UL-EU CERTIFICATE

Certificate No. UL-EU-00834-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 - Coated Board

Trademark N/A

Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-2 / EN 13501-2

Supporting Documentation ETA 14/0099, EC - CERTIFICATE OF CONSTANCY OF

PERFORMANCE - 1121 - CPR - JA5026

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Batt & Coating for fire stopping where services penetrate floors and walls. The detailed scope is given in pages 3 to 10 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 14/099 EC CERTIFICATE OF CONSTANCY OF PERFORMANCE 1121 CPR JA5026
- 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 Astro Batt & Coating is Z_1 - intended for use at internal conditions with high humidity, excluding temperatures below $0^{\circ}C$



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Product-type: Coating	Intended use: Pene	tration Seal
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
$\mathbf{YU}_{1}\mathbf{YU}_{2}\mathbf{YU}_{3}\mathbf{YU}_{4}$	BWR 1 Mechanical resistance and stabili	ty
	None	
Mil. Mil. Mil.	BWR 2 Safety in case of fire	Mil. Vii. Vii
EN 13501-1	Reaction to fire	Class F
EN 13501-2	Resistance to fire	See page 6
)(U ₁)(U ₁)(U ₁	BWR 3 Hygiene, health and environmen	:)(U ₁)(U ₁)(U
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
1000	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
ViraVir	BWR 5 Protection against noise	Millaria
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw (C;C _{tr})= 24(-2;-3) and See page 5
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined
	BWR 6 Energy economy and heat retention	on
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
人で人でし人で	General aspects relating to fitness for use	e / L/L
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Z_{l}
В	WR 7 Sustainable use of natural resource	es
		No performance determined

No performance determined



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Astro Batt & Coating (50 mm): Air Permeability according to BS EN 1026										
Pressure (Pa)	Results under pos	sitive chamber pressure	Results under neg	negative chamber pressure						
	Leakage (m³/h)	Leakage (m³/m²/ h)	Leakage (m³/h)	Leakage (m³/m²/ h)						
50	0.6	0.8	1.1	1.5						
100	1.0	1.4	1.3	1.8						
150	2.8	3.9	1.5	2.1						
200	3.8	5.3	1.9	2.6						
250	4.5	6.3	2.0	2.8						
300	5.0	6.9	2.4	3.3						
450	5.1	7.1	1.9	2.6						
600	6.7	9.3	2.2	3.1						



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Astro Batt & Coating: Acoustic performance according to BS EN ISO 10140-2:2010 D_{new} Partition & $R_w(C; C_{tr})$ Configuration Specimen only, 1m² Specimen, 14.2m² 27 (0; -2) 50mm - 140kg DENSITY STONE WDDI 37 (0; -2) 48 (-3; 16) DENSITY STON WOOL COATED ON DUTER FACES 58 (-3; 16) 50mm - 80kg DENSITY STONE WOOL 30 200



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Substrate Substrate Thick	Minimum Substrate	trate Maximum Seal Size	Seal	Minimum Seal	Incorporated seal	Service / Insulation**	Fire Resistance (mins.)							
	Thickness (mm)	(mm)	Position	Depth (mm)		Service / Insulation	E	EI						
Drywall/ Masonry/ Concrete wall 1200 high x 730 wide		Un (Un)(Un)(in/i	II)(Ui	Steel or Copper pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m³)	90	60							
		Ď(15 mm deep by 15 mm wide annulus FSi HPE Sealant to	Steel or Copper pipe 40 - 159 mm diameter and 2.3 - 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m³)	60	60								
				<u> </u>	<u> </u>	<u> </u>	7		both faces	both faces of the batt seal	Steel pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m³)	90	60	
	$(U_L)($	$U_L)(1$		$(U_L)(U_L)$	Steel pipe 40 - 159 mm diameter and 2.3 – 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m ³)	60	60							
	100		Central	100*	100*	Electrical cables up to 21 mm diameter	60	60						
						Electrical cables 22-80 mm diameter	60	45						
	<i>-</i> /(-)-					Steel cable trays and ladders	60	60						
	100		None	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter	60	60								
				X		١٠/١							Unsheathed electrical cables up to 17 mm diameter	60
		MIN.			/III-V/I	11.			1.7/11.	Unsheathed electrical cables 18-24 mm diameter	60	15		
				<u> </u>		Steel or Copper conduits up to 16 mm diameter	60	15						
					\sim	\sim	Plastic conduits up to 16 mm diameter	60	60					



^{*} Two layers of 50 mm batt

** Continuous through seal and full length of the pipe

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Substrate	Minimum Substrate	ubstrate Maximum Seal Size	Seal	Minimum Seal	Seal seal Depth	Service / Insulation	Fire Resistance (mins.)	
	Thickness (mm)		Position	Depth (mm)			E	EI
<>		SXX	\times	100*		Electrical cables up to 21 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m ³	120	120
	녓빈					Electrical cables 22-80 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m³	120	90
)(U)	1200 high x 730 wide	Central			Steel cable trays and ladders insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m^3	120	120
		Any position within wall thickness		Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m ³	120	120		
				Unsheathed electrical cables up to 24 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m³	120	120		
Masonry/ Concrete Wall	150		position within wall		None	Steel or Copper pipe 108 mm diameter and 1.5 – 14.2 mm wall thickness / 40 mm thick stone wool insulation (min 140 kg/m³)***	60	45
	ւ)(Ա	(UL)(UL)(Jr)(i	노)(민	Electrical cables up to 80 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60
		600 high x 600 wide 50	M	Steel cable trays and ladders insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60		
			Central		Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60	
				Unsheathed electrical cables up to 24 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60		

^{*} Two layers of 50 mm batt



^{**} Interupted at the seal and extending 200 mm from both faces of the seal

^{***} Interupted at the seal and full length of the pipe

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Substrate Substrate Thickness (mm)	Substrate	Maximum Seal Size	Seal	Minimum Seal		Service / Insulation**	Fire Resistance (mins.)							
	(mm)	Position	Position Depth (mm)		Get vice / Insulation	E	EI							
Masonry/ Concrete 150 1200 high x both		S.	Ž,			Electrical cables up to 21 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m ³	120	120						
	(UL	I_L) $(U_L)($	U_L)($U_L)(I$	Մը)(Մլ	Electrical cables 22-80 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m ³	120	90						
	Flush to both faces of	150*	None	Steel cable trays and ladders insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m³	120	120								
	wall		<u>"</u>		Y		<u>"</u>	Y.			Y	NO.	Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m ³	120
	ւ)(Մլ	$)(U_L)(U_L)(U_L)$	UL)(1F)(nF	Unsheathed electrical cables up to 24 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m ³	120	120						

^{*} Two layers of 60 mm batt separate by minimum 30 mm



 $[\]boldsymbol{**}$ Interupted at the seal and extending 200 mm from both faces of the seal

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Substrate	bstrate Minimum Substrate Thickness (mm)	ate Seal Size Positi				Seal	Minimum Seal	Incorporated seal	Service / Insulation	-	sistance ns.)
Substrate			Position	Depth (mm)	Service / Insulation	E	EI				
Concrete Floor	150	1600 x 700	Flush to top of floor	50	None	None	60	60			

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.

