UL-EU CERTIFICATE

Certificate No.	UL-EU-00878-A1-CPR
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Date of Issue	2015-09-16
Revision	2020-01-15
Certificate Holder	FISCHERWERKE GMBH & CO KG Klaus-Fischer-Strasse 1 72178, Waldachtal Deutschland
Manufacturer	A/009
Certified Product Type	Fire Stop - Sealant
Product Trade Name	fischer FiAM Intumescent Acoustic Mastic
Trademark	N/A
Rating/Classification	See Appendix
Harmonised Technical Specifications	ETAG 026-2 / ETAG 026-3 / EN 13501-2
Supporting Documentation	ETA 14/0378, ETA 14/0379, EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE - 1121 – CPR – JA0544
Additional information	N/A
Expiry date	2025-09-15

UL EU

UKAS PRODUCT CERTIFICATION 4705

Head of Notified Body
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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.

Appendix UL-EU CERTIFICATE

This certificate relates to the use of fischer FiAM Intumescent Acoustic Mastic Sealant for fire stopping where there are joints in or between walls & floors or service penetrations through floors and walls. The detailed scope is given in pages 3 to 9 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes for differing services and wall/floor constructions.

The product is certificated on the basis of:

i) ETA 14/0378, ETA 14/0379
ii) EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 1121 – CPR – JA0544
iii) Inspection and surveillance of factory production control by UL
iv) Fire resistance test data in accordance with EN 1366-3: 2009 and 1366-4: 2006
v) Classification in accordance with EN 13501-2
vi) Durability and Servicability as defined in ETAG 026-2 and ETAG 026-3

The movement capability of fischer FiAM Intumescent Acoustic Mastic joint seals is restricted to ≤ 7.5% unless specifically stated within the tables below

The durability class of fischer FiAM Intumescent Acoustic Mastic is Z_1 - intended for use at internal conditions with high humidity, excluding temperatures below 0°C

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Product-type: Sealant		Intended use: Linear Joint & Gap Seal/Penetration Seal
Basic requirement for construction work	Basic Requirement	Performance
BWR 1 Mechanical resistance and stability		
-	None	Not relevant
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class F
EN 13501-2	Resistance to fire	See pages 6 - 8
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)= 38 (-2;-7) 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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fischer FiAM Intumescent Acoustic Mastic: Air Permeability according to BS EN 1026				
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	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0
150	0.0	0.0	0.1	2.8
200	0.0	0.0	0.1	2.8
250	0.0	0.0	0.1	2.8
300	0.0	0.0	0.0	0.0
450	0.1	2.8	0.1	2.8
600	0.1	2.8	0.1	2.8

fischer FiAM Intumescent Acoustic Mastic: Analytical VOC Results				
Solid content % mass	**Water content, % mass**	**Exempt compounds, % mass**	**VOC less water less exempt compounds, g/l**	**VOC limit g/l**
76.8	2**	0***	350	750*

* VOC limit for other sealants
** Given by client
*** No information about exempt compounds. Set to zero.

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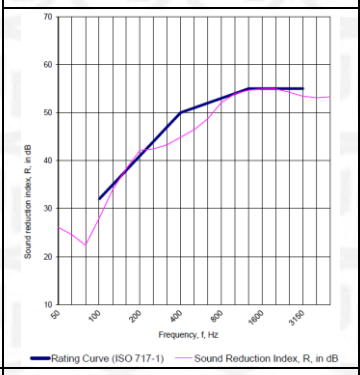
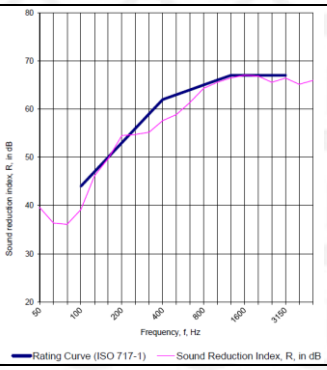
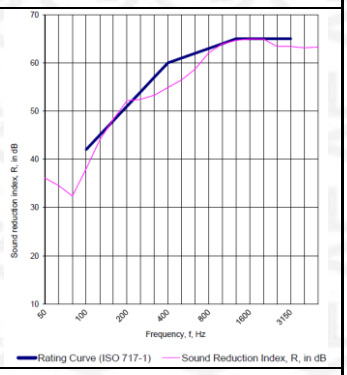
fischer FiAM Intumescent Acoustic Mastic: Acoustic performance according to BS EN ISO 10140-2:2010			
Configuration	**$R_w(C; C_{tr})$ Specimen only, 1m²**	**$R_w(C; C_{tr})$ Partition & Specimen, 14.2m²**	**D_{new} Partition & Specimen, 14.2m²**
fischer FiAM Intumescent Acoustic Mastic Sealant on source room side of wall, 15 mm deep x 60 mm wide x 2000 mm high, with 55 mm deep Stonewool (60 kg/m³)	51 (-1; -6) 	63 (-1; -7) 	61 (-1; -6) 
fischer FiAM Intumescent Acoustic Mastic Sealant on source room side of wall, 25 mm deep x 60 mm wide x 2000 mm high, with 55 mm deep Stonewool (60 kg/m³)	51 (-1; -6)	63 (-1; -7)	61 (-1; -6)

Appendix UL-EU Certificate

fischer FiAM Intumescent Acoustic Mastic – Fire Resistance Classification according to EN 13501-2

Configuration: Head of Drywall

Substrate	Minimum wall Thickness (mm)	Maximum Gap Size (mm)	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
							E	EI
Gypsum board/ concrete	120	20	Both Sides	25	Steel head track	70	120	120

Configuration: Edge of Drywall

Substrate	Minimum wall Thickness (mm)	Maximum Gap Size (mm)	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
							E	EI
Gypsum board/ concrete	120	20	Both Sides	25	Steel side track/stud	20	120	120
	120	20	Both Sides	12.5	PE backing rod	20	120	120

Configuration: Wall to Wall Joint (rigid wall)

Substrate	Minimum wall Thickness (mm)	Maximum Gap Size (mm)	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
							E	EI
Concrete/ concrete	100	20	One Side	10	PE backing rod	20	120	45
		50		25		50	120	60
Concrete/ steel		20		10		20	120	20
		50		50		50	45	30
Concrete/ softwood		20		10		20	30	20
		50		50		50	45	45

Configuration: Wall to Wall Joint (rigid wall)

Substrate	Minimum wall Thickness (mm)	Maximum Gap Size (mm)	Lateral/Shear Movement (%)		Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
									E	EI
Concrete/ concrete	150	60	8	25	Both Sides	20	PE backing rod	60	240	120
		60	12.5	25	Non Fireside	5	Stone Mineral Wool 60 kg/m^3	75	240	120

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Configuration			Floor to Floor/Wall Joint (rigid floor/wall)					
Substrate	Minimum floor Thickness (mm)	Maximum Gap Size (mm)	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
							E	EI
Concrete/ concrete	150	20	One Side	10	PE backing rod	20	240	45
		50		25		50	240	90
Concrete/ steel		20		10		20	120	20
		50		50		50	240	90
Concrete/ softwood		20		10		20	30	30
		50		50		50	45	45

Configuration			Floor to Floor/Wall Joint (rigid floor/wall)						
Substrate	Minimum wall Thickness (mm)	Maximum Gap Size (mm)	Lateral Movement	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Fire Resistance (mins.)	
								E	EI
Concrete/ concrete	150	60	16.6	Both Sides	20	PE backing rod	60	180	60
		60	25	Non Fireside	5	Stone Mineral Wool 60 kg/m^3	75	240	240

Appendix UL-EU Certificate

fischer FiAM Intumescent Acoustic Mastic: Service Penetration Seals in Drywalls and Masonry Walls

Substrate	Minimum Wall Thickness (mm)	Seal size around service(s)	Penetrating Services	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Service insulation	Fire Resistance (mins.)*	
									E	EI
Gypsum board	120	10 mm annular gap	Copper/Steel pipe 15 mm Ø, 0.8-7.4 mm wall	Both Sides	25	N/A	N/A	N/A	120	120
			Copper/Steel pipe 40 mm Ø, 0.8-14.2 mm wall						120	15
			Copper/Steel pipe 40-159 mm Ø, 1.8-14.2 mm wall						120	0
			Copper/Steel pipe 40 mm Ø, 0.8-14.2 mm wall					300 mm long fischer Thermal Defense Wrap to both sides of the seal	120	90
			Copper/Steel pipe 40-159 mm Ø, 1.8-14.2 mm wall						120	20
		490 x 100 mm	Electrical cables up to 21 mm Ø on perforated steel tray 450 x 50 mm			Stone Mineral Wool 80 kg/m^3	70	N/A	120	90
		200 x 100 mm	Electrical cables 21-50 mm Ø			N/A	N/A		90	60
Gypsum board	100	10 mm annular gap	Steel pipe 42 mm Ø, 2.8-14.2 mm wall	Both Sides	25	N/A	N/A	N/A	120	45
			Steel pipe 114 mm Ø, 3.0-14.2 mm wall						120	20
			Steel pipe 42-115 mm Ø, 3.0-14.2 mm wall						120	20
			PVCu pipe 40 mm Ø, 3.0 mm wall						120	120
		180 x 180 mm Max 50 x 50 mm Min	Electrical cables up to 80 mm Ø		20	Stone Mineral Wool 45 kg/m^3	20		90	60

*all pipe classifications are pipe end configuration C/U

Appendix UL-EU Certificate

fischer FiAM Intumescent Acoustic Mastic: Service Penetration Seals in Drywalls and Masonry Walls

Substrate	Minimum Wall Thickness (mm)	Seal size around service(s)	Penetrating Services	Seal Position	Minimum Seal Depth (mm)	Backing Material	Minimum Backing Depth (mm)	Service insulation	Fire Resistance (mins.)*	
									E	EI
Gypsum board	70	10 mm annular gap	Copper/Steel pipe 15 mm Ø, 0.7-7.5 mm wall	Both Sides	12	Stone Mineral Wool 45 kg/m^3	10	N/A	90	60
			Copper/Steel pipe 15-54 mm Ø, 1.2-7.5 mm wall						90	90
			Steel pipe 15 mm Ø, 1.0-14.2 mm wall						90	90
			Steel pipe 15-76 mm Ø, 2.0-14.2 mm wall						90	20
		25 mm Ø	1 x 'B' Cable*				50		90	60

*all pipe classifications are pipe end configuration C/U

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.

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