UL-EU CERTIFICATE

Certificate No. UL-EU-01234-CPR

Page 1/10

Date of Issue 2021-12-16

> Unit 8, I.O Centre, Stephenson Road, Segensworth,

Fareham, PO15 5RU

Manufacturer A/008

Certified Product Type Fire Stop – Pipe Wrap

Product Trade Name Astro X Series CE Pipe Wrap

Trademark N/A

Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-2 / EN 13501-2 / EN 13501-1

Expiry date 2031-12-15





Authorized Certification Decision Maker Chris Miles This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



Certificate No. UL-EU-01234-CPR

Page 2/10

Date of Issue 2021-12-16

This certificate relates to the use of Astro X Series CE Pipe Wrap for fire stopping where services penetrate floors and walls. The detailed scope is given in pages 3 to 5 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes (EI 240).

The product is certificated on the basis of:

- i) Inspection and surveillance of factory production control by UL
- ii) Fire resistance test data in accordance with 1366-3: 2009
- iii) Classification in accordance with EN 13501-2
- iv) Classification in accordance with EN 13501-1
- v) Durability and Servicability as defined in ETAG 026-2

The durability class of Astro X Series CE Pipe Wrap is X - intended for use in conditions exposed to weathering (includes all lower classes).

Form-ULID-006104 (DCS:27-CP-F0855) 5.0



Certificate No. UL-EU-01234-CPR

Page 3/10

Date of Issue 2021-12-16

Product-type: Pipe Wrap	Intended use: Pene	tration Seal
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
	BWR 1 Mechanical resistance and stabili	ty
人ピスピスツ	None	しんりしんりしんり
$\times \times \times$	BWR 2 Safety in case of fire	$\langle \times \times \rangle$
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	See page 5
VII. VII. VII.	BWR 3 Hygiene, health and environmen	t / m. //m. //m
EN 1026:2000	Air permeability (material property)	No performance determined
ETAG 026-3, Annex C	Water permeability (material property)	No performance determined
Declaration of manufacturer	Release of dangerous substances	Use category IA1, S/W3 Declaration of manufacturer
Vii Vii Vii	BWR 4 Safety in use	N/iiN/iiN/ii
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 ISO 11600	Adhesion	No performance determined
Vii. Vii. Vii.	BWR 5 Protection against noise	Mil.Mil.Mi
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	No performance determined
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined
)(U ₁)(U ₁)(U ₂	BWR 6 Energy economy and heat retention	on
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
YU YU YU	General aspects relating to fitness for use	e
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	X
N T N T N T N T B	WR 7 Sustainable use of natural resource	ees
\sim		No performance determined

Form-ULID-006104 (DCS:27-CP-F0855) 5.0



Certificate No. UL-EU-01234-CPR

Page 4/10

Date of Issue 2021-12-16

Substrate	Minimum Substrate Thickness (mm) Annular gap seal of Astro intu mastic (mm)	Wrap Position WXT	WXT	Reference	Pipe	Resis	ire stance ns.)*	
			1 ostron	(mm)			E	El
-Vu	- Willia	$V \oplus V$	II-V	ii Y	32 mm Astro X Series CE Pipe Wrap	32 mm Ø PVC with 1.8mm wall thickness	V11	
		4 (to both faces of floor)		40 x 4	40 mm Astro X Series CE Pipe Wrap	40 mm Ø PVC with 1.8mm wall thickness	120	120
Concrete floor	150	VII.\	Both sides	ii.V	50 mm Astro X Series CE Pipe Wrap	50 mm Ø PVC with 1.8mm wall thickness	1/11	
		12 (to both	ᄔ	40 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø PVC with 7.7mm wall thickness	120	90
$\langle \cdot \rangle$	faces of floor)	40 x	40 x 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø PVC with 9.6mm wall thickness	60	60	
8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	50,18	100 110 120 130 140 Pipe Damater, mm	150 160 170 18	200,77 10 190 200 230	20 30 40 50 66	0 70 80 90 100 110 120 130 140 150 160 170 180 **Pipe Diamater, mm**	190 200 210	2/ 2/
		3	Plastic Pipes	PVC accordin	ng to EN 1452, U/C, floor ≥ 150	mm - El 120		
		apig apig 1	1.8	40, 1.8	50,18			
		0.5		40	50 Pipe Diamater, mm	60		

* Uncapped/Capped (U/C)



Certificate No. UL-EU-01234-CPR

Page 5/10

Date of Issue 2021-12-16

Substrate	Minimum Substrate Thickness	Annular gap seal of Astro intu	Wrap Position	Inlay W X T	Reference	Pipe	Fire Resistance (mins.)*	
	(mm)	mastic (mm)	1 OSICIOII	(mm)			E	El
	·Yu·	Y_{U}	U÷Y	u Y	32 mm Astro X Series CE Pipe Wrap	32 mm Ø PP with 2.9mm wall thickness	VШ	
		4 (to both faces of floor)		40 x 4	40 mm Astro X Series CE Pipe Wrap	40 mm Ø PP with 2.9mm wall thickness	120	120
Concrete floor	150		Both sides	11. V	50 mm Astro X Series CE Pipe Wrap	50 mm Ø PP with 2.9mm wall thickness	Viii	
		12 (to both	J-PV	40 x 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø PP with 4.9mm wall thickness	20	15
1/2		faces of floor)		10 11 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø PP with 18.2mm wall thickness	120	9
E 12 12 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	50,29	100 110 120 130 140 Pipe Diamater, mm	150 160 170 1	8 200,49	to EN 1451, U/C, floor ≥ 15	70 80 90 100 110 120 130 140 150 160 170 180 Pipe Diamster, rum	190 200 2	10
		3.5 - 3 - 32,2.9 Leaving and a 1.5 - 1 - 0.5 -		40, 2.9		0, 2.9		
	$\langle $	0 30		40	50	60		

* Uncapped/Capped (U/C)

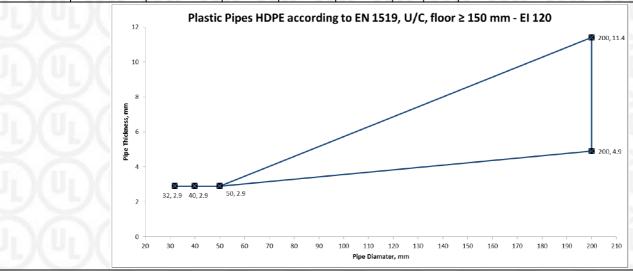
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Certificate No. UL-EU-01234-CPR

Page 6/10

Date of Issue 2021-12-16

Substrate Substrate Thickness (mm)	Substrate	Substrate gap seal of	gap seal of Wrap Inlay	Reference	Pipe	Fire Resistance (mins.)*												
	mastic (mm)	1 OSITION	(mm)			E	EI											
i Vii	-Yu-	150	II-V	II Y	32 mm Astro X Series CE Pipe Wrap	32 mm Ø HDPE with 2.9mm wall thickness	/11											
Concrete floor 150				40 x 4	40 x 4	40 x 4	40 x 4	40 x 4	40 x 4	40 x 4	40 x 4	40 x 4	40 x 4	40 x 4	40 mm Astro X Series CE Pipe Wrap	40 mm Ø HDPE with 2.9mm wall thickness	K	5/
	150		Both sides		50 mm Astro X Series CE Pipe Wrap	50 mm Ø HDPE with 2.9mm wall thickness	ess 120	120										
	LJ(UL)		ᄔ	40 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø HDPE with 4.9mm wall thickness	V.											
	faces of floor)	\times	40 x 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø HDPE with 11.4mm wall thickness	À												



^{*} Uncapped/Capped (U/C)

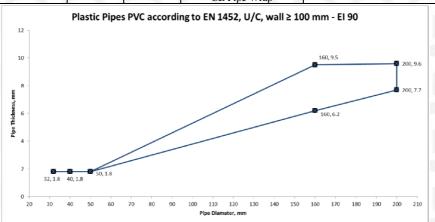


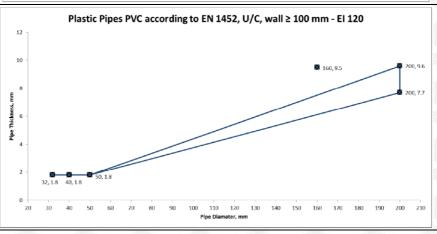
Certificate No. UL-EU-01234-CPR

Page 7/10

Date of Issue 2021-12-16

Substrate Substrate Thickness (mm)	Substrate	ostrate gap seal of Astro intu	gap seal of	gap seal of	gap seal of	Wrap Position	Inlay W X T	Reference	Pipe	Resis	ire stance ns.)*
		mastic		(mm)			E	EI			
i Vii Vii	Mu^{3}	Ali Vii V	H-VII-VI	u-V	ii.Y	32 mm Astro X Series CE Pipe Wrap	32 mm Ø PVC with 1.8mm wall thickness	$\sqrt{11}$			
		4 (to both faces of floor)		40 x 2	40 mm Astro X Series CE Pipe Wrap	40 mm Ø PVC with 1.8mm wall thickness	120	120			
Flexible/	N/III	/ii.\/	ii.V	11.\	50 mm Astro X Series CE Pipe Wrap	50 mm Ø PVC with 1.8mm wall thickness					
Concrete/ Masonry	100	100	Both sides 40 x 8	40 8	160 mm Astro X Series CE Pipe Wrap	160mm Ø PVC with 6.2mm wall thickness		90			
wall				160 mm Astro X Series CE Pipe Wrap	160mm Ø PVC with 9.5mm wall thickness						
	L)(UL		$U_L)($	10 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø PVC with 7.7mm wall thickness	120	120			
< >		faces of floor)	40 x 10		200 mm Astro X Series CE Pipe Wrap	200mm Ø PVC with 9.6mm wall thickness					





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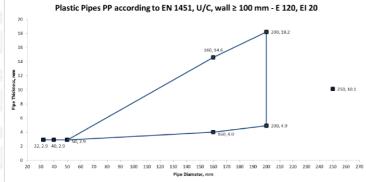
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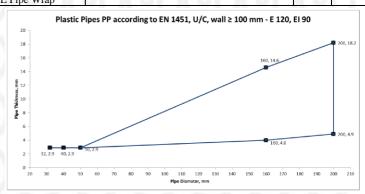
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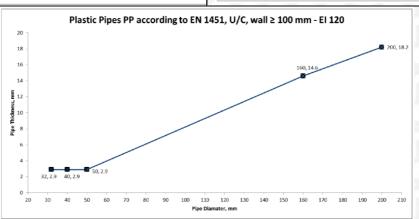
Page 8/10

Date of Issue 2021-12-16

Substrate	Minimum Substrate Thickness (mm)	Annular gap seal of Astro intu mastic (mm)	Wrap Position	Inlay W X T (mm)	Reference	Pipe	Resis	ire stance ns.)* EI
ι-Vii	-Viii-	VII. V	II-V	II. V	32 mm Astro X Series CE Pipe Wrap	32 mm Ø PP with 2.9mm wall thickness	/11	
		4 (to both faces of floor)	J	40 x 2	40 mm Astro X Series CE Pipe Wrap	40 mm Ø PP with 2.9mm wall thickness	120	120
	MIL		ii.V		50 mm Astro X Series CE Pipe Wrap	50 mm Ø PP with 2.9mm wall thickness		
Flexible/ Concrete/	100	10 (to both	Both sides 40 x	40 x 8	160 mm Astro X Series CE Pipe Wrap	160mm Ø PP with 4.0mm wall thickness	120	90
Masonry wall	100	faces of floor) 12 (to both faces of floor)			160 mm Astro X Series CE Pipe Wrap	160mm Ø PP with 14.6mm wall thickness	120	120
	L)(UL		UL)(40 40	200 mm Astro X Series CE Pipe Wrap	200mm Ø PP with 4.9mm wall thickness	120	90
	<>		40 x 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø PP with 18.2mm wall thickness	120	120	
i Yu	- Wu-	14 (to both faces of floor)	Ur Y	40 x 12	250 mm Astro X Series CE Pipe Wrap	250mm Ø PP with 10.1mm wall thickness	120	20







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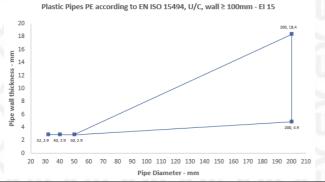
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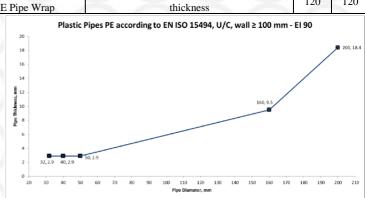
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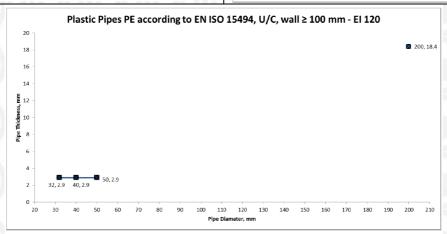
Page 9/10

Date of Issue 2021-12-16

Substrate Substrate	Minimum Substrate Thickness	eate gap seal of Astro intu	gap seal of Astro intu	gap seal of Astro intu	gap seal of Astro intu	gap seal of Astro intu	gap seal of Astro intu	gap seal of Astro intu	Wrap Position	Inlay W X T	Reference	Pipe	Resis	ire stance ns.)*
	(mm)	mastic (mm)		(mm)			E	EI						
ıΥu	Mu^{3}	$V \cap V$	u-V	u Y	32 mm Astro X Series CE Pipe Wrap	32 mm Ø HDPE with 2.9mm wall thickness	ИU							
5 /CB		4 (to both faces of floor)		40 x 2	40 mm Astro X Series CE Pipe Wrap	40 mm Ø HDPE with 2.9mm wall thickness	120	120						
Flexible/	N/ii	/ii\/i	D-4h		50 mm Astro X Series CE Pipe Wrap	50 mm Ø HDPE with 2.9mm wall thickness								
Concrete/ Masonry	100		Both sides	40 9	160 mm Astro X Series CE Pipe Wrap	160mm Ø HDPE with 4.9mm wall thickness	15	15						
wall	$\langle \times \rangle$		\sim	40 x 8	160 mm Astro X Series CE Pipe Wrap	160mm Ø HDPE with 9.5mm wall thickness	90	90						
	L)(UL		U _L)(40 x 10	200 mm Astro X Series CE Pipe Wrap	200mm Ø HDPE with 4.9mm wall thickness	15	15						
	< > <		\approx		200 mm Astro X Series CE Pipe Wrap	200mm Ø HDPE with 18.4mm wall thickness	120	120						







* Uncapped/Capped (U/C)

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Appendix UL-EU Certificate

Certification Mark UL-EU mark

Certificate No. UL-EU-01234-CPR

Page 10/10

Date of Issue 2021-12-16

The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com.

Form-ULID-006104 (DCS:27-CP-F0855) 5.0

