

UL-EU CERTIFICATE

Certificate No. UL-EU-01151-CPR
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Date of Issue 2020-08-28
Revision 2021-09-13

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

Manufacturer A/008

Certified Product Type Fire Stop – Joint Seal/Cavity Barrier
Product Trade Name Paraflam
Trademark N/A
Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-3 / EN 13501-2
Supporting Documentation ETA 16/0673, EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE - 0843 – CPR – 0331, Classification Report No. 4787512955
Additional information Additional test evidence is held on file
Expiry date 2030-08-27



A handwritten signature in purple ink, appearing to read 'Chris Miles', is located in the bottom left corner of the page.

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Paraflam for fire stopping where there are joints in or between floors and walls and for cavity barriers to prevent the spread of fire in unseen spaces. The detailed scope is given in pages 3 to 5 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) ETA 16/0763
- ii) EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 0843 – CPR – 0331
- iii) Inspection and surveillance of factory production control by UL
- iii) Fire resistance test data in accordance with 1366-4: 2006
- iv) Classification in accordance with EN 13501-2
- v) Durability and Servicability as defined in ETAG 026-3

The movement capability of Paraflam joint seals is restricted to $\leq 7.5\%$

The durability class of Paraflam is Y₂ - Intended for uses in internal conditions with humidity lower than 85% RH excluding temperatures below 0°C, without exposure to rain or UV.



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Product-type: Coating		Intended use: Linear Joint & Gap Seal
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
BWR 1 Mechanical resistance and stability		
-	None	-
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	No performance determined
EN 13501-2	Resistance to fire	See page 5
BWR 3 Hygiene, health and environment		
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
BWR 5 Protection against noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	D _{ne,w} = 31dB
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined
BWR 6 Energy economy and heat retention		
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 use		
EN 13162 or EN 14303, EN ISO 1519	Durability and serviceability	Y ₂



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Parafilm: Air Permeability according to EN 1026 Parafilm board 100 mm thick, joints taped on both faces (per metre length of seal)		
Pressure (Pa)	Results under positive chamber pressure	Results under negative chamber pressure
	Leakage ($\text{m}^3\text{h}^{-1}\text{m}^{-1}$)	Leakage ($\text{m}^3\text{h}^{-1}\text{m}^{-1}$)
50	2.42	1.92
100	1.58	2.5
150	1.75	2.5
200	2	2.58
250	1.83	1.92
300	2.08	1.92
450	2.42	1.08
600	3.33	0.33



Appendix UL-EU Certificate

Certification Mark **UL-EU mark**
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Paraflam: Linear Gaps in Floors (including floor edge to wall)							
Minimum 10mm compression							
Substrate	Minimum Substrate Thickness (mm)	Maximum Gap Size (mm)	Minimum Seal Depth (mm)	Seal Position	Joints	Fire Resistance (mins.)	
						E	EI
AAC or Concrete	150	150	100	Top of floor	100 mm wide Aluminium tape to both faces	120	60
AAC or Concrete/ timber*		110	75		100 mm wide Aluminium tape to top face	45	30
AAC or Concrete/ timber [§]		110	100				

* to one face only

§ additionally, each section of board supported by a single 'Z' shaped steel hanger (1 x 25 x 400 mm) bent to span the full width of the seal (inserted at mid-depth) and rested upon the top of the floor slab

Paraflam: Horizontal Linear Gaps in Walls (including head of wall)							
Minimum 10mm compression							
Substrate	Minimum Substrate Thickness (mm)	Maximum Gap Size (mm)	Minimum Seal Depth (mm)	Seal Position	Joints	Fire Resistance (mins.)	
						E	EI
Masonry or AAC or Concrete	150	110	100	No restriction	100 mm wide Aluminium tape to both faces	30	15
			75		100 mm wide Aluminium tape to top face	30	30

Paraflam: Cavity Barriers in Wall Cavities							
Minimum 5mm compression							
Substrate	Minimum Substrate Thickness (mm)	Maximum Gap Size (mm)	Minimum Seal Depth (mm)	Supports	Joints	Fire Resistance (mins.)	
						E	EI
Masonry or AAC or Concrete	Continuous cavity between walls	450	75	2 x 1.5mm S/S brackets per board.*	100 mm wide Aluminium tape to both faces	30	30
			100			60	60
			120			120	120

* Brackets horizontal leg to be 50% of overall gap width and to be impaled into the stone wool board at mid-thickness nominally 600 mm apart. Bracket vertical leg to be minimum 100 mm long and fixed to the wall with minimum 2 no. steel fixings suitable for the substrate.



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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.

