

UL-EU CERTIFICATE

Certificate No. UL-EU-01232-CPR
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Date of Issue 2021-12-16

Certificate Holder Astroflame Fireseals LTD
Unit 8, I.O Centre,
Stephenson Road,
Segensworth,
Fareham,
PO15 5RU

Manufacturer A/011

Certified Product Type Fire Stop – Mortar
Product Trade Name Astro HS Compound
Trademark N/A
Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-2 / EN 13501-2
Expiry date 2031-12-15



A handwritten signature in black ink, appearing to be 'Chris Miles', written in a cursive style.

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Astro HS Compound for fire stopping where services penetrate floors. 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) Inspection and surveillance of factory production control by UL
- ii) Fire resistance test data in accordance with 1366-3: 2009
- iii) Classification in accordance with EN 13501-2
- iv) Durability and Servicability as defined in ETAG 026-2

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



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Product-type: Mortar		Intended use: Penetration 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 4
BWR 3 Hygiene, health and environment		
EN 1026:2000	Air permeability (material property)	No performance determined
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	R _w (C;C _{tr})= 50(-1;-4)
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



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Service / Min. 500 mm long Local Interrupted (LI) Insulation	Fire Resistance (mins.)*	
						E	EI
Concrete Floor	150	1800 x 1800	Flush to top of floor	100	Copper pipe 40-107 mm diameter and 1.5 – 14.2 mm wall thickness / 50 mm thick Rockwool H&V pipe section insulation (min 150 kg/m ³)	60	15
					Steel pipe 40-115 mm diameter and 3.5 – 14.2 mm wall thickness / 50 mm thick Rockwool H&V pipe section insulation (min 150 kg/m ³)	120	120
					Steel pipe 160 mm diameter and 5 – 14.2 mm wall thickness / 50 mm thick Rockwool H&V pipe section insulation (min 150 kg/m ³)	120	90
					Electrical cables up to 80 mm diameter / 25 mm thick Rockwool Duct Wrap insulation (min 45 kg/m ³)	120	60
			Non-sheathed wire up to 24 mm diameter / 25 mm thick Rockwool Duct Wrap insulation (min 45 kg/m ³)	120	120		
			Flush to top of floor + additional step around services above main seal	100 + 50	Telecomm cables in a bundle of up to 100 mm diameter / 25 mm thick Rockwool Duct Wrap insulation (min 45 kg/m ³)	120	120

* All pipes are Capped/Uncapped (C/U) configuration



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 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) 5.0

