# UL-EU CERTIFICATE

Certificate No. Page Date of Issue Revision

UL-EU-00640-CPR 1/13 2014-09-25 2021-06-17

**Certificate Holder** 

FSi Limited Westminster Industrial Estate Tamworth Road Measham DE12 7DS United Kingdom

Manufacturer A/008

Certified Product Type Product Trade Name Trademark Rating/Classification Fire Stop – Pillows S-Line Pillows N/A See Appendix

Harmonised Technical Specifications Supporting Documentation

> Additional information Expiry date

ETAG 026-2 / EN 13501-2 ETA 20/1031, EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE - 2812 – CPR – JA5008, Classification Report No. 4789860640 Additional test evidence is held on file 2024-09-24



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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of S-Line Pillows for fire stopping where services pass through flexible or rigid walls. The detailed scope is given in pages 3 to 12 of this Certificate. This shows the thickness and acceptable dimensions, substrates, services and orientations required to provide fire resistance periods of up to 120 minutes.

The product is certificated on the basis of:

- i) ETA 20/1031 EC CERTIFICATE OF CONSTANCY OF PERFORMANCE 2812 CPR JA5008
- ii) Inspection and surveillance of factory production control by UL
- iii) Fire resistance test data in accordance with 1366-3: 2009
- iv) Classification in accordance with EN 13501-2
- v) Durability and Servicability as defined in ETAG 026-2

The durability class of S-Line Pillows is  $Z_1$  - intended for use at internal conditions with high humidity, excluding temperatures below 0°C



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Product-type: Pillow	Intended use: Per	netration Seal	
Basic requirement for construction work	Basic Requirement	Performance	
	3WR 1 Mechanical resistance and stab	lity	
ハリルリハリ	None	Not relevant	
$\times$ $\times$ $\times$	BWR 2 Safety in case of fire	$\langle \times \times \rangle$	
EN 13501-1	Reaction to fire	Class F	
EN 13501-2	Resistance to fire	See page 5	
Vil. Vil. Vil	BWR 3 Hygiene, health and environme	ent	
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	
	BWR 4 Safety in use		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined	
EOTA TR 001:2003	Resistance to impact/movement	No performance determined	
EOTA TR 001:2003 ISO 11600	Adhesion	No performance determined	
$\times$	BWR 5 Protection against noise	$\langle \times \times \rangle$	
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw(C;Ctr)= 33 (0;-2) dB*	
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined	
	SWR 6 Energy economy and heat reten	tion	
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined	
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined	
	General aspects relating to fitness for u	ise	
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Z1	
	WR 7 Sustainable use of natural resou	rces	
	. N. I.V. I.V. I.V.	No performance determined	

\* As given in ETA, see page 5 for additional ratings

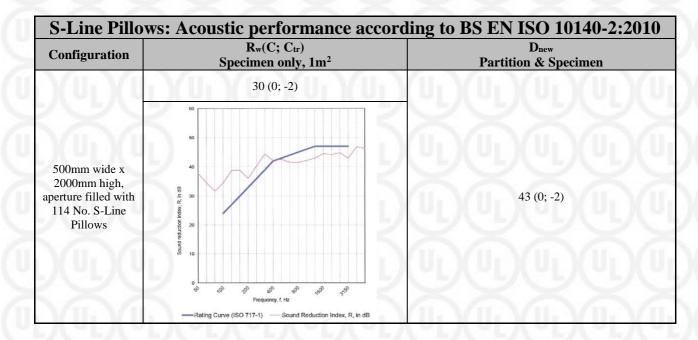
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S-Line Pillows: Air Permeability according to BS EN 1314-1					
Pressure (Pa)	Results under pos	sitive chamber pressure	Results under negative chamber pressure		
ressure (ra)	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> / h)	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> / h)	
50	2.5	13.9	3.1	17.2	
100	4.1	22.8	5.6	31.1	
150	5.8	32.2	7.4	41.1	
200	7.2	40.0	8.9	49.4	
250	8.7	48.3	10.3	57.2	
300	9.8	54.4	11.1	61.7	
450	13.4	74.4	15.3	85.0	
600	17.5	97.2	18.6	103.3	

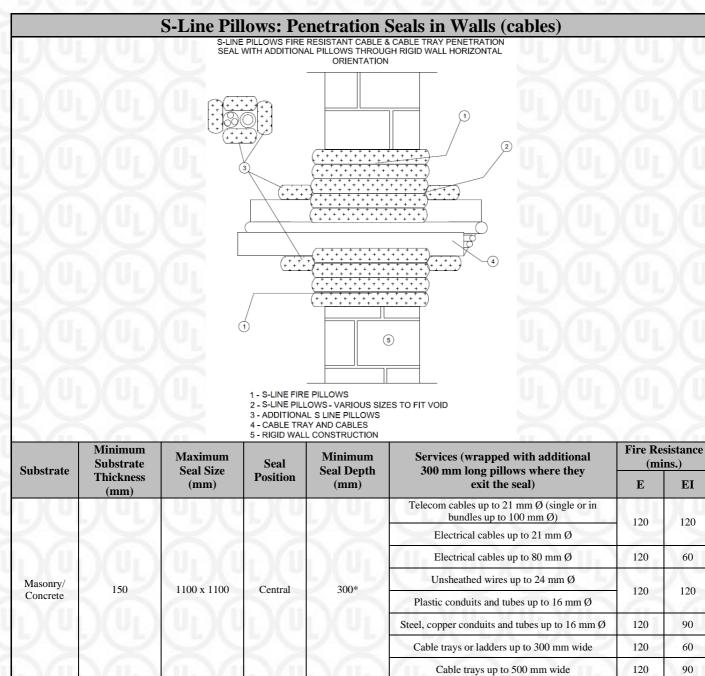


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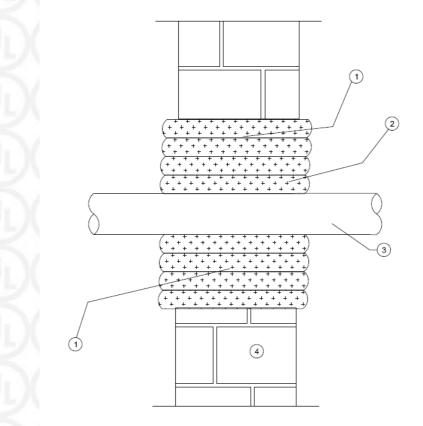
\* with equal projection to both faces



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#### S-Line Pillows: Penetration Seals in Walls (uninsulated metal pipes)

S-LINE PILLOWS FIRE RESISTANT UN-INSULATED METALLIC PIPE PENETRATION SEAL THROUGH RIGID WALL HORIZONTAL ORIENTATION



1 - S-LINE FIRE PILLOWS

2 - S-LINE PILLOWS - VARIOUS SIZES TO FIT VOID

3 - UN-INSULATED METALLIC PIPE - COPPER / STEEL

4 - RIGID WALL CONSTRUCTION

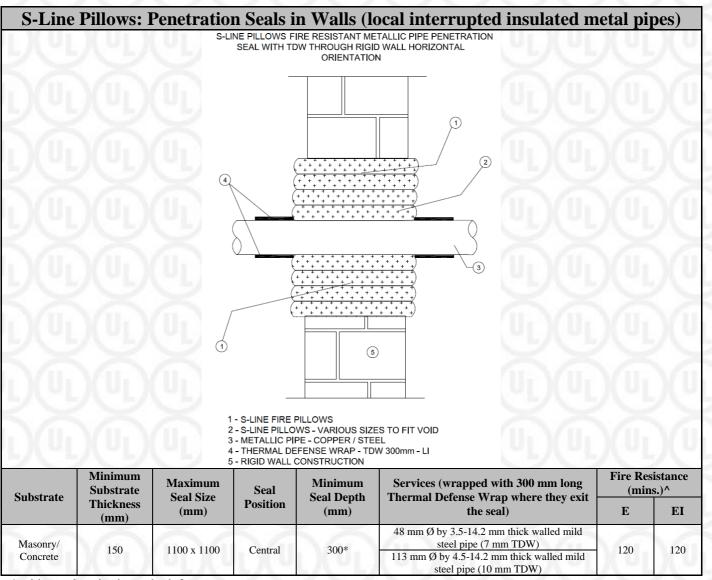
Substrate	Minimum Substrate	Maximum Seal Size	Seal	Minimum Seal Depth	Services	Fire Res (mins	
Substrate	Substrate Thickness (mm) Sear Size (mm) Position Sear Dept (mm)	-	Services	Е	EI		
Masonry/ Concrete	150	1100 x 1100	Central	300*	165 mm Ø by 5.6-14.2 mm thick walled mild steel pipe	120	0

\* with equal projection to both faces

^ C/U pipe end configuration



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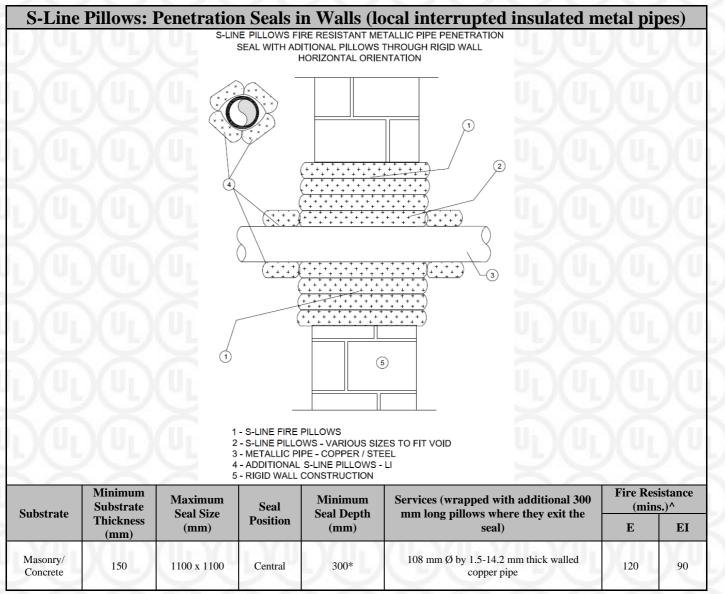


\* with equal projection to both faces

^ C/U pipe end configuration



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\* with equal projection to both faces

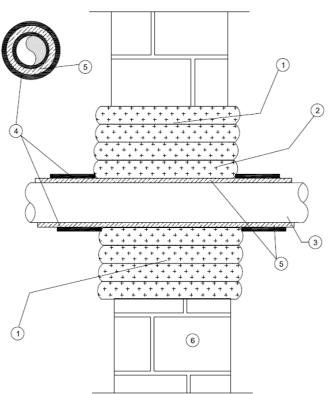
^ C/U pipe end configuration



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#### S-Line Pillows: Penetration Seals in Walls (insulated metal pipes)

S-LINE PILLOWS FIRE RESISTANT INSULATED WITH ARMAFLEX METALLIC PIPE PENETRATION SEAL WITH TDW THROUGH RIGID WALL HORIZONTAL ORIENTATION



- 1 S-LINE FIRE PILLOWS
- 2 S-LINE PILLOWS VARIOUS SIZES TO FIT VOID
- 3 METALLIC PIPE COPPER / STEEL
- 4 THERMAL DEFENSE WRAP TDW 300mm LI (Local Interrupted)
- 5 ARMAFLEX INSULATION LS (Local Sustained)
- 6 RIGID WALL CONSTRUCTION

Substrate	Minimum Substrate Seal Size		Seal	Minimum Seal Depth	Services (wrapped with 250 mm long Thermal Defense Wrap where they exit	Fire Resistance (mins.)^	
	Thickness (mm)		Position	(mm)	the seal)	Е	EI
Masonry/ Concrete	150	1100 x 1100	Central	300*	54 mm Ø by 1.0-14.2 mm thick walled copper pipe with 15 mm thick Armaflex AF insulation continuous through the seal and extending at least 400 mm to each face (2x layers of 100 mm TDW)	120	120

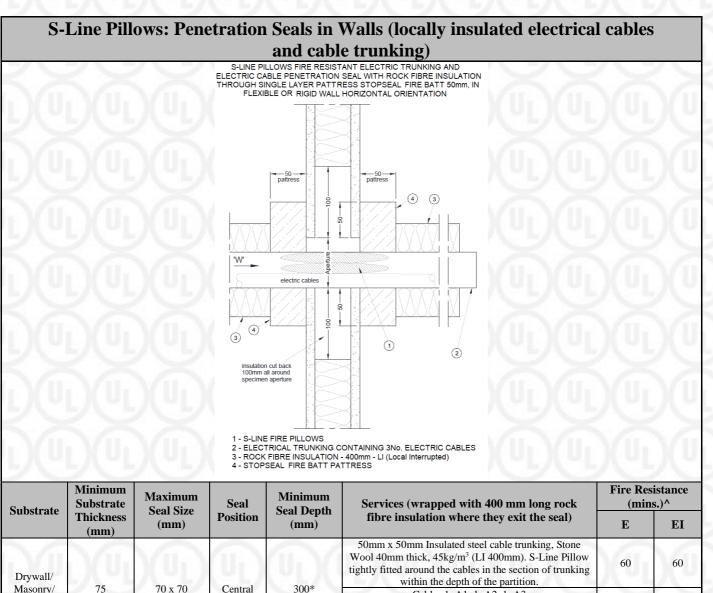
\* with equal projection to both faces

^ C/U pipe end configuration



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\* with equal projection to both faces

^ U/U pipe end configuration

Concrete

<sup>1</sup>Pattress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows, bedded onto the partition using Pyrocoustic Fire Resistant Sealant and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 70mm steel screws and steel retaining washer.

Cables 1xA1, 1xA2, 1xA3

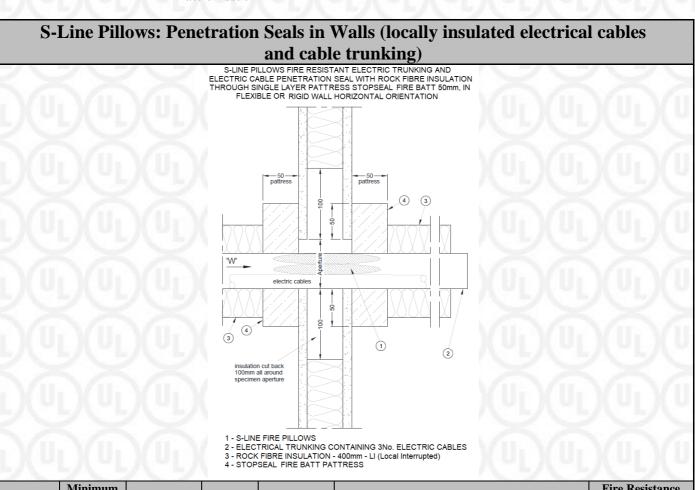
Cables 1xA1

Cables 1xA2 Cables 1xA3 60



60

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Substrate	Minimum Substrate	ate ess (mm)	Seal Position	Minimum Seal Depth (mm)	Services (wrapped with 400 mm long rock	Fire Resistance (mins.)^	
Thick	Thickness (mm)				fibre insulation where they exit the seal)	Е	EI
Drywall/ Masonry/ 75 170 x 170 Centra Concrete	5	(IIII)	150mm x 150mm Insulated steel cable trunking, Stone Wool 40mm thick, 45kg/m <sup>3</sup> (LI 400mm). S-Line Pillow tightly fitted around the cables in the section of trunking within the depth of the partition.	60	60		
	170 x 170	Central	300*	Cables 1xB, 1xC1, 1xG2, 1x G3	60	60	
				Cables 1xB			
	Vn. Vn	11. \		Cables 1xC1			
	٤, Yul	ペリ	("L)	("L)("	Cables 1xG1		- 14 U
					Cables 1xG2	/ \ b	

\* with equal projection to both faces

^ U/U pipe end configuration

<sup>1</sup>Pattress installation of Stopseal Coated Batt. The Batts are installed in horizontal rows, bedded onto the partition using Pyrocoustic Fire Resistant Sealant and fixed in minimum two vertical edges. Overlap of batts to substrate min 50mm. Batts mechanically fixed to substrate with min 6mm x 70mm steel screws and steel retaining washer.



# **Appendix UL-EU Certificate**

Certification Mark Certificate No.	UL-EU mark UL-EU-00640-CPR		
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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.

