

UL-EU CERTIFICATE

Certificate No. UL-EU-01171-CPR

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Date of Issue 2021-03-29

Certificate Holder PFC Corofil
Units 3 & 4 King Georges Industrial Estate,
Davis Road,
Chessington,
KT9 1TT

Manufacturer A/008

Certified Product Type Fire Stop – Pipe Wrap
Product Trade Name PFC Corofil Intumescent Pipe Wrap
Trademark N/A
Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-2 / EN 13501-2 / EN 13501-1
Expiry date 2031-03-28



A handwritten signature in purple ink, appearing to read 'Chris Miles'.

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of PFC Corofil Intumescent Pipe Wrap for fire stopping where services penetrate floors and walls. The detailed scope is given in pages 3 to 9 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 PFC Corofil Intumescent Pipe Wrap is X - intended for use in conditions exposed to weathering (includes all lower classes).



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| | | |
|--|--|---|
| Product-type: Pipe Wrap | | Intended use: Penetration Seal |
| Basic requirement for construction work | Basic Requirement | Basic requirement for construction work |
| BWR 1 Mechanical resistance and stability | | |
| - | None | - |
| BWR 2 Safety in case of fire | | |
| EN 13501-1 | Reaction to fire | Class E |
| EN 13501-2 | Resistance to fire | See pages 4-9 |
| BWR 3 Hygiene, health and environment | | |
| 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 |
| 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 ISO 11600 | Adhesion | No performance determined |
| BWR 5 Protection against noise | | |
| 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 |
| 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 | | |
| ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003 | Durability and serviceability | X |
| BWR 7 Sustainable use of natural resources | | |
| - | - | No performance determined |



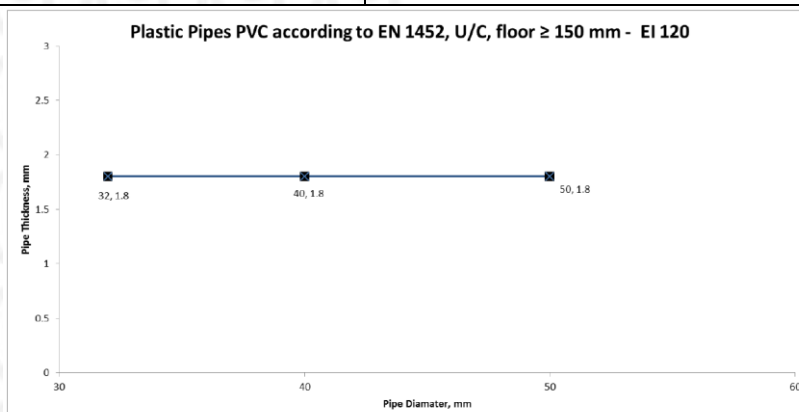
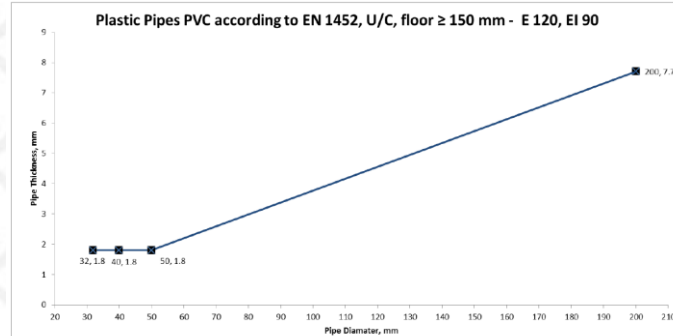
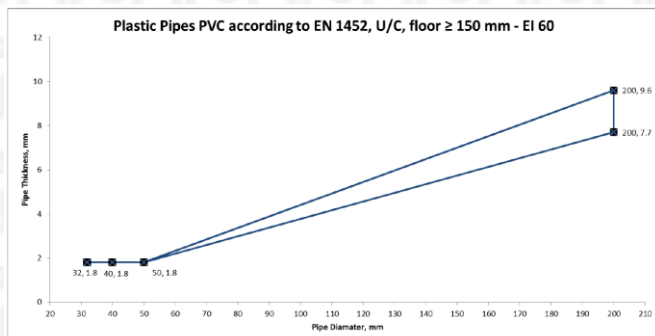
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| Substrate | Minimum Substrate Thickness (mm) | Annular gap seal of PFC Corofil Acoustic Intumescent Sealant (mm) | Wrap Position | Inlay W X T (mm) | Reference | Pipe | Fire Resistance (mins.)* | |
|----------------|----------------------------------|---|---------------|------------------|--|---------------------------------------|--------------------------|-----|
| | | | | | | | E | EI |
| Concrete floor | 150 | 4 (to both faces of floor) | Both sides | 40 x 4 | 32 mm PFC Corofil Intumescent Pipe Wrap | 32 mm Ø PVC with 1.8mm wall thickness | 120 | 120 |
| | | | | | 40 mm PFC Corofil Intumescent Pipe Wrap | 40 mm Ø PVC with 1.8mm wall thickness | | |
| | | | | | 50 mm PFC Corofil Intumescent Pipe Wrap | 50 mm Ø PVC with 1.8mm wall thickness | | |
| | | 12 (to both faces of floor) | Both sides | 40 x 10 | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PVC with 7.7mm wall thickness | 120 | 90 |
| | | | | | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PVC with 9.6mm wall thickness | 60 | 60 |
| | | | | | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PVC with 9.6mm wall thickness | 60 | 60 |



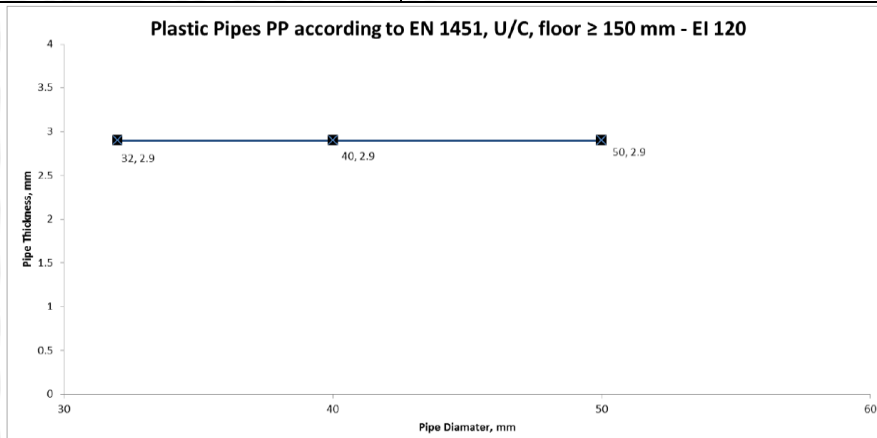
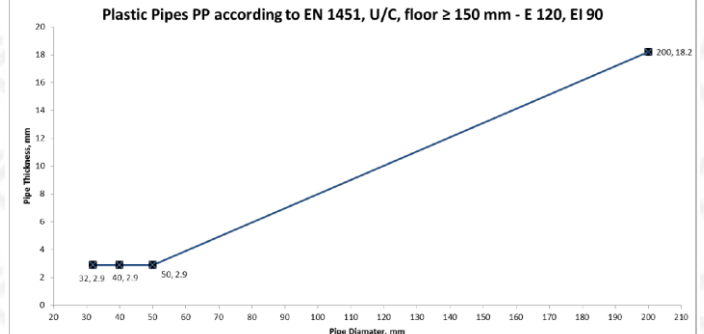
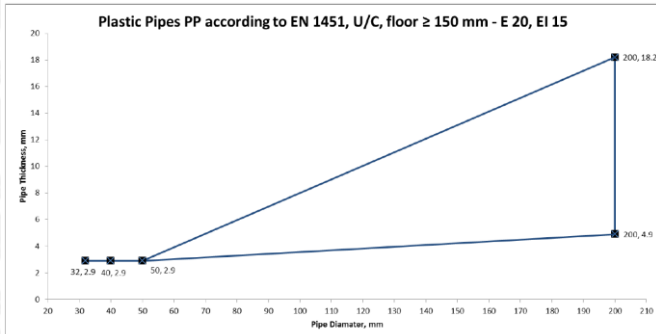
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| Substrate | Minimum Substrate Thickness (mm) | Annular gap seal of PFC Corofil Acoustic Intumescent Sealant (mm) | Wrap Position | Inlay W X T (mm) | Reference | Pipe | Fire Resistance (mins.)* | | |
|----------------|----------------------------------|---|---------------|------------------|--|---------------------------------------|--------------------------|-----|--|
| | | | | | | | E | EI | |
| Concrete floor | 150 | 4 (to both faces of floor) | Both sides | 40 x 4 | 32 mm PFC Corofil Intumescent Pipe Wrap | 32 mm Ø PP with 2.9mm wall thickness | 120 | 120 | |
| | | | | | 40 mm PFC Corofil Intumescent Pipe Wrap | 40 mm Ø PP with 2.9mm wall thickness | | | |
| | | | | | 50 mm PFC Corofil Intumescent Pipe Wrap | 50 mm Ø PP with 2.9mm wall thickness | | | |
| | | 12 (to both faces of floor) | | 40 x 10 | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PP with 4.9mm wall thickness | 20 | 15 | |
| | | | | | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PP with 18.2mm wall thickness | 120 | 9 | |
| | | | | | | | | | |



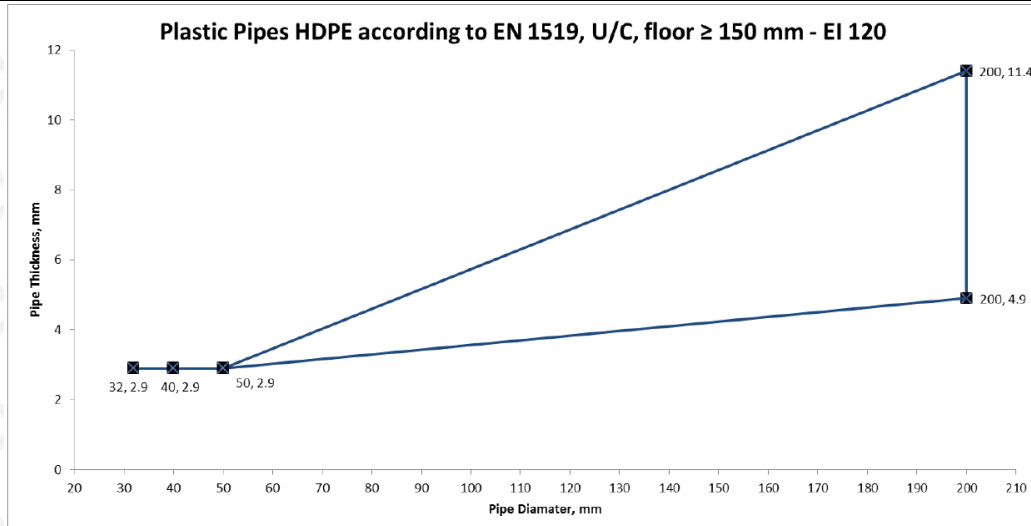
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| Substrate | Minimum Substrate Thickness (mm) | Annular gap seal of PFC Corofil Acoustic Intumescent Sealant (mm) | Wrap Position | Inlay W X T (mm) | Reference | Pipe | Fire Resistance (mins.)* | | |
|----------------|----------------------------------|---|---------------|------------------|--|---|--------------------------|-----|--|
| | | | | | | | E | EI | |
| Concrete floor | 150 | 4 (to both faces of floor) | Both sides | 40 x 4 | 32 mm PFC Corofil Intumescent Pipe Wrap | 32 mm Ø HDPE with 2.9mm wall thickness | 120 | 120 | |
| | | | | | 40 mm PFC Corofil Intumescent Pipe Wrap | 40 mm Ø HDPE with 2.9mm wall thickness | | | |
| | | | | | 50 mm PFC Corofil Intumescent Pipe Wrap | 50 mm Ø HDPE with 2.9mm wall thickness | | | |
| | | 12 (to both faces of floor) | | 40 x 10 | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø HDPE with 4.9mm wall thickness | | | |
| | | | | | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø HDPE with 11.4mm wall thickness | | | |
| | | | | | | | | | |



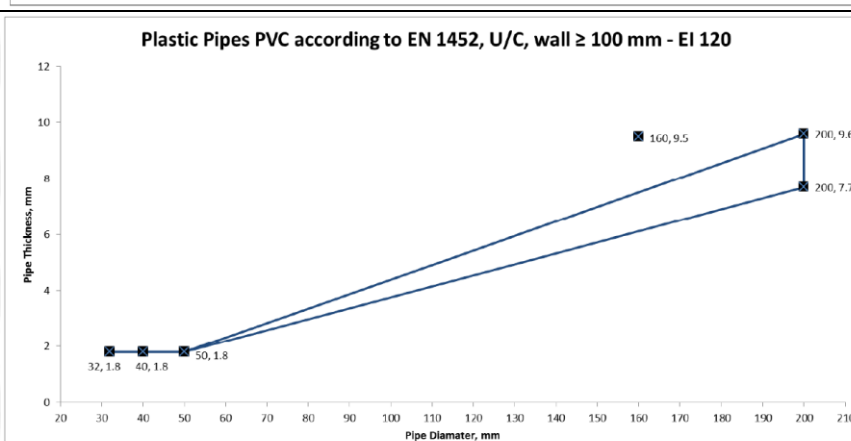
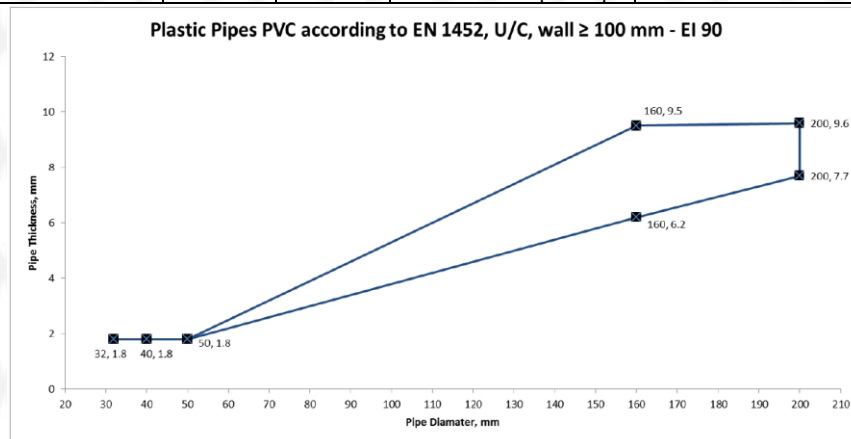
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| Substrate | Minimum Substrate Thickness (mm) | Annular gap seal of PFC Corofil Acoustic Intumescent Sealant (mm) | Wrap Position | Inlay W X T (mm) | Reference | Pipe | Fire Resistance (mins.)* | |
|----------------------------------|----------------------------------|---|---------------|------------------|--|---------------------------------------|--------------------------|-----|
| | | | | | | | E | EI |
| Flexible/ Concrete/ Masonry wall | 100 | 4 (to both faces of floor) | Both sides | 40 x 2 | 32 mm PFC Corofil Intumescent Pipe Wrap | 32 mm Ø PVC with 1.8mm wall thickness | 120 | 120 |
| | | | | | 40 mm PFC Corofil Intumescent Pipe Wrap | 40 mm Ø PVC with 1.8mm wall thickness | | |
| | | | | | 50 mm PFC Corofil Intumescent Pipe Wrap | 50 mm Ø PVC with 1.8mm wall thickness | | |
| | | 10 (to both faces of floor) | | 40 x 8 | 160 mm PFC Corofil Intumescent Pipe Wrap | 160mm Ø PVC with 6.2mm wall thickness | 90 | 90 |
| | | | | | 160 mm PFC Corofil Intumescent Pipe Wrap | 160mm Ø PVC with 9.5mm wall thickness | 120 | 120 |
| | | 12 (to both faces of floor) | | 40 x 10 | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PVC with 7.7mm wall thickness | | |
| | | | | | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PVC with 9.6mm wall thickness | | |



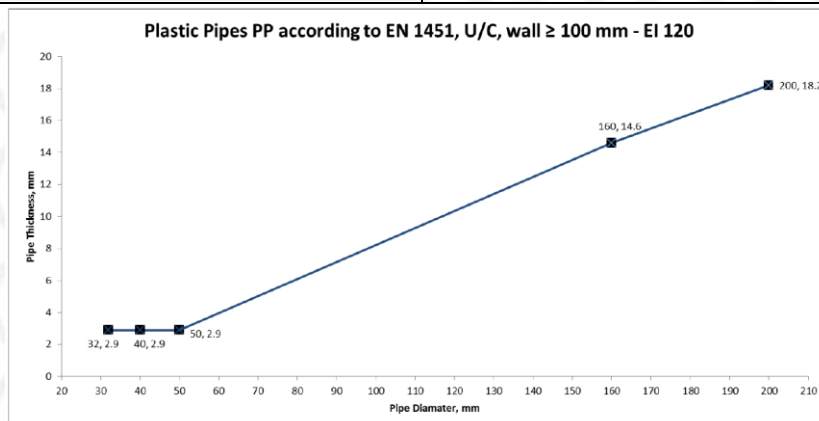
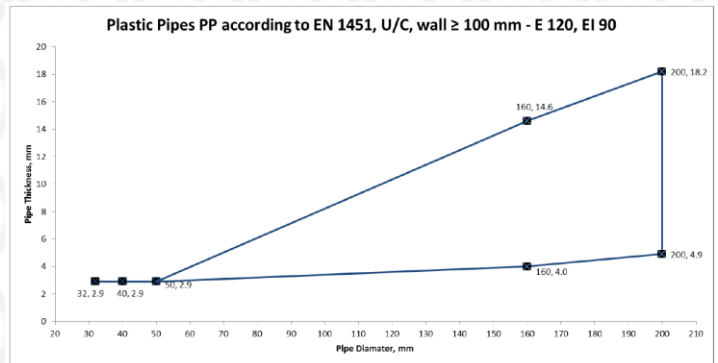
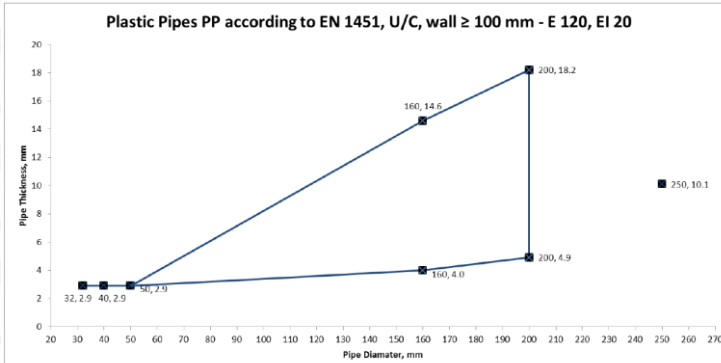
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| Substrate | Minimum Substrate Thickness (mm) | Annular gap seal of PFC Corofil Acoustic Intumescent Sealant (mm) | Wrap Position | Inlay W X T (mm) | Reference | Pipe | Fire Resistance (mins.)* | |
|----------------------------------|----------------------------------|---|---------------|------------------|--|---------------------------------------|--------------------------|-----|
| | | | | | | | E | EI |
| Flexible/ Concrete/ Masonry wall | 100 | 4 (to both faces of floor) | Both sides | 40 x 2 | 32 mm PFC Corofil Intumescent Pipe Wrap | 32 mm Ø PP with 2.9mm wall thickness | 120 | 120 |
| | | | | | 40 mm PFC Corofil Intumescent Pipe Wrap | 40 mm Ø PP with 2.9mm wall thickness | | |
| | | | | | 50 mm PFC Corofil Intumescent Pipe Wrap | 50 mm Ø PP with 2.9mm wall thickness | | |
| | | 10 (to both faces of floor) | | 40 x 8 | 160 mm PFC Corofil Intumescent Pipe Wrap | 160mm Ø PP with 4.0mm wall thickness | 120 | 90 |
| | | | | | 160 mm PFC Corofil Intumescent Pipe Wrap | 160mm Ø PP with 14.6mm wall thickness | 120 | 120 |
| | | 12 (to both faces of floor) | | 40 x 10 | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PP with 4.9mm wall thickness | 120 | 90 |
| | | | | | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø PP with 18.2mm wall thickness | 120 | 120 |
| | | 14 (to both faces of floor) | | 40 x 12 | 250 mm PFC Corofil Intumescent Pipe Wrap | 250mm Ø PP with 10.1mm wall thickness | 120 | 20 |



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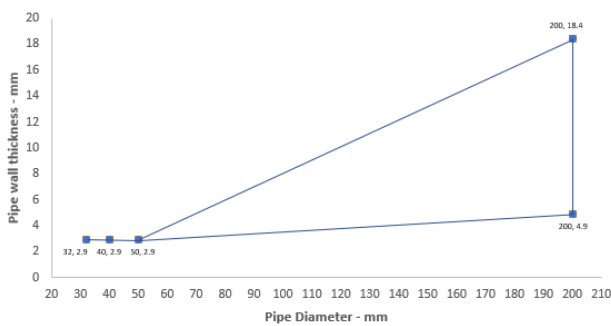


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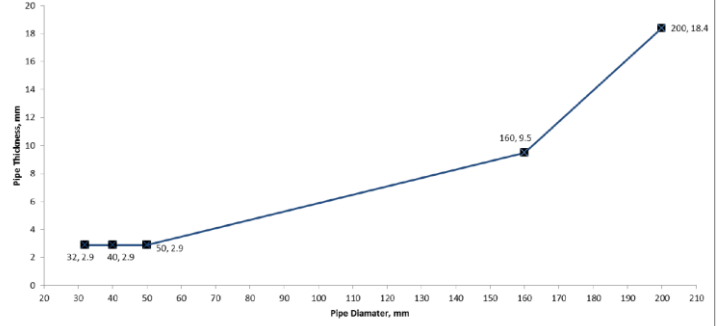
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| Substrate | Minimum Substrate Thickness (mm) | Annular gap seal of PFC Corofil Acoustic Intumescent Sealant (mm) | Wrap Position | Inlay W X T (mm) | Reference | Pipe | Fire Resistance (mins.)* | |
|--------------------------------|----------------------------------|---|---------------|------------------|--|---|--------------------------|-----|
| | | | | | | | E | EI |
| Flexible/Concrete/Masonry wall | 100 | 4 (to both faces of floor) | Both sides | 40 x 2 | 32 mm PFC Corofil Intumescent Pipe Wrap | 32 mm Ø HDPE with 2.9mm wall thickness | 120 | 120 |
| | | | | | 40 mm PFC Corofil Intumescent Pipe Wrap | 40 mm Ø HDPE with 2.9mm wall thickness | | |
| | | | | | 50 mm PFC Corofil Intumescent Pipe Wrap | 50 mm Ø HDPE with 2.9mm wall thickness | | |
| | | 10 (to both faces of floor) | | 40 x 8 | 160 mm PFC Corofil Intumescent Pipe Wrap | 160mm Ø HDPE with 4.9mm wall thickness | 15 | 15 |
| | | | | | 160 mm PFC Corofil Intumescent Pipe Wrap | 160mm Ø HDPE with 9.5mm wall thickness | 90 | 90 |
| | | 12 (to both faces of floor) | | 40 x 10 | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø HDPE with 4.9mm wall thickness | 15 | 15 |
| | | | | | 200 mm PFC Corofil Intumescent Pipe Wrap | 200mm Ø HDPE with 18.4mm wall thickness | 120 | 120 |
| | | | | | | | | |

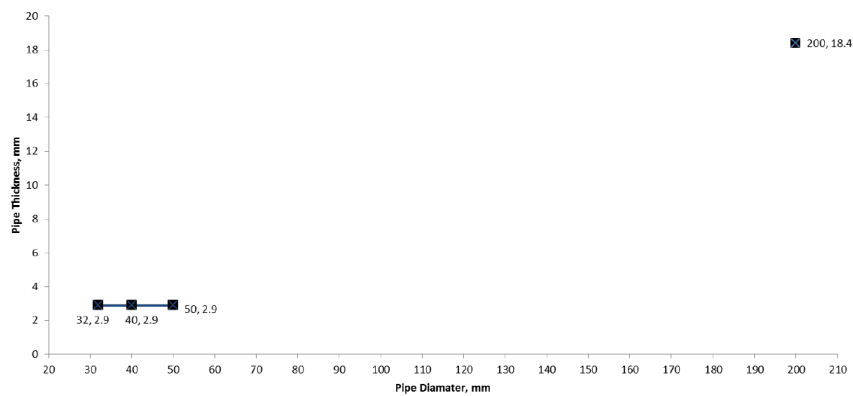
Plastic Pipes PE according to EN ISO 15494, U/C, wall ≥ 100mm - EI 15



Plastic Pipes PE according to EN ISO 15494, U/C, wall ≥ 100 mm - EI 90



Plastic Pipes PE according to EN ISO 15494, U/C, wall ≥ 100 mm - EI 120



* Uncapped/Capped (U/C)



Appendix UL-EU Certificate

| | |
|---------------------------|-------------------|
| Certification Mark | UL-EU mark |
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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

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