### **UL-EU CERTIFICATE**

Certificate No. Page Date of Issue Revised Certificate Holder UL-EU-00771-CPR 1/22 2015-04-19 2018-06-15 FSi Ltd Westminster Industrial Estate Tamworth Rd Measham DE12 7DS United Kingdom

Manufacturer A/008

Certified Product Type Product Trade Name Trademark Rating/Classification Fire Stop – Coated Board Stopseal 50 Coated Board / Stopseal 60 Coated Board N/A See Appendix

Harmonised Technical Specifications Expiry date ETAG 026-2 / EN 13501-2 / EN 13501-3 2025-04-19



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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of 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 21 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:

- Inspection and surveillance of factory production control by UL i)
- Fire resistance test data in accordance with 1366-3: 2009 & EN 1366-1: 2000 ii)
- iii) Classification in accordance with EN 13501-2 & EN 13501-3
- Durability and Servicability as defined in ETAG 026-2 iv)

The durability class of Flexi Coat is  $Z_1$  intended for use at internal conditions with high humidity, excluding temperatures below 0°C

VOC test report – Indoor Air Comfort GOLD<sup>®</sup> referenced – eurofins 392-2017-00008801\_A\_EN, is also available.

Fire resisting ducts penetrating the Stopseal Coated board shall be classified (EN13501-3) for the required performance period, in addition to the details given on page 21.

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Product-type: Coated board	Intended use: Pene	
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
YUi YUi YU	3WR 1 Mechanical resistance and stabili	ty
	None	
	BWR 2 Safety in case of fire	
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	See page 7
$(U_1)(U_1)(U_1)$	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 manufacture
A. A. A.	BWR 4 Safety in use	
EOTA TR 001:2003	Mechanical resistance and stability	No performance determine
EOTA TR 001:2003	Resistance to impact/movement	No performance determine
EOTA TR 001:2003 ISO 11600	Adhesion	No performance determine
	BWR 5 Protection against noise	
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw (C;C <sub>tr</sub> )= $24(-2;-3)$ and See pages 5&6
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determine
	SWR 6 Energy economy and heat retention	on
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determine
EN ISO 12572 EN 12086	Water vapour permeability	No performance determine
$\mathcal{N}^{u}\mathcal{N}^{u}\mathcal{N}^{v}$	General aspects relating to fitness for us	e
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Zı
	WR 7 Sustainable use of natural resource	es
		No performance determine

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Stopse	al 50 Coated B	oard: Air Permeat	oility according	to BS EN 1026		
Drossuno (Do)	Results under pos	sitive chamber pressure	Results under negative chamber pressur			
Pressure (Pa)	Leakage (m <sup>3</sup> /h)	Leakage $(m^3/m^2/h)$	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> / 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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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation**		sistance ns.)
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			Е	EI
yų	火門	U.	빗	빗	IJŲ	Steel or Copper pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	90	60
	)(Կ	(h)	٩ <u>)</u>	<b>4</b> )(	15 mm deep by 15 mm wide annulus FSi HPE Sealant to	Steel or Copper pipe 40 - 159 mm diameter and 2.3 – 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	60	60
	Ni.	<b>M</b>	ii.v	i.V	both faces of the batt seal	Steel pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	90	60
	1200 high x 730 wide	3			Steel pipe 40 - 159 mm diameter and 2.3 – 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	60	60	
ь Yu		$U \in V$	11. 10		Electrical cables up to 21 mm diameter	60	60	
Drywall/		SPV	J.M.		Electrical cables 22-80 mm diameter	60	45	
Masonry/ Concrete	100	100	Central	100*		Steel cable trays and ladders	60	60
wall	પ્રષ	(પ.)	ዓጋ(		맺었	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter	60	60
		10		··· /·		Unsheathed electrical cables up to 17 mm diameter	60	30
PLU	ւ,, պ	UU)	빗	민지	None	Unsheathed electrical cables 18-24 mm diameter	60	15
$\leq 2$			$\sim$	$\sim$		Steel or Copper conduits up to 16 mm diameter	60	15
	600 high x 600 wide	UΥ	U YI	հ Ծնե	Plastic conduits up to 16 mm diameter	60	60	
*>		*	KX	Steel or Copper pipe 42-159 mm diameter and 1.2 – 14.2 mm wall thickness / 25 mm thick foil faced glass wool insulation (min 30 kg/m <sup>3</sup> )	120	45		
h)(l		<u>u)(</u>	կ)(կ	Steel or Copper pipe 42 diameter and 1.0 – 14.2 mm wall thickness / 25 mm thick foil faced glass wool insulation (min 30 kg/m <sup>3</sup> )	120	60		

\* Two layers of 50 mm batt

\*\* Continuous through seal and full length of the pipe



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation** Min. 0mm between services and 50mm	Fire Re (mi	sistance ns.)
	Thickness (mm)	(mm)	Position	Depth (mm)		to seal edge	Е	EI
水が		$\mathbb{X}$	X	*	KX:	Steel or Copper pipe 42-159 mm diameter and $1.2 - 14.2$ mm wall thickness / 40 mm thick foil faced stone wool insulation (min 40 kg/m <sup>3</sup> )	45	45
Drywall/ Masonry/ Concrete	100	1200 high x 730 wide	Central	100*	None	Steel 42 - 324 mm diameter and 16 mm wall thickness / 40 mm thick foil faced stone wool insulation (min 40 kg/m <sup>3</sup> )	45	45
wall		730 wide	U.V	Ω.	D.	Steel or Copper pipe 42-159 mm diameter and 1.2 – 14.2 mm wall thickness / 2 mm DFT FSi PST coating	120	45
						Steel pipe 42-324 mm diameter and 14.2 mm wall thickness / 2 mm DFT FSi PST coating	120	45
Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation*** Min. 0mm between services and 50mm	Fire Re (mi	sistanc ns.)
	Thickness (mm)	(mm)	Position	Depth (mm)		to seal edge	Е	EI
n a		6	G Y		i) (ii	Steel or Copper pipe 42-159 mm diameter and 1.2 – 14.2 mm wall thickness / 13-25 mm thick K Flex ST insulation	120	60
D 11/		$\mathbb{X}$	X	$\approx$	XX	Steel or Copper pipe 42 mm diameter and 1.0 – 14.2 mm wall thickness / 13-25 mm thick K Flex ST insulation	120	90
Drywall/ Masonry/ Concrete	100	1200 high x 750 wide	Central	100*	None	Steel or Copper pipe 42-108 mm diameter and 1.2 – 14.2 mm wall thickness / 25-40 mm thick Kingspan Kooltherm FM insulation	120	60
Concrete wall		<b>N</b>	U Y	Π)(	i) (ii	Steel or Copper pipe 42 mm diameter and 1.0 – 14.2 mm wall thickness / 25-40 mm thick Kingspan Kooltherm FM insulation	120	90
		X	X	2		Steel or Copper pipe 42 mm diameter and 1.2 – 14.2 mm wall thickness / 50 mm thick glassfibre insulation	120	90

\* Two layers of 50 mm batt

\*\* Continuous through the seal and full length of the pipe



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation		esistance ins.)
Subbrute	Thickness (mm)	(mm)	Position	Depth (mm)			Е	EI
1)(1	)(4)	( <b>L</b> )	U_)(	U)(J	կ)(կ	Electrical cables up to 21 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120
	KXX	X	X	100*	XXX	Electrical cables 22-80 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	90
		1200 high x 730 wide	Central		빈면	Steel cable trays and ladders insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120
	)(U	(UL)	Կ)(	<b>4</b> )(	հ)(կ	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120
Maammu	G	í.V	T.V		Unsheathed electrical cables up to 24 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120	
Masonry/ Concrete Wall		X	Any position within wall thickness	None	Steel or Copper pipe 108 mm diameter and 1.5 - 14.2 mm wall thickness / 40 mm thick stone wool insulation (min 140 kg/m <sup>3</sup> )***	60	45	
		X		*	KX.	Electrical cables up to 80 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60
	600 high x 600 wide Cen	YLU	50	ՍՍ	Steel cable trays and ladders insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60	
		Central	<b>4</b> )(	հ)ա	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60	
577	S A	No.	X	X		Unsheathed electrical cables up to 24 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60

\* Two layers of 50 mm batt

\*\* Interupted at the seal and extending 200 mm from both faces of the seal

\*\*\* Interupted at the seal and full length of the pipe



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation***		esistance ins.)
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			E	EI
	)(UL	(U_) (	U_)(	U_)(I	կ)(կ	Electrical cables up to 80 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	00	D)
	KX.	X	X	XX	KX	Steel cable trays and ladders insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	KA	ĸ
Drywall/ Masonry/ Concrete Wall	100	1200 high x 750 wide	Patress** , single layer to each face	200**	None	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
	յյս	(4)	Կ.)(	ֈ֎֎֎	Unsheathed electrical cables up to 24 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	JU.	K	
	(III)	II.V	in	i. Ali	Plastic Conduits up to 16 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	M		
Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation****		esistance ins.)
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			Е	EI
		ST.	N.			Electrical cables up to 21 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
	L)(UL)	(UL)(	U)(	սլ)(	կ)(կ	Electrical cables 22-80 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	90
Masonry/ Concrete Wall	150	1200 high x 730 wide	Flush to both faces of	150*	None	Steel cable trays and ladders insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
wan			wall		RA	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
yŲ	IJ.U		9	5	UU.	Unsheathed electrical cables up to 24 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120

\* Two layers of 60 mm batt separated by minimum 30 mm

\*\* Two layers of 50 mm batt separated by minimum 100 mm

\*\* Interupted at the seal and extending 300 mm from both faces of the seal

\*\*\* Interupted at the seal and extending 200 mm from both faces of the seal



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Collar ref.	PVC Pipe**	Fire Re (mi	
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			I + O I Ipc	E	EI
			UT M	U 1 10 0		32mm	32mm Ø / 1.8mm wall		U1 1
	L/\_L/	A L.A.	- LA	- L/\		40mm	40mm Ø / 1.8mm wall	- L/A	- L./
	$\sim$				$\sim$	50mm	50mm Ø / 1.8mm wall		
		1				55mm	55mm Ø / 1.8-2.3mm wall		
Drywall/	<ul> <li>V 11.</li> </ul>	V II W	Flush to	11. 1/1	PipeBloc PCP	63mm	63mm Ø / 2.3-3mm wall	1 N	
Masonry/		1200 high x	both	~LA	secured to both	75mm	75mm Ø / 3.1-4.8mm wall	~LA	~
Concrete	100	730 wide	faces of	100*	faces with	82mm	82mm Ø / 3.1-4.8mm wall	120	120
wall		750 Wide	wall		80mm steel pig	90mm	90mm Ø / 4.2-7.4mm wall		
	N/II.	V 11. V	uli	11. \/1	tail screw	100mm	100mm Ø / 4.2-7.4mm wall	11. 17	H. A.
	K UI		UT 31	ULKI	JI K UI	110mm	110mm Ø / 4.2-7.4mm wall	U1. K.	U1 . J
			/-			125mm	125mm Ø / 6mm wall		. N.
						140mm	140mm Ø / 6.1-7.5mm wall		
~ / · ·		1		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		160mm	160mm Ø / 6.2-9.5mm wall		
	Minimum	Maximum		Minimum	Incorporated	Collar		Fire Re	sistance
Substrate	Substrate	Seal Size	Seal	Seal	seal	ref.	<b>PP Pipe**</b>	(mi	ns.)
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			11 Tipe **	E	EI
	VII.	VII. V	11. V	11. 1/1	I. V II.	32mm	32mm Ø / 2.9mm wall		
	- A M -	A 91 A	1. Sec. 1. Sec						2 L J
						40mm	40mm Ø / 2.9mm wall	- A.	
			- 5/		50.5	40mm 50mm	40mm Ø / 2.9mm wall 50mm Ø / 2.9mm wall	5	
	$K \times \times >$	$\sim$	~					LA	$\times$
5/2	KΧ	X	X	XX	PipeBloc PCP	50mm	50mm Ø / 2.9mm wall	X	X
Drywall/	Ni		Flush to		PipeBloc PCP secured to both	50mm 55mm	50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall		ត
Masonry/	100	1200 high x	both	100*		50mm 55mm 63mm	50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall 63mm Ø / 2.9-4.4mm wall	120	120
Masonry/ Concrete	100	1200 high x 730 wide	both faces of	100*	secured to both	50mm 55mm 63mm 75mm	50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall 63mm Ø / 2.9-4.4mm wall 75mm Ø / 2.8-6.7mm wall	120	120
Masonry/	100	0	both	100*	secured to both faces with	50mm 55mm 63mm 75mm 82mm	50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall 63mm Ø / 2.9-4.4mm wall 75mm Ø / 2.8-6.7mm wall 82mm Ø / 2.8-6.7mm wall 90mm Ø / 2.7-10mm wall 100mm Ø / 2.7-10mm wall	120	120
Masonry/ Concrete	100	0	both faces of	100*	secured to both faces with 80mm steel pig	50mm 55mm 63mm 75mm 82mm 90mm	50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall 63mm Ø / 2.9-4.4mm wall 75mm Ø / 2.8-6.7mm wall 82mm Ø / 2.8-6.7mm wall 90mm Ø / 2.7-10mm wall	120	120
Masonry/ Concrete	100	0	both faces of	100*	secured to both faces with 80mm steel pig	50mm 55mm 63mm 75mm 82mm 90mm 100mm 110mm 125mm	50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall 63mm Ø / 2.9-4.4mm wall 75mm Ø / 2.8-6.7mm wall 82mm Ø / 2.8-6.7mm wall 90mm Ø / 2.7-10mm wall 100mm Ø / 2.7-10mm wall 110mm Ø / 4.2-7.4mm wall 125mm Ø / 3.1mm wall	120	120
Masonry/ Concrete	100	0	both faces of	100*	secured to both faces with 80mm steel pig	50mm 55mm 63mm 75mm 82mm 90mm 100mm 110mm	50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall 63mm Ø / 2.9-4.4mm wall 75mm Ø / 2.8-6.7mm wall 82mm Ø / 2.8-6.7mm wall 90mm Ø / 2.7-10mm wall 100mm Ø / 2.7-10mm wall 110mm Ø / 4.2-7.4mm wall	120	120

\* Two layers of 50 mm batt

\*\* Minimum distance between services 0 mm and 50 mm to edges of seal



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Collar ref.	PE Pipe**		sistance ns.)					
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			TEThe	Е	EI					
						32mm	32mm Ø / 2.9mm wall							
	-/\`	A LA	- L-A	- L/V	L/\ L	40mm	40mm Ø / 2.9mm wall		- h. /					
						50mm	50mm Ø / 2.9mm wall							
						55mm	55mm Ø / 2.9-4.4mm wall							
	- V II	M = M		11. 1/1	PipeBloc PCP	63mm	63mm Ø / 2.9-4.4mm wall							
Drywall/		1000111	Flush to	100*	100*	100*	100*	100*	~L A '	secured to both	75mm	75mm Ø / 2.8-6.7mm wall		- L J
Masonry/	100	1200 high x	both						faces with	82mm	82mm Ø / 2.8-6.7mm wall	120	120	
Concrete		730 wide	faces of							80mm steel pig	90mm	90mm Ø / 2.7-10mm wall		
wall	wall	11 1/1	tail screw	100mm	100mm Ø / 2.7-10mm wall		11. \							
E)(UE)(UE)(UE)		UTM	ULK		110mm	110mm Ø / 4.2-7.4mm wall		U1 7						
	人口人口人口人口				125mm	125mm Ø / 3.1mm wall		. h./						
			$\sim$	$\approx$	~~~	140mm	140mm Ø / 3.5-5.8mm wall							
		100				160mm	160mm Ø / 4.9-9.5mm wall							
Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Uponor M Composit	ALC (Multi-layer te) Pipe		sistance ins.)					
Substitute	Thickness (mm)	(mm)	Position	Depth (mm)				Е	EI					
1.11.11	- W 83 m	M H M			Demonstra LIDE		40mm Ø / 4mm wall		1.5 m 1					
Masonry/	L A ~ L	A ~L A	Central,	~LA.	Pyropro HPE, 20mm annulus	5	0mm Ø / 4.5mm wall		~					
Concrete	150	1100 high x	back to	to 100*	and full depth		63mm Ø / 6mm wall	120	120					
wall	150	750 wide	back		of the Stopseal	75mm Ø / 7.5mm wall		120	120					
wall	A 11.	VII. V	Dack		batt seal	9	0mm Ø / 8.5mm wall		11.					
	Uh X Uh X Uh X Uh X			Suit Sour	1	10mm Ø 10mm wall								

\* Two layers of 50 mm batt / 100mm separation

\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Wrap ref.	Insulated*** PVC Pipe****		sistance ins.)
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			insulated i ve i pe	Е	EI
ъ¥п	Ma	VII. V	III V	ПY	6 Y IE	3x2mm	40mm Ø / 1.9mm wall with 25mm Kingspan Kooltherm FM	120	90
	PCP	C-LA	3		L L	3x2mm	40mm Ø / 3mm wall with 15mm Kingspan Kooltherm FM	120	90
	No.	AL V		<b>1</b> . V	PipeBloc EL	5x2mm	110mm Ø / 4.2mm wall with 25mm Kingspan Kooltherm FM	120	120
Drywall/ Masonry/	100	1200 high x	Flush to both	100*	secured internally	5x2mm	110mm Ø / 6.6mm wall with 20mm Kingspan Kooltherm FM	120	90
Concrete wall	100	730 wide	faces of wall	100	within both faces of	3x2mm	40mm Ø / 1.9mm wall with 32mm Armaflex Class O	120	90
	լ)(Սլ	X UL X	ULX	UL XI	StopSeal Batt	3x2mm	40mm Ø / 3mm wall with 9mm Armaflex Class O	120	90
	$\sim$	$\times$	$\times$	$\times$	$\times$	5x2mm	110mm Ø / 4.2mm wall with 32mm Armaflex Class O	120	120
I YU	1 Alle	$V \oplus V$	$U_{1} M$	1 h Y	I MI	5x2mm	110mm Ø / 6.6mm wall with 13mm Armaflex Class O	120	90
Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Wrap ref.	Insulated*** Steel or		esistance ins.)
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			Copper Pipe	Е	EI
	6	5	3				42-159mm Ø / 1.2mm wall with 13-25mm K Flex ST	120	60
	Mi	VII.V		n.V	$1 \le 1 \le 1$	Vii.	42-159mm Ø / 1.2-14.2mm wall with 25mm K Flex ST	120	90
	J. J.	1. ar	ЧĿЛ	<u>UU</u>	ւթյ	٧.	42mm Ø / 1-14.2mm wall with 13-25mm K Flex ST	120	120
Drywall/		1200 high x 750 wide	Patress**	i vi	PipeBloc EL secured	VII.	42-108mm Ø / 1.2-14.2mm wall with 25-40mm Kingspan Kooltherm FM	120	90
Masonry/ Concrete wall	100	S	, single layer to each face	200*	internally within both faces of	2x2mm	42mm Ø / 1-14.2mm wall with 25-40mm Kingspan Kooltherm FM	120	120
	all each face	Ur YI	StopSeal Batt	YUr	42mm Ø / 1.2-14.2mm wall with 50mm glassfibre min. 30 kg/m <sup>3</sup>	120	90		
		*	KX		42-159mm Ø / 1.2-14.2mm wall with 25mm foil faced glassfibre min. 30 kg/m <sup>3</sup>	120	90		
4 JU	ւ)(Կ,	000 x 000	ԿԵ)	ч.)(	հ)(Կ	ՀՍլ	42 Ø / 1-14.2mm wall with 25mm foil faced glassfibre min. 30 kg/m <sup>3</sup>	120	120

\* Two layers of 50 mm batt / 100mm separation

\*\* Patress installation of Stopseal Coated Batt. The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Continuous through the seal and full length of the pipe

\*\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Collar ref.	PE Pipe***		sistance ns.)							
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)			T L T Ipe	Е	EI							
	N/ N	1.00	S	$\sim \sim /$	/	32mm	32mm Ø / 2.9mm wall									
		M I I M	11111	1111111		40mm	40mm Ø / 2.9mm wall									
	LA ~ L	A~LA	~LA	~L.A.	- L A ~ L	50mm	50mm Ø / 2.9mm wall		~/							
				$\sim$		55mm	55mm Ø / 2.9-4.4mm wall									
-	$\sim$			~ /	PipeBloc PCP	63mm	63mm Ø / 2.9-4.4mm wall									
Drywall/	. VII.	1000111	Patress**	$11. \sqrt{1}$	secured to both	75mm	75mm Ø / 2.8-6.7mm wall		11. 1							
Masonry/	100	1200 high x	, single	200*	200*	200*	200*	200*	200*	200*	200*	200* faces with	82mm	82mm Ø / 2.8-6.7mm wall	120	120
Concrete	12 1 12	730 wide	layer to each face					80mm steel pig	90mm	90mm Ø / 2.7-10mm wall		1.11				
wall	each face	×	tail screw	100mm	100mm Ø / 2.7-10mm wall											
	6.	11	11 1/1	11 1/11	110mm	110mm Ø / 4.2-7.4mm wall										
	1 1 1 1 1	M UN M	<u>س</u>	11 n M I	IT M UT	125mm	125mm Ø / 3.1mm wall									
		N ~ L N		C. D.		140mm	140mm Ø / 3.5-5.8mm wall		9							
	$\sim$					160mm	160mm Ø / 4.9-9.5mm wall									
Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Uponor M Composit	ILC (Multi-layer e) Pipe		sistance ins.)							
	Thickness (mm)	(mm)	Position	Depth (mm)				E	EI							
					Drinomao LIDE		40mm Ø / 4mm wall									
Masonry/	VII.	M He M	Patress**	116 V I	Pyropro HPE, 20mm annulus	5	0mm Ø / 4.5mm wall									
2	150	1100 high x	, single	250*	and full depth		63mm Ø / 6mm wall	45	30							
wall	Concrete 150 750 wide	layer to	250	of the Stopseal	5mm (A / 5mm Wall		45	30								
wan			each face		batt seal		0mm Ø / 8.5mm wall		and the second second							
×/11		11. 11	11/1	11 1/1	outroout	1	10mm Ø 10mm wall	$1 > \ell$								

\* Two layers of 50 mm batt / 100 or 150mm separation

\*\* Patress installation of Stopseal Coated Batt. The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



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Minimum **Fire Resistance** Minimum Incorporated Collar Maximum Substrate Seal (mins.) Seal seal ref. Substrate Seal Size **PP Pipe\*\*\*** Depth Thickness Position Е EI (mm) (mm) (mm) 32mm 32mm Ø / 2.9mm wall 40mm Ø / 2.9mm wall 40mm 50mm 50mm Ø / 2.9mm wall 55mm Ø / 2.9-4.4mm wall 55mm 63mm 63mm Ø / 2.9-4.4mm wall PipeBloc PCP Drywall/ Patress\*\* 75mm Ø / 2.8-6.7mm wall secured to both 75mm 1200 high x Masonry/ , single 82mm 82mm Ø / 2.8-6.7mm wall 100 200\* 120 faces with 120 730 wide Concrete layer to 80mm steel pig 90mm 90mm Ø / 2.7-10mm wall wall each face tail screw 100mm 100mm Ø / 2.7-10mm wall 110mm 110mm Ø / 4.2-7.4mm wall 125mm Ø / 3.1mm wall 125mm 140mm 140mm Ø / 3.5-8mm wall 160mm 160mm Ø / 4-14.6mm wall Minimum Minimum Incorporated Collar Fire Resistance Maximum Substrate Seal Seal seal ref. (mins.) Seal Size **PVC Pipe\*\*\*** Substrate Thickness Position Depth  $(\mathbf{m}\mathbf{m})$ E EI (mm) (mm) 32mm 32mm Ø / 1.8mm wall 40mm 40mm Ø / 1.8mm wall 50mm 50 mm Ø / 1.8 mm wall 55mm Ø / 1.8-2.3mm wall 55mm 63mm 63mm Ø / 2.3-3mm wall PipeBloc PCP Patress\*\* Drywall/ 75mm Ø / 3.1-4.8mm wall 75mm secured to both 1200 high x Masonry/ , single 200\* 82mm 82mm Ø / 3.1-4.8mm wall 100 faces with 120 120 Concrete 730 wide layer to 90mm 90mm Ø / 4.2-7.4mm wall 80mm steel pig wall each face 100mm Ø / 4.2-7.4mm wall 100mm tail screw 110mm Ø / 4.2-7.4mm wall 110mm 125mm 125mm Ø / 6mm wall 140mm 140mm Ø / 6.1-7.5mm wall 160mm 160mm Ø / 6.2-9.5mm wall

\* Two layers of 50 mm batt / 100 or 150mm separation

\*\* Patress installation of Stopseal Coated Batt. The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Wrap size	Pipe Diameter***		sistance ins.)													
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)		WxT (mm)	r ipe Diameter · · ·	E	EI													
	17 N 19	N 14/1		/ \	PipeBloc PWP	40x2	32mm Ø – 50mm Ø															
Drywall/	$\sim$		Patress**		secured	40x4	51mm Ø – 82mm Ø															
Masonry/		1	, single		internally	40x6	83mm Ø – 115mm Ø															
Concrete	100	600 x 600	layer to	200*	within both	40x8	116mm Ø – 160mm Ø	See diagra	ams below													
wall	レハベレ	A ~L A	each face		-L.A.		1 M L A 1	~L.A.'	YLA!	~L.A.		ULA 1				YLA 1	~L.A.	faces of	40x10	161mm Ø – 200mm Ø	~L.A.	
	$\sim$	$\leq$		$\simeq$	Stopseal Coated Batt	40x12	201mm Ø – 250mm Ø	$\sim$														

\* Two layers of 50 mm batt / 100 or 150mm separation

\*\* Patress installation of Stopseal Coated Batt. The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal





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Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation	Fire Re (mi	sistanc ns.)
Substrate	Thickness (mm)	(mm)	Position	Depth (mm)		Service / Insulation	Е	EI
	)(U)	(UL)	Ur X	U_)(I	հ)(հ	Electrical cables up to 80 mm diameter insulated with FSi TDW**	60	60
		$\times$	$\times$		K X	Steel cable trays and ladders insulated with FSi TDW**	60	60
	L)(UL)	600 x 600	UL)(	UL)(I	)(U <sub>L</sub> )(U <sub>L</sub>	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi TDW**	60	60
		X	$\mathbf{X}$	$\times$	$\times$	Unsheathed electrical cables up to 24 mm diameter insulated with FSi TDW**	60	60
		5	հն	Steel or copper pipe 108mm Ø, 1.5-14.2mm wall with 40mm stone wool insulation 40kg/m <sup>3</sup> continuous through the seal and full length of the pipe	60	45		
50 <sup>3</sup>	50*	None	Steel or copper pipe 42mm Ø, 1.2-14.2mm wall with 40mm stone wool insulation 40kg/m <sup>3</sup> interrupted at the seal and 300 mm long on each face	45	45			
Masonry/ Concrete	730 Masonry/	730 wide	Central	<b>L</b> (1	ս)(Կլ	Steel or copper pipe 42-159mm Ø, 2-14.2mm wall with 40mm stone wool insulation 40kg/m <sup>3</sup> interrupted at the seal and 300 mm long on each face	45	15
Wall	5.25	100	~		5.75	500mm wide perforated steel cable tray coated with 2mm DFT PST for 300mm to both faces	30	30
	լ)(Սլ)	(4)	UE)(	Կլ)(Կ	빛몣	Electrical cables up to 21 mm diameter coated with 2mm DFT PST for 300mm to both faces	45	45
	$\sim$	$\times$	$\times$	$\times$		1 off 'C2' Cable coated with 2mm DFT PST for 300mm to both faces	45	45
	i X(Ui	(U <sub>1</sub> )	UΓΥ	U1)(1	կ)(կ	1 off 'C2' Cable coated with 2mm DFT PST for 300mm to both faces	45	45
		1100 high by	~	Ś	22	1 off 'C2' Cable coated with 2mm DFT PST for 300mm to both faces	45	45
	Mu	750 wide	UrV	U.VI	h Y th	500mm wide perforated steel cable tray coated with 2mm DFT PST for 300mm to both faces	120	12
		Pyropro HPE, 20mm annulus	Electrical cables up to 21 mm diameter coated with 2mm DFT PST for 300mm to both faces	120	12			
	100***	and full depth of the Stopseal	1 off 'C2' Cable coated with 2mm DFT PST for 300mm to both faces	120	12			
		batt seal	1 off 'C2' Cable coated with 2mm DFT PST for 300mm to both faces	120	90			
N/6.	er of 50 mm ba	6		$\langle \rangle$	2	1 off 'C2' Cable coated with 2mm DFT PST for 300mm to both faces	120	12

\*\* Thermal Defense Wrap, 6mm thick, interupted at the seal and extending 300 mm from both faces of the seal

\*\*\* Two layers of 50 mm batt



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal	Incorporated seal	Service / Insulation	Fire Resistance (mins.)	
				Depth (mm)		Service / Insulation	Е	EI
հյն	)(U	1100 high by	U_)(	U_)(I	Pyropro HPE, 20mm annulus and full depth of the Stopseal batt seal	PVC Pipe 50mm diameter / 2.4- 7.4mm wall	45**	45**
Masonry/	150	750 wide	Control	100*	Pyropro HPE, 20mm annulus and 20mm depth to both faces of the Stopseal batt seal	PVC Pipe		agram ow
Concrete Wall	150	1100 high by 750 wide	- Central	100*		Steel or Copper Pipe 42mm diameter / 1.2-14.2mm wall, insulated with 40mm stone wool min. 40kg/m <sup>3</sup> ***	120	60
					None	Steel or Copper Pipe 42-159mm diameter / 2-14.2mm wall, insulated with 40mm stone wool min. 40kg/m <sup>3</sup> ***	120	30

\* Two layers of 50 mm batt

\*\* And as per diagram below

\*\*\* interupted at the seal and extending 300 mm from both faces of the seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation	Fire Resistance (mins.)	
							E	EI
DO	)(U	1600 x 700	Flush to top of floor	50	None	None	60	60
32		X	X	Ĭ	KX.	Electrical cables up to 80 mm diameter insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	60	60
LNU	L)( ''L)	)(UL)	UL)		PL)(UL	Steel cable trays and ladders insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	60	60
50	λΨ	(U)	Ju (	ы d	n m	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	60	60
Χ>	KXX	$\left \times\right $	X	XX	ĸх	Unsheathed electrical cables up to 17 mm diameter insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	60	60
<u>y</u> U	빗빈	1100 x 700	Central, back to back	50*	None	Unsheathed electrical cables up to 18-24 mm diameter insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	60	60
Concrete Floor	150					Steel or Copper conduits up to 16mm diameter insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	60	60
*>						Plastic conduits up to 16 mm diameter insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	60	60
JU	յա	(Գ)	Y,U	<u>4)(</u>	և)Ս	Steel or copper pipe 42mm Ø, 1.2-14.2mm wall insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	120	120
20		(III)	ūγ	ūΛ	i Air	Steel or copper pipe 42-159mm Ø, 2-14.2mm wall insulated with 40mm stone wool insulation 40kg/m <sup>3</sup> **	120	30
5		CPV	- PA		Pyropro HPE, 20mm annulus	500mm wide perforated steel cable tray coated with 2mm DFT PST for 300mm to both faces	60	60
Mi	Mi.	AL.V	11.	1.	and full depth of the Stopseal	Electrical cables up to 21 mm diameter coated with 2mm DFT PST for 300mm to both faces	60	60
5	5	1. T.V.	21	<u>UN</u>	batt seal	1 off 'C1' Cable coated with 2mm DFT PST for 300mm to both faces	60	60
1		A VI	n v			1 off 'C2' Cable coated with 2mm DFT PST for 300mm to both faces	60	60
1.10	LXUL	1. UL X	1,1,9,1,1,9,1	4.1	1111	1 off 'C3' Cable coated with 2mm DFT PST for 300mm to both faces	60	60

\* Two layers of 50 mm batt

\*\* Interupted at the seal and extending 300 mm from both faces of the seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Uponor MLC (Multi-layer Composite) Pipe	Fire Resistance (mins.)	
							Е	EI
Concrete floor	150	1100 x 750	Central, back to back	100*	Pyropro HPE, 20mm annulus and full depth of the Stopseal batt seal	40mm Ø / 4mm wall 50mm Ø / 4.5mm wall 63mm Ø / 6mm wall 75mm Ø / 7.5mm wall 90mm Ø / 8.5mm wall 110mm Ø 10mm wall	60	60
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	PVC Pipe		sistance ins.) EI
Concrete floor	150	1100 x 750	Central, back to back	100*	Pyropro HPE, 20mm annulus and 25mm depth to both faces of the Stopseal batt seal	See diagram below		<b>Կ</b>

\* Two layers of 50 mm





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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal width (mm)	Minimum Seal Depth (mm)	Duct A / Duct B	Duct Specification (Duct must be classified in accordance with EN 13501-3 for the required period)	Fire Resistance (mins.)	
						Е	S
Drywall/ Concrete/ Masonry wall	100	100	200*	А	Uninsulated 1.0mm GMS steel, rectangular duct, maximum dimensions 1250 mm wide by 1000 mm high.	60	120
				В		120	Ň
Concrete floor	150	250	275**	А		120	120
				В		120	ч.)

\* 4 layers, outer layers overlapped

\*\* 50 mm Stopseal Batt/100 mm Silverseal HS Compound/125 mm Stopseal Batt



#### **Appendix UL-EU Certificate**

Certification Mark UL-EU mark Certificate No. UL-EU-00771-CPR Page 22/22 Date of Issue 2015-04-19

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.

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