidly supported via steel angles, hangars or channels, not further than 270 mm from the surface of the sealing system on upper face | | | |



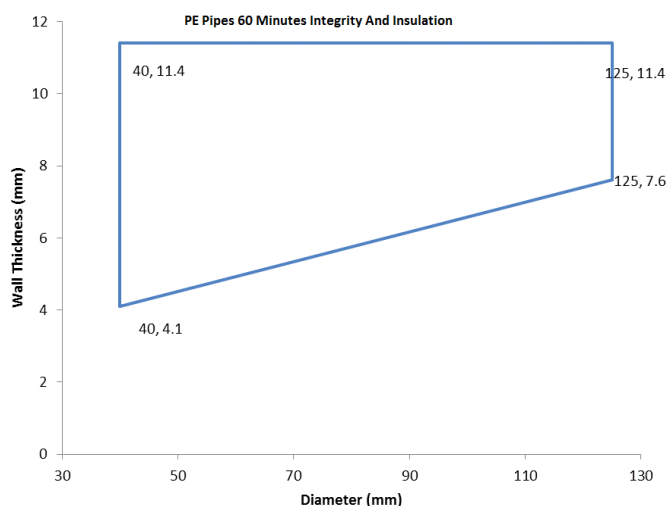
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ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE INTUMESCENT SEALANT

Approval Matrix Floors – ASTRO HPE EN 1366-3

| Pipe Size and Type | ASTRO HPE Dimensions | Backing Material | Minimum Floor Thickness | Integrity | Insulation |
|--|---|---|-------------------------|-----------------|-------------|
| PE Pipe 125mm Ø 7.6mm wall thickness | 20 mm annulus x 25mm deep(both faces) | 100mm deep stone wool 45kg/m ³ | 150 mm | 60 minutes | 60 minutes |
| PE Pipe 125mm Ø 11.4mm wall thickness | | | | 90 minutes | 90 minutes |
| PE Pipe 40mm Ø 4.1mm wall thickness | | | | 240 minutes | 240 minutes |
| Floors | | The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All floors shall have at least the same fire rating as that required for the pipe closure system. | | | |
| Application Technique: | | The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to full depth of min 25mm to the both faces, with the ASTRO HPE intumescent sealant material. | | | |
| Service Coat-Back : | | Not required | | U Value: | Not known |
| Service Support Requirements: | | Services should be rigidly supported via steel angles, hangars or channels, not further than 270 mm from the surface of the sealing system on the upper face | | | |



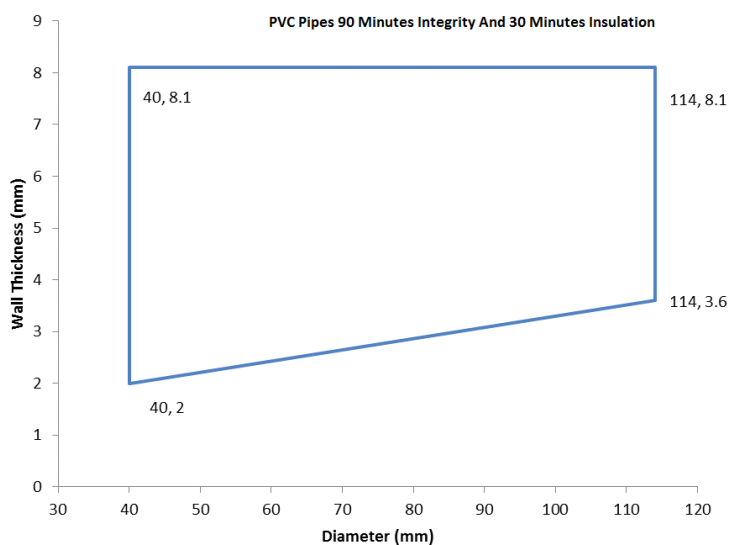
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ASTRO HPE INTUMESCENT SEALANT

Approval Matrix Floors – ASTRO HPE EN 1366-3

| Pipe Size and Type | ASTRO HPE Dimensions | Backing Material | Minimum Floor Thickness | Integrity | Insulation |
|--|---|---|-------------------------|-----------------|-------------|
| PVC Pipe 40mm Ø 2mm wall thickness | 20 mm annulus x 25mm deep(both faces) | 100mm deep stone wool 45kg/m ³ | 150 mm | 240 minutes | 240 minutes |
| PVC Pipe 114mm Ø 3.6mm wall thickness | | | | 90 minutes | 45 minutes |
| PE Pipe 114mm Ø 8.1mm wall thickness | | | | 120 minutes | 120 minutes |
| Floors | | The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All floors shall have at least the same fire rating as that required for the pipe closure system. | | | |
| Application Technique: | | The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to full depth of min 25mm to the both faces, with the ASTRO HPE intumescent sealant material. | | | |
| Service Coat-Back : | | Not required | | U Value: | Not known |
| Service Support Requirements: | | Services should be rigidly supported via steel angles, hangars or channels, not further than 270 mm from the surface of the sealing system on the upper face | | | |



CERTIFICATE No CF 5239

ASTROFLAME (FIRESEALS) LIMITED

ASTRO HPE INTUMESCENT SEALANT

Approval Matrix – ASTRO HPE EN 1366-4

| Wall Installations | | | | | |
|------------------------------|--|------------------|-----------------------------|--------------------------------|-------------------|
| Product Name | | ASTRO HPE | | | |
| Joint Width mm | Depth mm | Backing Material | Gap Face Material | Integrity (mins) | Insulation (mins) |
| 20 | 25 | PE Backing | AAC/DW | 120 | 120 |
| Application Technique | Compress backing material into gap/joint to form a pocket of the correct depth for the sealant to finish flush with the surface of the wall, then infill with ASTRO HPE to a depth of 25mm. The seal is required to be formed on both faces/sides of the wall. | | | | |
| Walls | The walls shall be a minimum of 100 mm thick. Drywalls shall comprise a minimum of 2 layers of 'Type F' Gypsum board on both faces, with minimum 50 mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m ³ and for aerated concrete blocks of 600kg/m ³ . All walls shall have at least the same fire rating as that required for the pipe closure system. | | | | |
| Resistance to Smoke: | Not evaluated by this approval | | Weather Capability: | Not evaluated by this approval | |
| Acoustic Rating: | Not evaluated by this approval | | Movement Capability: | Not evaluated by this approval | |

AAC- Autoclaved aerated concrete
 PE - Polyethylene
 DW - Drywall