UL-EU CERTIFICATE

Certificate No.	UL-EU-01248-CPR
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Date of Issue	2022-06-22
Certificate Holder	FISCHERWERKE GMBH & CO KG Klaus-Fischer-Strasse 1 72178 Waldachtal, Deutschland
Manufacturer	A/008
Certified Product Type	Fire Stop – Joint Seal/Cavity Barrier
Product Trade Name	fischer FCFcl Cavity Clad
Trademark	N/A
Rating/Classification	See Appendix
Harmonised Technical Specifications	EAD 350141-00-1106 / EN 13501-2
Expiry date	2032-06-21

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.

Appendix UL-EU CERTIFICATE

This certificate relates to the use of fischer FCFcl Cavity Clad 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) Inspection and surveillance of factory production control by UL
ii) Fire resistance test data in accordance with 1366-4: 2006
iii) Classification in accordance with EN 13501-2
iv) Durability and Servicability as defined in EAD 350141-00-1106

The movement capability of fischer FCFcl Cavity Clad joint seals is restricted to ≤ 7.5%

The durability class of fischer FCFcl Cavity Clad is Y_2 - Intended for uses in internal conditions with humidity lower than 85% RH excluding temperatures below 0°C, without exposure to rain or UV.

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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 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		
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Declaration of manufacturer
EN 1026:2000	Air permeability (material property)	See page 4
EAD 350141-00-1106, Annex C & EN 12390-8	Water permeability (material property)	No performance determined
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 & EAD 350141-00-1106, Clause 2.2.13	Adhesion	No performance determined
EAD 350141-00-1106, Clause 2.2.12	Durability	Y_2
EAD 350141-00-1106, Clause 2.2.13	Movement capacity	No performance determined
EAD 350141-00-1106, Clause 2.2.14	Cycling of perimeter seals for curtain walls	No performance determined
EAD 350141-00-1106, Clause 2.2.15	Compression set	No performance determined
EAD 350141-00-1106, Clause 2.2.16	Linear expansion on setting	No performance determined
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	Dne,w= 31dB
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined

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fischer FCFcl Cavity Clad: Air Permeability according to EN 1026 fischer FCFcl Cavity Clad 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 ($m^3h^{-1}m^{-1}$)	**Leakage ($m^3h^{-1}m^{-1}$)**
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

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fischer FCFcl Cavity Clad: 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$		110	100				

* to one face only
$ additionally, each section of board supported by a single 'Z' shaped steel hangar (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

fischer FCFcl Cavity Clad: 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

fischer FCFcl Cavity Clad: 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**
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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.