

UL-EU CERTIFICATE

Certificate No. UL-EU-00836-A1
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Date of Issue 2015-09-09

Certificate Holder ASTROFLAME FIRESEALS LIMITED
UNIT 8 THE IO CENTRE
SEGENSWORTH
FAREHAM
PO15 5RU
United Kindgom

Manufacturer A/008

Certified Product Type Fire Stop - Coating
Product Trade Name Astro Flexi Coating
Trademark N/A
Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-3 / EN 13501-2
Supporting Documentation ETA 14/0048, EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE - 1121 – CPR – JA5014
Additional information Additional test evidence is held on file
Expiry date 2025-07-01

Director, Global Market Access Operations

Helena Y. Wolf

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Astro Flexi Coating sealant for fire stopping where there are joints in or between floors and walls. 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 240 minutes (E 240/ EI 180).

The product is certificated on the basis of:

- i) ETA 14/0048 EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 1121 – CPR – JA5014
- ii) 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 Astro Flexi Coating joint seals is restricted to $\leq 12.5\%$ (lateral movement)

The durability class of Astro Flexi Coating is Z₁ - intended for use at internal conditions with high humidity, excluding temperatures below 0°C



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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	Class F
EN 13501-2	Resistance to fire	See page 6
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	Rw(C;Ctr)= 30 (-2;-8) dB*
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		
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Z ₁
BWR 7 Sustainable use of natural resources		
-	-	No performance determined

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



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Astro Flexi Coating: Air Permeability according to BS EN 1314-1				
Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressure	
	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
50	0.1	0.1	1.0	1.4
100	0.3	0.4	1.1	1.5
150	0.6	0.8	1.5	2.1
200	0.8	1.1	0.9	1.3
250	1.1	1.5	1.3	1.8
300	1.2	1.7	1.7	2.4
450	2.4	3.3	3.5	4.9
600	4.5	6.3	5.3	7.4

Astro Flexi Coating: Analytical VOC Results				
Solid content % mass	Water content, % mass	Exempt compounds, % mass	VOC less water less exempt compounds, g/l	VOC limit g/l
66.2	7.7*	0***	380	750*

* VOC limit for other sealants

** Given by client

*** No information about exempt compounds. Set to zero.

Astro Flexi Coating: Water Permeability according to BS EN 1027*		
Pressure (Pa)	Duration	Observations
50	15 minutes	No Leakage Observed
100	5 minutes	No Leakage Observed
150	5 minutes	No Leakage Observed
200	5 minutes	No Leakage Observed
250	5 minutes	No Leakage Observed
300	5 minutes	No Leakage Observed
450	3 minutes 50 seconds	At a total duration of 48 minutes 50 seconds the right hand edge of the sample joint to subframe separated and began to allow water leakage off the sample

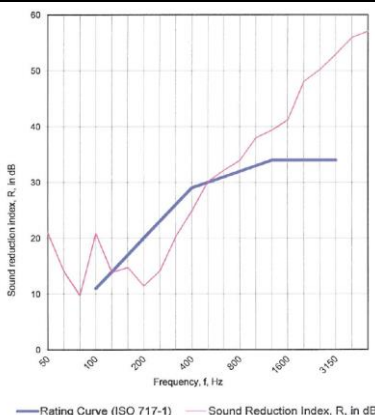
* Exposure from coated side



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Astro Flexi Coating: Acoustic performance according to BS EN ISO 10140-2:2010

Configuration	$R_w(C; C_{tr})$ Specimen only, 1m ²	D_{new} Partition & Specimen, 14.2m ²
Astro Flexi Coating on source room side of wall, 1mm deep x 500mm wide x 2000mm high, with 100mm deep Stonewool (80kg/m ³)	30 (-2; -8) 	40 (2; -8)



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Astro Flexi Coating: Linear Gaps in Floors								
Substrate	Minimum Substrate Thickness (mm)	Maximum Gap Size (mm)	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
							E	EI
AAC or Concrete	150	200	Top of floor	1 (DFT)	Stone Mineral Wool* Compressed by 20%	100	240	180

* 80 kg/m³

Astro Flexi Coating: Linear Gaps in Walls								
Substrate	Minimum Substrate Thickness (mm)	Maximum Gap Size (mm)	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
							E	EI
AAC or Concrete	150	150	Unexposed face	1 (DFT)	Stone Mineral Wool* Compressed by 20%	100	240	180

* 80 kg/m³



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 Certificate 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.

