

UL-EU CERTIFICATE

Certificate No.
UL-EU-00924-CPR

Issue date
14-07-2016

Issue No.
4

Re-Issue date
08-02-2024

Expiry date
13-07-2026



Certificate Holder:

FSi Ltd

Address:

Westminster Industrial Estate, Tamworth Rd, Measham,
DE12 7DS, United Kingdom

Product:

Silverseal HS Compound

Manufacturer:

A/011

Standard

EAD 350454-00-1104 / EN 13501-2

Rating/Classification

See Appendix

Authorised Signatory:

A handwritten signature in blue ink, appearing to read 'Chris Johnson'.

Chris Johnson

Issued by UL International (UK) Ltd

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



Appendix UL-EU CERTIFICATE UL-EU-00924-CPR

This certificate relates to the use of Silverseal HS Compound for fire stopping where services penetrate floors. The detailed scope is given in pages 3 to 25 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 180 minutes (EI 180).

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) Durability and Servicability as defined in EAD 350454-00-1104

The durability class of Silverseal HS Compound is Z1
- intended for use at internal conditions with high humidity,
excluding temperatures below 0°C



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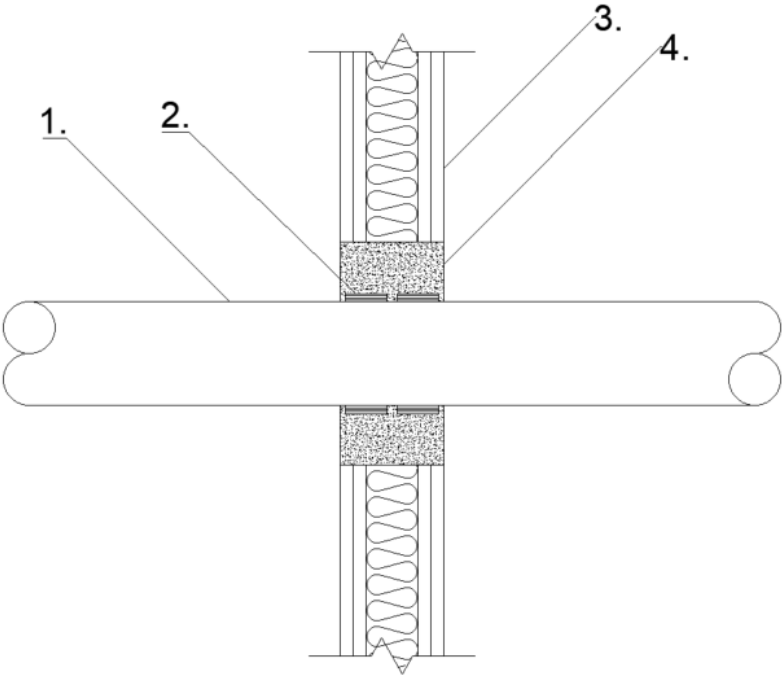
Product-type: Mortar		Intended use: Penetration Seal
Assessment method	Essential characteristic	Product performance
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	No performance determined
EN 13501-2	Resistance to fire	See pages 4 - 25
BWR 3 Hygiene, health and environment		
EN 1026	Air permeability	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	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
EAD 350454-00-1104, Clause 2.2.9	Durability	Z ₁
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	R _w (C;C _{tr})= 50(-1;-4)
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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Flexible or Rigid Walls Minimum Thickness 100mm

Combustible Penetrations fitted centrally within the aperture

Flexible or rigid Walls $\geq 100\text{mm}$				
				Key 1. Combustible Penetration 2. 4 layers FSi Pipebloc EL Wraps 3. Flexible or rigid Wall $\geq 100\text{mm}$ 4. Silverseal HS Compound
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
PE Pipe up to 125mm Ø, 3.1 mm wall thickness	240 diameter	100mm	Full depth of wall	EI 120 U/C
PVC Pipe up to 125mm Ø, 4.8-7.4 mm wall thickness				
PP Pipe up to 50mm Ø, 2.0 mm wall thickness				

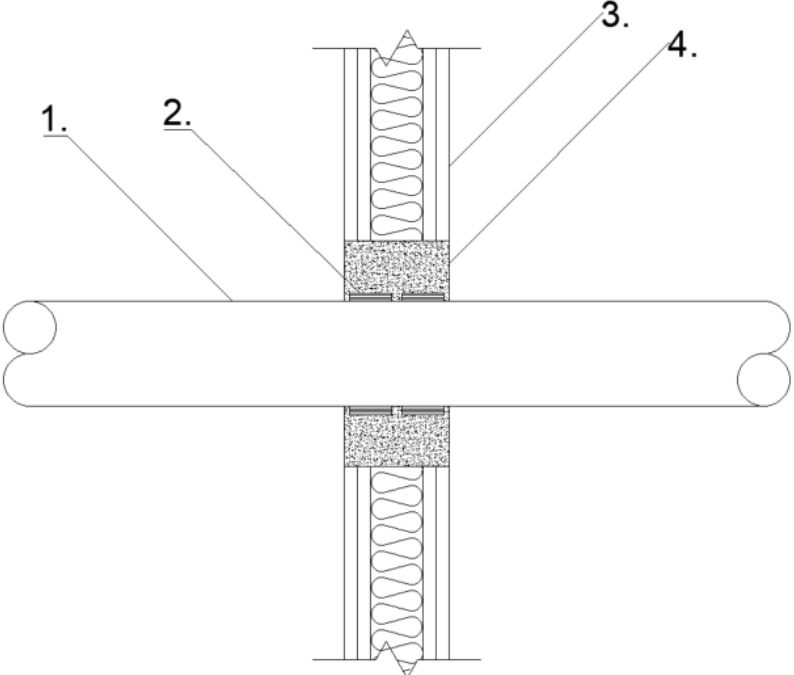


Solutions

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Combustible Penetrations fitted centrally within the aperture

Flexible or rigid Walls $\geq 100\text{mm}$				
				Key 1. Combustible Penetration 2. 4 layers FSi Pipebloc EL Wraps 3. Flexible or rigid Wall $\geq 100\text{mm}$ 4. Silverseal HS Compound
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
PE Pipe up to 125mm Ø, 3.1 mm wall thickness	295 wide x 215 high	100mm	Full depth of wall	EI 120 U/C
PVC Pipe up to 125mm Ø, 4.8-7.4 mm wall thickness				
PP Pipe up to 50 Ø, 2.0 mm wall thickness				



Solutions

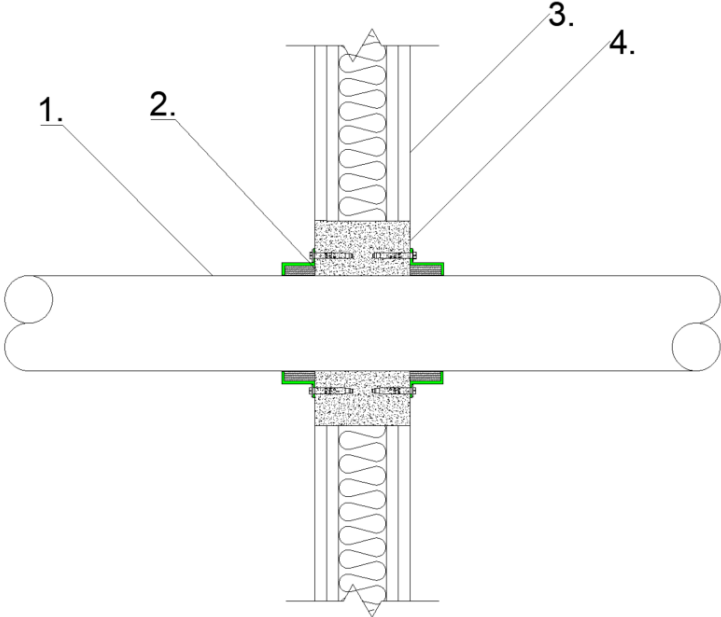
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PVC Vent Duct Penetration

Flexible or rigid Walls $\geq 100\text{mm}$				
				Key 1. Head of Wall 2. 3 layers FSi Pipebloc EL Wraps 3. Flexible or rigid Wall $\geq 100\text{mm}$ 4. Silverseal HS Compound
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
220mm x 90mm, 2mm wall thickness PVC duct	295 x 215	100mm	Full depth of wall	EI 60 U/C

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Combustible Penetrations fitted centrally within the aperture

Flexible or rigid Walls $\geq 100\text{mm}$				
				Key 1. Combustible Penetration 2. Pipebloc PCP Collar 3. Flexible or rigid Wall $\geq 100\text{mm}$ 4. Silverseal HS Compound
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
PVC-U, PVC-C ⁽¹⁾ – See Annex A, Table 1 for scope	295 x 215	100mm	Full depth of wall	EI 120 U/C
PE, ABS, SAN-PVC ⁽²⁾ – See Annex A, Table 1 for scope				
PP ⁽³⁾ – See Annex A, Table 1 for scope				
PVC-U, PVC-C ⁽¹⁾ – See Annex A, Table 2 for scope				EI 60 U/C
PE, ABS, SAN-PVC ⁽²⁾ – See Annex A, Table 2 for scope				
PP ⁽³⁾ – See Annex A, Table 2 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

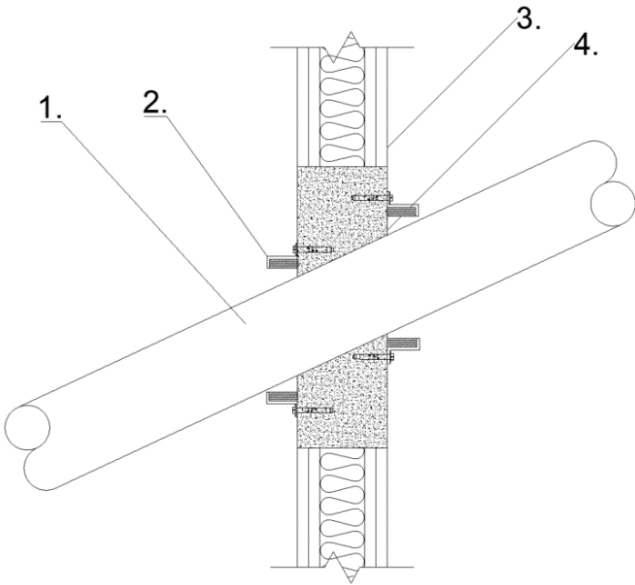


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Combustible Penetrations

Flexible or rigid Walls ≥100mm						
						Key 1. Combustible Penetration 2. Pipebloc PCP Collar 3. Flexible or rigid Wall ≥100mm 4. Silverseal HS Compound
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Collar	Installation	Classification
PVC-U, PVC-C ⁽¹⁾ , 110 mm Ø x 6.6 mm thick wall	295 x 215	100mm	Full depth of wall	160 mm Pipebloc PCP with 40 x 18 mm inlay	Face fixed each side of the wall using 3no 50 mm long x 5 mm diameter screw with penny washer. Pyrocoustic Sealant applied to annular space 10mm depth both sides of wall. Angle of pipe is permitted from	EI 90 U/C
PE, ABS, SAN-PVC ⁽²⁾ , 110 mm Ø x 2.7 mm thick wall				110 mm Pipebloc PCP with 40 x 11 mm inlay		
PP ⁽³⁾ , 50 mm Ø x 2.9 mm thick wall						

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

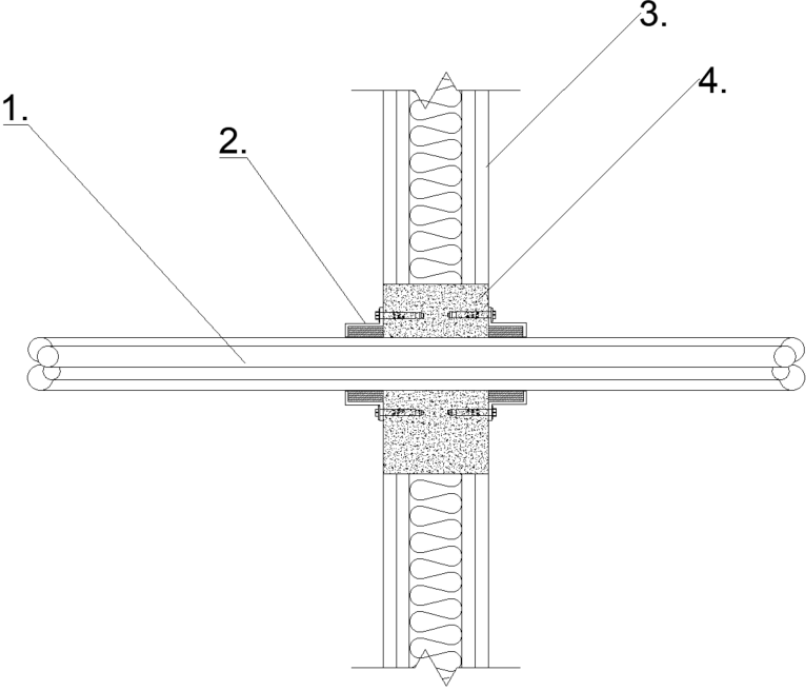


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Cable Penetrations fitted centrally within the aperture

Flexible or rigid Walls $\geq 100\text{mm}$				
				Key 1. Cable Penetration 2. Pipebloc PCP Collar 3. Flexible or rigid Wall $\geq 100\text{mm}$ 4. Silverseal HS Compound
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
Telecoms cable bundles up to 100mm \varnothing^*	295 x 215	100mm	Full depth of wall	EI 120

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

*Different size collars required depending on bundle size, to ensure a tight fit



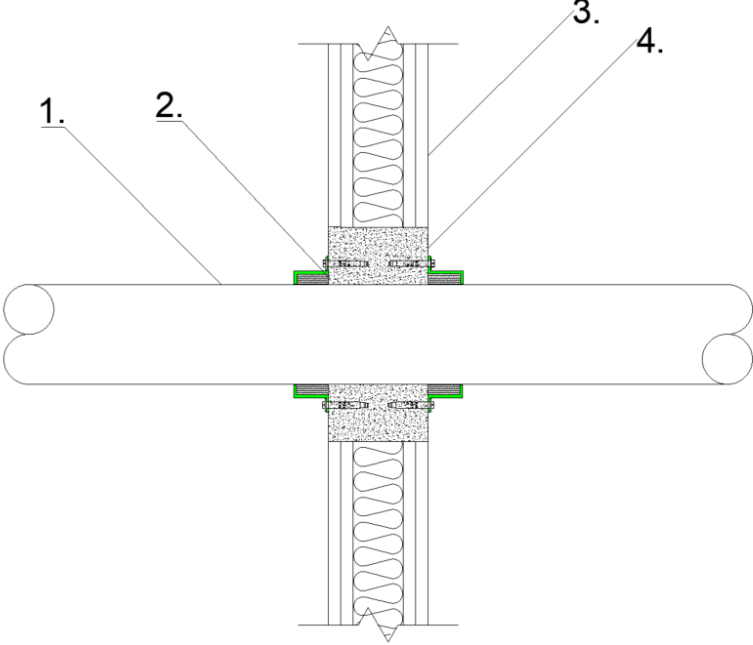
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Aluminium Penetrations fitted centrally within the aperture

Flexible or rigid Walls $\geq 100\text{mm}$

				<p><u>Key</u></p> <ol style="list-style-type: none"> 1. Penetration 2. Pipebloc PCP Collar 3. Flexible or rigid Wall $\geq 100\text{mm}$ 4. Silverseal HS Compound 5. Aluminium
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
Aluminium pipe, 101.6 mm outside diameter x 3.175 mm thick wall	295 x 215	100mm	Full depth of wall	E 120 C/C

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



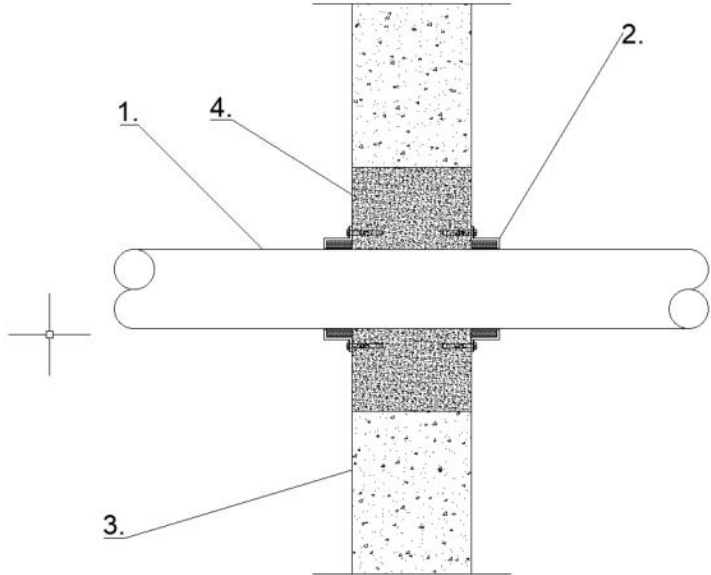
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Rigid Walls Minimum Thickness 150mm

Combustible Penetrations fitted centrally within the aperture

Rigid Walls $\geq 150\text{mm}$				
				Key 1. Combustible Penetration 2. Pipebloc PCP Collar 3. Rigid Wall $\geq 150\text{mm}$ 4. Silverseal HS Compound
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
Polypropylene pipe, 110 mm \varnothing x 2.7 mm thick wall	295 x 215	150mm	Full depth of wall	EI 120 – U/U, C/U, U/C, C/C
Polypropylene pipe, 160 mm \varnothing x 4.0 mm thick wall				EI 120 – U/U, C/U, U/C, C/C
Polypropylene pipe, 250 mm \varnothing x 6.2 mm thick wall				EI 120 – U/C, C/C



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Rigid Floor Minimum Thickness 150mm

Busbar Penetrations fitted centrally within the aperture

Rigid Floor $\geq 150\text{mm}$				
<p>The diagram shows a cross-section of a rigid floor assembly. A vertical busbar (5) passes through the floor. The floor is made of a rigid floor (4) and a shuttering layer (3). The penetration is sealed with Silverseal HS Compound (2) and Rockwool rock fibre insulation (1).</p>				Key <ol style="list-style-type: none"> 1. 400 mm wide by 40 mm thick Rockwool rock fibre insulation, 45 kg/m^3 2. Silverseal HS Compound 100mm 3. 50mm 140 kg/m^3 Stone wool shuttering 4. Rigid Floor $\geq 150\text{mm}$ 5. Service Penetration
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
Zucchini LB Plus Busbar	1800 x 1800	100mm + 50mm 140 kg/m^3 Stone Wool Shuttering	Flush with the top of the floor	E 180, EI I30

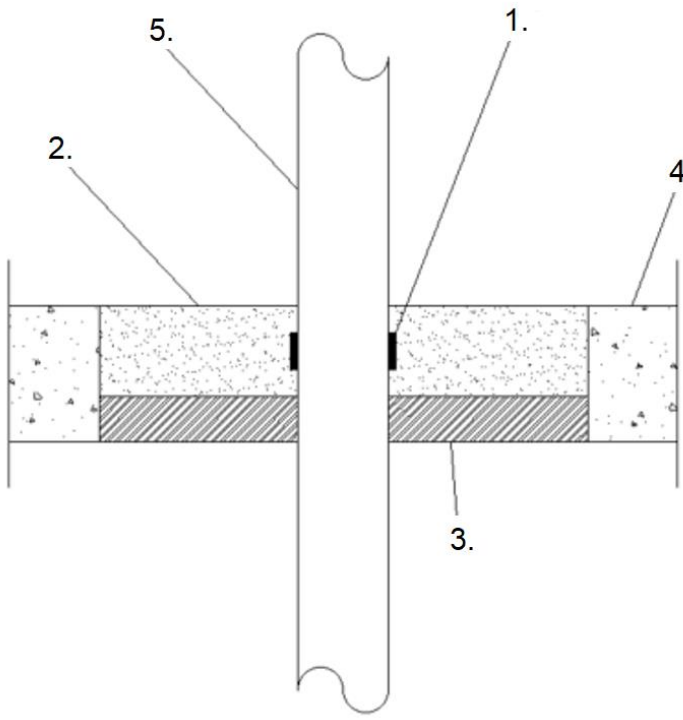


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Combustible Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. 3 layers FSi Pipebloc EL Wraps 2. Silverseal HS Compound 100mm 3. 50mm 140kg/m ³ Stone wool shuttering 4. Rigid Floor $\geq 150\text{mm}$ 5. Service Penetration
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
110mm PVC Pipe, 4.2mm Wall Thickness	1800 x 1800	100mm + 50mm 140kg/m ³ Stone Wool Shuttering	Flush with the top of the floor	EI 180 U/C
110mm PE Pipe, 6.3mm Wall Thickness				

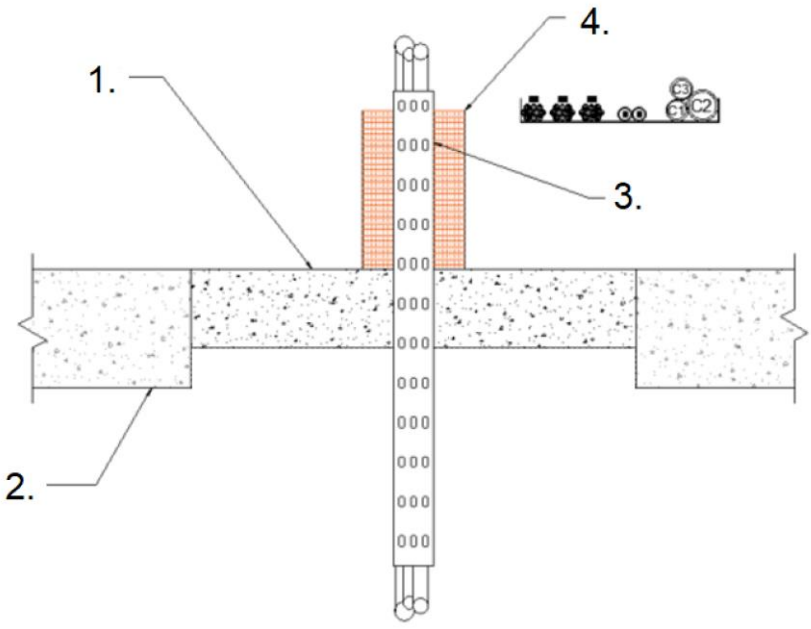


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Cable Tray/Ladder Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. FSi Silverseal HS Compound 100mm 2. Rigid Floor $\geq 150\text{mm}$ 3. Service Penetration 4. 400 mm wide by 40 mm thick Rockwool rock fibre insulation, 47.5 kg/m ³
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
Telecom cables $\leq 21\text{ mm } \varnothing$ (single or in bundles up to 100 mm \varnothing)	1800 x 1800	100mm	Flush with the top of the floor	EI 90
Electrical cables $\leq 21\text{ mm } \varnothing$				E 90, EI 60
Electrical cables $\leq 52\text{ mm } \varnothing$				
Unsheathed wires $\leq 24\text{ mm } \varnothing$				EI 90
PVC Conduits $\leq 16\text{ mm } \varnothing$				
Steel, copper conduits $\leq 16\text{ mm } \varnothing$				
Cable trays or ladders				

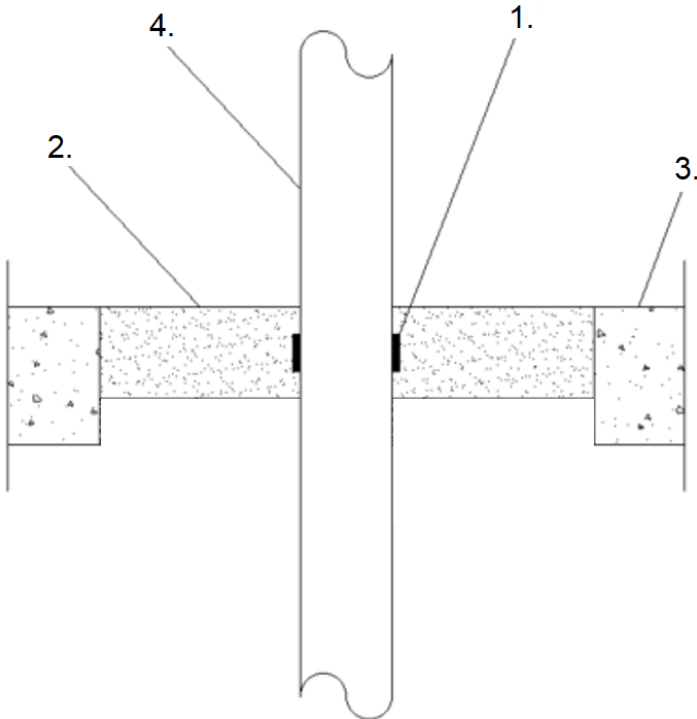


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Combustible Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. 10 layers FSi Pipebloc EL Wraps 2. Silverseal HS Compound 100mm 3. Rigid Floor $\geq 150\text{mm}$ 4. Service Penetration
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Position	Classification
200mm PVC Pipe, 7.7-9.6mm Wall Thickness	1800 x 1800	100mm	Flush with the top of the floor	EI 90 – U/C

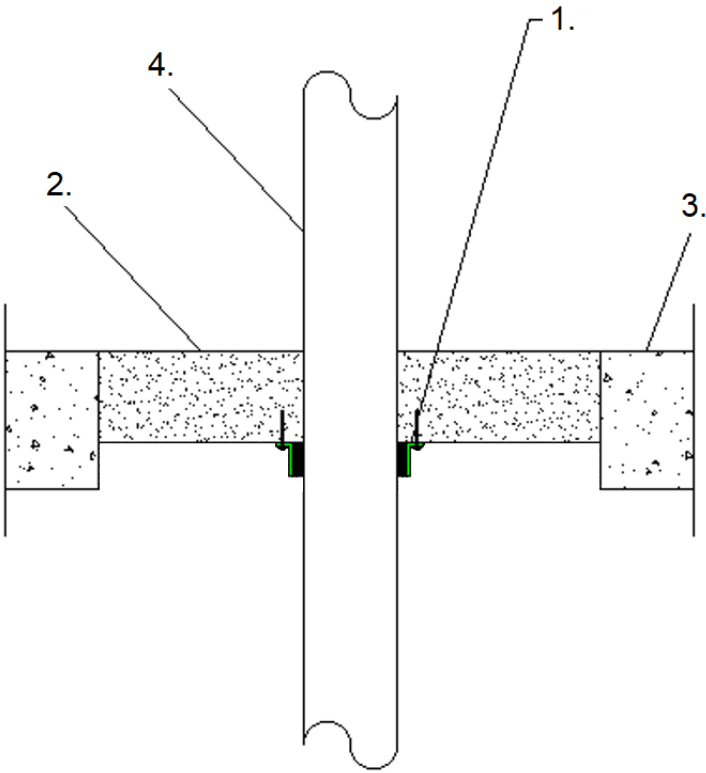


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Combustible Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. Pipebloc PCP Collar 2. Silverseal HS Compound 100mm 3. Rigid Floor $\geq 150\text{mm}$ 4. Service Penetration
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Positioning	Classification
160mm PVC Pipe, 9.5mm Wall Thickness	1800 x 1800	100mm	Flush with the top of the floor	EI 120 – U/C

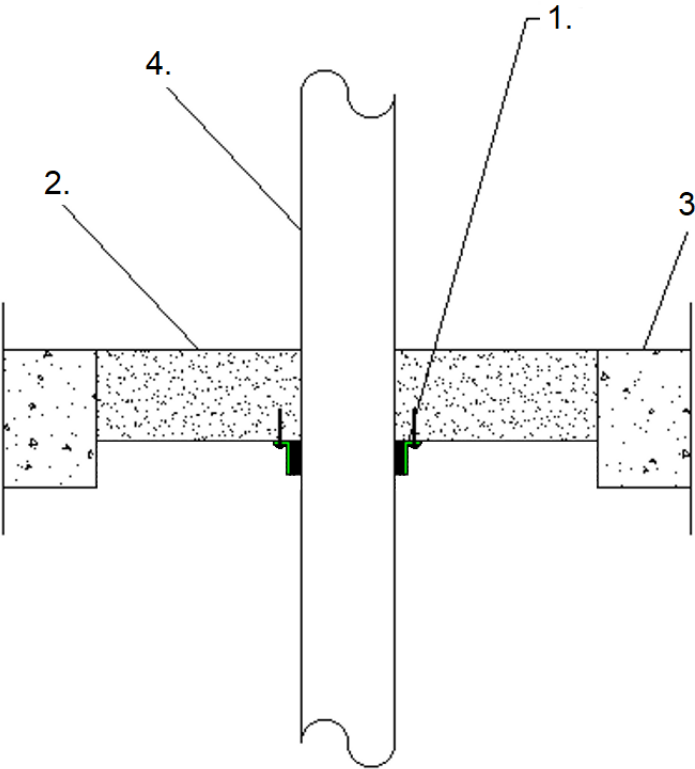


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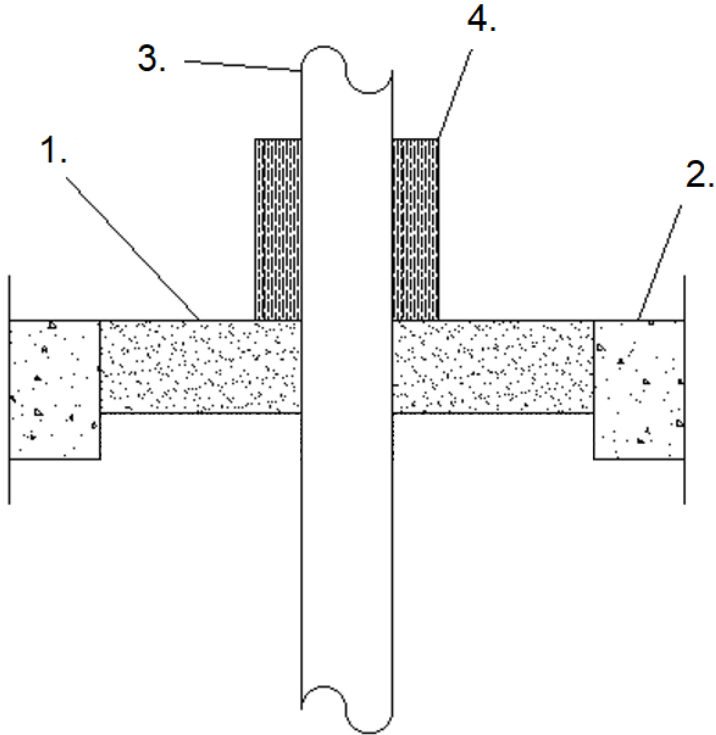
Combustible Penetrations fitted centrally within the aperture

Rigid Floors ≥150mm				
				<p><u>Key</u></p> <ul style="list-style-type: none">1. Pipebloc PCP Collar2. Silverseal HS Compound 100mm3. Rigid Floor ≥150mm4. Service Penetration
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Positioning	Classification
110mm PE Pipe, 9.5mm Wall Thickness	1800 x 1800	100mm	Flush with the top of the floor	EI 120 – U/C



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Insulated Metallic Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. Silverseal HS Compound 100mm 2. Rigid Floor $\geq 150\text{mm}$ 3. Service Penetration 4. 500 mm long by 50 mm thick Rockwool H&V pipe section insulation, min. 150 kg/m^3
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Positioning	Classification
Copper pipe 40-107 mm diameter and 1.5 – 14.2 mm wall thickness / 50mm thick Rockwool H&V pipe section insulation (min 150 kg/m^3)	1800 x 1800	100mm	Flush with the top of the floor	E 60, EI 15 C/U

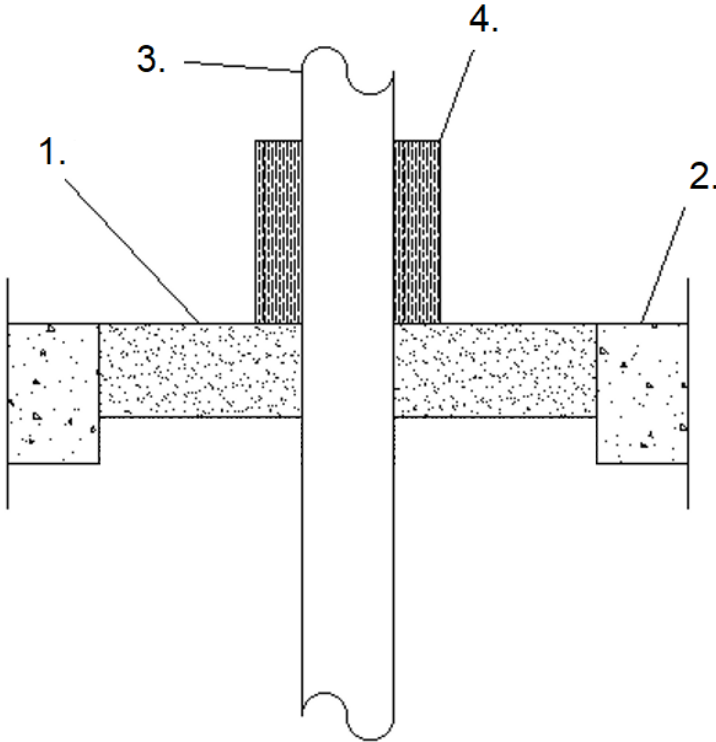


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Insulated Metallic Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. Silverseal HS Compound 100mm 2. Rigid Floor $\geq 150\text{mm}$ 3. Service Penetration 4. 500 mm long by 50 mm thick Rockwool H&V pipe section insulation, min. 150 kg/m^3
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Positioning	Classification
Steel pipe 40-115 mm diameter and 3.5 – 14.2 mm wall thickness / 50 mm thick Rockwool H&V pipe section insulation (min 150 kg/m^3)	1800 x 1800	100mm	Flush with the top of the floor	EI 120 C/U

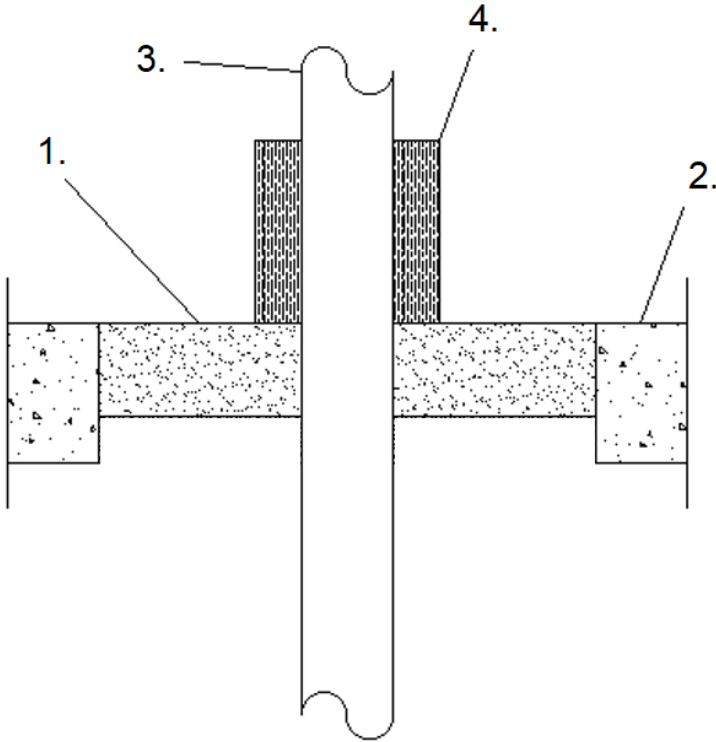


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Insulated Metallic Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. Silverseal HS Compound 100mm 2. Rigid Floor $\geq 150\text{mm}$ 3. Service Penetration 4. 500 mm long by 50 mm thick Rockwool H&V pipe section insulation, min. 150 kg/m^3
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Positioning	Classification
Steel pipe 165 mm diameter and 5 – 14.2 mm wall thickness / 50 mm thick Rockwool H&V pipe section insulation (min 150 kg/m^3)	1800 x 1800	100mm	Flush with the top of the floor	E 120, EI 90 C/U

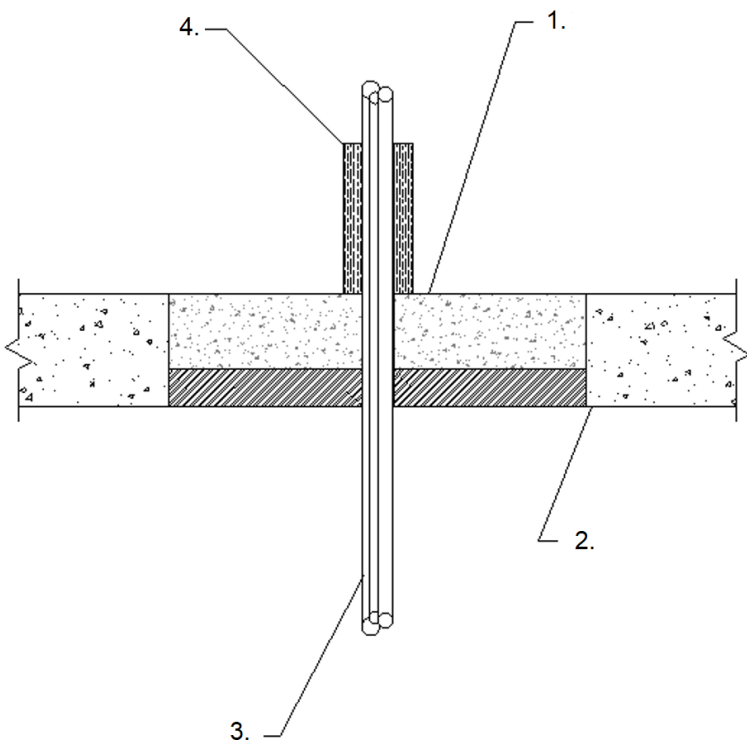


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Insulated Cable Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
				Key 1. Silverseal HS Compound 100mm 2. Rigid Floor $\geq 150\text{mm}$ 3. Service Cables 4. 500 mm wide by 25 mm thick Rockwool Duct Wrap insulation, min. 45 kg/m^3
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Positioning	Classification
Electrical cables up to 80 mm diameter / 25 mm thick Rockwool Duct Wrap insulation (min 45 kg/m^3)	1800 x 1800	100mm	Flush with the top of the floor	E 120, EI 60 C/U
Non-sheathed wire up to 24 mm diameter / 25 mm thick Rockwool Duct Wrap insulation (min 45 kg/m^3)	1800 x 1800	100	Flush with the top of the floor	EI 120



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Insulated Cable Penetrations fitted centrally within the aperture

Rigid Floors $\geq 150\text{mm}$				
<p>The diagram shows a cross-section of a rigid floor (2) with a central aperture. A bundle of service cables (3) passes through the floor. The cables are surrounded by a 450 mm wide by 25 mm thick Rockwool Duct Wrap insulation (4). The insulation is sealed with Silverseal HS Compound (1) at the top and bottom of the penetration.</p>				Key <ol style="list-style-type: none"> 1. Silverseal HS Compound 150mm 2. Rigid Floor $\geq 150\text{mm}$ 3. Service Cables 4. 450 mm wide by 25 mm thick Rockwool Duct Wrap insulation, min. 45 kg/m^3
Penetration Service	Maximum Seal Size (mm)	Minimum Seal Depth (mm)	Seal Positioning	Classification
Telecomm cables in a bundle of up to 100 mm diameter / 25 mm thick Rockwool Duct Wrap insulation (min 45 kg/m^3)	1800 x 1800	150mm	Flush to top of floor + additional step around services	EI 120



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Annex A

Table 1

Plastic Type and pipe wall thickness (mm)			
Pipebloc PCP ref. *	PVC-U, PVC-C	PE, ABS, SAN-PVC	PP
32	1.8	2.9	2.9
40	1.8	2.9	2.9
50	1.8	2.9	2.9
55	1.8 - 2.3	2.9 - 5.1	2.9 - 4.4
63	2.3 - 3	2.9 - 5.8	2.9 - 4.4
75	3.1 - 4.8	2.8 - 6.9	2.8 - 6.7
82	3.1 - 4.8	2.8 - 7.5	2.8 - 6.7
90	4.2 - 7.4	2.8 - 8.2	2.7 - 10
100	4.2 - 7.4	2.7 - 9.1	2.7 - 10
110	4.2 - 7.4	2.7 - 10	2.7 - 10
125	6	3.1	3.1
140	6.1 - 7.5	3.9 - 5.8	3.5 - 8
160	6.2- 9.5	4.9 - 9.5	4 - 14.6

* See graphs on page 30 for specific intumescent layers

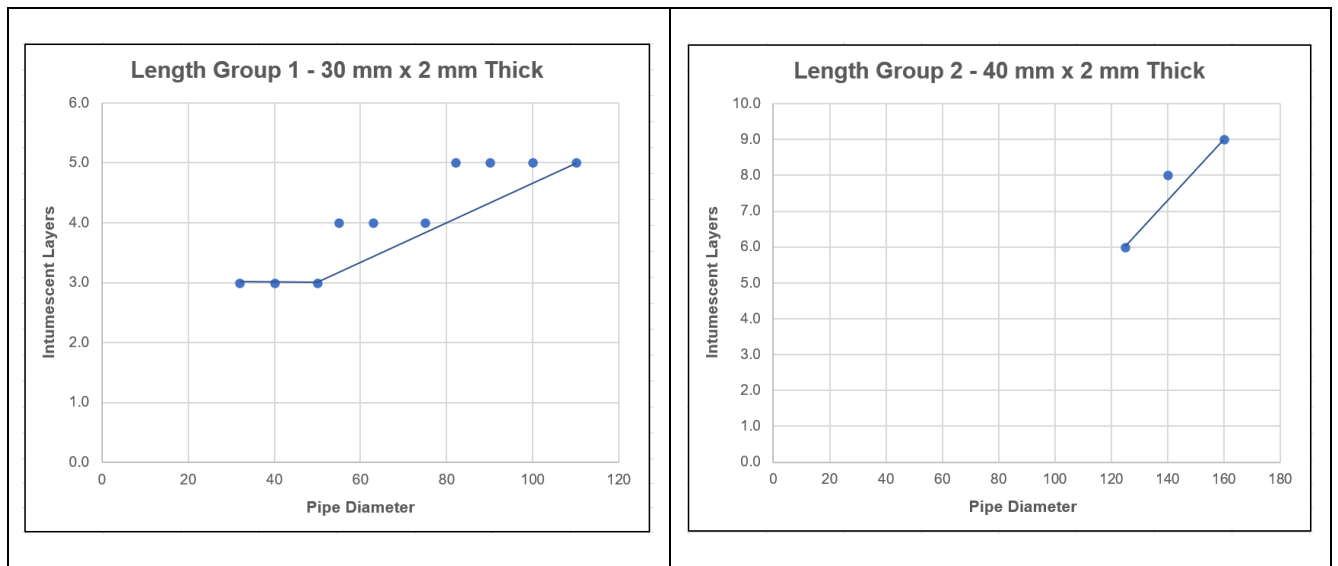
Table 2

Plastic Type and pipe wall thickness (mm)			
Pipebloc PCP ref.	PVC-U, PVC-C	PE, ABS, SAN-PVC	PP
32	1.8	3.0	2
40	1.8	3.0	2
50	1.8 – 3.7	3.0 – 4.6	2 – 6.9
55	2 - 3.9	3.0- 5.1	2.1 - 7.2
63	2.3 - 4.3	3.0 - 5.8	2.2 - 7.6
75	2.8 -4.9	2.9 - 6.9	2.3 - 8.2
82	3.1 - 5.2	2.9 - 7.5	2.4 - 8.6
90	3.4 - 5.6	2.8 - 8.2	2.5 - 9
100	3.8 - 6.1	2.8 - 9.1	2.6 - 9.5
110	4.2 - 6.6	2.7 - 10	2.7 - 10
125	4.8 - 7.4		
140	5.4 - 8.3		
160	6.2 - 9.5		

* See graphs on pages 30 for specific intumescent layers



Appendix UL-EU CERTIFICATE UL-EU-00924-CPR



Appendix UL-EU CERTIFICATE UL-EU-00924-CPR

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.

