



CERTIFICATE OF APPROVAL

No CF 5408

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

Astroflame Fireseals Limited

Unit 8, I.O Centre
Stephenson Road
Segensworth
Fareham
PO15 5RU

Tel: 01329 844500

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
ASTROFLAME ASTRO X
SERIES CE PIPE COLLAR

TECHNICAL SCHEDULE
TS03 Penetration Sealing
Systems

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 15th February 2016
Reissued: 23rd June 2021
Valid to: 23rd February 2026





CERTIFICATE No CF 5408

Astroflame Fireseals Limited

1. This approval relates to the use of ASTROFLAME ASTRO X SERIES CE PIPE COLLAR for the fire protection where services are penetrating walls and floors. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness and acceptable services for ASTROFLAME ASTRO X SERIES CE PIPE COLLAR required to provide fire resistance periods in accordance with BS EN 1366-3: 2009 of up to 240 minutes for differing services and substrate constructions. The scope of certification complies with the guidelines stated in the ASFP Red Book: 4th Edition for 3rd party certification schemes.
2. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
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
4. The walls shall be at least 100 mm thick and have at least the same fire resistance as that required for the penetration seal. The floors shall be at least 150 mm thick and have at least the same fire resistance as that required for the penetration seal. Specific requirements for the floors and walls are provided with each of the approval matrices provided herein.
5. The services which may be fitted through the seals are uPVC, ABS, PP and HDPE pipes of various sizes, as detailed within the Approval Matrix included in this Certificate.
6. The approval relates to ongoing 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.
7. Service apertures shall be a minimum of 200mm from each other, and from the seal edge.

Further Information

Further information regarding the details contained in this data sheet may be obtained from Astroflame Fireseals Limited (Tel: 01329 844500).

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



CERTIFICATE No CF 5408
Astroflame Fireseals Limited

**ASTROFLAME ASTRO X SERIES CE PIPE COLLAR –
Approval Matrix Floors min. 150mm**

Product Name:		ASTROFLAME ASTRO X SERIES CE PIPE COLLAR Installed to Underside of minimum 150mm thick Rigid Floor		
Penetration Specification (PVC-U Pipes)	Collar Ref. ASTROFLAME ASTRO X SERIES CE PIPE COLLAR	Intumescent Material (mm)	U/C C/C	
			Integrity (mins)	Insulation (mins)
32mm ø 1.8mm wall thickness	32mm	30 x 4	240	240
40mm ø 1.8mm wall thickness	40mm			
50mm ø 1.8mm wall thickness	50mm			
55mm ø 2.3 - 3mm wall thickness	55mm	30 x 6		
63mm ø 2.3 - 3mm wall thickness	63mm			
75mm ø 3.1 – 4.8mm wall thickness	75mm	30 x 8		
82mm ø 3.1 – 4.8mm wall thickness	82mm			
90mm ø 4.2 – 7.3mm wall thickness	90mm	30 x 10		
100mm ø 4.2 – 7.3mm wall thickness	100mm			
110mm ø 4.2 – 7.3mm wall thickness	110mm			
125mm ø 6mm wall thickness	125mm	40 x 12		
140mm ø 6.1 – 7.5mm wall thickness	140mm	40 x 16		
160mm ø 6.2 – 9.5mm wall thickness	160mm	40 x 18		
* Performance in accordance with BS EN 1366-3: 2009				
Maximum Annulus:	Maximum 10mm wide filled with minimum 5mm deep ASTRO INTU MASTIC fitted to the upper surface of the floor .			
Floors:	The floors shall be a minimum of 150 mm thick, constructed from autoclaved aerated concrete/concrete/masonry with a minimum density 650 kg/m ³ . The floor shall have at least the same fire resistance performance as that required of the pipe collar.			
Application Technique:	The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe to the underside of the floor and mechanically face fixed utilising 3No. Fischer FSA ø8mm x 60mm long, with M6 hexagon head bolts.			
Service Coat-Back:	Not required		U Value:	Not evaluated by this approval
Service Support Requirements:	Services should be rigidly supported via steel angles, hangers or channels, not further than 400 mm from the upper surface of the seal.			
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



CERTIFICATE No CF 5408
Astroflame Fireseals Limited

**ASTROFLAME ASTRO X SERIES CE PIPE COLLAR –
Approval Matrix Floors min. 150mm**

Product Name:		ASTROFLAME ASTRO X SERIES CE PIPE COLLAR Installed to Underside of minimum 150mm thick Rigid Floor		
Penetration Specification (PP Pipes)	Collar Ref. ASTROFLAME ASTRO X SERIES CE PIPE COLLAR	Intumescent Material (mm)	U/C C/C	
			Integrity (mins)	Insulation (mins)
32mm ø 2.9mm wall thickness	32mm	30 x 4	240	240
40mm ø 2.9mm wall thickness	40mm			
50mm ø 2.9mm wall thickness	50mm			
55mm ø 2.9 – 4.4mm wall thickness	55mm	30 x 6		
63mm ø 2.9 – 4.4mm wall thickness	63mm			
75mm ø 2.8 – 6.7mm wall thickness	75mm	30 x 8		
82mm ø 2.8 – 6.7mm wall thickness	82mm			
90mm ø 2.7 – 10mm wall thickness	90mm	30 x 10		
100mm ø 2.7 - 10mm wall thickness	100mm			
110mm ø 2.7 – 10mm wall thickness	110mm			
125mm ø 3.1mm wall thickness	125mm			
140mm ø 3.5 - 8mm wall thickness	140mm	40 x 16		
160mm ø 4 – 14.6mm wall thickness	160mm	40 x 18		
* Performance in accordance with BS EN 1366-3: 2009				
Maximum Annulus:	Maximum 10mm wide filled with minimum 5mm deep ASTRO INTU MASTIC fitted to the upper surface of the floor.			
Floors:	The floors shall be a minimum of 150 mm thick, constructed from autoclaved aerated concrete/concrete/masonry with a minimum density 650 kg/m ³ . The floor shall have at least the same fire resistance performance as that required of the pipe collar.			
Application Technique:	The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe to the underside of the floor and mechanically face fixed utilising 3No. Fischer FSA ø8mm x 60mm long, with M6 hexagon head bolts.			
Service Coat-Back:	Not required		U Value:	Not evaluated by this approval
Service Support Requirements:	Services should be rigidly supported via steel angles, hangers or channels, not further than 400 mm from the upper surface of the seal.			
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



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**ASTROFLAME ASTRO X SERIES CE PIPE COLLAR –
Approval Matrix Floors min. 150mm**

Product Name:		ASTROFLAME ASTRO X SERIES CE PIPE COLLAR Installed to Underside of minimum 150mm thick Rigid Floor		
Penetration Specification (PE Pipes)	Collar Ref. ASTROFLAME ASTRO X SERIES CE PIPE COLLAR	Intumescent Material (mm)	U/C C/C	
			Integrity (mins)	Insulation (mins)
32mm ø 2.9mm wall thickness	32mm	30 x 4	240	240
40mm ø 2.9mm wall thickness	40mm			
50mm ø 2.9mm wall thickness	50mm			
55mm ø 2.9 – 4.4mm wall thickness	55mm	30 x 6		
63mm ø 2.9 – 4.4mm wall thickness	63mm			
75mm ø 2.8 – 6.7mm wall thickness	75mm	30 x 8		
82mm ø 2.8 – 6.7mm wall thickness	82mm			
90mm ø 2.7 – 10mm wall thickness	90mm	30 x 10		
100mm ø 2.7 - 10mm wall thickness	100mm			
110mm ø 2.7 – 10mm wall thickness	110mm			
125mm ø 3.1mm wall thickness	125mm			
140mm ø 3.9 – 5.8mm wall thickness	140mm	40 x 16		
160mm ø 4.9 – 9.5mm wall thickness	160mm	40 x 18		
* Performance in accordance with BS EN 1366-3: 2009				
Maximum Annulus:	Maximum 10mm wide filled with minimum 5mm deep ASTRO INTU MASTIC fitted to the upper surface of the floor.			
Floors:	The floors shall be a minimum of 150 mm thick, constructed from autoclaved aerated concrete/concrete/masonry with a minimum density 650 kg/m ³ . The floor shall have at least the same fire resistance performance as that required of the pipe collar.			
Application Technique:	The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe to the underside of the floor and mechanically face fixed utilising 3No. Fischer FSA ø8mm x 60mm long, with M6 hexagon head bolts.			
Service Coat-Back:	Not required		U Value:	Not evaluated by this approval
Service Support Requirements:	Services should be rigidly supported via steel angles, hangers or channels, not further than 400 mm from the upper surface of the seal.			
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



CERTIFICATE No CF 5408

Astroflame Fireseals Limited

ASTROFLAME ASTRO X SERIES CE PIPE COLLAR – Approval Matrix Rigid or Flexible Walls min. 100mm

Product Name:	ASTROFLAME ASTRO X SERIES CE PIPE COLLAR Installed to both faces of minimum 100mm thick Rigid or Flexible Wall			
Penetration Specification (PVC-U Pipes)	Collar Ref. ASTROFLAME ASTRO X SERIES CE PIPE COLLAR	Intumescent Material (mm)	U/C C/C	
			Integrity (mins)	Insulation (mins)
32mm ø 1.8mm wall thickness	32mm	30 x 4	120	120
40mm ø 1.8mm wall thickness	40mm			
50mm ø 1.8mm wall thickness	50mm			
55mm ø 2.3 - 3mm wall thickness	55mm	30 x 6		
63mm ø 2.3 - 3mm wall thickness	63mm			
75mm ø 3.1 – 4.8mm wall thickness	75mm	30 x 8		
82mm ø 3.1 – 4.8mm wall thickness	82mm			
90mm ø 4.2 – 7.4mm wall thickness	90mm	30 x 10		
100mm ø 4.2 – 7.4mm wall thickness	100mm			
110mm ø 4.2 – 7.4mm wall thickness	110mm			
125mm ø 6mm wall thickness	125mm			
140mm ø 6.1 – 7.5mm wall thickness	140mm	40 x 16		
160mm ø 6.2 – 9.5mm wall thickness	160mm	40 x 18		
* Performance in accordance with BS EN 1366-3: 2009				
Maximum Annulus:	Maximum 10mm wide filled with minimum 12.5mm deep ASTRO INTU MASTIC to both sides of the wall.			
Walls:	The walls shall be a minimum of 100 mm thick. All walls shall have at least the same fire rating as that required of the pipe collar. Rigid walls should comprise concrete or masonry blocks/bricks of a minimum 450kg/m ³ density. Flexible walls should be comprised of Gypsum type F plasterboard in accordance with EN 520, with at least 2No layers, each a minimum of 12.5mm thick, to each side. Cavity wall insulation is deemed optional.			
Application Technique:	<p>Flexible walls: The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe both sides of the wall and mechanically face fixed utilising ø8mm x 65mm long Fischer FM 6x65S, steel toggle anchors.</p> <p>Rigid walls: The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe both sides of the wall and mechanically face fixed utilising a suitably sized masonry fixing providing robust fixity to the wall.</p>			
Service Coat-Back:	Not required	U Value:	Not evaluated by this approval	
Service Support Requirements:	Services should be rigidly supported via steel angles, hangers or channels, not further than 400 mm both faces of the wall.			
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	

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ASTROFLAME ASTRO X SERIES CE PIPE COLLAR – Approval Matrix Rigid or Flexible Walls min. 100mm

Product Name:	ASTROFLAME ASTRO X SERIES CE PIPE COLLAR Installed to both faces of minimum 100mm thick Rigid or Flexible Wall			
Penetration Specification (PP Pipes)	Collar Ref. ASTROFLAME ASTRO X SERIES CE PIPE COLLAR	Intumescent Material (mm)	U/C C/C	
			Integrity (mins)	Insulation (mins)
32mm ø 2.9mm wall thickness	32mm	30 x 4	120	120
40mm ø 2.9mm wall thickness	40mm			
50mm ø 2.9mm wall thickness	50mm			
55mm ø 2.9 – 4.4mm wall thickness	55mm	30 x 6		
63mm ø 2.9 – 4.4mm wall thickness	63mm			
75mm ø 2.8 – 6.7mm wall thickness	75mm	30 x 8		
82mm ø 2.8 – 6.7mm wall thickness	82mm			
90mm ø 2.7 – 10mm wall thickness	90mm	30 x 10		
100mm ø 2.7 - 10mm wall thickness	100mm			
110mm ø 2.7 – 10mm wall thickness	110mm			
125mm ø 3.1mm wall thickness	125mm			
140mm ø 3.5 - 8mm wall thickness	140mm	40 x 16		
160mm ø 4 – 14.6mm wall thickness	160mm	40 x 18		
*Performance in accordance with BS EN 1366-3: 2009				
Maximum Annulus:	Maximum 10mm wide filled with minimum 12.5mm deep ASTRO INTU MASTIC to both sides of the wall.			
Walls:	The walls shall be a minimum of 100 mm thick. All walls shall have at least the same fire rating as that required of the pipe collar. Rigid walls should comprise concrete or masonry blocks/bricks of a minimum 450kg/m ³ density. Flexible walls should be comprised of Gypsum type F plasterboard in accordance with EN 520, with at least 2No layers, each a minimum of 12.5mm thick, to each side. Cavity wall insulation is deemed optional.			
Application Technique:	<p>Flexible walls: The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe both sides of the wall and mechanically face fixed utilising ø8mm x 65mm long Fischer FM 6x65S, steel toggle anchors.</p> <p>Rigid walls: The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe both sides of the wall and mechanically face fixed utilising a suitably sized masonry fixing providing robust fixity to the wall.</p>			
Service Coat-Back:	Not required	U Value:	Not evaluated by this approval	
Service Support Requirements:	Services should be rigidly supported via steel angles, hangers or channels, not further than 400 mm both faces of the wall.			
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	



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ASTROFLAME ASTRO X SERIES CE PIPE COLLAR – Approval Matrix Rigid or Flexible Walls min. 100mm

Product Name:	ASTROFLAME ASTRO X SERIES CE PIPE COLLAR Installed to both faces of minimum 100mm thick Rigid or Flexible Wall			
Penetration Specification (PE Pipes)	Collar Ref. ASTROFLAME ASTRO X SERIES CE PIPE COLLAR	Intumescent Material (mm)	U/C C/C	
			Integrity (mins)	Insulation (mins)
32mm ø 2.9mm wall thickness	32mm	30 x 4	120	120
40mm ø 2.9mm wall thickness	40mm			
50mm ø 2.9mm wall thickness	50mm			
55mm ø 2.9 – 4.4mm wall thickness	55mm	30 x 6		
63mm ø 2.9 – 4.4mm wall thickness	63mm			
75mm ø 2.8 – 6.7mm wall thickness	75mm	30 x 8		
82mm ø 2.8 – 6.7mm wall thickness	82mm			
90mm ø 2.7 – 10mm wall thickness	90mm	30 x 10		
100mm ø 2.7 - 10mm wall thickness	100mm			
110mm ø 2.7 – 10mm wall thickness	110mm			
125mm ø 3.1mm wall thickness	125mm			
140mm ø 3.9 – 5.8mm wall thickness	140mm	40 x 16		
160mm ø 4.9 – 9.5mm wall thickness	160mm	40 x 18		
* Performance in accordance with BS EN 1366-3: 2009				
Maximum Annulus:	Maximum 10mm wide filled with minimum 12.5mm deep ASTRO INTU MASTIC to both sides of the wall.			
Walls:	The walls shall be a minimum of 100 mm thick. All walls shall have at least the same fire rating as that required of the pipe collar. Flexible walls should be comprised of Gypsum type F plasterboard in accordance with EN 520, with at least 2No layers, each a minimum of 12.5mm thick, to each side, fully infilled with mineral wool insulation, minimum density 100 kg/m ³ . The cavity should be at least 50mm wide.			
Application Technique:	Flexible walls: The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe both sides of the wall and mechanically face fixed utilising ø8mm x 65mm long Fischer FM 6x65S, steel toggle anchors. Rigid walls: The ASTROFLAME ASTRO X SERIES CE PIPE COLLAR is folded around the pipe both sides of the wall and mechanically face fixed utilising a suitably sized masonry fixing providing robust fixity to the wall.			
Service Coat-Back:	Not required	U Value:	Not evaluated by this approval	
Service Support Requirements:	Services should be rigidly supported via steel angles, hangers or channels, not further than 400 mm both faces of the wall.			
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	