UL-EU CERTIFICATE

Certificate No.
UL-EU-01022-EN

Issue date
2016-05-27

Issue No.
5

Re-Issue date
2026-05-01

Expiry date
2036-04-30

This is to acknowledge that:
FSi Limited

Address:
Westminster Industrial Estate
Tamworth Road
Measham
DE12 7DS
United Kingdom

Has had the product:
PipeBloc PWP

evaluated and meets the requirements of the standards:

EAD 350454-00-1104 / EN 13501-2 / EN 13501-1

Places of production:
A/008 & X/001

Authorised Signatory:

Chris Johnson
Issued by UL International (UK) Ltd

UKAS PRODUCT CERTIFICATION
4705

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 PipeBloc PWP for fire stopping where services penetrate floors and walls. The detailed scope is given in pages 3 to 16 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 EN 1366-3: 2009.
iii) Classification in accordance with EN 13501-2
iv) Classification in accordance with EN 13501-1
ii) Durability and Serviceability as defined in EAD 350454-00-1104

The durability class of PipeBloc PWP is X - intended for use in conditions exposed to weathering (includes all lower classes).

According to EN 1366-3: 2021+A1: 2024, Clause H.4.1.8.6.2, the following end uses are envisaged* based upon the tested pipe end configuration:

Pipe material	Tested pipe end	Envisaged use scenario
Metal	C/U or C/C	Closed pipe systems (e.g. systems under pressure)
	U/U, U/C or C/U	Ventilated pipe systems (e.g. sewage pipes) and for closed pipe systems
Plastic	U/U or C/U	Ventilated pipe systems and for closed pipe systems
	U/U	Ventilated pipe systems, for rainwater systems and for closed pipe systems

* In the case where a national prescription is in conflict with the content of the table above, the national prescriptions prevail.

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Product-type: Pipe Wrap	Intended use: Penetration Seal	
Assessment method	Essential characteristic	Product Performance
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	See pages 4 - 16
BWR 3 Hygiene, health and environment		
EN 1026	Air permeability	No performance determined
EAD 350454-00-1104, Annex C	Water permeability	No performance determined
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Use categories: IA1, S/W2 Declaration of manufacturer
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	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
EAD 350454-00-1104, Clause 2.2.9	Durability	X
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	No performance determined
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 14683, EN ISO 10211, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined

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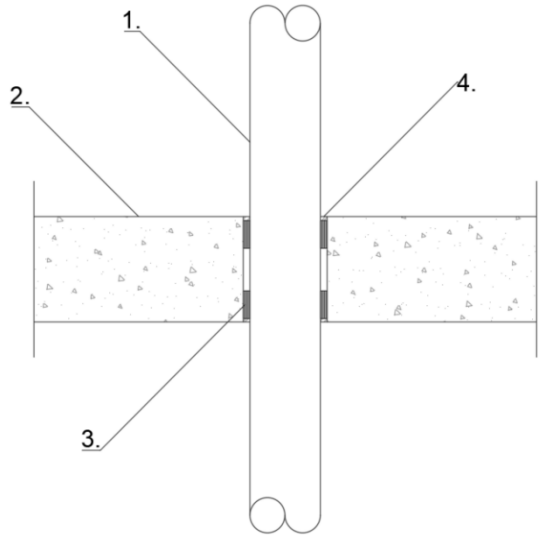
Floors

Rigid Floors Minimum Thickness 150 mm

Plastic pipes

Rigid Floors ≥150 mm



Key

1. Plastic Pipe
2. Rigid floor
3. Pipebloc PWP
4. Pyrocoustic Sealant

Penetration Service	Annular Space (mm)	Distances (mm)	Installation	Classification
PVC-U, PVC-C (1) – See 3.1.1, Graph 1 for scope	≤ 10 depending on product size	Edge – 10 Penetration Service ≥ 100	Pipebloc PWP fit into topside and underside of the floor recessed by 5mm. Pyrocoustic Sealant applied to topside and underside of the floor sealing in the wrap	**EI 120 U/C, C/C**
PVC-U, PVC-C (1) – See 3.1.2, Graph 2 for scope				**EI 60 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.1.5, Graph 5 for scope				**EI 120 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.1.6, Graph 6 for scope				**EI 120 U/C, C/C**
PP (3) – See 3.1.3, Graph 3 for scope				**EI 120 U/C, C/C**
PP (3) – See 3.1.4, Graph 4 for scope				**EI 15 U/C, C/C**

All services supported with pipe supports at 400 mm from the upper face of the floor.

(1) PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1
(2) PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1
(3) PP pipe according to EN 1852-1: 2009

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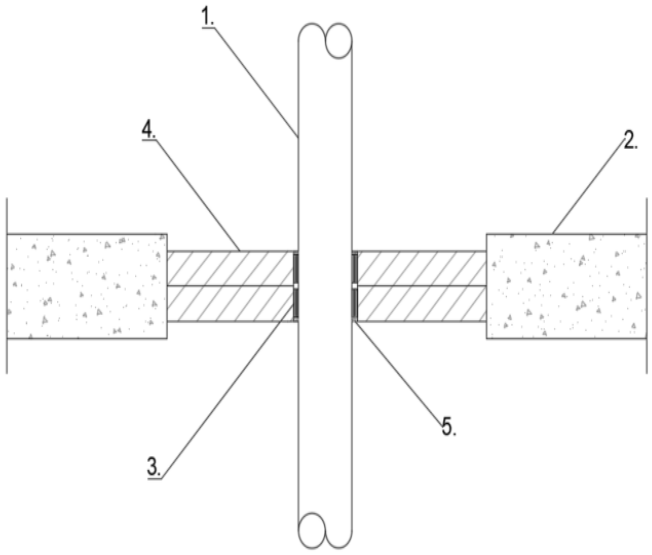
Plastic pipes in Stopseal Batt

Rigid Floors ≥150 mm



Key

1. Plastic Pipe
2. Rigid floor
3. Pipebloc PWP
4. Stopseal Batt
5. Pyrocoustic Sealant

Penetration Service	Opening Size (mm)	Distances (mm)	Installation	Classification
PVC-U, PVC-C (1) – See 3.1.1, Graph 1 for scope	≤ 1500 x 1100	Edge – ≥ 0 Penetration Service ≥ 0	Pipebloc PWP fit into topside and underside of the floor recessed by 5mm. Friction fit Stopseal Batt into aperture around Pipebloc PWP. Pyrocoustic Sealant applied to topside and underside of the floor sealing in the wrap	**EI 60 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.1.5, Graph 5 for scope				
PP (3) – See 3.1.3, Graph 3 for scope				

All services supported with pipe supports at 400 mm from the upper face of the floor.

(1) PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1
(2) PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1
(3) PP pipe according to EN 1852-1: 2009

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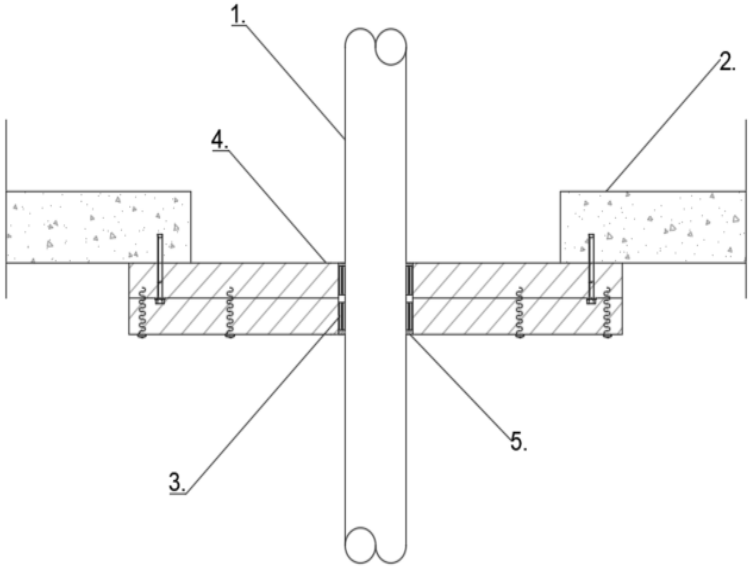
Rigid Floors Minimum Thickness 100 mm

Plastic pipes in Stopseal Batt

Rigid Floors ≥100 mm



Key

1. Plastic Pipe
2. Rigid floor
3. Pipebloc PWP
4. Stopseal Batt
5. Pyrocoustic Sealant

Penetration Service	Opening Size (mm)	Distances (mm)	Installation	Classification
PVC-U, PVC-C (1) – See 3.1.1, Graph 1 for scope	≤ 1300 x 1100	Edge – ≥ 0 Penetration Service ≥ 0	Pipebloc PWP fit into topside and underside of the floor recessed by 5mm. Pattress fit Stopseal Batt on to aperture around Pipebloc PWP. Pyrocoustic Sealant applied to topside and underside of the floor sealing in the wrap	**EI 60 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.1.5, Graph 5 for scope				
PP (3) – See 3.1.3, Graph 3 for scope				

All services supported with pipe supports at 400 mm from the upper face of the floor.

(1) PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1
(2) PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1
(3) PP pipe according to EN 1852-1: 2009

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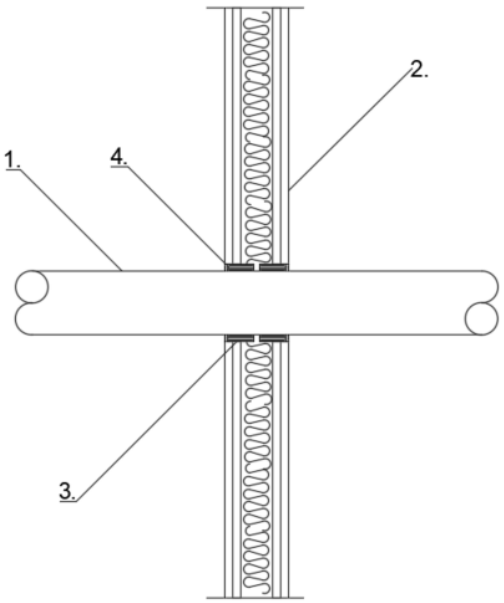
Walls

Flexible or Rigid Walls Minimum Thickness 100 mm

Plastic pipes

Flexible or rigid walls ≥100 mm



Key

1. Plastic Pipe
2. Flexible Wall
3. Pipebloc PWP
4. Pyrocoustic Sealant

Penetration Service	Opening Size (mm)	Distances (mm)	Installation	Classification
PVC-U, PVC-C (1) – See 3.2.1, Graph 7 for scope	As required by dimensions of Pipebloc PWP	Penetration Service ≥ 100	Pipebloc PWP fit into both sides of the wall recessed by 5 mm. Pyrocoustic Sealant applied to each face of the wall sealing in the wrap.	**EI 90 U/C, C/C**
PP (3) – See 3.2.2, Graph 8 for scope				**EI 120 U/C, C/C**
PP (3) – See 3.2.3, Graph 9 for scope				**EI 90 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.2.4, Graph 10 for scope				**E 120 U/C, C/C, EI 90, U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.2.5, Graph 11 for scope				**EI 90 U/C, C/C**

All services supported with pipe supports at 400 mm from both faces of the wall.

(1) PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1
(2) PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1
(3) PP pipe according to EN 1852-1: 2009

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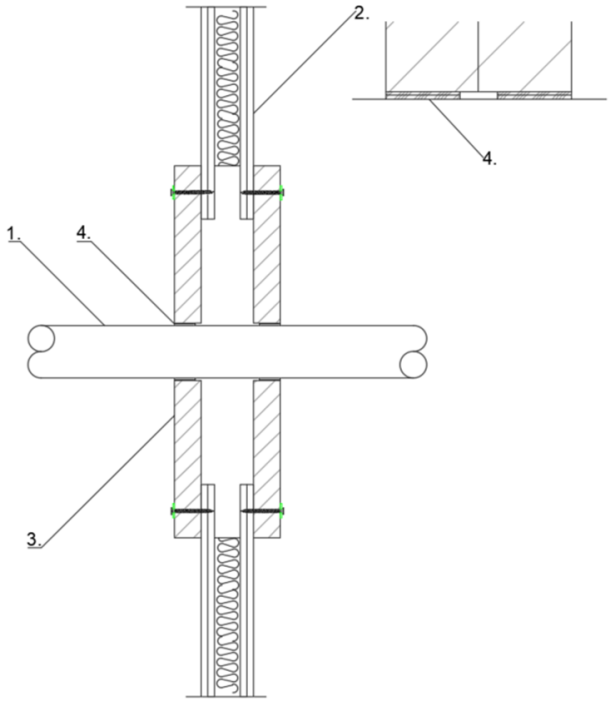
Plastic pipes in Stopseal Batt

Flexible or Rigid Walls ≥100 mm insulated or uninsulated, lined, or unlined



Key

1. Plastic Pipe
2. Flexible Wall
3. Stopseal Batt
4. Pipebloc PWP

Penetration Service	Opening Size (mm)	Distances (mm)	Installation	Classification
PVC-U, PVC-C (1) – See 3.2.1, Graph 7 for scope	≤ 1200 x 750	Edge – ≥ 50 Penetration Service ≥ 0	Pipebloc PWP fit into both sides of the wall recessed by 5mm. Stopseal Batt pattress fit using Pyrocoustic Sealant between joints. Fixed to the substrate using 6 x 80 steel screws and steel washers, 100 mm overlap onto substrate.	**EI 60 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.2.5, Graph 11 for scope				
PP (3) – See 3.2.3, Graph 9 for scope				

All services supported with pipe supports at 400 mm from both faces of the wall.

(1) PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1
(2) PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1
(3) PP pipe according to EN 1852-1: 2009

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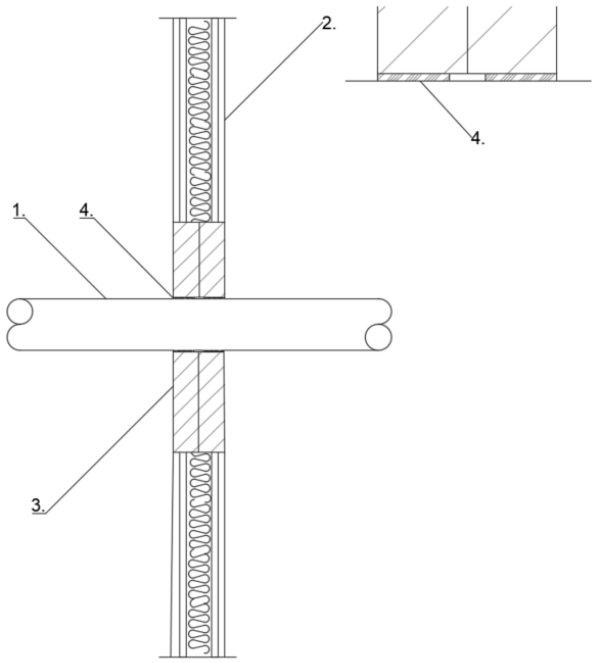
Flexible or Rigid Walls ≥100 mm insulated, unlined, or lined



Key

1. Plastic Pipe
2. Flexible Wall
3. Stopseal Batt
4. Pipebloc PWP

Penetration Service	Opening Size (mm)	Distances (mm)	Installation	Classification
PVC-U, PVC-C (1) – See 3.2.6, Graph 12 for scope	≤ 1200 x 730	Edge – 100 Penetration Service ≥ 0	Pipebloc PWP fit into both sides of the wall recessed by 5mm. Two 50 mm back-to-back Stopseal Batt friction fit using Pyrocoustic Sealant between joints.	**EI 90 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.2.4, Graph 10 for scope				
PP (3) – See 3.2.2, Graph 8 for scope				
PVC-U, PVC-C (1) – See 3.2.6, Graph 8 for scope	≤ 2600 x 2600			**EI 60 U/C, C/C**
PE, ABS, SAN-PVC (2) – See 3.2.4, Graph 10 for scope				
PP (3) – See 3.2.2, Graph 8 for scope				

All services supported with pipe supports at 400 mm from both faces of the wall.

(1) PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1
(2) PE pipe according to EN 1519-1, EN 12201-2 and EN 12006-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1
(3) PP pipe according to EN 1852-1: 2009

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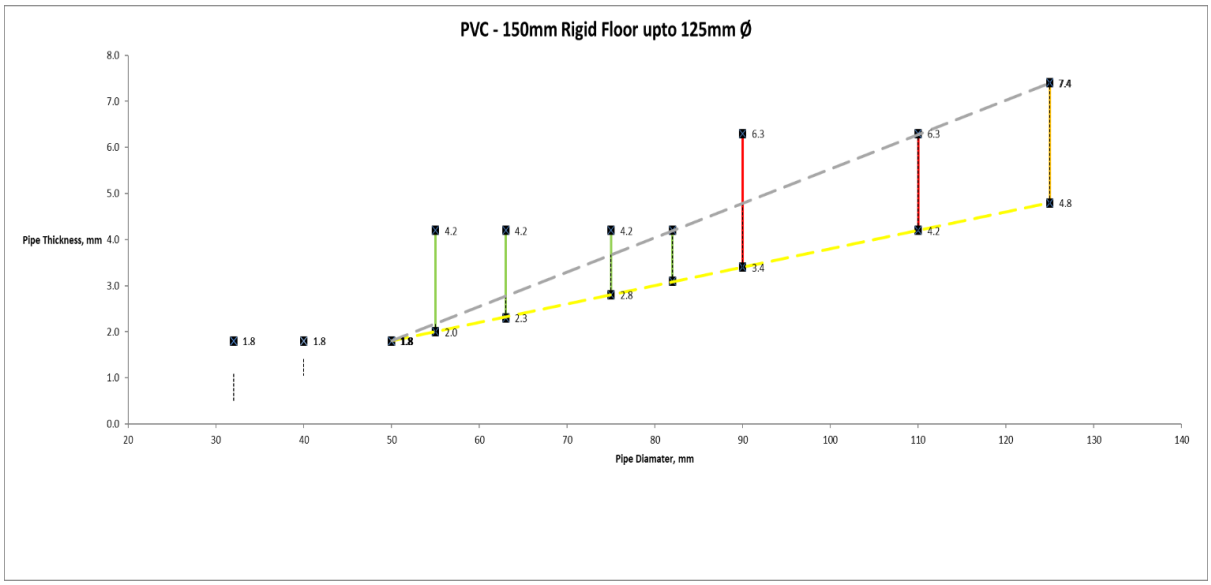
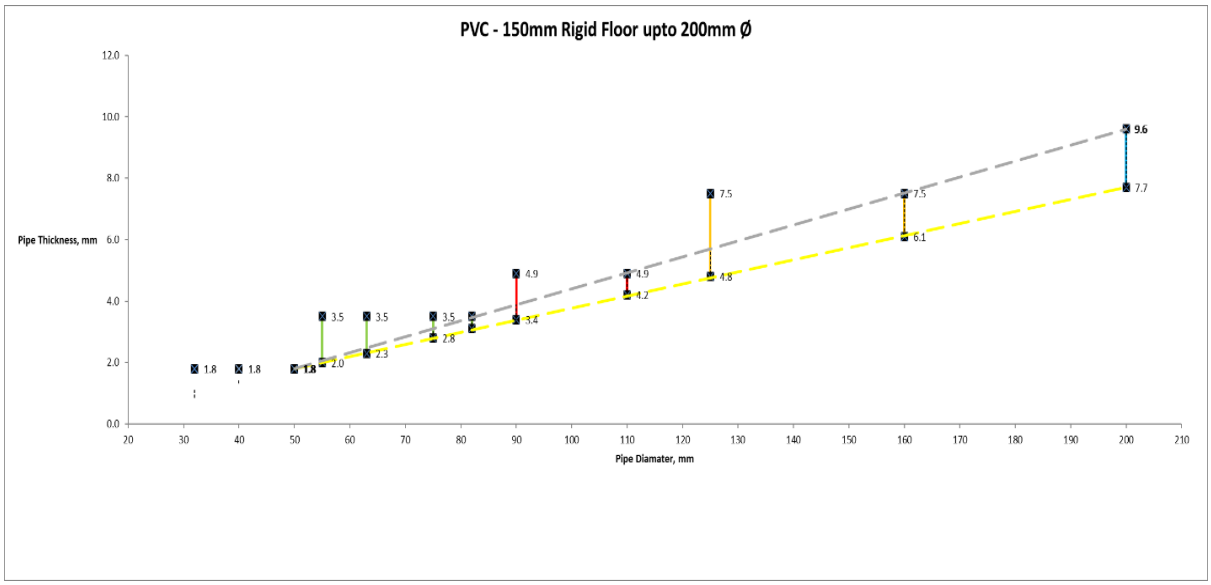
Scope and Usage

Floor

Graph 1



Graph 2



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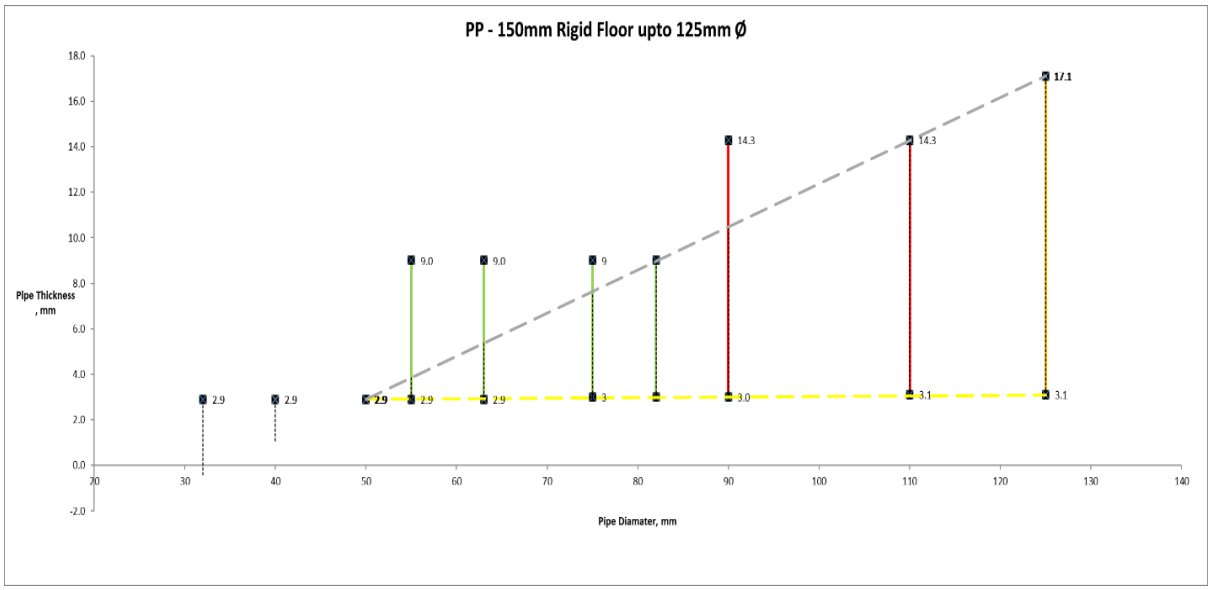
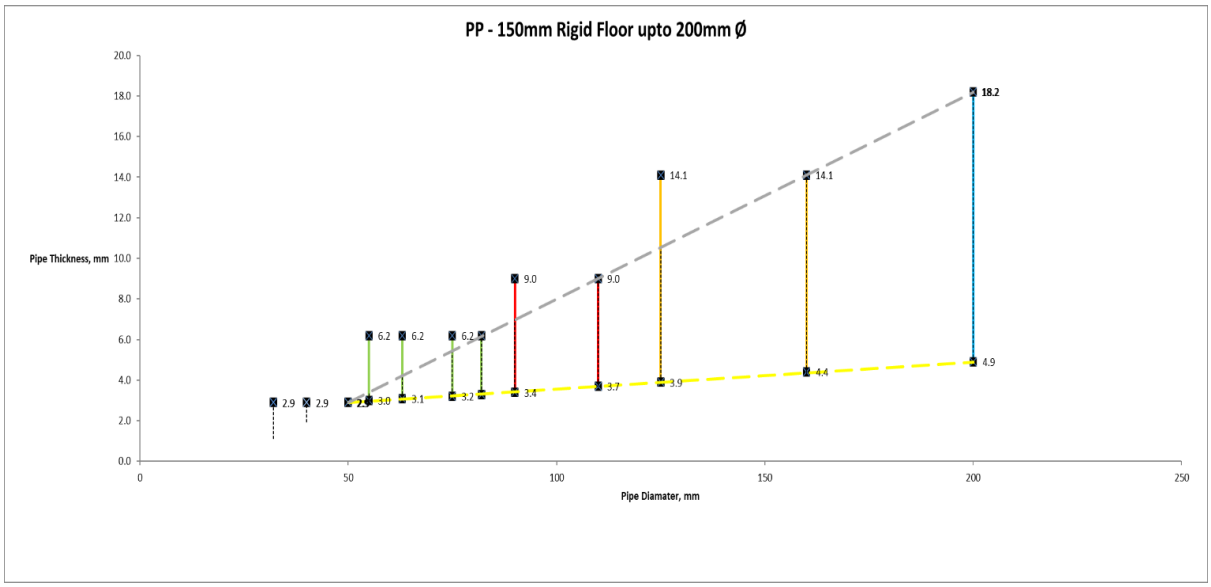
Graph 3



Graph 4



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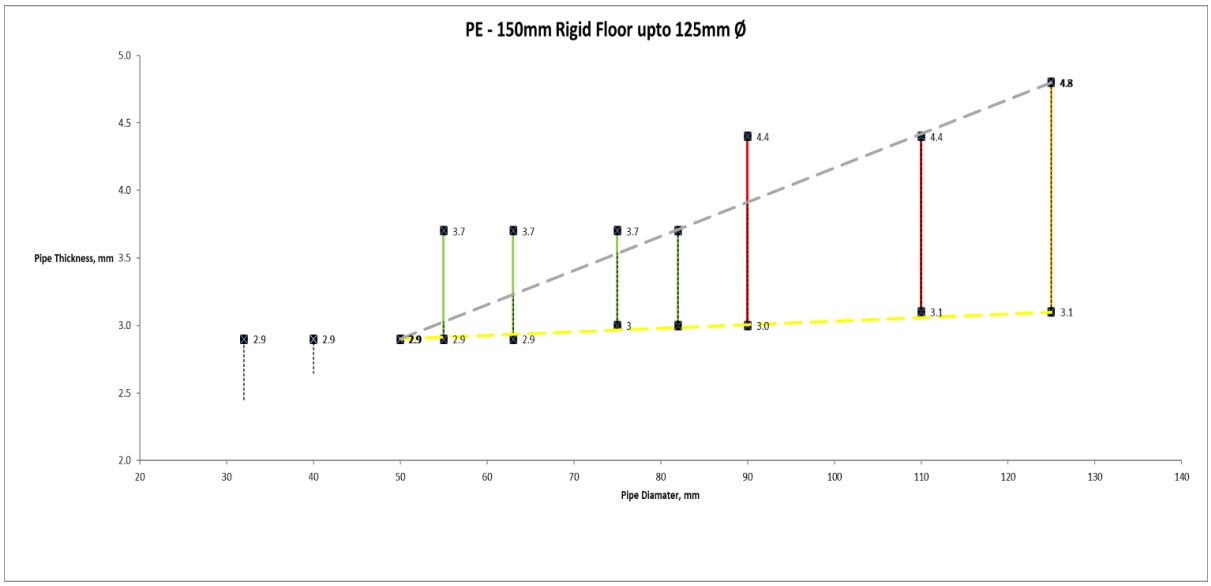
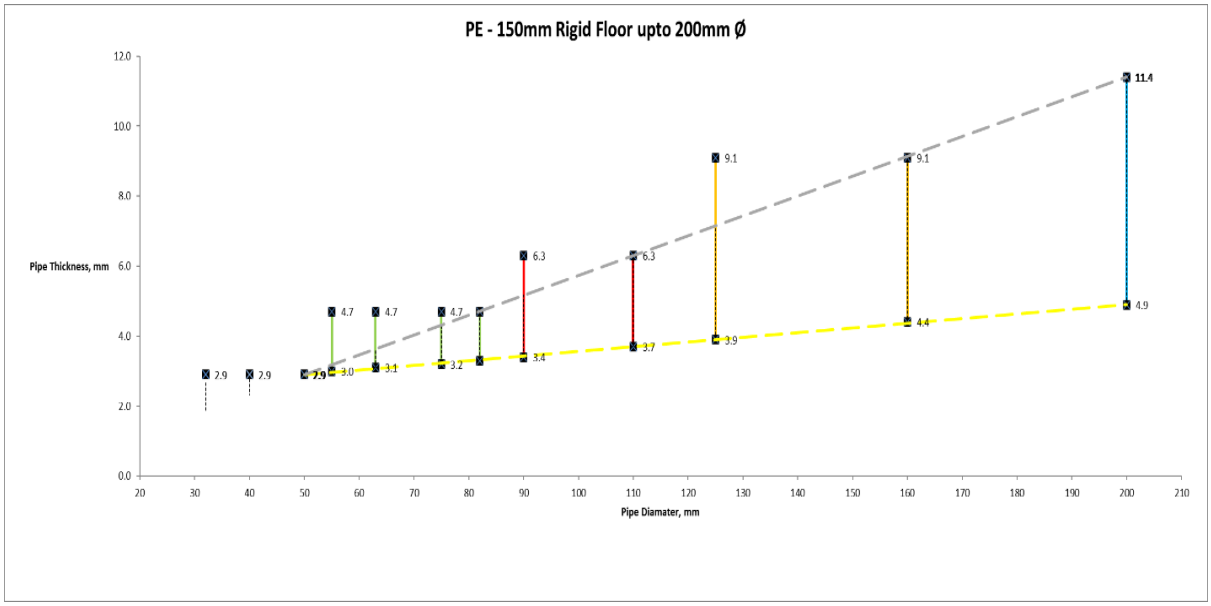
Graph 5



Graph 6



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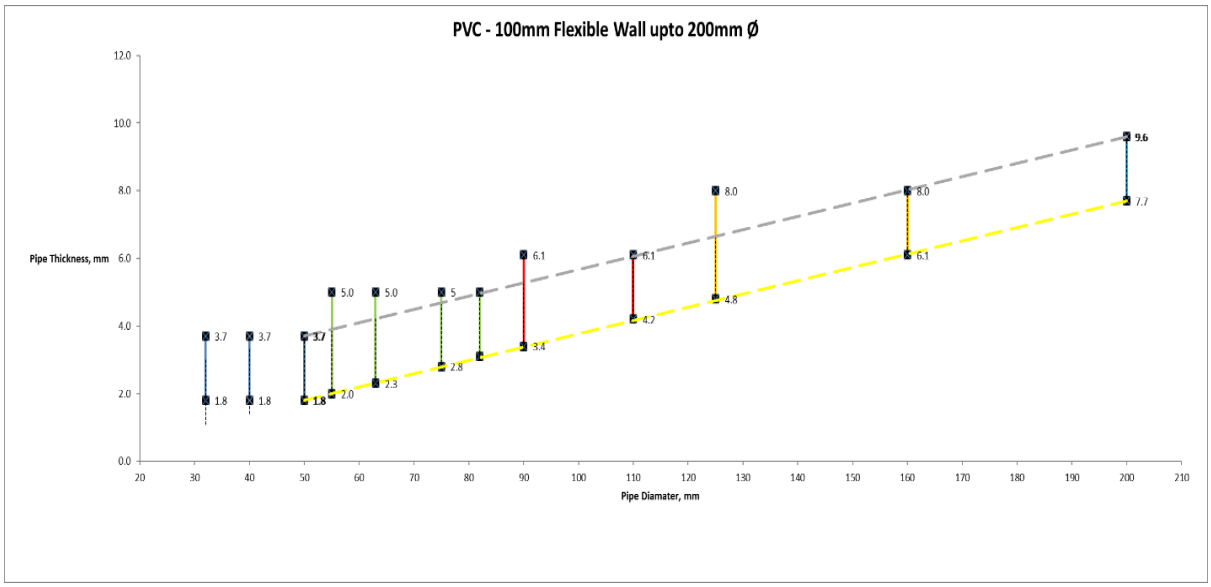
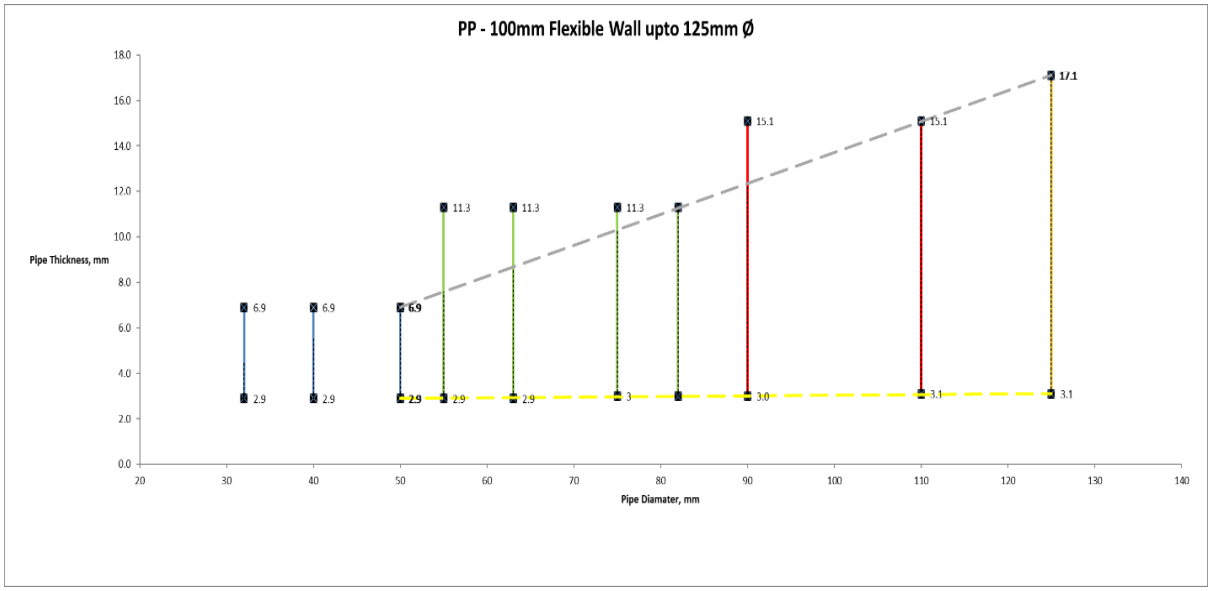
Wall

Graph 7



Graph 8



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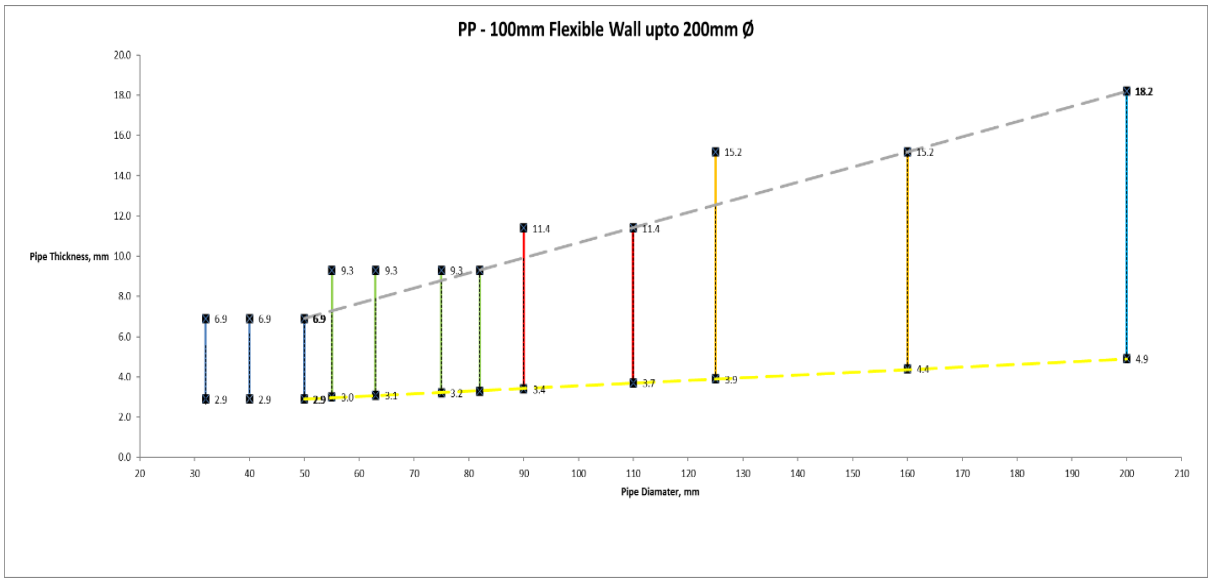
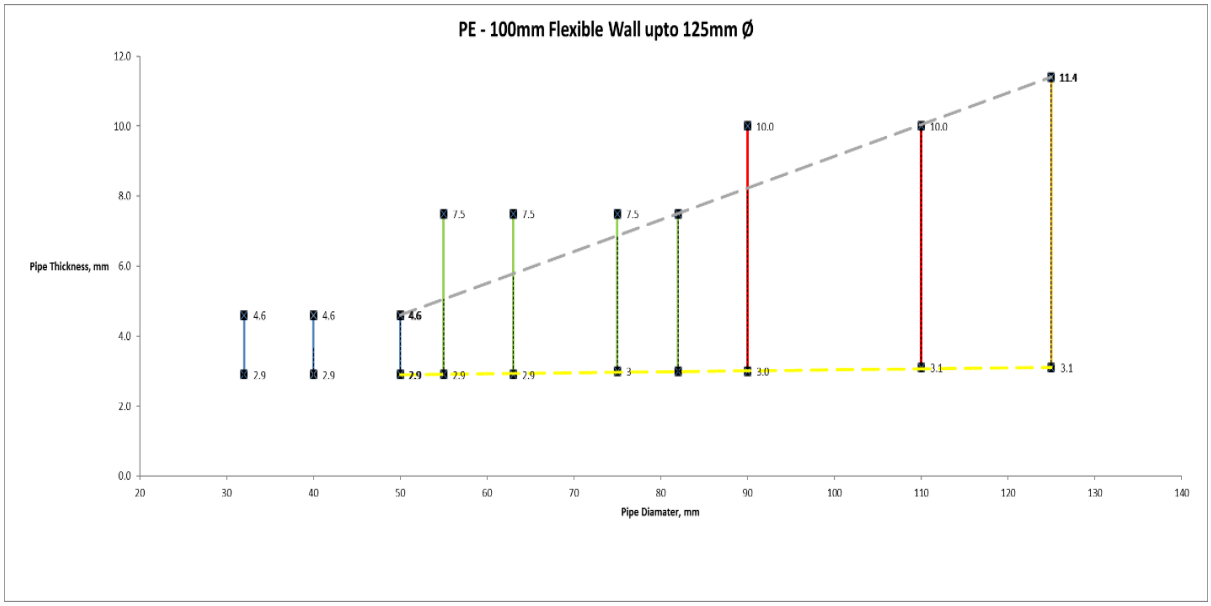
Graph 9



Graph 10



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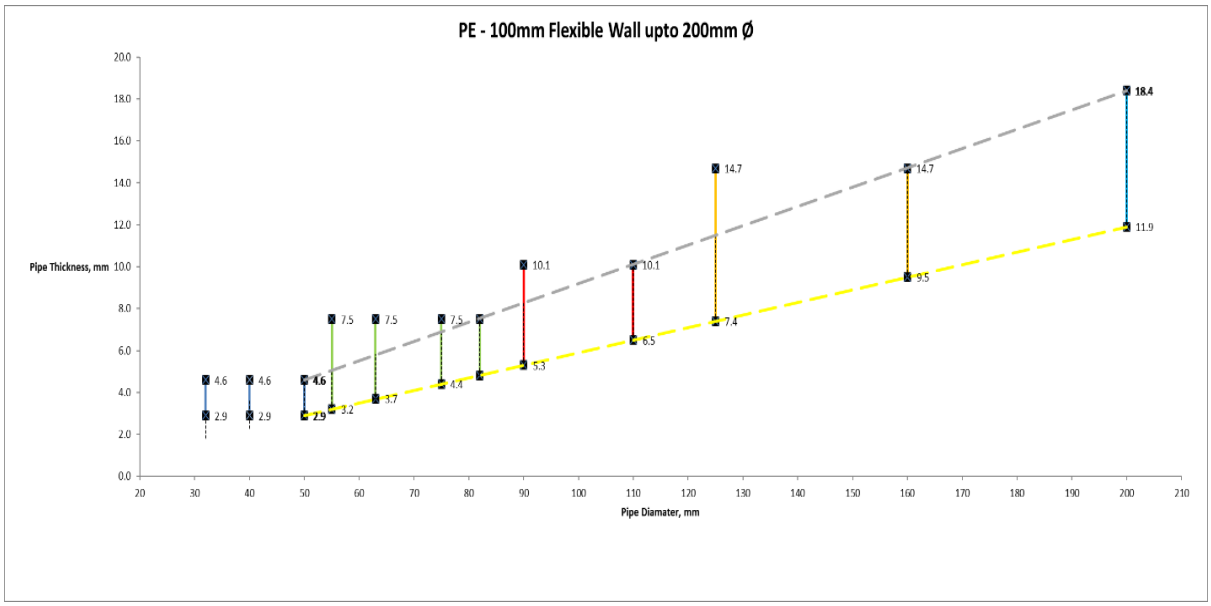
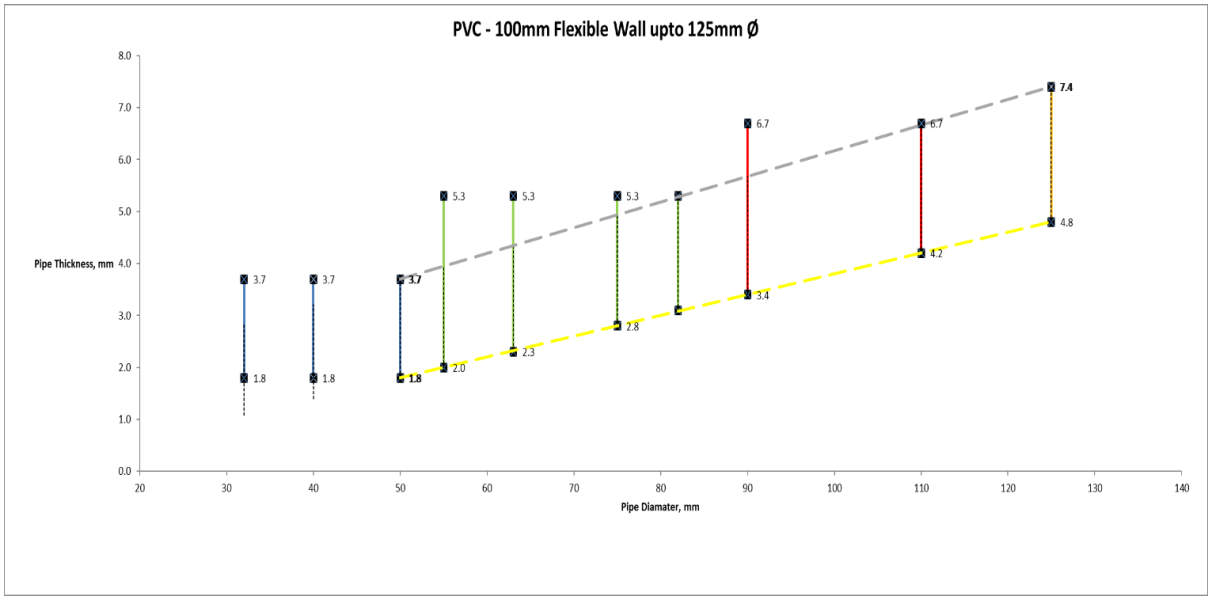
Graph 11



Graph 12



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Pipebloc PWP Usage

Ensure penetration service has been tested, tables are for usage guidance only.

Pipebloc PWP Applied both sides of wall/floor	
For use with plastic pipes	
Pipe Ø (mm)	Layers of Pipebloc EL
40	2
55	2
63	2
75	2
82	2
90	3
110	3
125	4
140	4
160	4
200	5

Single Pipebloc PWP Applied in floor	
For use with plastic pipes	
Pipe Ø (mm)	Layers of Pipebloc EL
40	4
55	4
63	4
75	4
82	4
90	6
110	6
125	8
140	8
160	8
200	10

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The UL-EU Marks, displayed below represent the enhanced and alternate version of the product marking. Either Mark can be used. These Marks shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.

*Note: E12345 is an example of the UL file number.

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 and UL File 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.

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