

UL-EU CERTIFICATE

Certificate No. UL-EU-01151-CPR
Page 1/6
Date of Issue 2020-08-28
Revision 2023-11-15

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 blue ink, appearing to read 'Chris Johnson'.

Authorized Certification Decision Maker
Chris Johnson

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



Appendix UL-EU CERTIFICATE

Certificate No. UL-EU-01151-CPR
Page 2/6
Date of Issue 2020-08-28

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 - Product intended for use at temperatures below 0°C (occasionally), but with no exposure to wetness, rain or UV (exception: re-drying short-term condensation)



Appendix UL-EU CERTIFICATE

Certificate No. UL-EU-01151-CPR
 Page 3/6
 Date of Issue 2020-08-28

| | | |
|--|--|---|
| 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 |



Appendix UL-EU CERTIFICATE

Certificate No. UL-EU-01151-CPR
Page 4/6
Date of Issue 2020-08-28

| 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**
 Certificate No. **UL-EU-01151-CPR**
 Page **5/6**
 Date of Issue **2020-08-28**

| 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 ^s | | 110 | 100 | | | | |

* to one face only

^s 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.



Appendix UL-EU Certificate

| | |
|---------------------------|-------------------|
| Certification Mark | UL-EU mark |
| Certificate No. | UL-EU-01151-CPR |
| Page | 6/6 |
| Date of Issue | 2020-08-28 |

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.

Form-ULID-006104 (DCS:27-CP-F0855) 6.0

