

Technical Data Sheet











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Astroflame (Fireseals) Ltd





General Product Description

Astro X Series CE Pipe Wrap are designed and tested to seal service penetration apertures containing plastic and metallic pipes, pipes with insulation, using thermoplastic composites based on graphite Intumescent technology. Developed to provide a high volume expansion and pressure seal during a fire. The Astro X Series CE Pipe Wrap offers EI120 tested to EN1366-3, the maximum diameter being 250mm, the ultra thin design of Astro X Series CE Pipe Wrap ensuring that they can be installed in to the tightest of locations.

Astro X Series CE Pipe Wrap can be installed in flexible wall, rigid wall, rigid floor constructions and in Batt seals. They are compatible with polypropylene (PP), polyethylene (PE) and polyvinylchloride (PVC) pipes.

Astro X Series CE Pipe Wrap is used around combustible pipes to form a penetration seal used to reinstate the fire resistance performance of wall and floor constructions, where they have been provided with apertures for the penetration of combustible pipe services.

Astro X Series CE Pipe Wrap include an intumescent component incorporated into a lightweight PVC carrier bag to close any gaps and joints and provide a closure of combustible pipes when heated and to prevent the passage of fire.

Astro X Series CE Pipe Wrap are supplied in assembled form. The intumescent in the wrap is contained within a lightweight PVC carrier bag and is installed around the pipe at the soffit or both faces of walls, depending on. Fixing details are provided in annex A.

The applicant has submitted a written declaration that the product and/or constituents of the product contains no substances which have been classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No. 1272/2008 and listed in the 'indicative list on dangerous substances' of the EGDS – taking into account the installation conditions of the construction product and the release scenarios resulting from there

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

The use catagory of Astro X Series CE Pipe Wrap in relation to BWR 3 (Hygiene, health and environment) is IA1, S/W3.

External use- ETAG 026-2 (used as European Assessment Document EAD) Type X: Intended for use in conditions exposed to weathering.

Specification Of The Intended Use In Accordance With The Relevant EAD

Intended Use

The intended use of Astro X Series CE Pipe Wrap is to reinstate the fire resistance performance of wall and floor constructions, where they are penetrated by various combustible pipe services.

The specific elements of construction that the system Astro X Series CE Pipe Wrap may be used is as follows:

Flexible walls:

The wall must have a minimum thickness of 100 mm and comprise timber or steel studs line on both faces with minimum 2 layers of 12.5 mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the penetration seal shall be closer than 100mm to a stud, and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the penetration seal and the stud.

Rigid walls:

The wall must have a minimum thickness of 100 mm and comprise of concrete, aerated concrete or masonry, with a minimum density of 650 km/m³.

Rigid floor:

The floor must have a minimum thickness of 150 mm and comprise of concrete, aerated concrete or masonry, with a minimum density of 650 km/m³.

Where relevant Non combustible fixings are to be used in line with test data to secure the product to the relevant substrate. Please contact us for further details.





The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

The system Astro X Series CE Pipe Wrap may be used to provide a penetration seal with specific combustible pipes, single only.

Apertures in the separating element shall be maximum 10 mm diameter oversize with respect to the pipe diameter. The remaining annular space/gap shall be infilled with Astro Intu Mastic for the purpose of providing a smoke seal. Apertures for the penetration of pipes shall be separated by a minimum of 200 mm.

The provisions made in this European Technical Assessment are based on an assumed working life of the system Astro X Series CE Pipe Wrap of 10 years, The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

Type X: Intended for use out door and indoor or in conditions exposed to weathering -20 to +70.

Performance Of The Product And References To The Methods Used For Its Assessment

F	Product Type: Wrap	Intended use: Pipe Closure Device
Basic requirement for construction work	Basic Requirement	Performance
	BWR 1 Mechanical resistance and	d stability
	None	Not relevant
	BWR 2 Safety in case of fi	re
EN 1350-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	Annex A
	BWR 3 Hygiene, Health and the En	vironment
EN 1026:2000	Air permeability	No performance determined
ETAG 026-3 Annex C	Water permeability	No performance determined
Declaration by manufacturer	Release of dangerous substances	Use category IA1, S/W3 Declaration of manufacturer
	BWR 4 Safety in use	
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact / movement	No performance determined
EOTA TR 001:2003	Adhesion	No performance determined
	BWR 5 Protection against no	oise
EN 10140-2/ EN ISO Airborne sound insulation		No performance determined
	BWR 6 Energy, Economy and Heat	Retention
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined





General aspects relating to fitness for use			
EOTA TR 024: 2009	Durability and serviceability	Х	

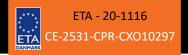
Assessment And Verification Of Constancy Of Performance (Hereinafter AVCP) System Applied, With References To Its Legal base

According to the decision 1999/454/EC of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) given in the following table apply:

Products	Intended uses	Level or Class	System
Fire stopping and fire sealing products	For fire compartmentation and / or fire protection or fire performance	Any	System 1

Technical Details Necessary For The Implementation Of The AVCP System, As Provided For In The Applicable EAD.

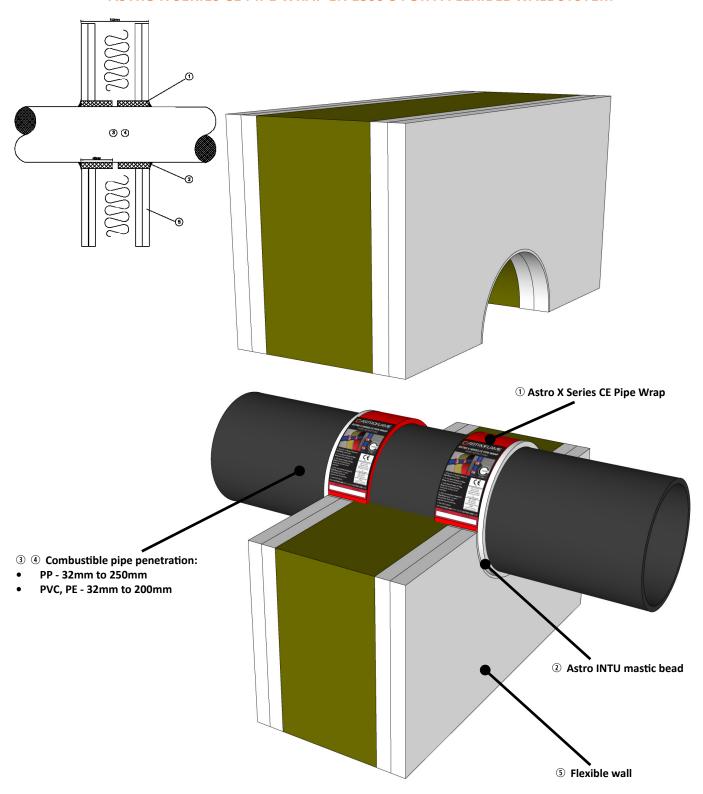




Wall construction with thickness of minimum 100 mm Penetration seal with Astro X Series CE Pipe Wrap fixed to both sides of flexible or rigid wall

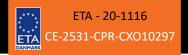
Construction details: Combustible pipes fitted with a single Astro X Series CE Pipe Wrap to both sides. Maximum 10 mm annular space filled with Astro Intu Mastic.

ASTRO X SERIES CE PIPE WRAP EN 1366-3 FOR A FLEXIBLE WALL SYSTEM

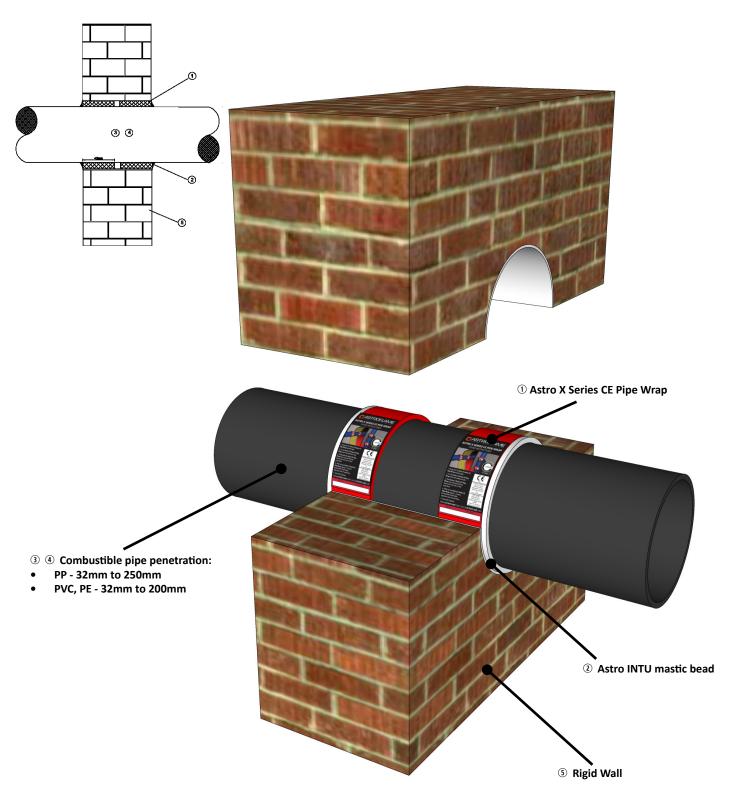


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ASTRO X SERIES CE PIPE WRAP EN 1366-3 FOR A RIGID WALL SYSTEM



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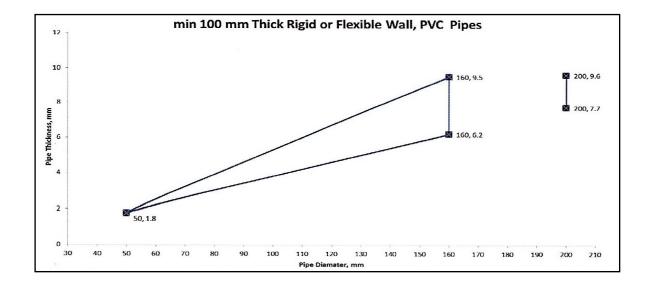




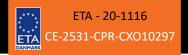
PVC-U pipes with Astro X Series CE Pipe Wrap fixed to both sides of flexible or rigid wall

PVC-U pipes according to EN 1452 with Astro X Series CE Pipe Wrap.

Astro X Series CE Pipe Wrap, Friction Fitted Flush to Both Sides of Flexible Wall or Rigid (min 100 mm thick) PVC Pipes					
Penetration Specification	Wrap Reference	Intumescent Material	Annulus Space (mm)	Classification	
PVC Pipe 32mm ø 1.8mm wall thickness	32mm				
PVC Pipe 40mm ø 1.8mm wall thickness	40mm	40 mm (W) x 2 mm (T)	4	EI 120 U/C	
PVC Pipe 50mm ø 1.8mm wall thickness	50mm				
PVC Pipe 160 mm ø 6.2mm wall thickness	160mm	40 (141) 0 (7)		EI 90 U/C	
PVC Pipe 160 mm ø 9.5mm wall thickness	160mm	40 mm (W) x 8 mm (T)	10		
PVC Pipe 200 mm ø 7.7mm wall thickness	200mm	40 mm (\M\) v 10 mm (T)	12	EI 120 U/C	
PVC Pipe 200 mm ø 9.6mm wall thickness	200mm	40 mm (W) x 10 mm (T)	12		



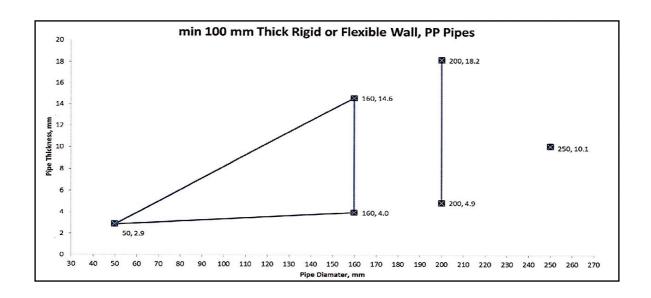




PP pipes with Astro X Series CE Pipe Wrap fixed to both sides of flexible or rigid wall

PP pipes according to EN 1451 with Astro X Series CE Pipe Wrap

Astro X Series CE Pipe	Astro X Series CE Pipe Wrap, Friction Fitted Flush to Both Sides of Flexible Wall or Rigid (min 100 mm thick) PP Pipes					
Penetration Specification	Wrap Reference	Intumescent Material	Annulus Space (mm)	Classification		
PP Pipe 50 mm ø 2.9 mm wall thickness	50 mm Astro X Series CE Pipe Wrap	40 mm (W) x 4 mm (T)	4	EI 120 U/C		
PP Pipe 160 mm ø 4.0 mm wall thickness	160 mm Astro X Series CE Pipe Wrap	40 mm (\M) v 8 mm (T)	10	E 120 U/C EI 90 U/C		
PP Pipe 160 mm ø 14.6 mm wall thickness	160 mm Astro X Series CE Pipe Wrap	40 mm (W) x 8 mm (T)	10	EI 120 U/C		
PP Pipe 200 mm ø 4.9 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 (141) 40 (7)	12	E 120 U/C EI 90 U/C		
PP Pipe 200 mm ø 18.2 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mm (W) x 10 mm (T)	12	EI 120 U/C		
PP Pipe 250 mm ø 10.1 mm wall thickness	250 mm Astro X Series CE Pipe Wrap	40 mm (W) x 14 mm (T)	14	E 120 U/C EI 20 U/C		



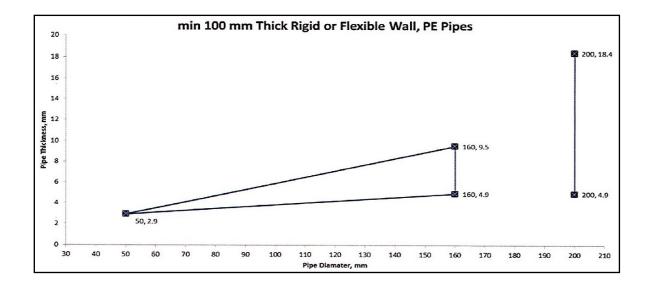




PE pipes with Astro X Series CE Pipe Wrap fixed to both sides of flexible or rigid wall

PE pipes according to DIN 8047/8075 and EN ISO 15494 with Astro X Series CE Pipe Wrap.

Astro X Series CE Pipe Wrap, Friction Fitted Flush to Both Sides of Flexible Wall or Rigid (min 100 mm thick) PE Pipes					
Penetration Specification	Wrap Reference	Intumescent Material	Annulus Space (mm)	Classification	
PE Pipe 50 mm ø 2.9 mm wall thickness	50 mm Astro X Series CE Pipe Wrap	40 mm (W) x 4 mm (T)	4	EI 120 U/C	
PE Pipe 160 mm ø 4.9 mm wall thickness	160 mm Astro X Series CE Pipe Wrap	40 mans (MA) v 9 mans (T)	10	EI 15 U/C	
PE Pipe 160 mm ø 9.5 mm wall thickness	160 mm Astro X Series CE Pipe Wrap	40 mm (W) x 8 mm (T)	10	EI 90 U/C	
PE Pipe 200 mm ø 4.9 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mm (M) v 40 mm (T)	12	EI 15 U/C	
PE Pipe 200 mm ø 18.4 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mm (W) x 10 mm (T)	12	EI 120 U/C	







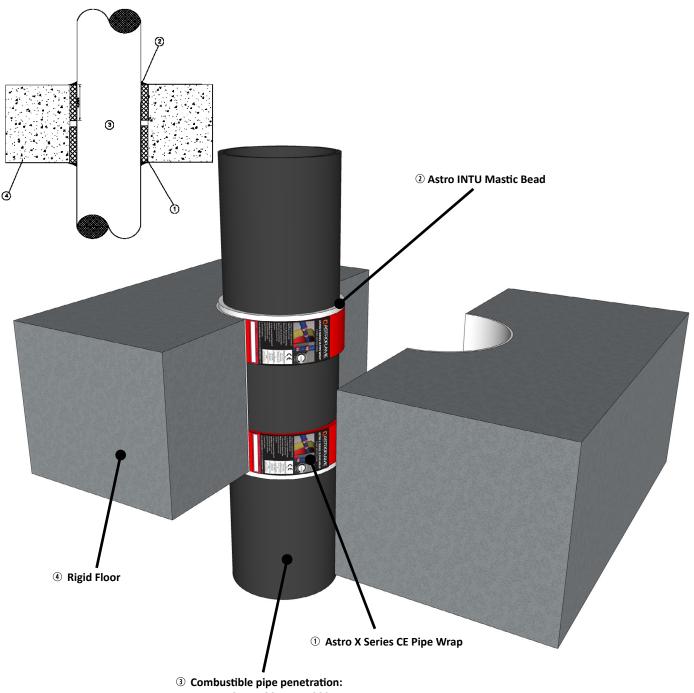
Resistance to Fire Classification of Astro X Series CE Pipe Wrap

Floor construction with thickness of minimum 150 mm

Penetration seal with Astro X Series CE Pipe Wrap fixed to both sides of rigid floor

Construction details: Combustible pipes fitted with a single Astro X Series CE Pipe Wrap to both sides. Maximum 10 mm annular space filled with Astro Intu Mastic.

ASTRO X SERIES CE PIPE WRAP EN 1366-3 FOR A RIGID FLOOR SYSTEM



• PP, PVC, PE - 32mm to 200mm

DET 43-0003 Date: 20/08/2016

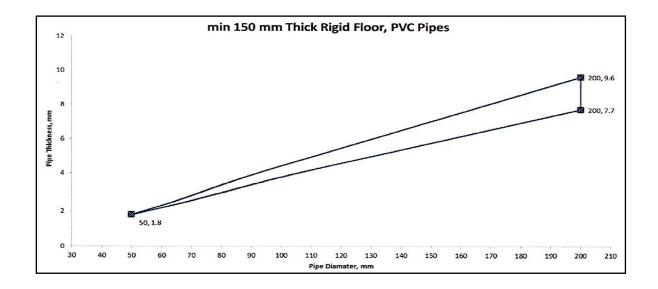




PVC-U pipes with Astro X Series CE Pipe Wrap fixed to both sides of rigid floor

PVC-Upipes according to EN 1452 with Astro X Series CE Pipe Wrap.

Astro X Series CE Pipe Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) PVC Pipes					
Penetration Specification	Wrap Reference	Intumescent Material	Annulus Space (mm)	Classification	
PVC Pipe 50 mm ø 1.8 mm wall thickness	50 mm Astro X Series CE Pipe Wrap	1 Layer of 40 mm (W) x 2 mm (T) 1 Layer of 40 mm (W) x 2 mm (T) Combined Thickness 40 mm (W) x 4 mm (T)	4	EI 120 U/C	
PVC Pipe 200 mm ø 7.7 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mag (M) v 10 mag (T)	12	EI 120 U/C	
PVC Pipe 200 mm ø 9.6 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mm (W) x 10 mm (T)	12	EI 60 U/C	



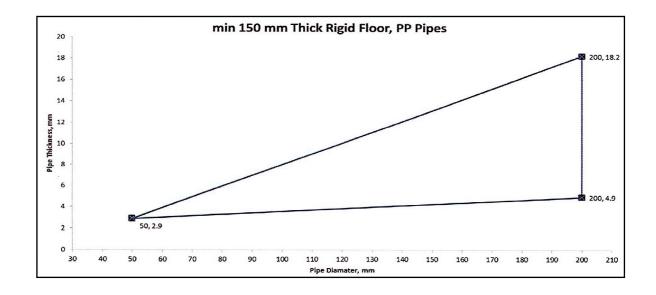




PP pipes with Astro X Series CE Pipe Wrap fixed to both sides of rigid floor

PP pipes according to EN 1451 with Astro X Series CE Pipe Wrap.

Astro X Series CE Pipe Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) PP Pipes					
Penetration Specification	Wrap Reference	Intumescent Material	Annulus Space (mm)	Classification	
PP Pipe 50 mm ø 2.9 mm wall thickness	50 mm Astro X Series CE Pipe Wrap	1 Layer of 40 mm (W) x 2 mm (T) 1 Layer of 40 mm (W) x 2 mm (T) Combined Thickness 40 mm (W) x 4 mm (T)	4	EI 120 U/C	
PP Pipe 200 mm ø 4.9 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mag (M) v 10 mag (T)	10	E 20 U/C EI 15 U/C	
PP Pipe 200 mm ø 18.2 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mm (W) x 10 mm (T)	10	E 120 U/C EI 90 U/C	



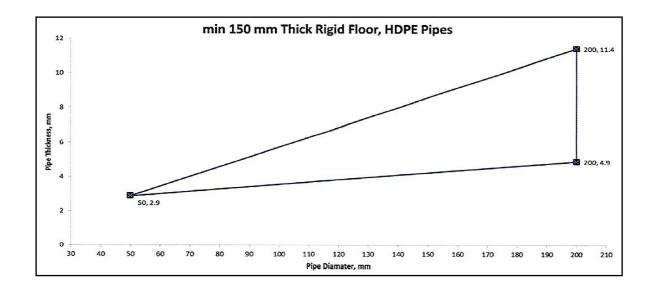




HDPE pipes with Astro X Series CE Pipe Wrap fixed to both sides of rigid floor

HDPE pipes according to DIN 8047/8075 and EN1519 with Astro X Series CE Pipe Wrap.

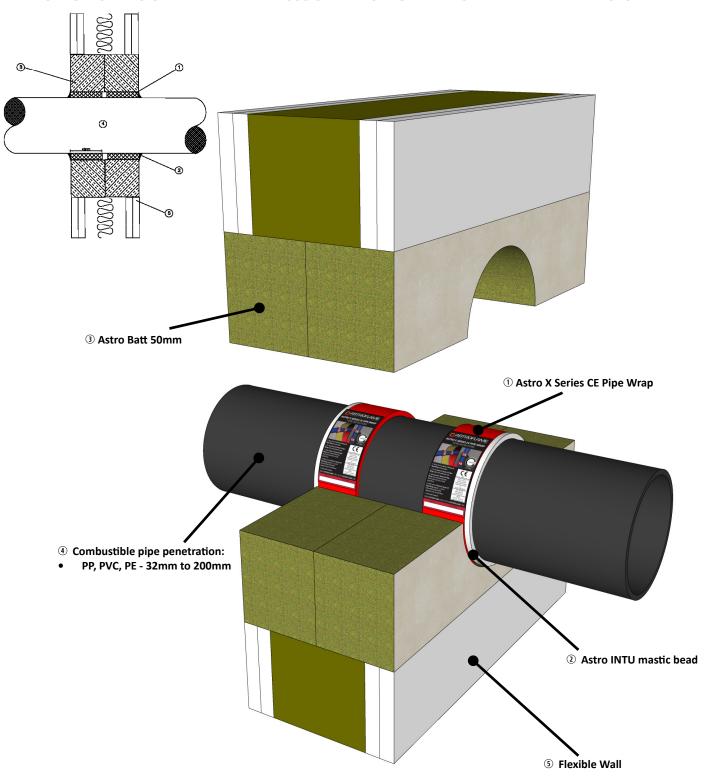
Astro X Series CE Pipe Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) HDPE Pipes					
Penetration Specification	Wrap Reference	Intumescent Material	Annulus Space (mm)	Classification	
HDPE Pipe 50 mm ø 2.9 mm wall thickness	50 mm Astro X Series CE Pipe Wrap	1 Layer of 40 mm (W) x 2 mm (T) 1 Layer of 40 mm (W) x 2 mm (T) Combined Thickness 40 mm (W) x 4 mm (T)	4	EI 120 U/C	
HDPE Pipe 200 mm ø 4.9 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mag (M) v 10 mag (T)	12	EI 120 U/C	
HDPE Pipe 200 mm ø 11.4 mm wall thickness	200 mm Astro X Series CE Pipe Wrap	40 mm (W) x 10 mm (T)	12	EI 120 U/C	







ASTRO X SERIES CE PIPE WRAP EN 1366-3 IN A ASTRO BATT FOR A FLEXIBLE WALL SYSTEM

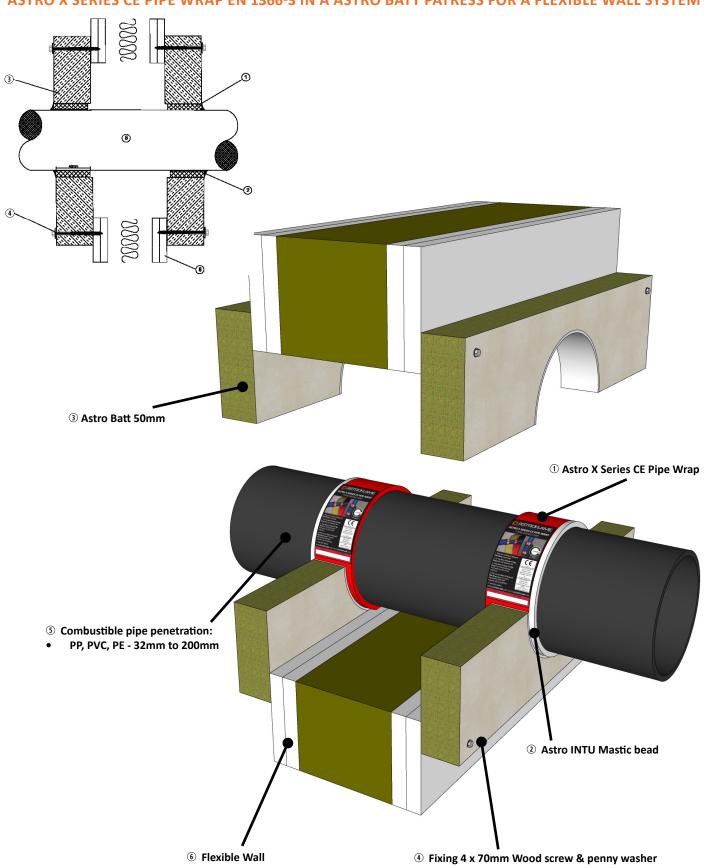


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ASTRO X SERIES CE PIPE WRAP EN 1366-3 IN A ASTRO BATT PATRESS FOR A FLEXIBLE WALL SYSTEM



DET 43-0005 Date: 20/08/2016

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Installation

We have technical representatives who provide assistance in the selection and specification of the products on this site and should be consulted for exact installation and product suitability. Ensure an early engagement with ourselves, designers, main contractor and specialist installers before any installation. Other trades and/or manufacturers may need to be consulted. For in-depth information, specification and technical advice please call our Head Office on tel <a href="mailto:other-trades-needle-base-cond-technical-

Maintenance

All interested parties, designer, specifier, main contractor and specialist installers should provide access to allow the fire stopping seals to be regularly inspected and maintained, as well as records kept of such maintenance at minimum periods of 12 months, as required by the Regulatory Reform Order, and repaired if necessary. Reference should be made to ASFP TGD 17 – Code of Practice for the Installation and Inspection of Fire Stopping.

Competency

It is vital that those entrusted to design or install a fire stopping product have the necessary levels of competence to undertake the task professionally and thoroughly. The level of competency required will be commensurate with the expected complexity of the building. All designers must eliminate, reduce or control foreseeable risks that may arise during installation, construction or maintenance when preparing or modifying designs. Clients should ensure that the principal designer and principal contractor carry out their duties under CDM regulations. The ASFP foundation course in passive fire protection provides essential knowledge as part of demonstrating competency and understanding in this key fire protection specialism.

Additional Notes

Please refer to the ETA/UL-EU sheet for fields of application for this product. For further information on installation requirements please refer to the pipe manufacturer data and wall specification to ensure the compatibility of this product, If in doubt please contact the technical team with services and wall specification on: tel <u>01329 844 500</u> or email <u>sales@astroflame.com</u>

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