UL-EU CERTIFICATE

UL-EU-00771-CPR Certificate No.

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2015-04-19 **Date of Issue** 2021-07-05 Revised

Certificate Holder FSi Ltd

Westminster Industrial Estate

Tamworth Rd Measham **DE127DS** United Kingdom

A/008 Manufacturer

Fire Stop - Coated Board **Certified Product Type**

Stopseal 50 Coated Board / Stopseal 60 Coated Board **Product Trade Name**

> N/A **Trademark**

See Appendix Rating/Classification

ETAG 026-2 / EN 13501-2 / EN 13501-3 **Harmonised Technical Specifications**

> ETA 14/0005, EC - CERTIFICATE OF CONSTANCY OF **Supporting Documentation**

PERFORMANCE - 1121 - CPR - JA5021, Classification

Report No. 4789513566

Additional test evidence is held on file **Additional information**

> 2025-04-19 **Expiry date**





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 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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Stopseal 50 Coated Board / Stopseal 60 Coated Board for fire stopping where services penetrate floors and walls. The detailed scope is given in pages 3 to 156 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 120 minutes (EI 120).

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 & EN 1366-1: 2000
- iii) Classification in accordance with EN 13501-2 & EN 13501-3
- iv) Durability and Servicability as defined in ETAG 026-2

The durability class of Stopseal 50 Coated Board / Stopseal 60 Coated Board is Z₁ -

intended for use at internal conditions with high humidity, excluding temperatures below 0°C

VOC test report – Indoor Air Comfort GOLD® referenced – eurofins 392-2017-00008801_A_EN, is also available.

Fire resisting & smoke extraction ducts penetrating the Stopseal Coated board shall be classified (EN13501-3/4) for the required performance period, in addition to the details given on page 156.



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Product-type: Coated board	Intended use: Penet	ration Seal
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
Vii. Vii. Vii.	BWR 1 Mechanical resistance and stabili	ty
人。アンプロアム	None	レスペレスペレスペ
$\times \times \times$	BWR 2 Safety in case of fire	$\times \times \times \times$
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	See pages 7 to 156
VII. VII. VII.	BWR 3 Hygiene, health and environmen	t
EN 1026:2000	Air permeability (material property)	See page 4
ETAG 026-3, Annex C	Water permeability (material property)	No performance determined
Declaration of manufacturer	Release of dangerous substances	Declaration of manufacturer
\times	BWR 4 Safety in use	$\langle \times \times \rangle$
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
$\times \times \times$	BWR 5 Protection against noise	$\langle \times \times \rangle$
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw (C;C _{tr})= 24(-2;-3) and See pages 5&6
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined
	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
)(U ₁)(U ₁)(U ₁	General aspects relating to fitness for us	e
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Z_1
В	WR 7 Sustainable use of natural resource	ees
\times		No performance determined



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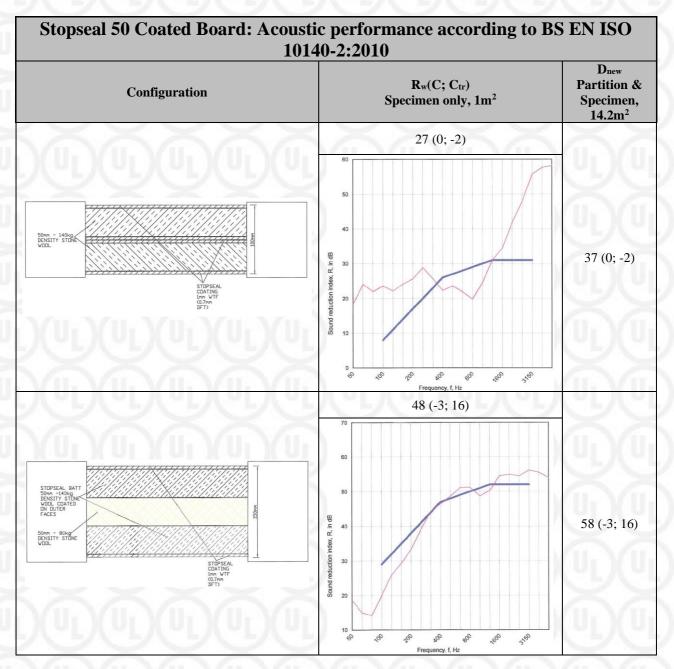
Stopseal 50 Coated Board: Air Permeability according to BS EN 1026				
Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressu	
Tressure (1 a)	Leakage (m³/h)	Leakage (m³/m²/ h)	Leakage (m³/h)	Leakage (m³/m²/ h)
50	0.6	0.8	1.1	1.5
100	1.0	1.4	1.3	1.8
150	2.8	3.9	1.5	2.1
200	3.8	5.3	1.9	2.6
250	4.5	6.3	2.0	2.8
300	5.0	6.9	2.4	3.3
450	5.1	7.1	1.9	2.6
600	6.7	9.3	2.2	3.1



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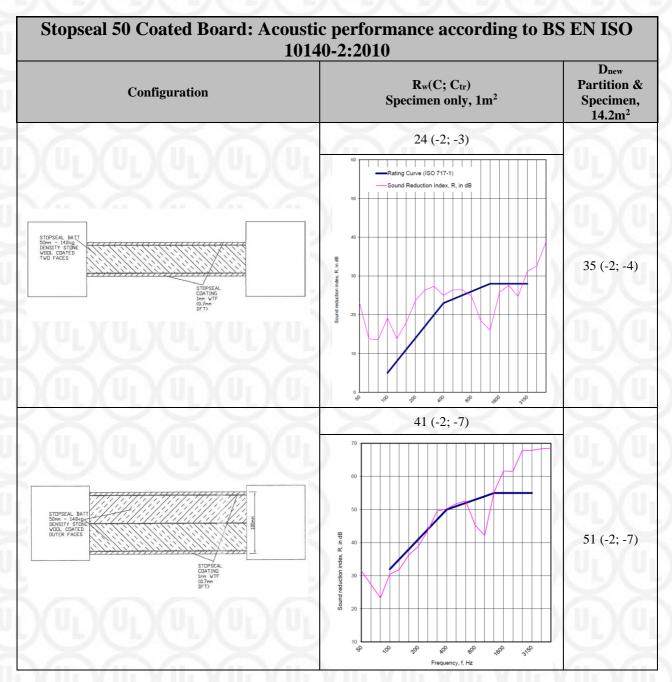




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Rigid Walls Minimum Thickness 70mm

Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables

	Key 1. Supporting Construction
70	2. Pyrocoustic Sealant
1_ .	3. Stopseal Batt
. ∠	4. Service Penetration
2	
3 1	JL)(UL)(UL)(UL
4-	$<\!\!\times\!\!\times\!\!\times$
	J ₁)(U ₁)(U ₁)(U ₁)
	Ja / (Ua) (Ua) (Ua
Vi i i	
· 4	
rvice(s)	Classification
0mm wide x 60mm deep steel cable basket containing 3 x type 'B' cable and 20 x	

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed on all edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables and Conduits

	<u>Key</u> 1.	Supporting Construction
1 .	2.	Pyrocoustic Sealant
	3.	Stopseal Batt
4	4.	Service Penetration
ervice(s))()(Classification
Omm dia Adaptaflex SPL20 flexible conduit Omm dia Kopex KSU 316 stainless steel flexible conduit		EI 90
50mm wide x 60mm deep steel cable tray containing 4 x FP200 Gold (Firealarm cable 7mm lia red) Cables	5/1	E 90 EI 60

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed on all edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables

Max Aperture 2600mm Wide x 2600mm High Key **Supporting Construction** Pyrocoustic Sealant Stopseal Batt Service Penetration \triangleleft Classification Service(s) 500mm wide x 60mm deep steel cable basket containing 3 x type 'B' cable and 20 x bundle of telecoms cables EI 60 500mm wide x 60mm deep steel cable tray containing 1 x type 'B' cable, 3 x type 'A1' cable, 3 x type 'A2' cable, and 3 x type 'A3' cable

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed on all edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables and Conduits

	L/L L/L L/L L		Key	
	70		1.	Supporting Construction
	1-		2.	Pyrocoustic Sealant
			3.	Stopseal Batt
			4.	Service Penetration
4~	3-2			
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			5)(
			Κ,	
	. √ 		IJ	
Vii.V		Vii.Vii		/ii.\/ii.\/
Service(s)	THEFTE			Classification
20mm dia Adaptaflex SPL20	flexible conduit	Var Var Var		11. V/11. V
20mm dia Kopex KSU 316 st	ainless steel flexible conduit			EI 60
150mm wide x 60mm deep st dia red) Cables	eel cable tray containing 4 x FP200 C	Gold (Firealarm cable 7mm		EI 60

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed on all edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Rigid Walls Minimum Thickness 75mm

Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables and Cable Trunking

Max Aperture 2600mm Wide x 2600mm High	<u>ا</u> را	n ^r)(n ^r)(n
	<u>Key</u> 1.	Supporting Construction
	2.	Pyrocoustic Sealant
2	3.	Stopseal Batt
4~	4.	<u>Insulation</u>
	5.	Service Penetration
	K	
· • • • • • • • • • • • • • • • • • • •		
ervice(s)	N	Classification
50mm x 150mm Insulated steel cable trunking, Stone Wool 40mm thick, 45kg/m³ (LI 00mm). FSi S-Line Pillows tightly fitted around the cables in the section of trunking within the depth of the partition	K	EI 60 U/U
Cables 1xB1, 1xC1, 1xG1, 1xG2	LA	
Cables 1xB1		EI 60
Cables 1xC1		EI 00
Unsheathed electrical cables 0-24mm dia		

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables and Cable Trunking

Max Aperture 2600mm Wide x 2600mm High	
r ⁷⁵ 1	Key 1. Supporting Construction
)(U _L)(U	2. Pyrocoustic Sealant
1 .	3. <u>Stopseal Batt</u>
	4. <u>Insulation</u>
4 3 2 5	5. <u>Service Penetrations</u>
)(UL)(U)(U)(U)(
	$(U_L)(U_L)$
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Service(s)	Classification
Omm x 50mm Insulated steel cable trunking, Stone Wool 40mm thick, 45kg/m³ (LI 400mm). Si S-Line Pillows tightly fitted around the cables in the section of trunking within the depth of the partition	EI 60 U/U
Cables 1xA1, 1xA2, 1xA3	Vii.Vii.V
Cables 1xA1 Cables 1xA2	EI 60
Cables 1xA3	

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Stopseal Fire Batt 50mm, Plastic Pipes

Max Aperture 600mm Wide x 600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt

1	
5 4	
	3
. ∆ 	

Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Service Penetration

Service(s)	PipeBloc PCP Ref	Classification
PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	EI 60 U/C
PVC Pipe 40mm Ø, 1.8mm wall thickness	40mm	
PVC Pipe 50mm Ø, 1.8mm wall thickness	50mm	
PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	55mm	
PVC Pipe 63mm Ø, 2.3-3mm wall thickness	63mm	
PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	75mm	
PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	82mm	
PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	90mm	
PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	100mm	
PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	110mm	
PVC Pipe 125mm Ø, 6mm wall thickness	125mm	
PVC Pipe 140mm Ø, 6.1-7.5mm wall thickness	140mm	



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Max Aperture 600mm Wide x 600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt

75 3 5 4 7 7 7 7

Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Service Penetration

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	/11. \\/11. \\/1
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	EI 60 U/C
PE Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PE Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	

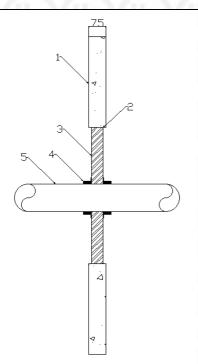


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Max Aperture 600mm Wide x 600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Service Penetration

Service(s)	PipeBloc PCP Ref	Classification
PP Pipe 32mm Ø, 2.9mm wall thickness	32mm	
PP Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PP Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PP Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PP Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PP Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PP Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	EI 60 U/C
PP Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PP Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PP Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PP Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PP Pipe 140mm Ø, 3.5-8mm wall thickness	140mm	
PP Pipe 160mm Ø, 4-14.6mm wall thickness	160mm	



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Rigid Walls Minimum Thickness 100mm

Double Layer Stopseal Fire Batt 50mm, Electrical Cables and Conduits

100	Key
1- 100	Supporting constructio Pyrocoustic Sealant Stopseal Batt Service Penetration
2 3 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Service(s)	Classification
Electrical cables 0mm to 21mm dia	EI 60
11 \/11 \/11 \/11 \/11 \/11 \/11 \/11 \	E 60 EI 45
Electrical cables 22mm to 50mm dia	E1 43
Electrical cables 22mm to 50mm dia Electrical cables 51mm to 80mm dia	E 60 EI 30
	E 60
Electrical cables 51mm to 80mm dia Cable Trays and Ladders 100 mm diameter bundle telecommunication cable type "F"	E 60 EI 30 E 60 EI 45
Electrical cables 51mm to 80mm dia Cable Trays and Ladders 100 mm diameter bundle telecommunication cable type "F" Unsheathed electrical cables 0-24mm dia	E 60 EI 30 E 60 EI 45
Electrical cables 51mm to 80mm dia Cable Trays and Ladders 100 mm diameter bundle telecommunication cable type "F"	E 60 EI 30 E 60 EI 45



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Double Layer Stopseal Fire Batt 50mm, Insulated Metallic Pipes

Max Aperture 730mm Wide x 1200mm High	
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service 6. Pyropro HPE
Service(s)	Classification
¹ Single copper or mild steel pipe 40mm diameter and 1.5 – 14.2 mm wall with sustained/continuous 20mm thick foil faced glass wool insulation (min 80Kg/m³)	E 90 U/C EI 60 U/C
¹ Single copper or mild steel pipe 40-159mm diameter and 1.5 – 14.2 mm wall (see graph below) with sustained/continuous 30mm thick foil faced glass wool insulation (min 80Kg/m³)	EI 60 U/C

¹15mm deep x 15mm wide annulus Pyropro HPE Sealant to both faces of the pipe



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60



Pipe Diameter - mm

27-CP-F0855 Issue: 3.1



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Max Aperture 2600mm Wide x 2600mm High	YIIAYIIAYIIAY
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Pyropro HPE 5. Insulation 6. Penetration Service
Service(s)	Classification
¹ Single copper or mild steel pipe 40mm diameter and 1.5 – 14.2 mm wall with sustained/continuous 20mm thick foil faced glass wool insulation (min 80Kg/m ³)	EI 60 U/C
¹ Single copper or mild steel pipe 40-159mm diameter and 1.5 – 14.2 mm wall (see graph below) with sustained/continuous 30mm thick foil faced glass wool insulation (min 80Kg/m³)	EI 60 U/C

¹15mm deep x 15mm wide annulus Pyropro HPE Sealant to both faces of the pipe

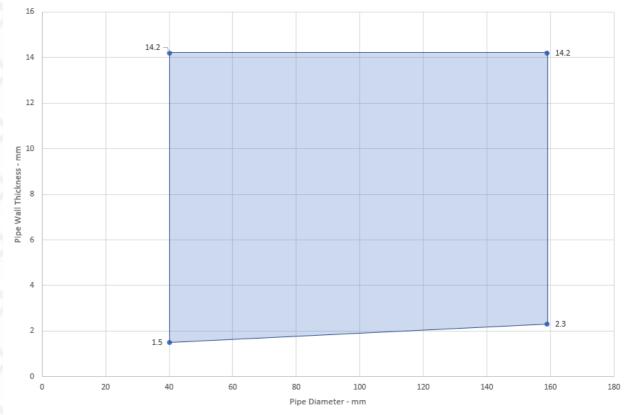


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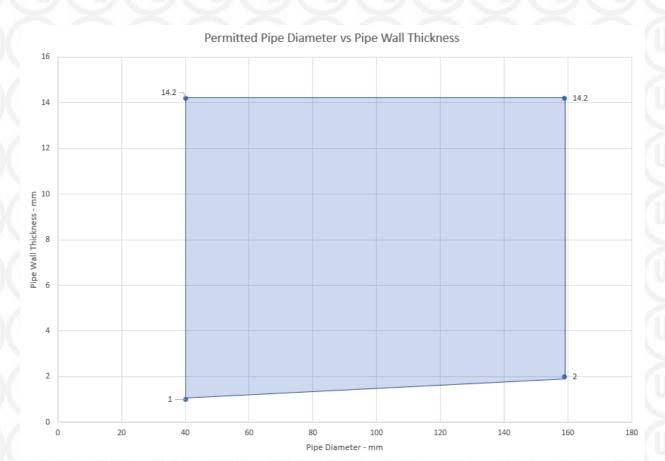
Max Aperture 730mm Wide x 1200mm High	 Key Supporting construction Pyrocoustic Sealant Stopseal Batt Insulation Penetration Service
3	
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness (see graph below). 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 120 C/U EI 45 C/U
Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 120 C/U EI 60 C/U



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100	<u>Key</u> 1	
	2 3	. Pyrocoustic Sealant. Stopseal Batt
1	4	. Insulation
3	5	. Penetration Service
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3		
4-		
5	リ人リ人	
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2		
Service(s)	1.X41.X	Classification
\times	$\langle \rangle \langle \rangle$	
teel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness (below). 25mm thick foil faced glassfibre insulation min. 30kg/m ³		E 60 C/U EI 45 C/U
teel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm	thick foil	E 60 C/U
faced glassfibre insulation min. 30kg/m ³ (C/S)	I. VII. V	EI 60 C/U

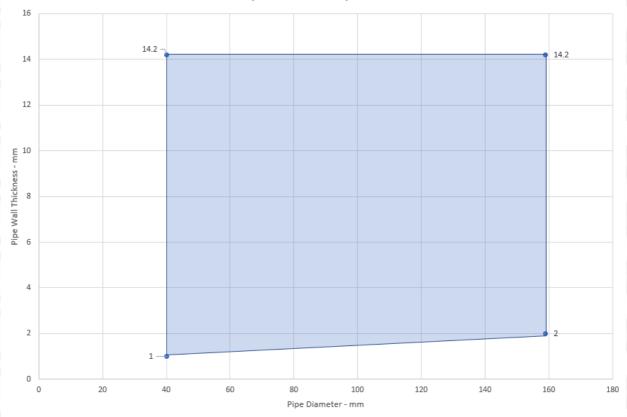


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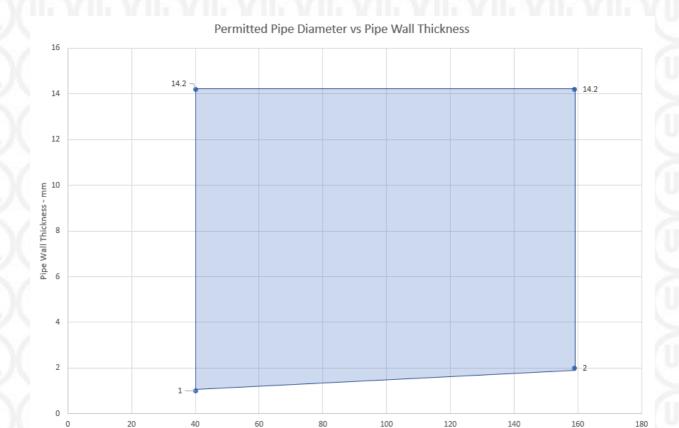
Max Aperture 730mm Wide x 1200mm High	
(Penetrations positioned as per option 1 or 2 below, 0mm distance between ser	vices and 50mm to edge of seal) Key
2 2 3	 Supporting construction Pyrocoustic Sealant Stopseal Batt PST Coating Penetration Service
5	
Service(s)	Classification
3(U_1)(U_1)(U_1)(U1)(U1)(U1)(U1)(U1)(U1)	30 U i 30 U i 30 U i 30
Steel or Copper Pipe 108mm Ø, 1.5mm – 14.2mm wall thickness, 50mm thick foil	E 120 C/U
faced stonewool insulation min. 100kg/m³ (L/I 500mm) Steel or Copper Pipe 108mm Ø, 1.5mm – 14.2mm wall thickness, 50mm thick foil	EI 45 C/U E 120 C/U
faced stonewool insulation min. 100kg/m ³ (C/I)	EI 60 C/U
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness (see graph below), 40mm thick foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel 42-324mm Ø, 16mm wall thickness. 40mm thick foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel or Copper Pipe 42mm Ø, 1.0mm – 14.2mm wall thickness, FSi PST coating	E 120 C/U
along the penetration 2mm DFT (L/I 300mm)	EI 45 C/U
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness (see graph	E 120 C/U
below), FSi PST coating along the penetration 2mm DFT (L/I 300mm)	EI 20 C/U
Steel 42-324mm Ø, 16mm wall thickness. 14.2mm wall thickness FSi PST coating	E 120 C/U
along the penetration 2mm DFT (L/I 300mm)	EI 45 C/U



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Pipe Diameter - mm



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Max Aperture 2600mm Wide x 2600mm H	
(Penetrations positioned as per option 1 or 2 below, 0mm distance between s	Every 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
Steel or Copper Pipe 108mm Ø, 1.5mm – 14.2mm wall thickness 50mm thick foil	E 60 C/U EI 45 C/U
faced stonewool insulation min. 100kg/m³ (L/I 500mm) Steel or Copper Pipe 108mm Ø, 1.5mm – 14.2mm wall thickness, 50mm thick foil faced stonewool insulation min. 100kg/m³ (C/I)	EI 60 C/U
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness (see graph below), 40mm thick foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel 42-324mm Ø, 16mm wall thickness. 40mm thick foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel or Copper Pipe 42mm Ø, 1.0mm – 14.2mm wall thickness, FSi PST coating	E 60 C/U
	ET 45 C/TI
along the penetration 2mm DFT (L/I 300mm)	EI 45 C/U
Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness (see graph	E 60 C/U
Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness (see graph	E 60 C/U

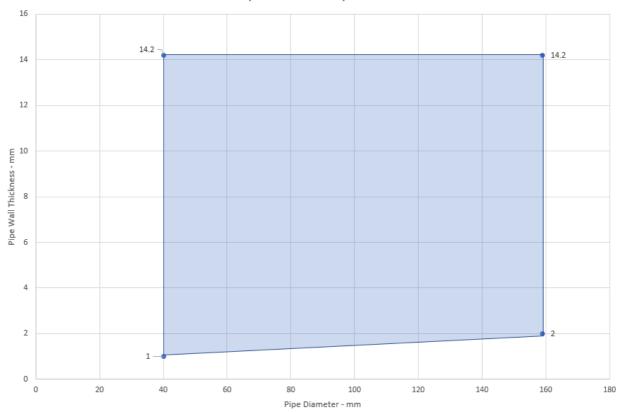


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Max Aperture 750mm Wide x 1200mm Hig	gh
100 1 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service 6. PipeBloc EL / PipeBloc PWP
Service(s)	Classification
¹ Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST Insulation ² (C/S)	E 120 C/U EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1 − 14.2mm wall thickness. 25-13mm thick K Flex ST insulation ² (C/S)	E 120 C/U EI 90 C/U
¹ Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM insulation ³ (C/S)	E 120 C/U EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM insulation ³ (C/S)	E 120 C/U EI 90 C/U
¹ Steel or Copper Pipe 42mm Ø, 1.0–14.2mm wall thickness. 50mm thick glassfibre	E 120 C/U EI 90 C/U

 $^{^{1}}$ 2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the Stopseal Fire Batt

(II)

²Or equivalent elastomeric pipe insulation classified BL − s2, d0 or better to EN 13501-1

³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 2600mm Wide x 2600mm Hi	gh
100 1	 Key Supporting construction Pyrocoustic Sealant Stopseal Batt Insulation Penetration Service PipeBloc EL / PipeBloc PWP
Service(s)	Classification
¹ Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST Insulation ² (C/S)	EI 60 C/U
¹Steel or Copper Pipe 42mm Ø, 1 − 14.2mm wall thickness. 25-13mm thick K Flex ST insulation² (C/S)	EI 60 C/U
¹ Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM insulation ³ (C/S)	EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM insulation ³ (C/S)	EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1.02–14.2mm wall thickness. 50mm thick glassfibre insulation (C/S)	EI 60 C/U

¹2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the Stopseal Fire Batt

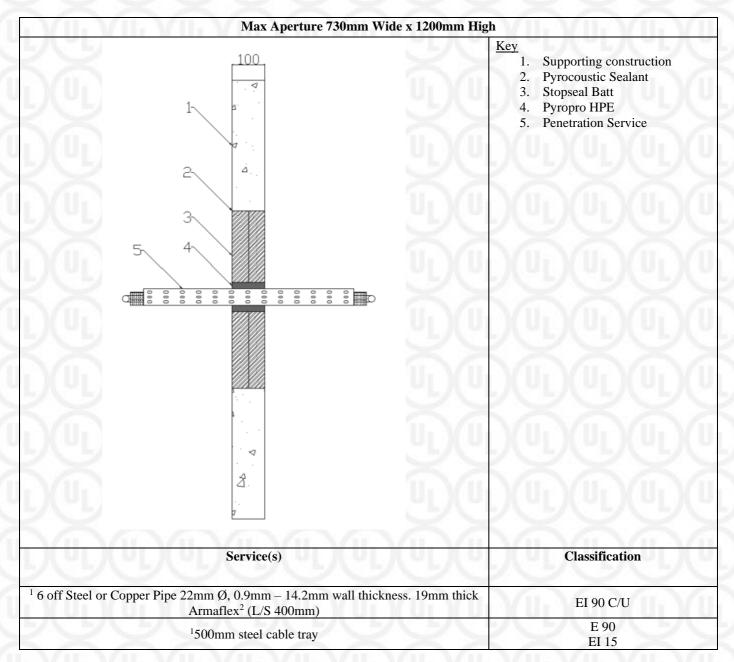
(II)

²Or equivalent elastomeric pipe insulation classified BL − s2, d0 or better to EN 13501-1

³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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¹Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



²Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

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Max Aperture 2600mm Wide x 2600mm High	
	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Pyropro HPE 5. Penetration Service
Service(s)	Classification
6 off Steel or Copper Pipe 22mm Ø, 0.9mm – 14.2mm wall thickness. 19mm thickness Armaflex ² (L/S 400mm)	ck EI 60 C/U
¹ 500mm steel cable tray	E 60 EI 15

¹Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



²Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

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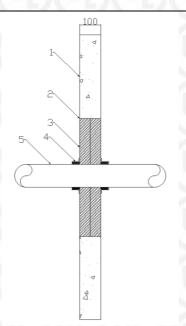
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Double Layer Stopseal Fire Batt 50mm, Plastic Pipes

Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	EI 120 U/C
PVC Pipe 40mm Ø, 1.8mm wall thickness	40mm	
PVC Pipe 50mm Ø, 1.8mm wall thickness	50mm	
PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	55mm	
PVC Pipe 63mm Ø, 2.3-3mm wall thickness	63mm	
PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	75mm	
PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	82mm	
PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	90mm	
PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	100mm	
PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	110mm	
PVC Pipe 125mm Ø, 6mm wall thickness	125mm	
PVC Pipe 140mm Ø, 6.1-7.5mm wall thickness	140mm	



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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt

Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	EI 60 U/C
PVC Pipe 40mm Ø, 1.8mm wall thickness	40mm	
PVC Pipe 50mm Ø, 1.8mm wall thickness	50mm	
PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	55mm	
PVC Pipe 63mm Ø, 2.3-3mm wall thickness	63mm	
PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	75mm	
PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	82mm	
PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	90mm	
PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	100mm	
PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	110mm	
PVC Pipe 125mm Ø, 6mm wall thickness	125mm	
PVC Pipe 140mm Ø, 6.1-7.5mm wall thickness	140mm	
PVC Pipe 160mm Ø, 6.2-9.5mm wall thickness	160mm	



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Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt

Kev

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PP Pipe 32mm Ø, 2.9mm wall thickness	32mm	EI 120 U/C
PP Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PP Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PP Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PP Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PP Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PP Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	
PP Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PP Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PP Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PP Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PP Pipe 140mm Ø, 3.5-8mm wall thickness	140mm	
PP Pipe 160mm Ø, 4-14.6mm wall thickness	160mm	



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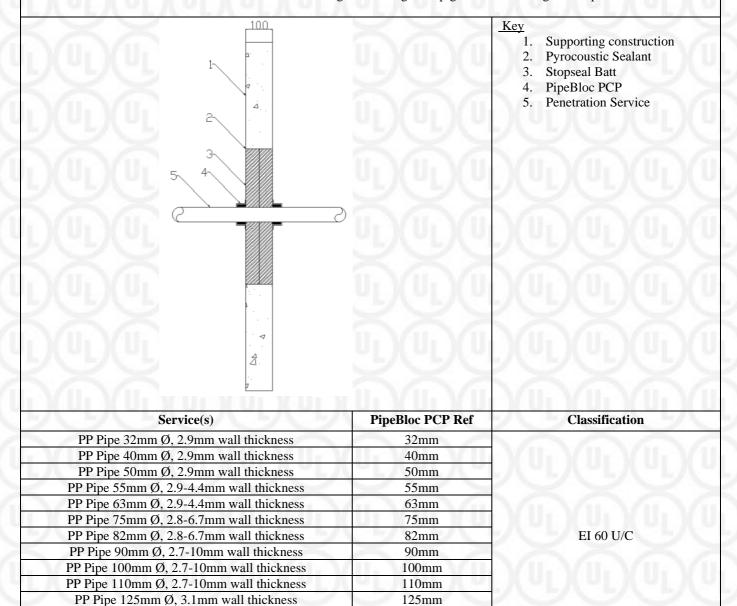
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PP Pipe 140mm Ø, 3.5-8mm wall thickness

PP Pipe 160mm Ø, 4-14.6mm wall thickness

Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



140mm

160mm

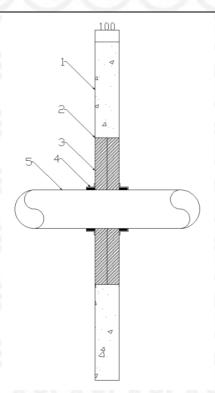


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Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	EI 120 U/C
PE Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PE Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	

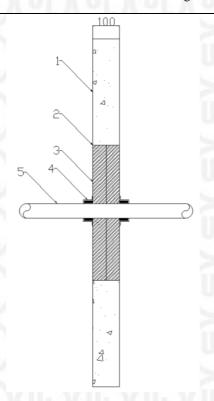


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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	EI 60 U/C
PE Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PE Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	



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Double Layer Stopseal Fire Batt 50mm, Insulated Plastic Pipes

Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 100mm distance between services and 50mm to edge of seal)

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Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc EL / PipeBloc PWP
- 5. Insulation
- 6. Penetration Service

Service(s)	PipeBloc EL / PipeBloc PWP Ref	Classification
PVC Pipe 40mm Ø, 1.9mm wall thickness. 25 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	3 x 2mm thickness	E 120 U/C
PVC Pipe 40mm Ø, 3mm wall thickness. 15 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	3 x 2mm thickness	EI 20 U/C EI 90 U/C
PVC Pipe 110mm Ø, 4.2mm wall thickness. 25 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	EI 120 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 20 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	E 120 U/C EI 90 U/C
PVC Pipe 40mm Ø, 1.9mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	E 120 IVG
PVC Pipe 40mm Ø, 3mm wall thickness. 9 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	E 120 U/C EI 90 U/C
PVC Pipe 110mm Ø, 4.2mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	EI 120 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 13 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	E 120 U/C EI 90 U/C

¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt



²Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

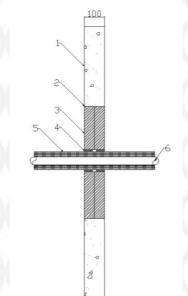
³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 100mm distance between services and 50mm to edge of seal)



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc EL / PipeBloc PWP
- 5. Insulation
- 6. Penetration Service

b T		
Service(s)	PipeBloc EL / PipeBloc PWP Ref	Classification
PVC Pipe 40mm Ø, 1.9mm wall thickness. 25 mm thick Kingspan Kooltherm FM insulation ³ (C/S)	3 x 2mm thickness	
PVC Pipe 40mm Ø, 3mm wall thickness. 15 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	3 x 2mm thickness	EI 60 U/C
PVC Pipe 110mm Ø, 4.2mm wall thickness. 25 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	EI 60 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 20 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	EI 60 U/C
PVC Pipe 40mm Ø, 1.9mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	
PVC Pipe 40mm Ø, 3mm wall thickness. 9 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	EI 60 U/C
PVC Pipe 110mm Ø, 4.2mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	EI 60 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 13 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	EI 60 U/C

¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt

(U)

²Or equivalent elastomeric pipe insulation classified BL − s2, d0 or better to EN 13501-1

³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Single Layer Patress, Stopseal Fire Batt 50mm, Electrical Cables and Conduits

Max Aperture 750mm Wide x 1200mm	ı High
100	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
² Electrical cables upto 80mm Ø	미)(미)(미)(미
² Cable Trays and Ladders	
² 100 mm diameter bundle telecommunication cable type "F"	EI 120
² Unsheathed electrical cables up to 24mm Ø	
² Steel or Copper Conduits up to 16mm Ø	$\times \times \times$
² Plastic conduits up to 16mm Ø	III VIII VIII VIII

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



²Cables and cable trays wrapped with a single layer of 40mm thick, 40kg/m³ Stonewool (L/I 300mm)

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Max Aperture 2600mm Wide x 26	600mm High
	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
² Electrical cables upto 80mm Ø	
² Cable Trays and Ladders	A/III/A/IIA/IIA/
² 100 mm diameter bundle telecommunication cable type "F"	EI 60
² Unsheathed electrical cables up to 24mm Ø	EI OU
² Steel or Copper Conduits up to 16mm Ø	
² Plastic conduits up to 16mm Ø	VII.VII.VII.VII.V

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



²Cables and cable trays wrapped with a single layer of 40mm thick, 40kg/m³ Stonewool (L/I 300mm)

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Single Layer Patress, Stopseal Fire Batt 50mm, Insulated Metallic Pipes

Max Aperture 750mm Wide x 1200mm High	7(0:7(0:7(0:7(0
	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PipeBloc EL / PipeBloc PWP 5. Insulation 6. Penetration Service
Service(s)	Classification
² Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST Insulation ³ (C/S)	E 120 C/U EI 60 C/U
² Steel or Copper Pipe 42-159mm Ø, 1.2 – 14.2mm wall thickness. 25mm thick K Flex ST insulation ³ (C/S)	E 120 C/U EI 90 C/U
² Steel or Copper Pipe 42mm Ø, 1 – 14.2mm wall thickness. 25-13mm thick K Flex ST insulation ³ (C/S)	EI 120 C/U
² Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM insulation ⁴ (C/S)	E 120 C/U EI 90 C/U
² Steel or Copper Pipe 42mm Ø, 1–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM insulation ⁴ (C/S)	EI 120 C/U
² Steel or Copper Pipe 42mm Ø, 1.2–14.2mm wall thickness. 50mm thick glassfibre	E 120 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

(II)

²2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation

³Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

⁴Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 2600mm Wide x 2600mm High	10 No No No
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PipeBloc EL / PipeBloc PWP 5. Insulation 6. Penetration Service
Service(s)	Classification
² Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST ³ Insulation (C/S) ² Steel or Copper Pipe 42-159mm Ø, 1.2 – 14.2mm wall thickness. 25mm thick K Flex ST ³ insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1 – 14.2mm wall thickness. 25-13mm thick K Flex ST ³ insulation (C/S) ² Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ⁴ insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ⁴ insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1.2–14.2mm wall thickness. 50mm thick glassfibre insulation min. 30kg/m ³ (C/S)	EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

(UL)

²2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation

³Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

⁴Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 750mm Wide x 1200mm High	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness (see graph below). 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 120 C/U EI 90 C/U
Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	EI 120 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

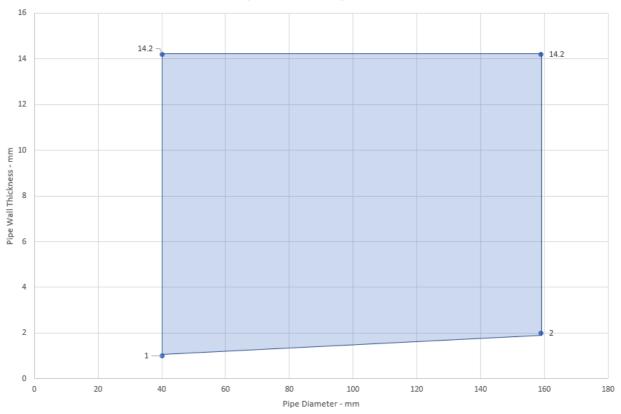


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Permitted Pipe Diameter vs Pipe Wall Thickness





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Max Aperture 2600mm Wide x 2600mm Hig	
100	 Key Supporting construction Pyrocoustic Sealant Stopseal Batt Insulation Penetration Service
4	
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness (see graph below). 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	EI 60 C/U
Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

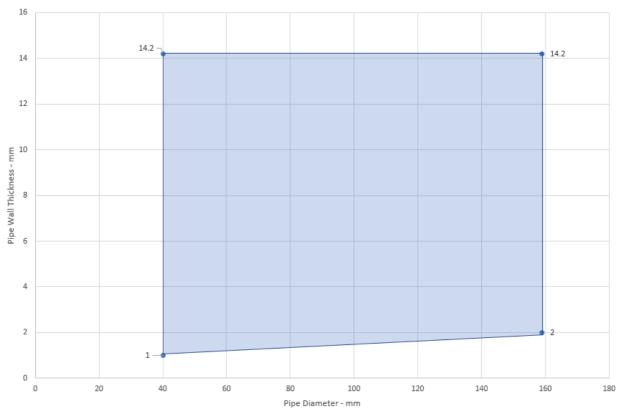


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Permitted Pipe Diameter vs Pipe Wall Thickness





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Single Layer Patress, Stopseal Fire Batt 50mm, Plastic Pipes

(D	nm Wide x 1200mm High	
(Penetrations positioned as per option 1 or 2 below, 0		
		1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PipeBloc PCP 5. Penetration Service
2. A		
	PipeBloc PCP Ref	Classification
Service(s)	$A \rightarrow A$	Classification
 ∄. ;.	PipeBloc PCP Ref 32mm 40mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness	32mm 40mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	32mm 40mm 50mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness	32mm 40mm 50mm 55mm	(T)(T)(T) (T)(T)(T)
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm	Classification EI 120 U/C
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm	(T)(T)(T) (T)(T)(T)
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 63mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm	(T)(T)(T) (T)(T)(T)
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 63mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm 100mm	(T)(T)(T) (T)(T)(T)
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 63mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm 100mm 110mm	(T)(T)(T) (T)(T)(T)
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 63mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm 100mm	(T)(T)(T) (T)(T)(T)

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

Collars secured both faces of the substrate utilsing 80mm long pig tail screw through to the Stopseal Fire Batt



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	mm distance between semiler	and 50mm to adap of and
(1 electrations positioned as per option 1 of 2 below, (Omm distance between services Ke	
		Supporting constructio Pyrocoustic Sealant Stopseal Batt PipeBloc PCP Penetration Service
. 4	\times \times \times	
Service(s)	PipeBloc PCP Ref	Classification
Service(s)		Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness	32mm 40mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness	32mm 40mm 50mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	32mm 40mm 50mm 55mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness	32mm 40mm 50mm 55mm 63mm	Classification
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm	
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm	Classification EI 60 U/C
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm	
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm	
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm 100mm	
Service(s) PVC Pipe 32mm Ø, 1.8mm wall thickness PVC Pipe 40mm Ø, 1.8mm wall thickness PVC Pipe 50mm Ø, 1.8mm wall thickness PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness PVC Pipe 63mm Ø, 2.3-3mm wall thickness PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	32mm 40mm 50mm 55mm 63mm 75mm 82mm 90mm 100mm 110mm	

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt

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Max Aperture 730mm Wide x 1200mm High (Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Key 1. Supporting construction 2. Pyrocoustic Sealant Stopseal Batt PipeBloc PCP Penetration Service Service(s) PipeBloc PCP Ref Classification PP Pipe 32mm Ø, 2.9mm wall thickness 32mm PP Pipe 40mm Ø, 2.9mm wall thickness 40mm PP Pipe 50mm Ø, 2.9mm wall thickness 50mm PP Pipe 55mm Ø, 2.9-4.4mm wall thickness 55mm PP Pipe 63mm Ø, 2.9-4.4mm wall thickness 63mm PP Pipe 75mm Ø, 2.8-6.7mm wall thickness 75mm EI 120 U/C PP Pipe 82mm Ø, 2.8-6.7mm wall thickness 82mm PP Pipe 90mm Ø, 2.7-10mm wall thickness 90mm PP Pipe 100mm Ø, 2.7-10mm wall thickness 100mm PP Pipe 110mm Ø, 2.7-10mm wall thickness 110mm PP Pipe 125mm Ø, 3.1mm wall thickness 125mm PP Pipe 140mm Ø, 3.5-8mm wall thickness 140mm PP Pipe 160mm Ø, 4-14.6mm wall thickness 160mm

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt



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Max Aperture 2600mm Wide x 2600mm High (Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Key 1. Supporting construction 2. Pyrocoustic Sealant Stopseal Batt PipeBloc PCP Penetration Service PipeBloc PCP Ref Classification Service(s) PP Pipe 32mm Ø, 2.9mm wall thickness 32mm PP Pipe 40mm Ø, 2.9mm wall thickness 40mm PP Pipe 50mm Ø, 2.9mm wall thickness 50mm PP Pipe 55mm Ø, 2.9-4.4mm wall thickness 55mm PP Pipe 63mm Ø, 2.9-4.4mm wall thickness 63mm PP Pipe 75mm Ø, 2.8-6.7mm wall thickness 75mm EI 60 U/C PP Pipe 82mm Ø, 2.8-6.7mm wall thickness 82mm PP Pipe 90mm Ø, 2.7-10mm wall thickness 90mm PP Pipe 100mm Ø, 2.7-10mm wall thickness 100mm PP Pipe 110mm Ø, 2.7-10mm wall thickness 110mm PP Pipe 125mm Ø, 3.1mm wall thickness 125mm PP Pipe 140mm Ø, 3.5-8mm wall thickness 140mm PP Pipe 160mm Ø, 4-14.6mm wall thickness 160mm

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt



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Max Aperture 730mm Wide x 1200mm High (Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Supporting construction Pyrocoustic Sealant Stopseal Batt PipeBloc PCP Penetration Service PipeBloc PCP Ref Classification Service(s) PE Pipe 32mm Ø, 2.9mm wall thickness 32mm PE Pipe 40mm Ø, 2.9mm wall thickness 40mm PE Pipe 50mm Ø, 2.9mm wall thickness 50mm PE Pipe 55mm Ø, 2.9-4.4mm wall thickness 55mm PE Pipe 63mm Ø, 2.9-4.4mm wall thickness 63mm PE Pipe 75mm Ø, 2.8-6.7mm wall thickness 75mm EI 120 U/C PE Pipe 82mm Ø, 2.8-6.7mm wall thickness 82mm PE Pipe 90mm Ø, 2.7-10mm wall thickness 90mm PE Pipe 100mm Ø, 2.7-10mm wall thickness 100mm PE Pipe 110mm Ø, 2.7-10mm wall thickness 110mm PE Pipe 125mm Ø, 3.1mm wall thickness 125mm 140mm PE Pipe 140mm Ø, 3.9-5.8mm wall thickness PE Pipe 160mm Ø, 4.9-9.5mm wall thickness 160mm

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

Collars secured both faces of the substrate utilsing 80mm long pig tail screw through to the Stopseal Fire Batt



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Max Aperture 2600mm Wide x 2600mm High
(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal)

- <u>Key</u>
 - 1. Supporting construction
 - 2. Pyrocoustic Sealant
 - 3. Stopseal Batt
 - 4. PipeBloc PCP
 - 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	. \ /. \ /.
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	EI 60 U/C
PE Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PE Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt

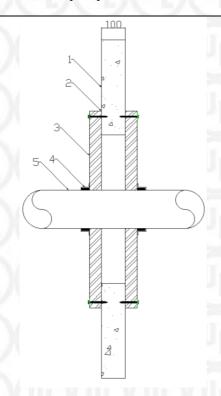


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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal)



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Scope and Classifications as below

Scope and Classifications as below		
Intumescent Thickness		
Pipe Diameter Intumescent Materia		
ø 32 mm - ø 50 mm	40 mm (W) x 2 mm (T)	
ø 51 mm - ø 82 mm	40 mm (W) x 4 mm (T)	
ø 83 mm - ø 115 mm	40 mm (W) x 6 mm (T)	
ø 116 mm - ø 160 mm	40 mm (W) x 8 mm (T)	
ø 161 mm - ø 200 mm	40 mm (W) x 10 mm (T)	
ø 201 mm - ø 250 mm	40 mm (W) x 12 mm (T)	

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

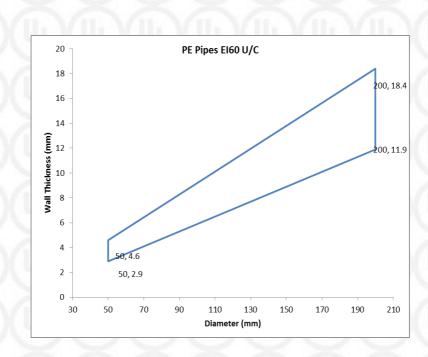
Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt

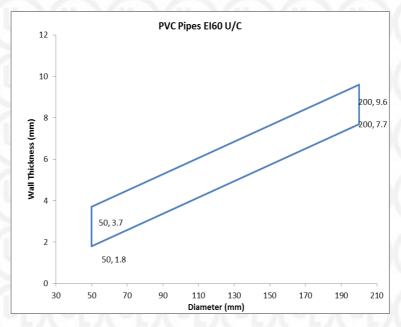


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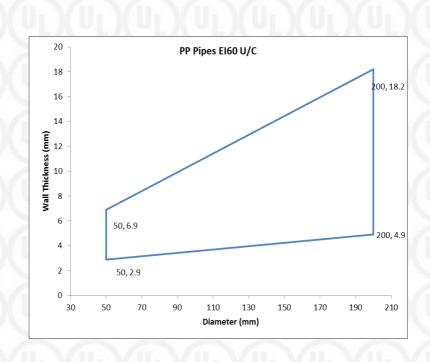




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Rigid Walls Minimum Thickness 150mm

Double Layer, Stopseal Fire Batt 50mm, Electrical Cables

Max Aperture 750mm Wide x 1100mm High	
A-L)	<u>Key</u>
150	1. Supporting construction
4 4	2. Pyrocoustic Sealant
	3. Stopseal Batt
1	4. Penetration Service
	\times \times \times \times
4.	n. Mac. Mar. Mar. Mar. M
2 4	니는 지도막다 가는 나는 기도 나는 기도 나는 기
9 ~	
Tomas de la companya della companya	
3-	Ur William Ur William Ur W
4-	\times \times \times \times
1	n. Mil. Mil. Mil. Mil. Mil. M
	네 저 바다 저 어느 때 어느 저 어느 게
	II. Y II. Y II. Y II. Y II. Y
	~!./\`*!./\`~!./\`~!./\`~!./\
	\times \times \times \times
4	~ ~ ~ ~ ~
	II. VALAVIII. VAII. VAII. V
	ピレス ヤレス ピレス ピレス ピレス
۵ .	
b	Ur Y Ur Y Ur Y Ur Y Ur Y
ハンシンン	
Service(s)	Classification
Electrical cables up to 0-21mm Ø	E120
	EI90
Cable Tray	EI 60



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Single Layer, Stopseal Fire Batt 50mm, Electrical Cables

Max Aperture 750mm Wide x 1100mm High	
150	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
3-4-5-5	
4	
A	
Service(s)	Classification
¹ Electrical cables up to 80mm Ø ¹ Cable Trays and Ladders	EI 60 EI 60
¹ 100 mm diameter bundle telecommunication cable type "F"	EI 60
¹ Unsheathed electrical cables up to 24mmØ	EI 60

¹Cables and cable trays wrapped with a single layer of 6mm thick FSi Thermal Defense Wrap (L/I 300mm)



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Max Aperture 750mm Wide x 1100mm F	ligh
	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Penetration Specification	Classification
*500mm perforated cable tray	EI 30
*Electrical cables up to 21mm ø	$\langle \times \times \times \rangle$
*1 off 'C1' Cable	EI 45
*1 off 'C2' Cable	
*1 off 'C3' Cable	J_)(U_)(U_)(U_)(U

^{*}All cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal



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Single Layer, Stopseal Fire Batt 50mm, Insulated Metallic Pipes

Max Aperture 750mm Wide x 1100mm I	High
	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
¹ Steel or Copper Pipe 108mm Ø, 1.5mm − 14.2mm Wall Thickness. (C/S) 40mm stone wool insulation (min 140Kg/m³)	E60 C/U EI45 C/U
Steel or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	EI45 C/U
Steel or Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	E45 C/U EI20 C/U
Steel or Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wall thickness. (C/I) 40mm stone wool insulation (min 40Kg/m³)	E45 C/U EI30 C/U



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Single Layer, Stopseal Fire Batt 50mm, Plastic Pipes

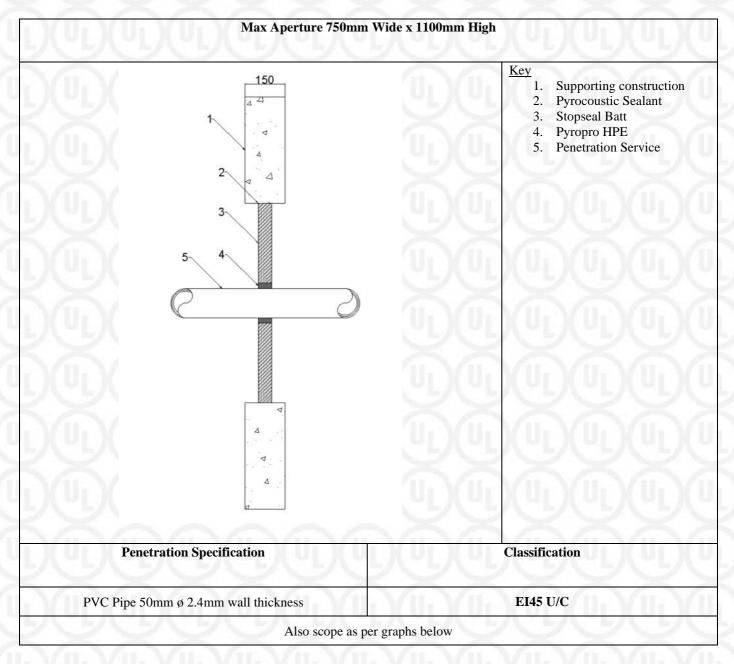
150,	Key
1 2	 Supporting construction Pyrocoustic Sealant Stopseal Batt Pyropro HPE Penetration Service
5 4	
Penetration Specification	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness	
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	E 45 U/C
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	EI 30 U/C
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness	[](UL)(UL)(UL)

Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



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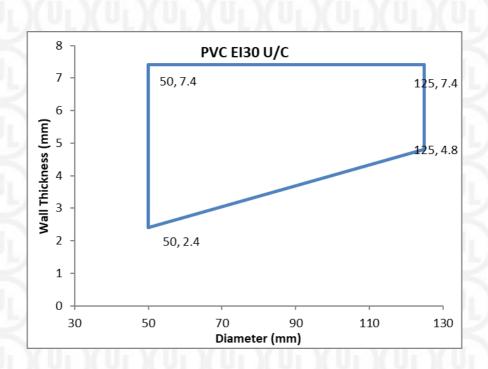


Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



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Double Layer, Stopseal Fire Batt 50mm, Electrical Cables

Max Aperture 730mm Wide x 1200mm High	
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
¹ Electrical cables up to 21mm dia	EI 120
¹ Electrical cables 22mm – 80mm dia	E 120
	EI 90
¹ Cable Trays and Ladders ¹ 100 mm diameter bundle telecommunication cable type "F"	EI 120 EI 120

¹Cables and cable trays wrapped with Stone Wool Insulation 45mm thick, 40Kg/m³ (L/I 200mm)



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Max Aperture 2600mm Wide x 2600mm High	
150 150 1 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
¹ Electrical cables up to 21mm dia ¹ Electrical cables 22mm – 80mm dia ¹ Cable Trays and Ladders ¹ 100 mm diameter bundle telecommunication cable type "F" ¹ Unsheathed electrical cables up to 24mm dia	EI 60

¹Cables and cable trays wrapped with Stone Wool Insulation 45mm thick, 40Kg/m³ (L/I 200mm)



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Max Aperture 750mm Wide x 1100m	nm High
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Pyropro HPE 5. PST Coating 6. Penetration Service
Penetration Specification	Classification
*500mm perforated cable tray	
*Electrical cables up to 21mm ø	EI120
*1 off 'C1' Cable	
*1 off 'C2' Cable	E120 EI90
*1 off 'C3' Cable	EI120

^{*}All cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



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Max Aperture 2600mm Wide x 2600m	m High
	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Pyropro HPE 5. PST Coating 6. Penetration Service
Penetration Specification	Classification
*500mm perforated cable tray	
*Electrical cables up to 21mm ø	EI 60
*1 off 'C1' Cable	
*1 off 'C2' Cable	
*1 off 'C3' Cable	

^{*}All cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



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Double Layer, Stopseal Fire Batt 50mm, Insulated Metallic Pipes

Max Aperture 730mm Wide x 1200mm High	
Service(s) 150 1	 Key Supporting construction Pyrocoustic Sealant Stopseal Batt Insulation Penetration Service
2	
Penetration Specification	Classification
Steel or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	E 120 C/U EI 60 C/U
Steel or Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	E 120 C/U EI 30 C/U



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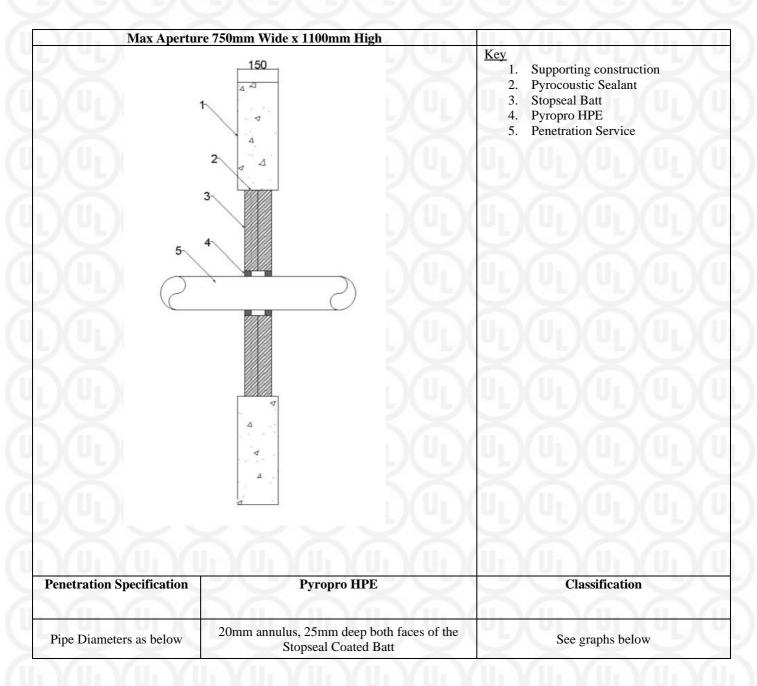
Service(s)	<u>Key</u>
Service(s) 150 4 2 4 4 4 4 4 4 4 4 4 4 4	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Penetration Specification	Classification
el or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall thickness. (L/I 300mm) 40mm	VANA A
stone wool insulation (min 40Kg/m ³)	EI 60 C/U
Steel or Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wall thickness. (L/I	E 60 C/U



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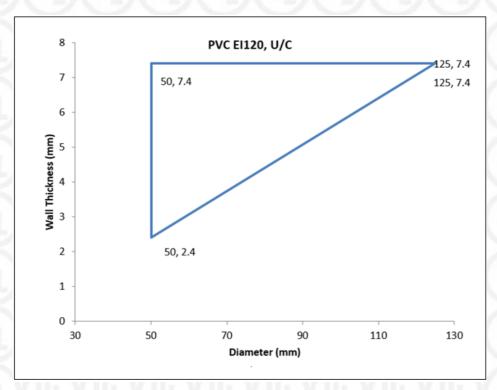
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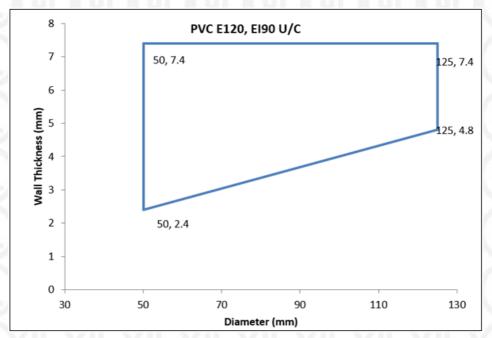




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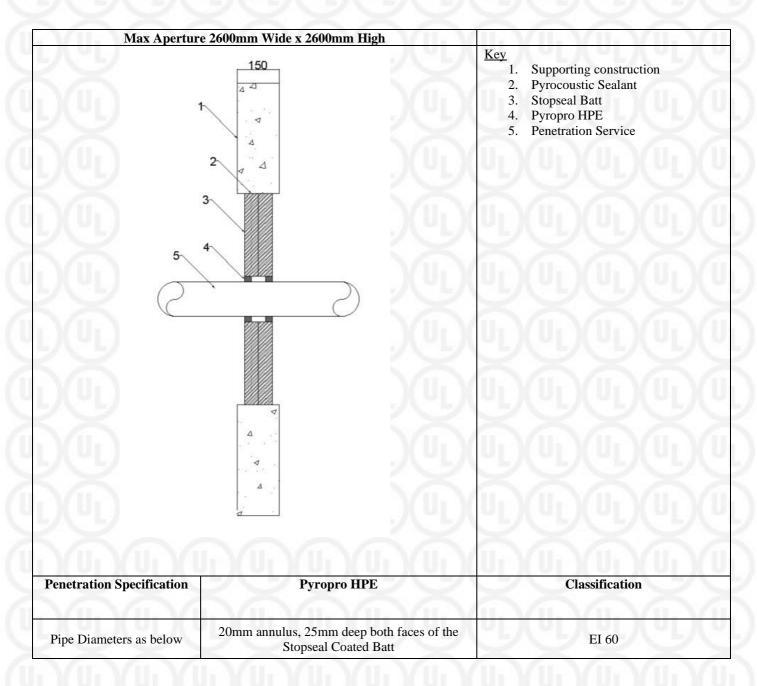




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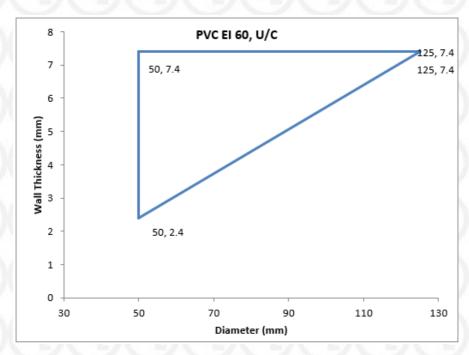
Date of Issue 2015-04-19

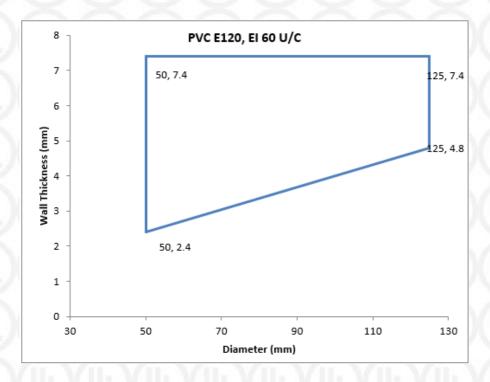




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Max Aperture 750mm Wide x 1100mm High	
150 2 4 3 5 4	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Pyropro HPE 5. Penetration Service
Penetration Specification	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	\(\alpha\)\(\alpha\)\(\alpha\)\(\alpha\)\(\alpha\)
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness	XXX
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	EI 120 U/C
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	
Unanar MI C (Multi Layer Composite) Dire 00 405 11411	(u l)(u l)(u l)
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness	

Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt

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Max Aperture 2600mm Wide x 2600mm H	igh
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Pyropro HPE 5. Penetration Service
Penetration Specification	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	P GRAPATA
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness	
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	EI 60 U/C
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	DI 00 C/C
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness	
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness	

Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt

(II)

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Flexible Walls Minimum Thickness 70mm

Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables

VII. Her		Supporting Construction
A V L D L A V	2.	Pyrocoustic Sealant
1 2	3.	Stopseal Batt
	4.	Service Penetration
3 2 0	L)(U	
	1	
	5/2	
	L)(U	
	$\leq \lambda_{ij}$	
rvice(s)	L/("	Classification

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed on all edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables and Conduits

- 16 H - 17 H	Vari	
70	<u>Key</u> 1.	Supporting
	٠.	Construction
MIP MIP 5 PM PM		
1 2	2.	Pyrocoustic Sealant
	3.	Stopseal Batt
	4.	Service Penetration
2		
4 3		
@mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm		
VII. VII. 5 1. VII. VII		
\(\alpha\rapprox \) \(\alp		
YII, YII,		
3(Un)(Un a vi a vi a vi a vi a Jn)(Un)(U		
Service(s)	~	Classification
VII. VII. VII. VII. VII. VII. VII. VII.		
20mm dia Adaptaflex SPL20 flexible conduit		ULXULX
20mm dia Kopex KSU 316 stainless steel flexible conduit		EI 90
50mm wide x 60mm deep steel cable tray containing 4 x FP200 Gold (Firealarm cable 7mm		

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed on all edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Flexible Walls Minimum Thickness 75mm

Single Layer Patress Stopseal Fire Batt 50mm, Electrical Cables

Service(s)	Classification

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Patress Stopseal Fire Batt 50mm, Electrical Cables and Conduits

WILLY III WILL WILL WILL WILL WILL WILL	VII. VIII. VIII. VIII. VI
75	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Penetration Service
ervice(s)	Classification
0mm dia Adaptaflex SPL20 flexible conduit	$\chi \cup_1 \chi \cup_1 \chi \cup_1 \chi \cup_1 \chi$
0mm dia Kopex KSU 316 stainless steel flexible conduit	
50mm wide x 60mm deep steel cable tray	EI 90
x FP200 Gold (Firealarm cable 7mm dia red) Cables	E 90 EI 60

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Flexible Walls Minimum Thickness 75mm

Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables and Cable Trunking

Max Aperture 70mm Wide x 70mm High	
75	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
50mm x 50mm Insulated steel cable trunking, Stone Wool 40mm thick, 45kg/m³ (LI 400mm). S-Line Pillow tightly fitted around the cables in the section of trunking within the depth of the partition.	EI 60 U/U
Cables 1xA1, 1xA2, 1xA3 Cables 1xA1 Cables 1xA2 Cables 1xA2	EI 60

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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Single Layer Pattress Stopseal Fire Batt 50mm, Electrical Cables and Cable Trunking

wiii wiii wiii wiii wiii wiii wiii wii	:Vii.Vii.V
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
150mm x 150mm Insulated steel cable trunking, Stone Wool 40mm thick, 45kg/m³ (LI 400mm). S-Line Pillow tightly fitted around the cables in the section of trunking within the depth of the partition.	EI 60 U/U
Cables 1xB1, 1xC1, 1xG1, 1xG2	
Cables 1xB1	EI 60
Cables 1xC1 Unsheathed electrical cables 0-24mm dia	- VIII- VIII- V

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres



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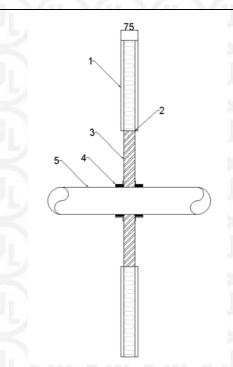
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Single Layer Stopseal Fire Batt 50mm, Plastic Pipes

Max Aperture 600mm Wide x 600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	(UL)(UL)
PVC Pipe 40mm Ø, 1.8mm wall thickness	40mm	
PVC Pipe 50mm Ø, 1.8mm wall thickness	50mm	
PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	55mm	
PVC Pipe 63mm Ø, 2.3-3mm wall thickness	63mm	
PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	75mm	
PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	82mm	EI 60 U/C
PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	90mm	
PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	100mm	
PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	110mm	
PVC Pipe 125mm Ø, 6mm wall thickness	125mm	
PVC Pipe 140mm Ø, 6.1-7.5mm wall thickness	140mm	

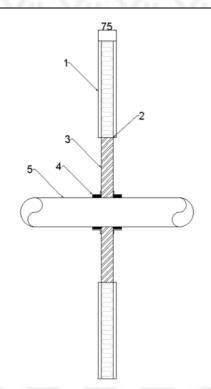


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Max Aperture 600mm Wide x 600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	EI 60 U/C
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	
PE Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PE Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	

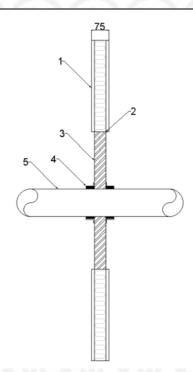


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Max Aperture 600mm Wide x 600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PP Pipe 32mm Ø, 2.9mm wall thickness	32mm	EI 60 U/C
PP Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PP Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PP Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PP Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PP Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PP Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	
PP Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PP Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PP Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PP Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PP Pipe 140mm Ø, 3.5-8mm wall thickness	140mm	
PP Pipe 160mm Ø, 4-14.6mm wall thickness	160mm	



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Flexible Walls Minimum Thickness 100mm

Double Layer Stopseal Fire Batt 50mm, Electrical Cables and Conduits

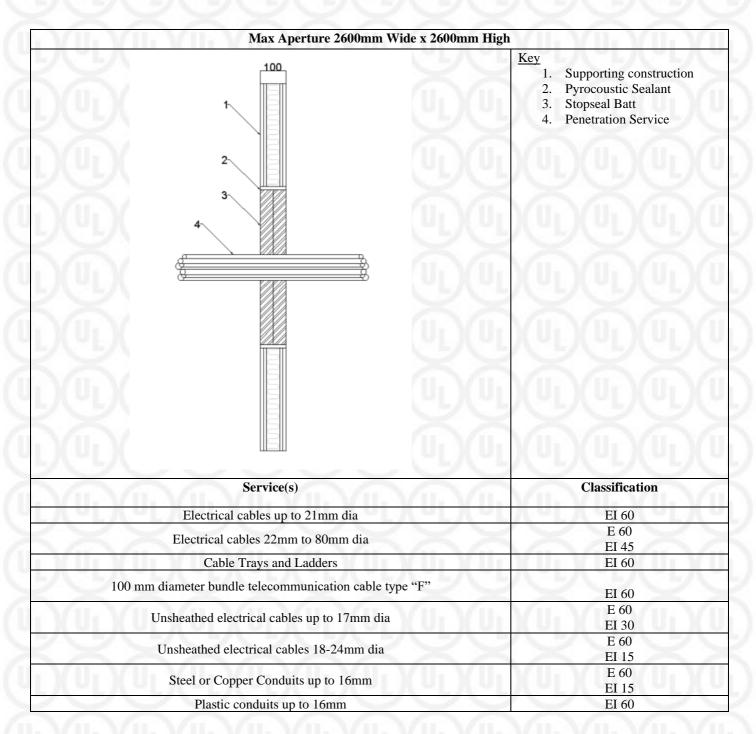
Max Aperture 2600mm Wide x 2600mm	n High
	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Penetration Service
Service(s)	Classification
Electrical cables 0mm to 21mm dia	EI 60
Electrical cables 22mm to 50mm dia	E 60 EI 45
Electrical cables 51mm to 80mm dia	E 60 EI 30
Cable Trays and Ladders	E 60 EI 45
100 mm diameter bundle telecommunication cable type "F"	ELCO
Unsheathed electrical cables 0-24mm dia	EI 60
Steel or Copper Conduits up to 16mm	E 60 C/U
Plastic conduits up to 16mm	EI 60 C/U



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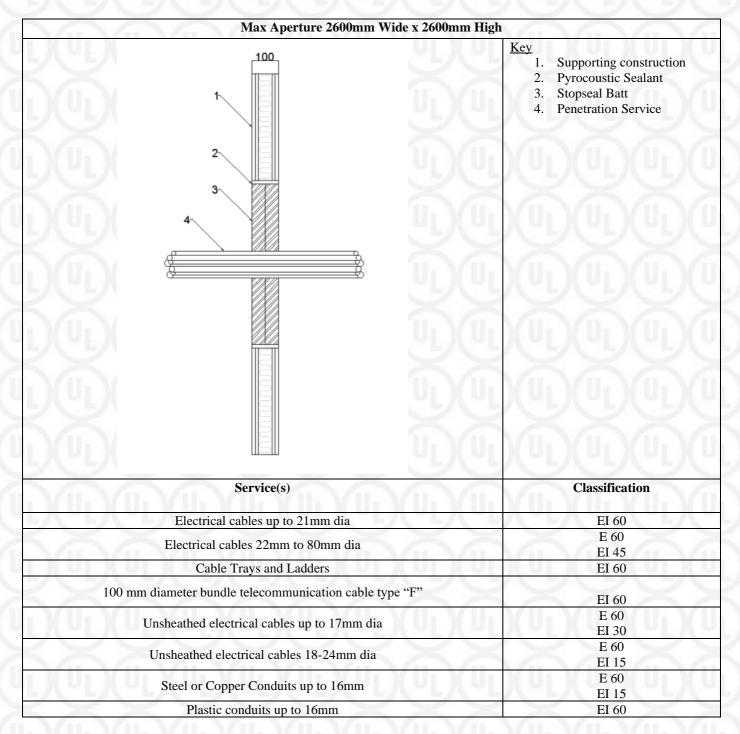




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Double Layer Stopseal Fire Batt 50mm, Insulated Metallic Pipes

100	Kev
1 2 3 4 5 5	 Supporting construction Pyrocoustic Sealant Stopseal Batt Insulation Pyropro HPE Penetration Service
Service(s)	Classification
¹ Single copper or mild steel pipe 40mm diameter and 1.5 – 14.2 mm wall with	E 90 U/C
ustained/continuous 20mm thick foil faced glass wool insulation (min 80Kg/m³)	EI 60 U/C
ingle copper or mild steel pipe 40-159mm diameter and 2.3 – 14.2 mm wall with	

¹15mm deep x 15mm wide annulus Pyropro HPE Sealant to both faces of the pipe



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Max Aperture 2600mm Wide x 2600mm Hig	<u>Key</u>
1- 100	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Pyropro HPE 5. Insulation 6. Penetration Service
Service(s)	Classification
¹ Single copper or mild steel pipe 40mm diameter and 1.5 – 14.2 mm wall with ustained/continuous 20mm thick foil faced glass wool insulation (min 80Kg/m³)	EI 60 U/C
single copper or mild steel pipe 40-159mm diameter and 2.3 – 14.2 mm wall with sustained/continuous 30mm thick foil faced glass wool insulation (min 80Kg/m³)	EI 60 U/C

¹15mm deep x 15mm wide annulus Pyropro HPE Sealant to both faces of the pipe



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Max Aperture 730mm Wide x 1200mm High	VII.VII.VII.VI
100	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 120 C/U EI 45 C/U
Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m^3 (C/S)	E 120 C/U EI 60 C/U

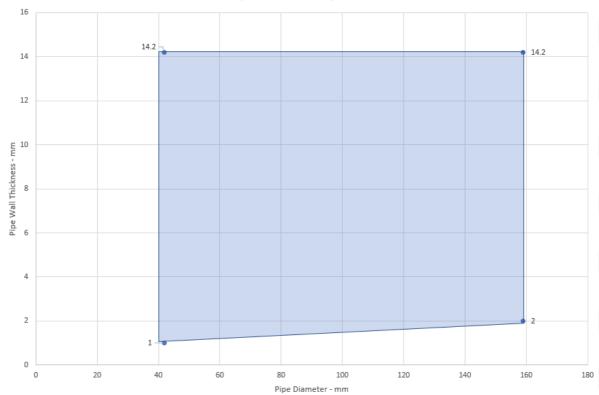


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Permitted Pipe Diameter vs Pipe Wall Thickness





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Max Aperture 2600mm Wide x 2600mm Hi	
100	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 60 C/U EI 45 C/U
Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 60 C/U EI 60 C/U

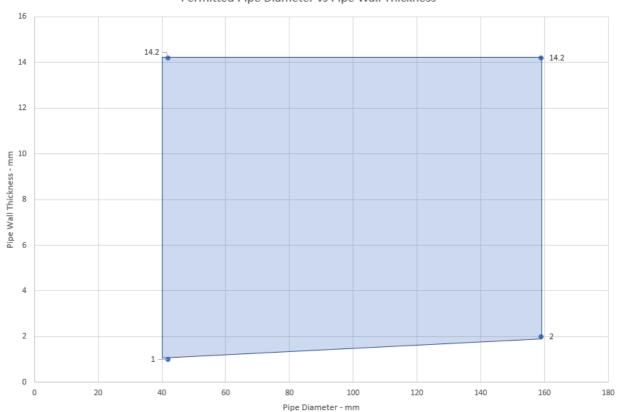


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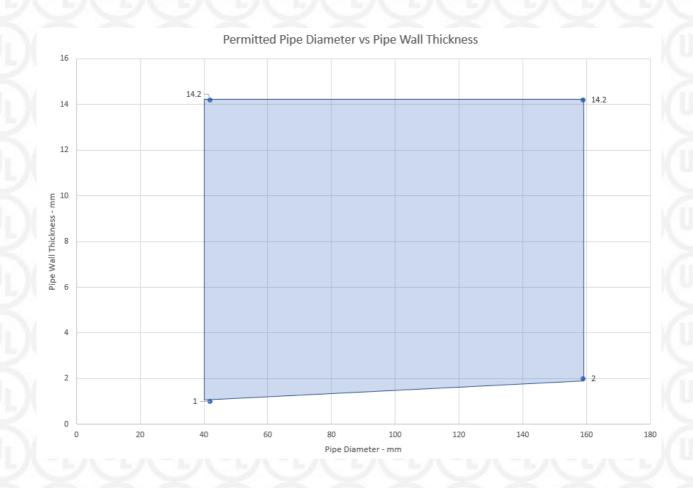
Max Aperture 730mm Wide x 1200mm I (Penetrations positioned as per option 1 or 2 below, 0mm distance between	C .
1- 100	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PST Coating 5. Penetration Service
4	
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness 40mm thick foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel 42-324mm Ø, 16mm wall thickness. 40mm thick foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel 42-324mm Ø, 16mm wall thickness. 40mm thick foil faced stonewool insulation min. 40kg/m³ (C/I)	EI 60 C/U
Steel or Copper Pipe 42mm Ø, 1.0mm – 14.2mm wall thickness FSi PST coating along the penetration 2mm DFT (L/I 300mm)	E 120 C/U EI 45 C/U
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness FSi PST coating along the penetration 2mm DFT (L/I 300mm)	E 120 C/U EI 20 C/U
Steel 42-324mm Ø, 16mm wall thickness. 14.2mm wall thickness FSi PST coating along the penetration 2mm DFT (L/I 300mm)	E 120 C/U EI 45 C/U



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Max Aperture 2600mm Wide x 2600mm Hig	
(Penetrations positioned as per option 1 or 2 below, 0mm distance between set	
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness 40mm thick	
foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel 42-324mm Ø, 16mm wall thickness. 40mm thick foil faced stonewool insulation min. 40kg/m³ (L/I 400mm)	EI 45 C/U
Steel 42-324mm Ø, 16mm wall thickness. 40mm thick foil faced stonewool insulation min. 40kg/m³ (C/I)	EI 60 C/U
Steel or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall thickness FSi PST coating	E 60 C/U
along the penetration 2mm DFT (L/I 300mm)	EI 45 C/U
Steel or Copper Pipe 42-159mm Ø, 1.0mm – 14.2mm wall thickness FSi PST	E 60 C/U
coating along the penetration 2mm DFT (L/I 300mm)	EI 20 C/U
Steel 42-324mm Ø, 16mm wall thickness. 14.2mm wall thickness FSi PST coating	E 60 C/U
along the penetration 2mm DFT (L/I 300mm)	EI 45 C/U

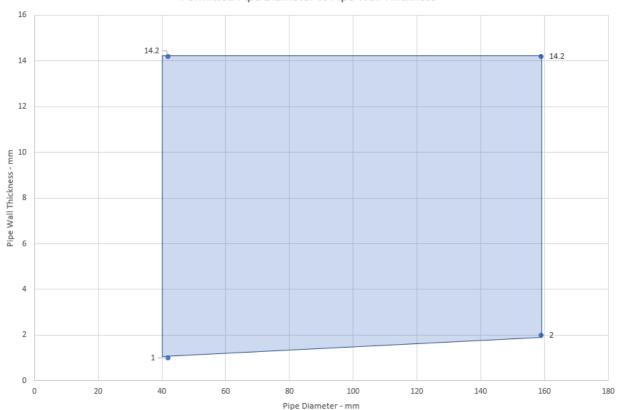


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Max Aperture 730mm Wide x 1200mm Hig	h
1- 100	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. PipeBloc EL / PipeBloc PWP 6. Penetration Service
Service(s)	Classification
¹ Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST ² Insulation (C/S)	E 120 C/U EI 60 C/U
¹Steel or Copper Pipe 42mm Ø, 1 − 14.2mm wall thickness. 25-13mm thick K Flex ST² insulation (C/S)	E 120 C/U EI 90 C/U
¹ Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM3 insulation (C/S)	E 120 C/U EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ³ insulation (C/S)	E 120 C/U EI 90 C/U
¹ Steel or Copper Pipe 42mm Ø, 1.0–14.2mm wall thickness. 50mm thick glassfibre insulation (C/S)	E 120 C/U EI 90 C/U

¹2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the Stopseal Fire Batt



²Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 2600mm Wide x 2600mm Hig	;h
1 100	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. PipeBloc EL / PipeBloc PWP 6. Penetration Service
Service(s)	Classification
¹ Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST ² Insulation (C/S)	EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1 − 14.2mm wall thickness. 25-13mm thick K Flex ST ² insulation (C/S)	EI 60 C/U
¹ Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ³ insulation (C/S)	EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ³ insulation (C/S)	EI 60 C/U
¹ Steel or Copper Pipe 42mm Ø, 1.2–14.2mm wall thickness. 50mm thick glassfibre insulation (C/S)	EI 60 C/U

 $^{^{1}}$ 2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the Stopseal Fire Batt

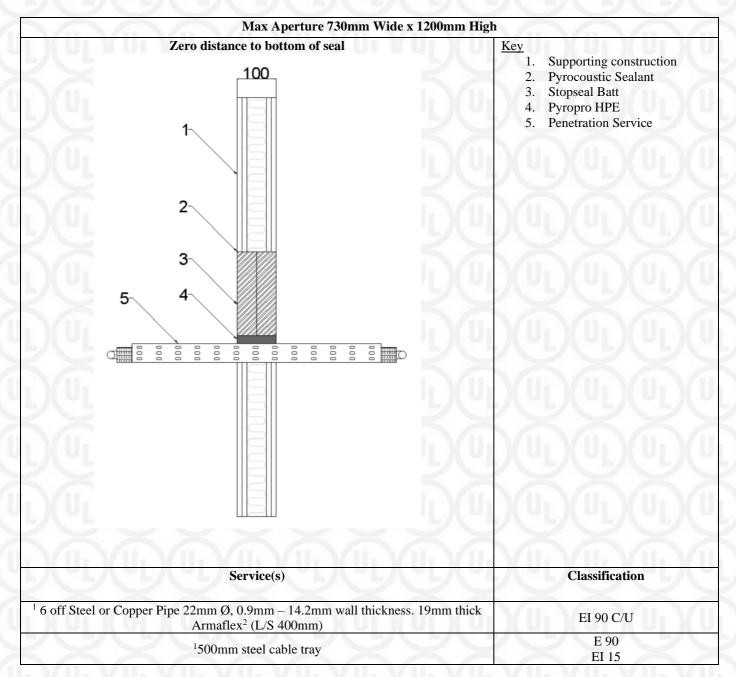
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²Or equivalent elastomeric pipe insulation classified BL − s2, d0 or better to EN 13501-1

³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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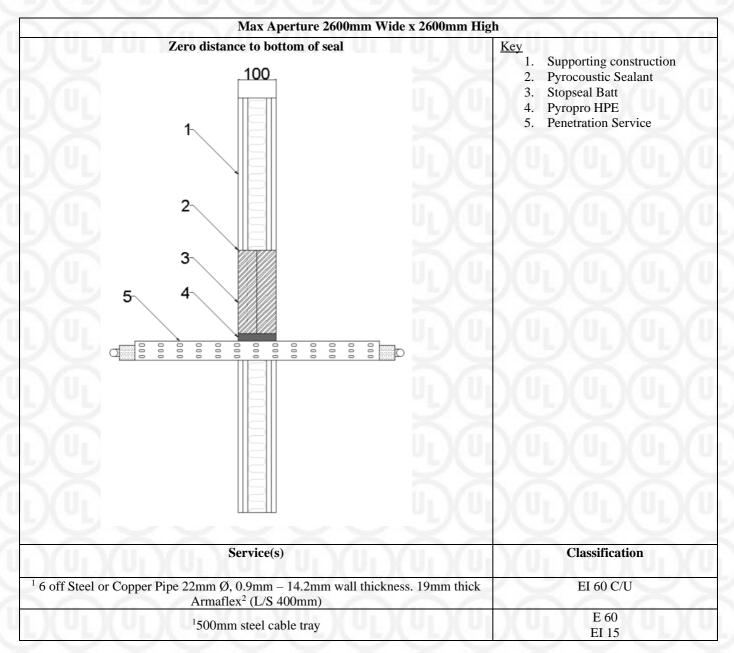
¹Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



²Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

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¹Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



²Or equivalent elastomeric pipe insulation classified BL − s2, d0 or better to EN 13501-1

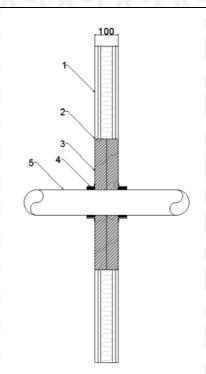
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Double Layer Stopseal Fire Batt 50mm, Plastic Pipes

Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	EI 120 U/C
PVC Pipe 40mm Ø, 1.8mm wall thickness	40mm	
PVC Pipe 50mm Ø, 1.8mm wall thickness	50mm	
PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	55mm	
PVC Pipe 63mm Ø, 2.3-3mm wall thickness	63mm	
PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	75mm	
PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	82mm	
PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	90mm	
PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	100mm	
PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	110mm	
PVC Pipe 125mm Ø, 6mm wall thickness	125mm	
PVC Pipe 140mm Ø, 6.1-7.5mm wall thickness	140mm	



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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt

100

Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	
PVC Pipe 40mm Ø, 1.8mm wall thickness	40mm	
PVC Pipe 50mm Ø, 1.8mm wall thickness	50mm	
PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	55mm	
PVC Pipe 63mm Ø, 2.3-3mm wall thickness	63mm	
PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	75mm	
PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	82mm	EI 60 U/C
PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	90mm	
PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	100mm	
PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	110mm	
PVC Pipe 125mm Ø, 6mm wall thickness	125mm	
PVC Pipe 140mm Ø, 6.1-7.5mm wall thickness	140mm	
PVC Pipe 160mm Ø, 6.2-9.5mm wall thickness	160mm	

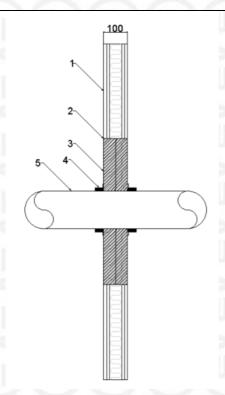


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Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PP Pipe 32mm Ø, 2.9mm wall thickness	32mm	EI 120 U/C
PP Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PP Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PP Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PP Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PP Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PP Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	
PP Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PP Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PP Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PP Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PP Pipe 140mm Ø, 3.5-8mm wall thickness	140mm	
PP Pipe 160mm Ø, 4-14.6mm wall thickness	160mm	



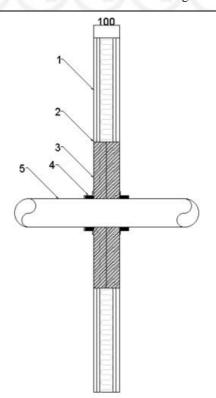
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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



<u>Key</u>

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PP Pipe 32mm Ø, 2.9mm wall thickness	32mm	EI 60 U/C
PP Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PP Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PP Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PP Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PP Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PP Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	
PP Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PP Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PP Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PP Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PP Pipe 140mm Ø, 3.5-8mm wall thickness	140mm	
PP Pipe 160mm Ø, 4-14.6mm wall thickness	160mm	

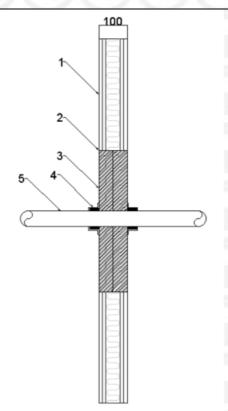


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Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	EI 120 U/C
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	
PE Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PE Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	

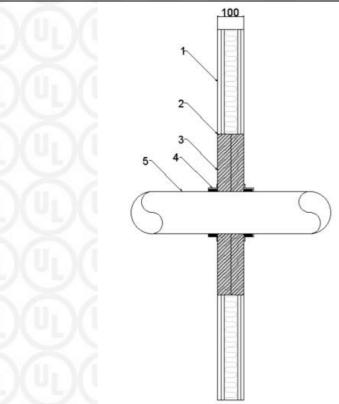


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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Collars secured both faces of the substrate utilising 80mm long steel pig tail screw through to Stopseal Fire Batt



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	EI 60 U/C
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	
PE Pipe 90mm Ø, 2.7-10mm wall thickness	90mm	
PE Pipe 100mm Ø, 2.7-10mm wall thickness	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	



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Double Layer Stopseal Fire Batt 50mm, Insulated Plastic Pipes

Max Aperture 730mm Wide x 1200mm High (Penetrations positioned as per option 1 or 2 below, 100mm distance between services and 50mm to edge of seal)

100

Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- . PipeBloc EL / PipeBloc PWP
- 5. Insulation
- 6. Penetration Service

Service(s)	PipeBloc EL / PipeBloc PWP Ref	Classification
PVC Pipe 40mm Ø, 1.9mm wall thickness. 25 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	3 x 2mm thickness	E 120 U/C
PVC Pipe 40mm Ø, 3mm wall thickness. 15 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	3 x 2mm thickness	EI 90 U/C
PVC Pipe 110mm Ø, 4.2mm wall thickness. 25 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	EI 120 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 20 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	E 120 U/C EI 90 U/C
PVC Pipe 40mm Ø, 1.9mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	EI 120 U/C
PVC Pipe 40mm Ø, 3mm wall thickness. 9 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	
PVC Pipe 110mm Ø, 4.2mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	EI 120 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 13 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	EI 120 U/C

¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt

(II)

²Or equivalent elastomeric pipe insulation classified BL − s2, d0 or better to EN 13501-1

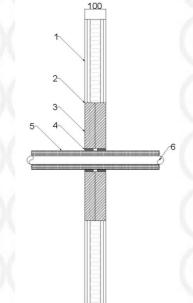
³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 100mm distance between services and 50mm to edge of seal)



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc EL / PipeBloc PWP
- 5. Insulation
- 6. Penetration Service

	\sim	
Service(s)	PipeBloc EL / PipeBloc PWP Ref	Classification
PVC Pipe 40mm Ø, 1.9mm wall thickness. 25 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	3 x 2mm thickness	11-2/11-2/11
PVC Pipe 40mm Ø, 3mm wall thickness. 15 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	3 x 2mm thickness	EI 60 U/C
PVC Pipe 110mm Ø, 4.2mm wall thickness. 25 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	EI 60 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 20 mm thick Kingspan Kooltherm FM ³ insulation (C/S)	5 x 2mm thickness	EI 60 U/C
PVC Pipe 40mm Ø, 1.9mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	EI 60 U/C
PVC Pipe 40mm Ø, 3mm wall thickness. 9 mm thick Armacell Armaflex Class O ² (C/S)	3 x 2mm thickness	EI 60 0/C
PVC Pipe 110mm Ø, 4.2mm wall thickness. 32 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	EI 60 U/C
PVC Pipe 110mm Ø, 6.6mm wall thickness. 13 mm thick Armacell Armaflex Class O ² (C/S)	5 x 2mm thickness	EI 60 U/C

¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt

(UL)

²Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Single Layer Patress, Stopseal Fire Batt 50mm, Electrical Cables and Conduits

Max Aperture 730mm Wide x 1200mn	n High
100	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
² Electrical cables up to 80mm Ø	
² Cable Trays and Ladders	"Մլ)(Մլ)(Մլ)(Մլ)(Մլ)(Մ
² 100 mm diameter bundle telecommunication cable type "F"	XXXXX
² Unsheathed electrical cables up to 24mm Ø	EI 120
² Steel or Copper Conduits up to 16mm Ø	
² Plastic conduits up to 16mm Ø	'U_)('U_)('U_)('U_)('U_

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres

²Cables and cable trays wrapped with a single layer of 40mm thick, 40kg/m³ Stonewool (L/I 300mm)



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Max Aperture 2600mm Wide x 2600mm	m High
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
² Electrical cables upto 80mm Ø	
² Cable Trays and Ladders	("")("")("")("")("")
² 100 mm diameter bundle telecommunication cable type "F"	\times
² Unsheathed electrical cables up to 24mm Ø	EI 60
² Steel or Copper Conduits up to 16mm Ø	
Steel of Copper Conduits up to Tollini Ø	

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres

²Cables and cable trays wrapped with a single layer of 40mm thick, 40kg/m³ Stonewool (L/I 300mm)



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Single Layer Patress, Stopseal Fire Batt 50mm, Insulated Metallic Pipes

Max Aperture 730mm Wide x 1200mm High	
	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PipeBloc EL / PipeBloc PWP 5. Insulation 6. Penetration Service
Service(s)	Classification
² Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST ³ Insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1.2 – 14.2mm wall thickness. 13-25mm thick K Flex ST ³ insulation (C/S)	E 120 C/U EI 60 C/U E 120 C/U EI 90 C/U
² Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ⁴ insulation (C/S)	E 120 C/U EI 60 C/U
² Steel or Copper Pipe 42mm Ø, 1.2–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ⁴ insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1.2–14.2mm wall thickness. 50mm thick glassfibre	E 120 C/U EI 90 C/U E 120 C/U
	F 120 C/L

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

(II)

 $^{^2}$ 2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation

³Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

⁴Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 2600mm Wide x 2600mm High		
	1. 2. 3. 4. 5. 6.	Stopseal Batt
Service(s)	Ź	Classification
² Steel or Copper Pipe 42-159mm Ø, 1.2mm – 14.2mm wall thickness. 13-25mm thick K Flex ST ³ Insulation (C/S))(U ₁)(UL)(UL)(
² Steel or Copper Pipe 42-159mm Ø, 1.2 – 14.2mm wall thickness. 25mm thick K Flex ST ³ insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1 – 14.2mm wall thickness. 25-13mm thick K Flex ST ³ insulation (C/S) ² Steel or Copper Pipe 42-108mm Ø, 1.2 – 14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ⁴ insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1–14.2mm wall thickness. 25 -40mm thick Kingspan Kooltherm FM ⁴ insulation (C/S) ² Steel or Copper Pipe 42mm Ø, 1.2–14.2mm wall thickness. 50mm thick glassfibre		EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

(II)

²2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation

³Or equivalent elastomeric pipe insulation classified BL – s2, d0 or better to EN 13501-1

⁴Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

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Max Aperture 730mm Wide x 1200mm High	
100 1 100 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 2mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 120 C/U EI 45 C/U
Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 120 C/U EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.



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Max Aperture 2600mm Wide x 2600mm High	
3	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. Insulation 5. Penetration Service
Service(s)	Classification
Steel or Copper Pipe 42-159mm Ø, 2mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 60 C/U EI 45 C/U
Steel or Copper Pipe 42mm Ø, 1mm – 14.2mm wall thickness. 25mm thick foil faced glassfibre insulation min. 30kg/m³ (C/S)	E 60 C/U EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.



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Max Aperture 730mm Wide x 1200n	mm High
30mm overlap patress installed flush to soffit	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PipeBloc EL / PipeBloc PWI 5. Insulation 6. Penetration Service
Service(s)	Classification
Steel or Copper Pipe 42mm Ø, 1.0mm – 14.2mm wall thickness. 50mm th Kingspan ³ (C/S 400mm)	iick EI 60 C/U

 1 Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 30mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres. No fixing is applied to the head flush to the soffit 2 2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation 3 Or equivalent Phenloic foam pipe insulation classified BL - s1, d0 or better to EN 13501-1



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30mm overlap patress installed flush to soffit	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt
	4. PipeBloc EL / PipeBloc PWI 5. Insulation 6. Penetration Service
Service(s) Steel or Copper Pipe 42mm Ø, 1.0mm – 14.2mm wall thickness. 50mm thick	Classification EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 30mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres. No fixing is applied to the head flush to the soffit ²2 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation ³Or equivalent Phenloic foam pipe insulation classified BL – s1, d0 or better to EN 13501-1

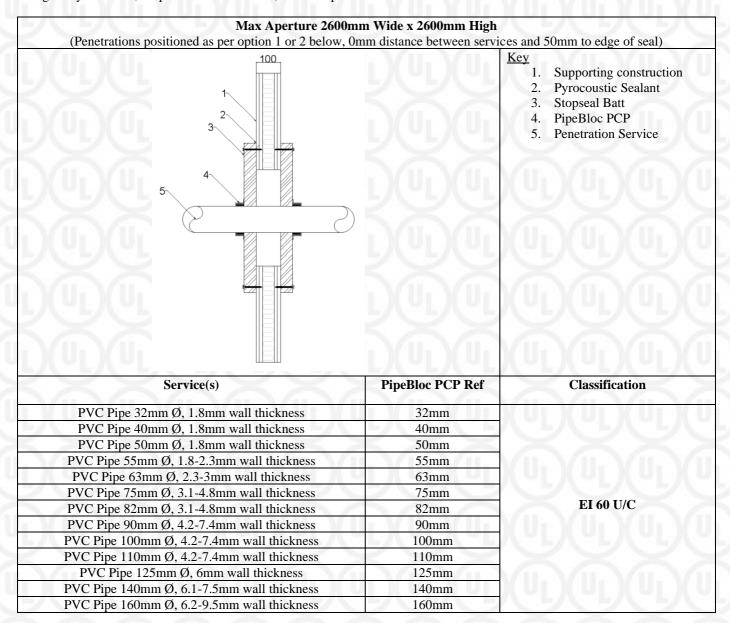


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Single Layer Patress, Stopseal Fire Batt 50mm, Plastic Pipes



Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges.

Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

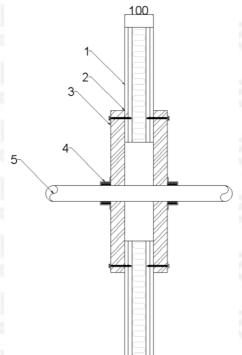


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Max Aperture 730mm Wide x 1200mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal)



- Key
 - 1. Supporting construction
 - Pyrocoustic Sealant
 - Stopseal Batt
 - PipeBloc PCP
 - Penetration Service

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Service(s)	PipeBloc PCP Ref	Classification
PVC Pipe 32mm Ø, 1.8mm wall thickness	32mm	n Yu Yu
PVC Pipe 40mm Ø, 1.8mm wall thickness	40mm	
PVC Pipe 50mm Ø, 1.8mm wall thickness	50mm	
PVC Pipe 55mm Ø, 1.8-2.3mm wall thickness	55mm	
PVC Pipe 63mm Ø, 2.3-3mm wall thickness	63mm	
PVC Pipe 75mm Ø, 3.1-4.8mm wall thickness	75mm	
PVC Pipe 82mm Ø, 3.1-4.8mm wall thickness	1-4.8mm wall thickness 82mm	EI 120 U/C
PVC Pipe 90mm Ø, 4.2-7.4mm wall thickness	90mm	
PVC Pipe 100mm Ø, 4.2-7.4mm wall thickness	100mm	
PVC Pipe 110mm Ø, 4.2-7.4mm wall thickness	110mm	
PVC Pipe 125mm Ø, 6mm wall thickness	125mm	
PVC Pipe 140mm Ø, 6.1-7.5mm wall thickness	140mm	
PVC Pine 160mm Ø. 6.2-9.5mm wall thickness	160mm	

Collars secured both faces of the substrate utilsing 80mm long pig tail screw through to the Stopseal Fire Batt ¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.



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Max Aperture 730mm Wide x 1200mm High (Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Key Supporting construction Pyrocoustic Sealant Stopseal Batt PipeBloc PCP Penetration Service PipeBloc PCP Ref Classification Service(s) PP Pipe 32mm Ø, 2.9mm wall thickness 32mm PP Pipe 40mm Ø, 2.9mm wall thickness 40mm PP Pipe 50mm Ø, 2.9mm wall thickness 50mm PP Pipe 55mm Ø, 2.9-4.4mm wall thickness 55mm PP Pipe 63mm Ø, 2.9-4.4mm wall thickness 63mm PP Pipe 75mm Ø, 2.8-6.7mm wall thickness 75mm EI 120 U/C PP Pipe 82mm Ø, 2.8-6.7mm wall thickness 82mm PP Pipe 90mm Ø, 2.7-10mm wall thickness 90mm PP Pipe 100mm Ø, 2.7-10mm wall thickness 100mm PP Pipe 110mm Ø, 2.7-10mm wall thickness 110mm PP Pipe 125mm Ø, 3.1mm wall thickness 125mm PP Pipe 140mm Ø, 3.5-8mm wall thickness 140mm PP Pipe 160mm Ø, 4-14.6mm wall thickness 160mm

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt ¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.



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Max Aperture 2600mm Wide x 2600mm High (Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Key Supporting construction **Pyrocoustic** Sealant Stopseal Batt **PipeBloc** PCP Penetration Service PipeBloc PCP Ref Classification Service(s) PP Pipe 32mm Ø, 2.9mm wall thickness 32mm PP Pipe 40mm Ø, 2.9mm wall thickness 40mm PP Pipe 50mm Ø, 2.9mm wall thickness 50mm PP Pipe 55mm Ø, 2.9-4.4mm wall thickness 55mm PP Pipe 63mm Ø, 2.9-4.4mm wall thickness 63mm PP Pipe 75mm Ø, 2.8-6.7mm wall thickness 75mm EI 60 U/C PP Pipe 82mm Ø, 2.8-6.7mm wall thickness 82mm PP Pipe 90mm Ø, 2.7-10mm wall thickness 90mm PP Pipe 100mm Ø, 2.7-10mm wall thickness 100mm PP Pipe 110mm Ø, 2.7-10mm wall thickness 110mm PP Pipe 125mm Ø, 3.1mm wall thickness 125mm PP Pipe 140mm Ø, 3.5-8mm wall thickness 140mm PP Pipe 160mm Ø, 4-14.6mm wall thickness 160mm

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges.

Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.



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Max Aperture 730mm Wide x 1200mm High (Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal) Key Supporting construction Pyrocoustic Sealant Stopseal Batt PipeBloc PCP Penetration Service PipeBloc PCP Ref Classification Service(s) PE Pipe 32mm Ø, 2.9mm wall thickness 32mm PE Pipe 40mm Ø, 2.9mm wall thickness 40mm PE Pipe 50mm Ø, 2.9mm wall thickness 50mm PE Pipe 55mm Ø, 2.9-4.4mm wall thickness 55mm PE Pipe 63mm Ø, 2.9-4.4mm wall thickness 63mm PE Pipe 75mm Ø, 2.8-6.7mm wall thickness 75mm EI 120 U/C PE Pipe 82mm Ø, 2.8-6.7mm wall thickness 82mm PE Pipe 90mm Ø, 2.7-10mm wall thickness 90mm PE Pipe 100mm Ø, 2.7-10mm wall thickness 100mm PE Pipe 110mm Ø, 2.7-10mm wall thickness 110mm PE Pipe 125mm Ø, 3.1mm wall thickness 125mm 140mm PE Pipe 140mm Ø, 3.9-5.8mm wall thickness 160mm PE Pipe 160mm Ø, 4.9-9.5mm wall thickness

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges.

Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.

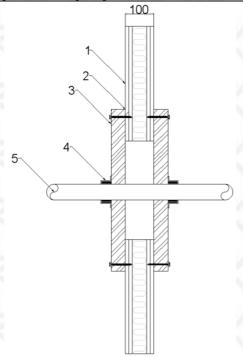


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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal)



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Service(s)	PipeBloc PCP Ref	Classification
PE Pipe 32mm Ø, 2.9mm wall thickness	32mm	$U_L)(U_L)(U_I)$
PE Pipe 40mm Ø, 2.9mm wall thickness	40mm	
PE Pipe 50mm Ø, 2.9mm wall thickness	50mm	
PE Pipe 55mm Ø, 2.9-4.4mm wall thickness	55mm	
PE Pipe 63mm Ø, 2.9-4.4mm wall thickness	63mm	
PE Pipe 75mm Ø, 2.8-6.7mm wall thickness	75mm	
PE Pipe 82mm Ø, 2.8-6.7mm wall thickness	82mm	EI 60 U/C
PE Pipe 90mm Ø, 2.7-10mm wall thickness PE Pipe 100mm Ø, 2.7-10mm wall thickness	90mm	
	100mm	
PE Pipe 110mm Ø, 2.7-10mm wall thickness	110mm	
PE Pipe 125mm Ø, 3.1mm wall thickness	125mm	
PE Pipe 140mm Ø, 3.9-5.8mm wall thickness	140mm	
PE Pipe 160mm Ø, 4.9-9.5mm wall thickness	160mm	

Collars secured both faces of the substrate utilising 80mm long pig tail screw through to the Stopseal Fire Batt

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges.

Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel
retaining washer. Fixings installed at max 300mm centres.

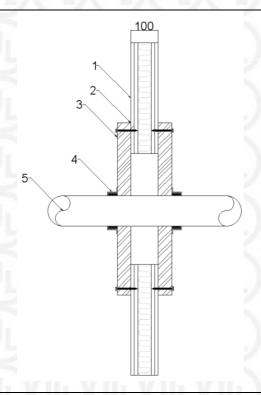


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Max Aperture 2600mm Wide x 2600mm High

(Penetrations positioned as per option 1 or 2 below, 0mm distance between services and 50mm to edge of seal)



Key

- 1. Supporting construction
- 2. Pyrocoustic Sealant
- 3. Stopseal Batt
- 4. PipeBloc PCP
- 5. Penetration Service

Scope and Classifications as below

Intumescent Thickness		
Pipe Diameter	Intumescent Material	
ø 32 mm - ø 50 mm	40 mm (W) x 2 mm (T)	
ø 51 mm - ø 82 mm	40 mm (W) x 4 mm (T)	
ø 83 mm - ø 115 mm	40 mm (W) x 6 mm (T)	
ø 116 mm - ø 160 mm	40 mm (W) x 8 mm (T)	
ø 161 mm - ø 200 mm	40 mm (W) x 10 mm (T)	
ø 201 mm - ø 250 mm	40 mm (W) x 12 mm (T)	

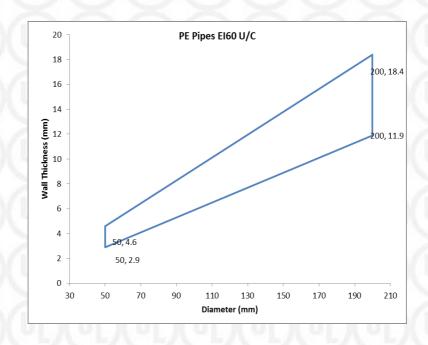
Wrap secured internally within both faces of the Stopseal Fire Batt

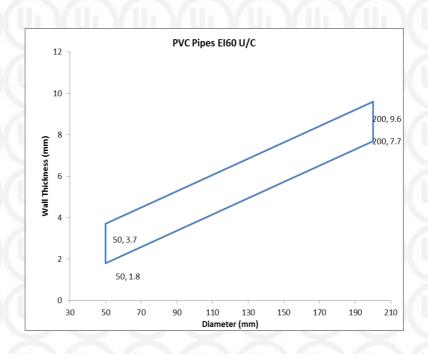
¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 100mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres.



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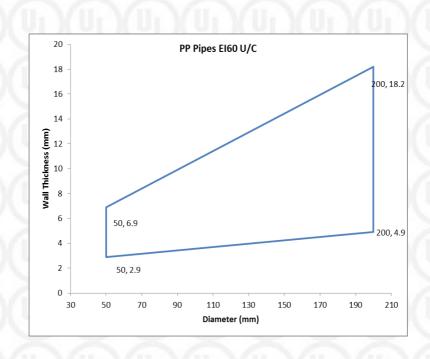






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Max Aperture 2600mm Wide x 2600mm High	
Max Aperture 2600mm Wide x 2 30mm overlap patress installed flush to soffit	1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PipeBloc EL / PipeBloc PWP 5. Penetration Service
Service(s)	Classification
PVC Pipe 110mm Ø, 4.2mm wall thickness	EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 30mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres. No fixing is applied to the head flush to the soffit ²4 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation



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Max Aperture 2600mm Wide x 2600mm High	
30mm overlap patress installed flush to soffit	Key 1. Supporting construction 2. Pyrocoustic Sealant 3. Stopseal Batt 4. PipeBloc EL / PipeBloc PWP 5. Penetration Service
Service(s)	Classification
PVC Pipe 110mm Ø, 4.2mm wall thickness	EI 60 C/U

¹Patress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows and fixed in minimum two vertical edges. Overlap of batts to substrate min 30mm. Batts mechanically fixed to substrate with min 6mm x 80mm steel screws and steel retaining washer. Fixings installed at max 300mm centres. No fixing is applied to the head flush to the soffit ²4 x 2mm thick layers of PipeBloc EL / PipeBloc PWP installed both sides of the substrate within the patress installation



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Rigid Floors Minimum Thickness 150mm

Double Layer, Stopseal Fire Batt 50mm, Electrical Cables

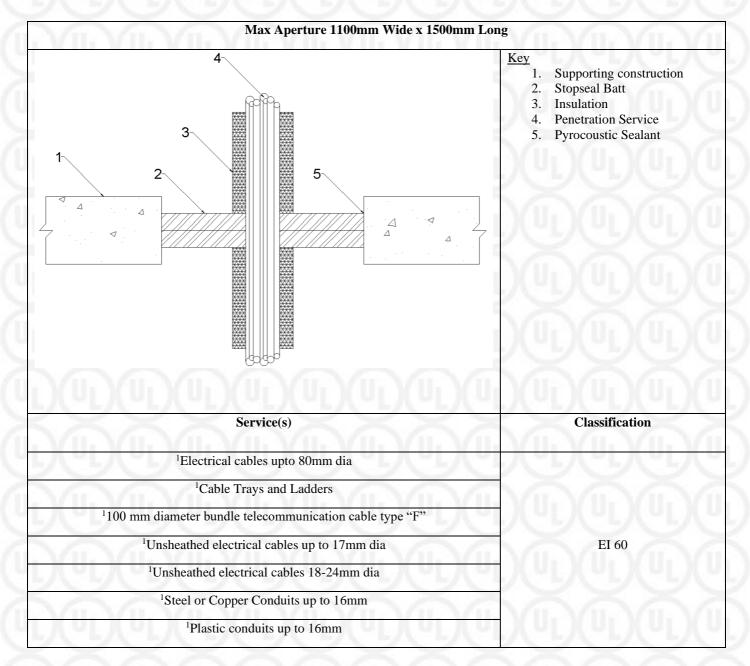
Max Aperture 1100mm Wide x 1500mm Lo	ong
	1. Supporting construction 2. Stopseal Batt 3. Pyropro HPE 4. PST Coating 5. Penetration Service 6. Pyrocoustic Sealant
Penetration Specification	Classification
*500mm perforated cable tray	
*Electrical cables up to 21mm ø	
*1 off 'C1' Cable	EI 60
*1 off 'C2' Cable	
*1 off 'C3' Cable	

^{*}All cables coated with 2mm DFT PST Coating 300mm along the cables upper side of the seal Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



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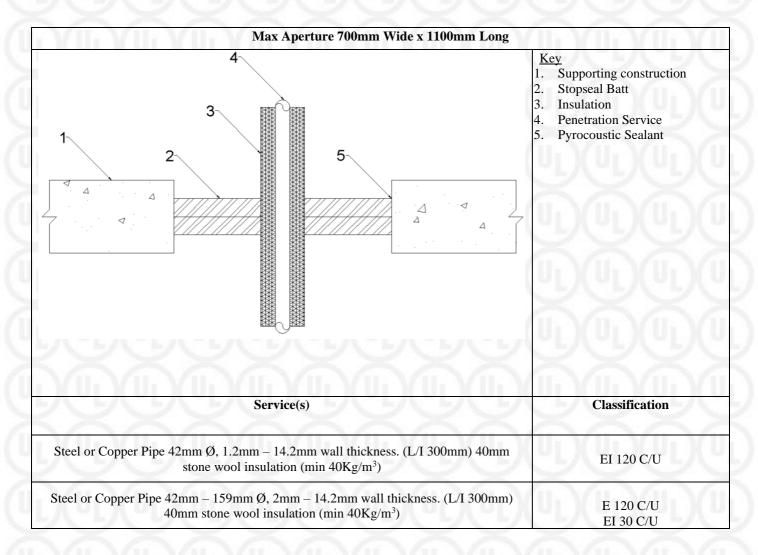
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¹Cables and cable trays wrapped with a single layer of 40mm thick stonewool, min 40kg/m³ (L/I 300mm)

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Double Layer, Stopseal Fire Batt 50mm, Insulated Metallic Pipes

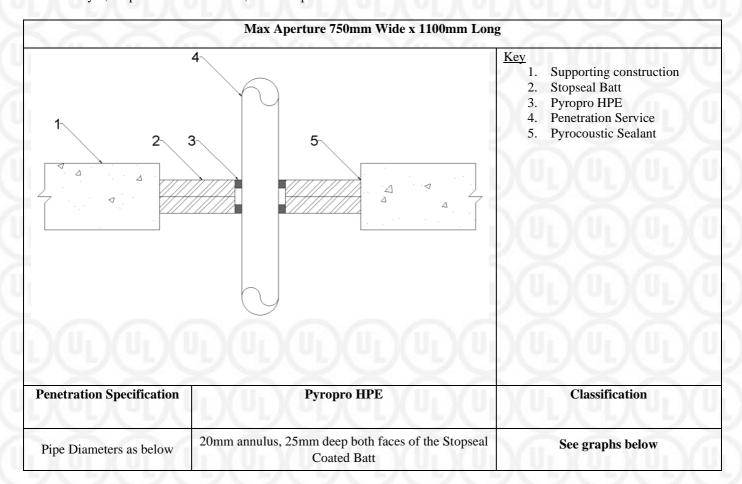
Max Aperture 1100mm Wide x 1500mm Long	
	Key 1. Supporting construction 2. Stopseal Batt 3. Insulation 4. Penetration Service 5. Pyrocoustic Sealant
Service(s)	Classification
Steel or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	E 90 C/U EI 60 C/U
Steel or Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	E 90 C/U EI 30 C/U



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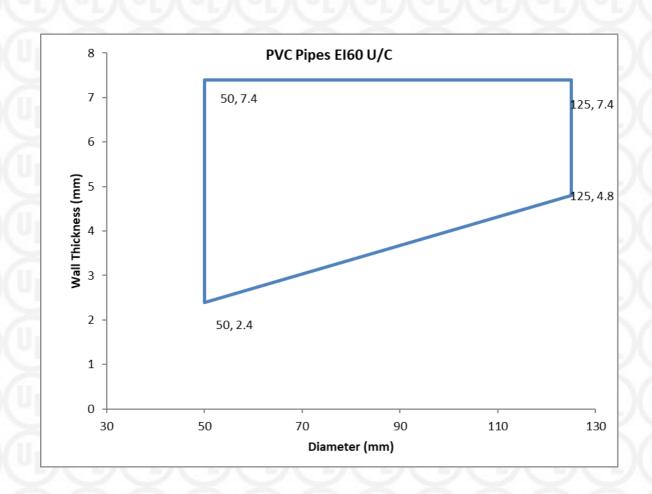
Double Layer, Stopseal Fire Batt 50mm, Plastic Pipes





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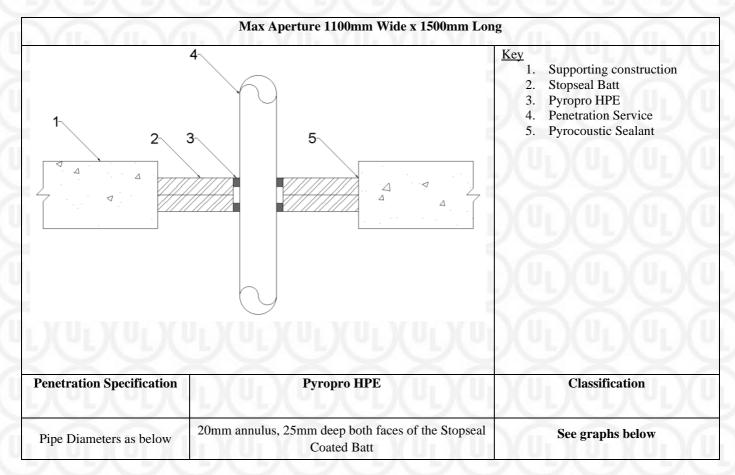
Max Aperture 750mm Wide x 1100mm Lon	ng
	Key 1. Supporting construction 2. Stopseal Batt 3. Pyropro HPE 4. Penetration Service 5. Pyrocoustic Sealant
Penetration Specification	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness	
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	EI 60 U/C
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness	
representation of the contraction of the contractio	

Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt

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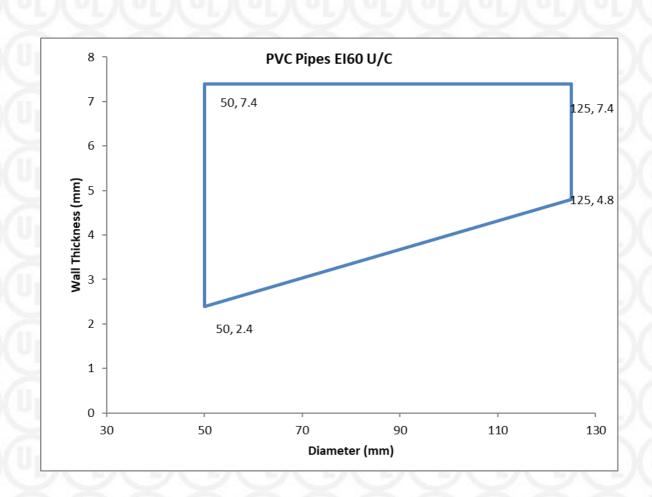
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	Key 1. Supporting construction 2. Stopseal Batt 3. Pyropro HPE 4. Penetration Service 5. Pyrocoustic Sealant
Penetration Specification	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness	$(U_L)(U_L)(U_L)$
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness	XXX
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	EI 60 U/C
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	$\langle \times \times \times \rangle$
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness	[](U[)(U[)(U[)
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness	$\times \times \times$

Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



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Max Aperture 350mm Wide x 1000mm Long Key 1. Supporting construction Stopseal Batt PipeBloc EL / PipeBloc PWP Penetration Service Pyrocoustic Sealant PipeBloc EL / PipeBloc Classification Service(s) **PWP Ref** PVC Pipe up to 125mm Ø, 4.8-7.4mm wall thickness. 2mm thickness PP Pipe up to 40mm Ø, 3.1-17.1mm wall thickness. 2mm thickness EI 120 U/C PE Pipe up to 125mm Ø, 11.4mm wall thickness. 2mm thickness E 120 U/C 2mm thickness PE Pipe up to 125mm Ø, 3.1-11.4mm wall thickness.

27-CP-F0855 Issue: 3.1



EI 90 U/C

¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt

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Max Aperture 1100mm Wide x 1500mm Long Supporting construction Stopseal Batt PipeBloc EL / PipeBloc PWP Penetration Service Pyrocoustic Sealant PipeBloc EL / PipeBloc Classification Service(s) **PWP Ref** PVC Pipe up to 125mm Ø, 4.8-7.4mm wall thickness. 2mm thickness PP Pipe up to 40mm Ø, 3.1-17.1mm wall thickness. 2mm thickness EI 60 U/C PE Pipe up to 125mm Ø, 11.4mm wall thickness. 2mm thickness PE Pipe up to 125mm Ø, 3.1-11.4mm wall thickness. 2mm thickness

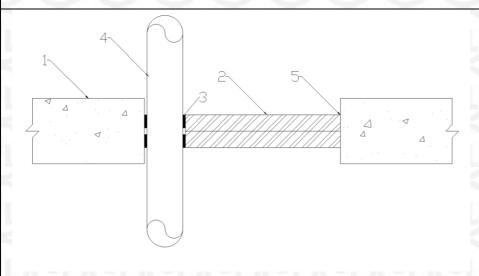
¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt



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Max Aperture 350mm Wide x 1000mm Long



<u>Key</u> 1.

- 1. Supporting construction
- 2. Stopseal Batt
- 3. PipeBloc EL / PipeBloc PWP
- 4. Penetration Service
- 5. Pyrocoustic Sealant

Service(s)	PipeBloc EL / PipeBloc PWP Ref	Classification
PVC Pipe up to 125mm Ø, 4.8-7.4mm wall thickness.	2mm thickness	
PP Pipe up to 40mm Ø, 3.1-17.1mm wall thickness.	2mm thickness	EI 120 U/C
PE Pipe up to 125mm Ø, 11.4mm wall thickness.	2mm thickness	
PE Pipe up to 125mm Ø, 3.1-11.4mm wall thickness.	2mm thickness	E 120 U/C EI 90 U/C

¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt



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Max Aperture 1100mm Wide x 1500mm Long 1. Supporting construction Stopseal Batt PipeBloc EL / PipeBloc PWP Penetration Service Pyrocoustic Sealant PipeBloc EL / PipeBloc Classification Service(s) **PWP Ref** PVC Pipe up to 125mm Ø, 4.8-7.4mm wall thickness. 2mm thickness PP Pipe up to 40mm Ø, 3.1-17.1mm wall thickness. 2mm thickness EI 60 U/C PE Pipe up to 125mm Ø, 11.4mm wall thickness. 2mm thickness PE Pipe up to 125mm Ø, 3.1-11.4mm wall thickness. 2mm thickness



¹PipeBloc EL / PipeBloc PWP secured internally within both faces of the Stopseal Fire Batt

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Max Aperture 350mm Wide x 1000mm Long Key Supporting construction 1. Penetration Service 2. Stopseal Batt Pyrocoustic Sealant PipeBloc PCP **Penetration Specification Pipe Bloc PCP Collars** Classification Pipe Diameters as below. Fixed to the underside of the Stopseal Coated Batt EI 120 U/C Zero Distance utilising steel pig tail fixings

Penetration Specification	Collar Reference	Intumescent Material	
PVC Pipe 32mm Ø 1.8mm wall thickness	32mm PipeBloc PCP	V. V. V. V.	
PVC Pipe 40mm Ø 1.8mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PVC Pipe 50mm Ø 1.8mm wall thickness	50mm PipeBloc PCP	クマッとうとうべ	
PVC Pipe 55mm Ø 2.3-2.8mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PVC Pipe 63mm Ø 2.3-2.8mm wall thickness	63mm PipeBloc PCP	arii. Mila Mila M	
PVC Pipe 75mm Ø 3.1-4.4mm wall thickness	75mm PipeBloc PCP	30mm (W) x 8mm (T)	
PVC Pipe 82mm Ø 3.1-4.4mm wall thickness	82mm PipeBloc PCP		
PVC Pipe 90mm Ø 4.2-6.6mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PVC Pipe 100mm Ø 4.2-6.6mm wall thickness	100mm PipeBloc PCP		
PVC Pipe 110mm Ø 4.2-6.6mm wall thickness	110mm PipeBloc PCP		
PVC Pipe 125mm Ø 6.0mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)	
PVC Pipe 140mm Ø 6.1-7.5mm wall thickness	140mm PipeBloc PCP	10 U 1 X U 1 X U 1 X	
PVC Pipe 160mm Ø 6.2-9.5mm wall thickness	160mm PipeBloc PCP		



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Penetration Specification	Collar Reference	Intumescent Material	
PP Pipe 32mm Ø 2.9mm wall thickness	32mm PipeBloc PCP		
PP Pipe 40mm Ø 2.9mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PP Pipe 50mm Ø 2.9mm wall thickness	50mm PipeBloc PCP	16 U i 16 U i 16 U i 16	
PP Pipe 55mm Ø 2.9-4.4mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PP Pipe 63mm Ø 2.9-4.4mm wall thickness	63mm PipeBloc PCP	\times	
PP Pipe 75mm Ø 2.8-6.7mm wall thickness 75mm PipeBloc PCP		30mm (W) x 8mm (T)	
PP Pipe 82mm Ø 2.8-6.7mm wall thickness	82mm PipeBloc PCP	- 八~ L 八~ L 八~ L 八	
PP Pipe 90mm Ø 2.7-10.0mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PP Pipe 100mm Ø 2.7-10.0mm wall thickness	100mm PipeBloc PCP	No No No No	
PP Pipe 110mm Ø 2.7-10.0mm wall thickness	110mm PipeBloc PCP	7(41)(41)(41)	
PP Pipe 125mm Ø 3.1mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)	
PP Pipe 140mm Ø 3.5-8.0mm wall thickness	140mm PipeBloc PCP		
PP Pipe 160mm Ø 4.0-14.6mm wall thickness	160mm PipeBloc PCP	· W U i · W U i · W U i · W	

Penetration Specification	Collar Reference	Intumescent Material	
PE Pipe 32mm Ø 2.9mm wall thickness	32mm PipeBloc PCP		
PE Pipe 40mm Ø 2.9mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PE Pipe 50mm Ø 2.9mm wall thickness	50mm PipeBloc PCP	VIII VIII VIII	
PE Pipe 55mm Ø 2.9-4.4mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PE Pipe 63mm Ø 2.9-4.4mm wall thickness	63mm PipeBloc PCP		
PE Pipe 75mm Ø 2.8-6.7mm wall thickness	75mm PipeBloc PCP	30mm (W) x 8mm (T)	
PE Pipe 82mm Ø 2.8-6.7mm wall thickness	82mm PipeBloc PCP	M O L M O L M O L	
PE Pipe 90mm Ø 2.7-10.0mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PE Pipe 100mm Ø 2.7-10.0mm wall thickness	100mm PipeBloc PCP		
PE Pipe 110mm Ø 2.7-10.0mm wall thickness	110mm PipeBloc PCP	NOU 1 W Un NOU 1	
PE Pipe 125mm Ø 3.1mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)	
PE Pipe 140mm Ø 3.9-5.8mm wall thickness	140mm PipeBloc PCP	\times	
PE Pipe 160mm Ø 4.9-9.5mm wall thickness	160mm PipeBloc PCP	- VII. VII. VII.	



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Double Layer, Stopseal Fire Batt 50mm, Patress Installed Electrical Cables

Max Aperture 1000mm Wide x 1300mm Lon	ng
	1. Supporting construction 2. Stopseal Batt 3. Pyropro HPE 4. PST Coating 5. Penetration Service 6. Pyrocoustic Sealant
Penetration Specification	Classification
*500mm perforated cable tray	Vu Vu Vu Vu
*Electrical cables up to 21mm ø	
*1 off 'C1' Cable	EI 60
*1 off 'C2' Cable	A TO THE TOTAL
*1 off 'C3' Cable	VII. VII. VII. VII

^{*}All cables coated with 2mm DFT PST Coating 300mm along the cables upper side of the seal Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt



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Max Aperture 1000mm Wide x 1300mm Lon	ng
	Key 1. Supporting construction 2. Stopseal Batt 3. Insulation 4. Penetration Service 5. Pyrocoustic Sealant
Service(s)	Classification
¹ Electrical cables upto 80mm dia)(ul)(ul)(ul)(u
¹ Cable Trays and Ladders	(XXX)
¹ 100 mm diameter bundle telecommunication cable type "F"	$(U_L)(U_L)(U_L)(U_L)(U_L)(U_L)(U_L)(U_L)$
¹ Unsheathed electrical cables up to 17mm dia	EI 60
¹ Unsheathed electrical cables 18-24mm dia	$(U_L)(U_L)(U_L)(U_L)(U_L)$
¹ Steel or Copper Conduits up to 16mm	
¹ Plastic conduits up to 16mm	Alex Mire Mire Mire Mir

¹Cables and cable trays wrapped with a single layer of 40mm thick stonewool, min 40kg/m³ (L/I 300mm)

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Double Layer, Stopseal Fire Batt 50mm, Pattress Installed Insulated Metallic Pipes

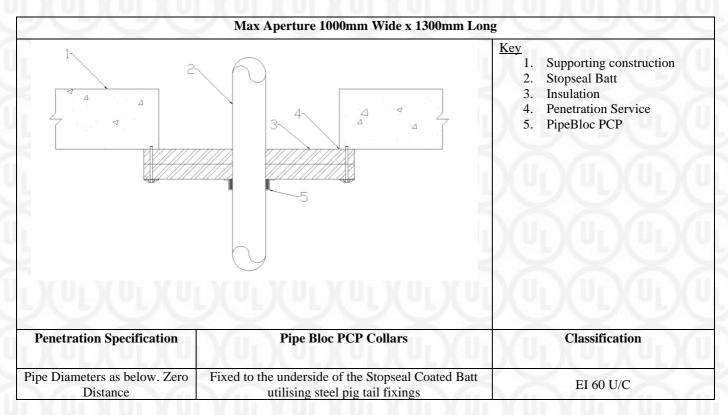
Max Aperture 1000mm Wide x 1300mm Lon	g
	1. Supporting construction 2. Stopseal Batt 3. Insulation 4. Penetration Service 5. Pyrocoustic Sealant
Service(s)	Classification
Steel or Copper Pipe 42mm Ø, 1.2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	EI 60 C/U
Steel or Copper Pipe 42mm – 159mm Ø, 2mm – 14.2mm wall thickness. (L/I 300mm) 40mm stone wool insulation (min 40Kg/m³)	E 60 C/U EI 30 C/U



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Double Layer, Stopseal Fire Batt 50mm, Pattress Installed Plastic Pipes



Penetration Specification	Collar Reference	Intumescent Material	
PVC Pipe 32mm Ø 1.8mm wall thickness	32mm PipeBloc PCP	A/n. V/n. V/n.	
PVC Pipe 40mm Ø 1.8mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PVC Pipe 50mm Ø 1.8mm wall thickness	50mm PipeBloc PCP		
PVC Pipe 55mm Ø 2.3-2.8mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PVC Pipe 63mm Ø 2.3-2.8mm wall thickness	63mm PipeBloc PCP	3(U :)(U :)(U :	
PVC Pipe 75mm Ø 3.1-4.4mm wall thickness	75mm PipeBloc PCP	30mm (W) x 8mm (T)	
PVC Pipe 82mm Ø 3.1-4.4mm wall thickness	82mm PipeBloc PCP		
PVC Pipe 90mm Ø 4.2-6.6mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PVC Pipe 100mm Ø 4.2-6.6mm wall thickness	100mm PipeBloc PCP	-/\L/\L/\L	
PVC Pipe 110mm Ø 4.2-6.6mm wall thickness	110mm PipeBloc PCP		
PVC Pipe 125mm Ø 6.0mm wall thickness 125mm PipeBloc PCP		40mm (W) x 12mm (T)	
PVC Pipe 140mm Ø 6.1-7.5mm wall thickness	140mm PipeBloc PCP	・ハソレハソレハソレ	
PVC Pipe 160mm Ø 6.2-9.5mm wall thickness	160mm PipeBloc PCP		



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Penetration Specification	Collar Reference	Intumescent Material	
PP Pipe 32mm Ø 2.9mm wall thickness	32mm PipeBloc PCP	\times	
PP Pipe 40mm Ø 2.9mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PP Pipe 50mm Ø 2.9mm wall thickness	50mm PipeBloc PCP	・ハソレハヤレハヤレハ	
PP Pipe 55mm Ø 2.9-4.4mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PP Pipe 63mm Ø 2.9-4.4mm wall thickness	63mm PipeBloc PCP		
PP Pipe 75mm Ø 2.8-6.7mm wall thickness	Ø 2.8-6.7mm wall thickness 75mm PipeBloc PCP		
PP Pipe 82mm Ø 2.8-6.7mm wall thickness	82mm PipeBloc PCP		
PP Pipe 90mm Ø 2.7-10.0mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PP Pipe 100mm Ø 2.7-10.0mm wall thickness	100mm PipeBloc PCP	ALIP ALIP ALIP A	
PP Pipe 110mm Ø 2.7-10.0mm wall thickness	110mm PipeBloc PCP		
PP Pipe 125mm Ø 3.1mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)	
PP Pipe 140mm Ø 3.5-8.0mm wall thickness	140mm PipeBloc PCP	VIII. VIII. VIII. V	
PP Pipe 160mm Ø 4.0-14.6mm wall thickness	160mm PipeBloc PCP	- ハーヒハ ピレハ ピレバ	

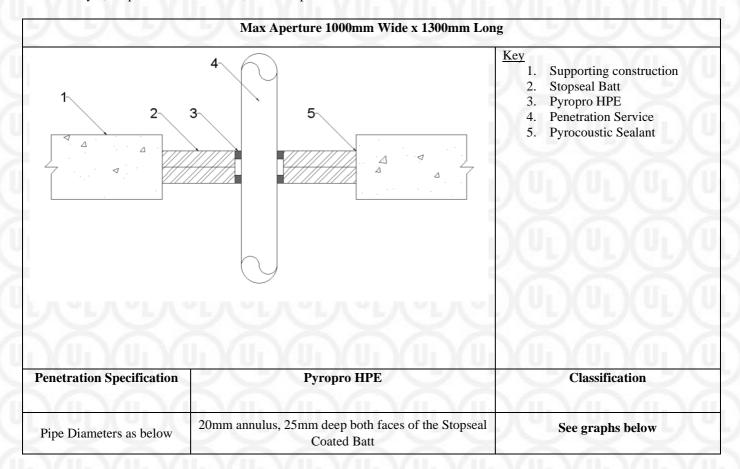
Penetration Specification	Collar Reference	Intumescent Material	
PE Pipe 32mm Ø 2.9mm wall thickness	32mm PipeBloc PCP		
PE Pipe 40mm Ø 2.9mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PE Pipe 50mm Ø 2.9mm wall thickness	50mm PipeBloc PCP	・ハーレハーレハーレ	
PE Pipe 55mm Ø 2.9-4.4mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PE Pipe 63mm Ø 2.9-4.4mm wall thickness	63mm PipeBloc PCP	Market Ma	
PE Pipe 75mm Ø 2.8-6.7mm wall thickness	75mm PipeBloc PCP	30mm (W) x 8mm (T)	
PE Pipe 82mm Ø 2.8-6.7mm wall thickness	82mm PipeBloc PCP		
PE Pipe 90mm Ø 2.7-10.0mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PE Pipe 100mm Ø 2.7-10.0mm wall thickness	100mm PipeBloc PCP	MU - MU - MU - M	
PE Pipe 110mm Ø 2.7-10.0mm wall thickness	110mm PipeBloc PCP	ツヘシにりにり	
PE Pipe 125mm Ø 3.1mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)	
PE Pipe 140mm Ø 3.9-5.8mm wall thickness	140mm PipeBloc PCP	VII. VII. VII. 1	
PE Pipe 160mm Ø 4.9-9.5mm wall thickness	160mm PipeBloc PCP	・ハートイストイスト	



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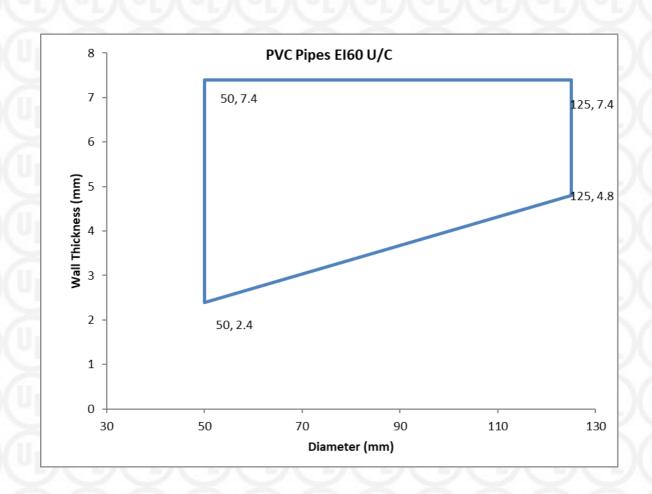
Double Layer, Stopseal Fire Batt 50mm, Plastic Pipes





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Max Aperture 1000mm Wide x 1300mm Long Key Supporting construction 1. Stopseal Batt 3. Pyropro HPE 4. Penetration Service 5 5. Pyrocoustic Sealant **Penetration Specification** Classification Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness EI 60 U/C Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness

Pyropro HPE 20mm annulus full 50mm depth of the Stopseal Coated Batt

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Penetration Specification	Collar Reference	Intumescent Material	
PVC Pipe 32mm Ø 1.8mm wall thickness	32mm PipeBloc PCP		
PVC Pipe 40mm Ø 1.8mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PVC Pipe 50mm Ø 1.8mm wall thickness	50mm PipeBloc PCP	TALENCE LANGE	
PVC Pipe 55mm Ø 2.3-2.8mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PVC Pipe 63mm Ø 2.3-2.8mm wall thickness	63mm PipeBloc PCP	North North North North	
PVC Pipe 75mm Ø 3.1-4.4mm wall thickness	-4.4mm wall thickness 75mm PipeBloc PCP		
PVC Pipe 82mm Ø 3.1-4.4mm wall thickness	82mm PipeBloc PCP		
PVC Pipe 90mm Ø 4.2-6.6mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PVC Pipe 100mm Ø 4.2-6.6mm wall thickness	100mm PipeBloc PCP	ar un X Un X Un X L	
PVC Pipe 110mm Ø 4.2-6.6mm wall thickness	110mm PipeBloc PCP	クトリトリトリト	
PVC Pipe 125mm Ø 6.0mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)	
PVC Pipe 140mm Ø 6.1-7.5mm wall thickness	140mm PipeBloc PCP	VIII. VIII. VIII. VI	
PVC Pipe 160mm Ø 6.2-9.5mm wall thickness	160mm PipeBloc PCP		



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Penetration Specification	Collar Reference	Intumescent Material	
PP Pipe 32mm Ø 2.9mm wall thickness	32mm PipeBloc PCP	VIII-VIII-VIII-V	
PP Pipe 40mm Ø 2.9mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)	
PP Pipe 50mm Ø 2.9mm wall thickness	50mm PipeBloc PCP		
PP Pipe 55mm Ø 2.9-4.4mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)	
PP Pipe 63mm Ø 2.9-4.4mm wall thickness	63mm PipeBloc PCP	X U1 X U1 X U1 X	
PP Pipe 75mm Ø 2.8-6.7mm wall thickness	75mm PipeBloc PCP	30mm (W) x 8mm (T)	
PP Pipe 82mm Ø 2.8-6.7mm wall thickness	82mm PipeBloc PCP		
PP Pipe 90mm Ø 2.7-10.0mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)	
PP Pipe 100mm Ø 2.7-10.0mm wall thickness	100mm PipeBloc PCP		
PP Pipe 110mm Ø 2.7-10.0mm wall thickness	110mm PipeBloc PCP		
PP Pipe 125mm Ø 3.1mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)	
PP Pipe 140mm Ø 3.5-8.0mm wall thickness	140mm PipeBloc PCP		
PP Pipe 160mm Ø 4.0-14.6mm wall thickness	160mm PipeBloc PCP		

Penetration Specification	Collar Reference	Intumescent Material
PE Pipe 32mm Ø 2.9mm wall thickness	32mm PipeBloc PCP	. VALVALVALVA
PE Pipe 40mm Ø 2.9mm wall thickness	40mm PipeBloc PCP	30mm (W) x 4mm (T)
PE Pipe 50mm Ø 2.9mm wall thickness	50mm PipeBloc PCP	
PE Pipe 55mm Ø 2.9-4.4mm wall thickness	55mm PipeBloc PCP	30mm (W) x 6mm (T)
PE Pipe 63mm Ø 2.9-4.4mm wall thickness	63mm PipeBloc PCP	
PE Pipe 75mm Ø 2.8-6.7mm wall thickness	75mm PipeBloc PCP	30mm (W) x 8mm (T)
PE Pipe 82mm Ø 2.8-6.7mm wall thickness	82mm PipeBloc PCP	- MI - MII - MII - MII
PE Pipe 90mm Ø 2.7-10.0mm wall thickness	90mm PipeBloc PCP	30mm (W) x 10mm (T)
PE Pipe 100mm Ø 2.7-10.0mm wall thickness	100mm PipeBloc PCP	$\times \times \times \times \times$
PE Pipe 110mm Ø 2.7-10.0mm wall thickness	110mm PipeBloc PCP	VII. VII. VII. VII
PE Pipe 125mm Ø 3.1mm wall thickness	125mm PipeBloc PCP	40mm (W) x 12mm (T)
PE Pipe 140mm Ø 3.9-5.8mm wall thickness	140mm PipeBloc PCP	
PE Pipe 160mm Ø 4.9-9.5mm wall thickness	160mm PipeBloc PCP	16 16 16 16



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Substrate	Minimum Substrate	Maximum Seal width Seal / Duct A Duct Specification (Duct must be classified in accordance with		Fire Re			
Substrate	Thickness (mm)	ckness Depth Duct B EN 13501-3/4 for the required period)	E	S			
Drywall/ Concrete/	100	100	200*	A	r)(nr)(nr)(nr)(n	60	120
Masonry wall	100	100	200**	В		120	1/1
Concrete floor 150 250	150	250	275**	A	EN 13501-3 - Uninsulated 1.0mm GMS steel, rectangular duct, maximum dimensions 1250 mm wide by 1000 mm high.	120	120
	230	273	В		120	火	
Drywall/ Concrete/ Masonry wall	100	100	400***	A	I_L (U_L) (U_L) (U_L)	60	120
Drywall/ Concrete/ Masonry wall	100	100	200*	В	EN 13501-3 - Uninsulated 1.0mm GMS steel, rectangular duct, maximum dimensions 1250 mm wide by 1000 mm high. Duct insulated with Insulfrax 128 kg/m³, 25 mm thick for a length of 400 mm through the penetration seal (100 mm extending from both faces of the seal)	120)(
Drywall/ Concrete/ Masonry wall	100	100	200*	С	EN 13501-4 - Uninsulated 1.0mm GMS steel, rectangular duct, maximum dimensions 1250 mm wide by 1000 mm high. Duct insulated with Insulfrax 128 kg/m³, 25 mm thick for a length of 400 mm through the penetration seal (100 mm extending from both faces of the seal)	120	120

^{* 4} layers, outer layers overlapped



^{** 50} mm Stopseal Batt/100 mm Silverseal HS Compound/125 mm Stopseal Batt

^{*** 2} layers + 1 layer, 150 mm long fixed (with 75 and 100 mm pigtail screws and bedded on Pyropro HPE sealant) around the duct to form a collar on both faces of the main seal.

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

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.

