UL-EU CERTIFICATE

Certificate No.
UL-EU-01278-EN

Issue date
2026-05-28

Issue No.
1

Re-Issue date
-

Expiry date
2036-05-27

This is to acknowledge that:
fischerwerke GmbH & Co. KG

Address:
Klaus-Fischer-Strasse 1,
72178 Waldachtal,
Germany

Has had the product:
fischer FCFcl Plus

evaluated and meets the requirements of the standard(s):

EAD 350141-00-1106, September 2017 / EN 13501-2

Places of production:
g/002

Authorised Signatory:

Chris Johnson
Issued by UL International (UK) Ltd

UKAS PRODUCT CERTIFICATION
4705

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

This certificate relates to the use of fischer FCFcl Plus for fire stopping where there are joints in or between floors and walls and for perimeter joint/cavity barrier seals between floor end and curtain walling. The detailed scope is given in pages 3 to 15 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes.

The product is certificated on the basis of:

i) ETA 23/0167
ii) EC Certificate of Constancy of Performance 0800-CPR-III-1171-2
iii) Inspection and surveillance of factory production control by UL
iv) Fire resistance test data in accordance with EN 1364-4: 2014 and EN 1366-4:2021
v) Classification in accordance with EN 13501-2
vi) Durability and Serviceability as defined in EAD 350141-00-1106

The durability class of fischer FCFcl Plus is Y_1 – intended for use at temperatures below 0°C with casual exposure to UV but no exposure to rain (please refer to installation instructions from manufacturer).

fischer FCFcl Plus is a 100 & 120 mm thick aluminum-clad mineral wool and is supplied as boards with dimension of 1200 mm x 1200 mm.

According to EN 13501-2: 2023, Clause 7.5.8.4, the following classification codes are defined in addition E & EI:

Test conditions	**Designation**
Specimen orientation - Horizontal supporting construction - Vertical supporting construction – vertical joint - Vertical supporting construction – horizontal joint	 H V T
Movement capability - No movement - Movement induced lateral (in%) - Movement induced lateral (in%)	 X $M_{lat}000$ $M_{shear}000$
Type of splices - Manufactured - Field - Both manufactured and field	 M F B
Joint widths range (in mm)	W w1 to w2
e.g. EI 30 – H – $M_{lat}30$ – B – W 30 to W 90	

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Product-type: Stone wool		Intended use: Linear joint seal
Basic requirement for construction work	Essential characteristic	Performance
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class A1
EN 13501-2	Resistance to fire	See pages 5-15
BWR 3 Hygiene, health and environment		
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Use categories: IA1 Declaration of manufacturer VOC / SVOC: See page 4
EN 1026:2000	Air permeability (material property)	No performance determined
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_1
EAD 350141-00-1106, Clause 2.2.13	Movement capacity	See cycling of perimeter seals for curtain walls
EAD 350141-00-1106, Clause 2.2.14	Cycling of perimeter seals for curtain walls	See pages 14-15
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	See page 4
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

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Content, emission and/or release of dangerous substances The release of semi-volatile organic compounds (SVOC) and volatile organic compounds (VOC) has been determined according to EAD 350141-00-1106 and EN 16516:2017+A1:2020. The loading factor used for emission testing was 1.0 m^2/m^3.		
Total emission of SVOC after 3 days / 28 days [mg/m^3]	Total emission of VOC after 3 days [mg/m^3]	Total emission of VOC after 28 days [mg/m^3]
None determined	< 0.005	< 0.005

Acoustic performance according to EN ISO 10140-2 / EN ISO 717-1	
Configuration	**Rated sound reduction index**
120 mm fischer FCFcl Plus installed flush with both surfaces of 120 mm thick test assembly.	Rw (C; Ctr) = 27 (-0; -3) dB

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

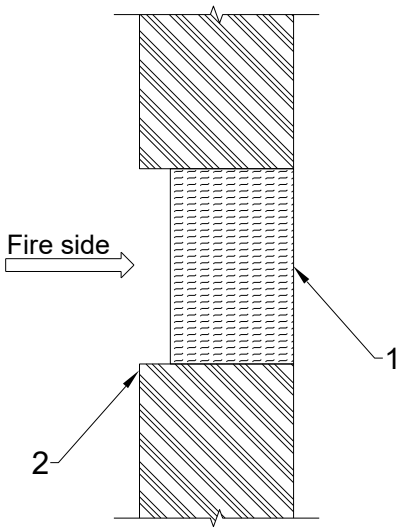
Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Rigid wall constructions with wall thickness of minimum 150 mm

Single sided horizontal linear joint seal, installed in wall, without brackets

Joint Seal: fischer FCFcl Plus compressed and installed friction-fit flush with unexposed side of wall.

Construction details:



Key:

1. fischer FCFcl Plus
2. Wall (≥150 mm)

Substrate	Joint width	Brackets	Compres-sion	Product	Classification
Rigid wall (≥650 kg/m³)	≤150 mm	Not required	≥25 %	fischer FCFcl Plus 120	EI 120 – T – X – F – W 5 to W 150

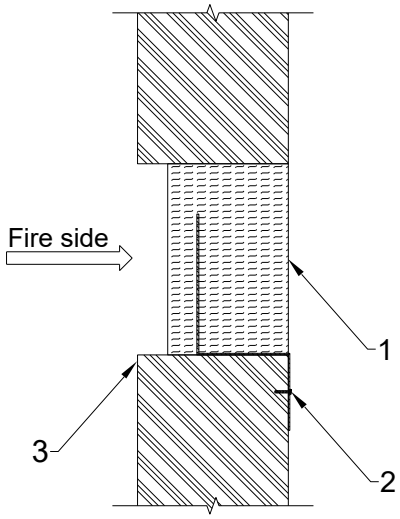
UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Single sided horizontal linear joint seal, installed in wall, with brackets

Joint Seal*: fischer FCFcl Plus compressed and installed with steel fischer Universal Bracket FiUB flush with unexposed side of wall.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)
3. Wall (≥150 mm)

Substrate	Joint width	Brackets	Compres-sion	Product	Classification
Rigid wall (≥650 kg/m³)	≤150 mm	a)	≥10 %	fischer FCFcl Plus 120	E 120 – T – X – F – W 5 to W 150 EI 90 – T – X – F – W 5 to W 150
Rigid wall (≥2400 kg/m³)	≤200 mm	b)	≥20 %	fischer FCFcl Plus 120	E 240 – T – X – F – W 5 to W 200 EI 180 – T – X – F – W 5 to W 200
	≤400 mm				E 240 – T – X – F – W 5 to W 400 EI 60 – T – X – F – W 5 to W 400

* Splices to be covered with 100 mm wide aluminum tape on both sides.

a) Min. 2 fischer FiUB per section of board and to be spaced max 300 mm on center. fischer FiUB inserted at 90 mm from the non-fire side of fischer FCFcl Plus and protruding ¾ width of joint opening.

b) Min. 2 fischer FiUB per section of board and to be spaced max 600 mm on center. fischer FiUB inserted at 90 mm from the non-fire side of fischer FCFcl Plus and protruding ¾ width of joint opening.

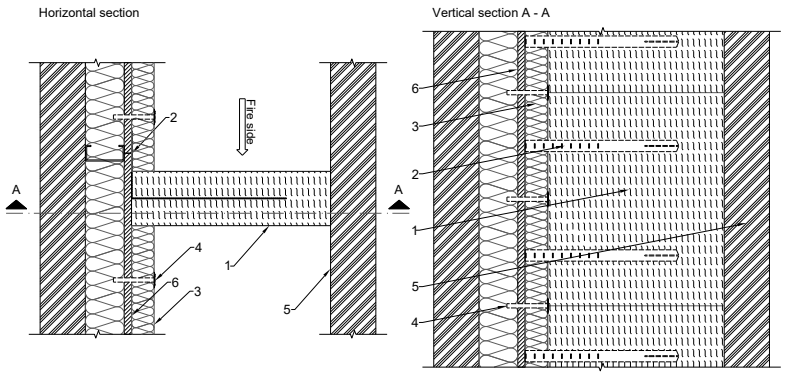
UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Vertical linear joint seal (cavity barrier), installed between rigid and flexible walls, with brackets

Joint Seal*: fischer FCFcl Plus installed with steel fischer Universal Bracket FiUB in the cavity of the wall, without compression.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)
3. Insulation[b)]
4. fischer insulation support DHM[c)]
5. Wall (≥150 mm)
6. Flexible wall[a)]

Substrate	Joint width	Brackets	Product	Classification
Flexible wall / Rigid wall (ρ ≥650 kg/m³)	≤450 mm	Min. 2 fischer FiUB per section of board and to be spaced max 600 mm on center. fischer FiUB are inserted in the middle of the fischer FCFcl Plus and protruding ¾ width of joint opening.	fischer FCFcl Plus 100	E 120 – V – X – F – W 5 to W 450 EI 30 – V – X – F – W 5 to W 450
			fischer FCFcl Plus 120	E 120 – V – X – F – W 5 to W 450 EI 60 – V – X – F – W 5 to W 450

* - Splices to be covered with 150 mm wide aluminum tape on both sides. Long edge of fischer FCFcl Plus on non-bracket side to be protected with 150 mm wide aluminium tape overlapping min. 15 mm onto front faces of fischer FCFcl Plus.

- Minor irregularities (≤ 5 mm) to be sealed with fischer FiAM Plus to a depth of 10 mm on each side of floor.

a) The flexible wall is to be constructed as follows:
- for the fischer FCFcl Plus 100 System: 1 Layer Knauf AQUAPANEL® Cement Board Outdoor 12.5 mm, C & U profile 50 mm wide, Rockwool Termarock 40 insulation (40 mm; 40 kg/m^3).
- for the fischer FCFcl Plus 120 System: 1 Layer Knauf Piano GKF 12.5 mm, C & U profile 50 mm wide, Rockwool Termarock 40 insulation (40 mm thick; 40 kg/m^3).

b) Insulation: Rockwool Fixrock 035 (≥80 mm thick, 45 kg/m³).

c) fischer insulation support DHM have the following specifications: fischer insulation support DHM 100 A2 (dimensions: 140 mm long, 8 mm drill diameter & 35 mm disc diameter), material (stainless steel grade A2) to be used with the DTM 70/10 disc to fix the Rockwool Fixrock 035 insulation panel in accordance with the manufacturer's installation instructions.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

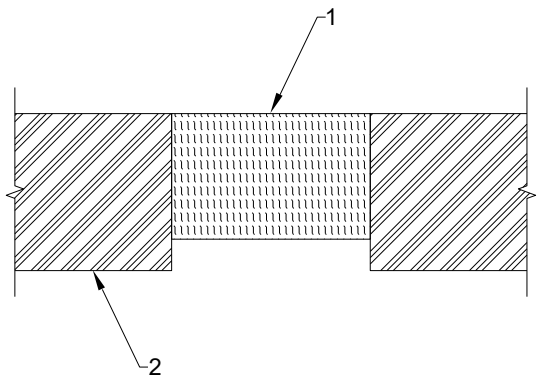
Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Rigid floor constructions with floor thickness of minimum 150 mm

Single sided linear joint seal in floor installed on top side, without brackets

Joint Seal: fischer FCFcl Plus compressed and installed friction-fit flush with top surface of floor.

Construction details:



Key:

1. fischer FCFcl Plus
2. Floor (≥150 mm)

Substrate	Joint width	Brackets	Compres-sion	Product	Classification
Rigid floor (ρ ≥650 kg/m³)	≤150 mm	Not required	≥25 %	fischer FCFcl Plus 120	EI 120 – H – X – F – W 5 to W 150

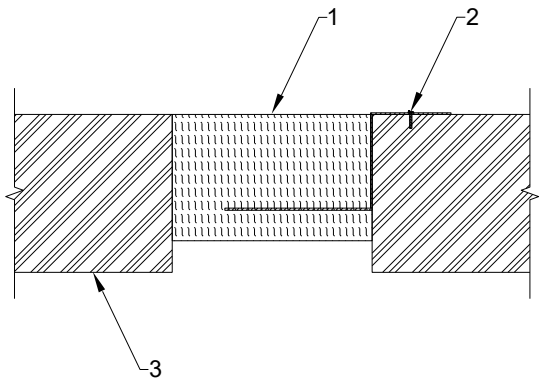
UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Single sided linear joint seal in floor installed on top side, with brackets

Joint Seal*: fischer FCFcl Plus compressed and installed with steel fischer Universal Bracket FiUB flush with top surface of the floor.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)
3. Floor ≥150 mm

Substrate	Joint width	Brackets	Compres-sion	Product	Classification
Rigid floor (ρ ≥650 kg/m³)	≤150 mm	a)	≥10 %	fischer FCFcl Plus 120	E 120 – H – X – F – W 5 to W 150 EI 90 – H – X – F – W 5 to W 150
Rigid floor (ρ ≥2400 kg/m³)	≤200 mm	b)	≥20 %	fischer FCFcl Plus 120	E 240 – H – X – F – W 5 to W 200 EI 180 – H – X – F – W 5 to W 200
	≤400 mm				E 240 – H – X – F – W 5 to W 400 EI 60 – H – X – F – W 5 to W 400

* Splices to be covered with 100 mm wide aluminum tape on both sides.

a) Min. 2 fischer FiUB per section of board and to be spaced max 300 mm on center. fischer FiUB inserted at 90 mm from top side of fischer FCFcl Plus and protruding ¾ width of joint opening.

b) Min. 2 fischer FiUB per section of board and to be spaced max 600 mm on center. fischer FiUB inserted at 90 mm from top side of fischer FCFcl Plus and protruding ¾ width of joint opening.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

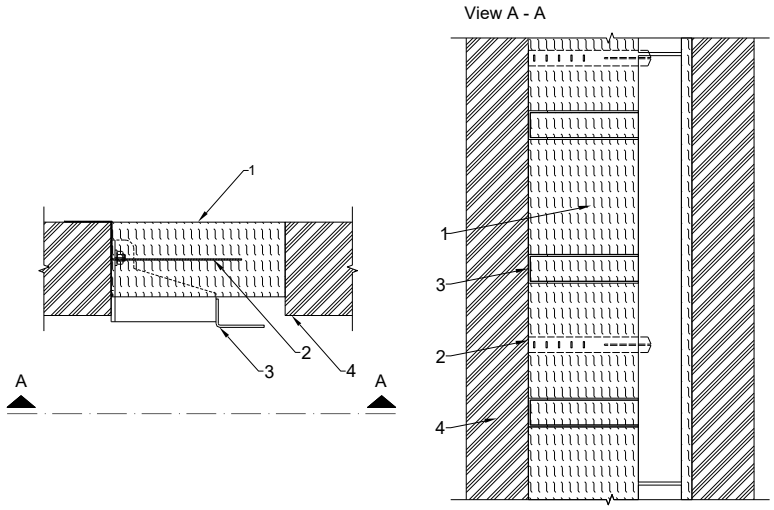
Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Rigid floor constructions with floor thickness of minimum 200 mm

Single sided linear joint seal, installed in floor on top side, with Ancon Masonry Support Systems

Joint Seal*: fischer FCFcl Plus installed with steel fischer Universal Bracket FiUB flush with top surface of the floor, without compression. The fischer FCFcl Plus is notched around an Ancon MDC bracket angle support system.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)
3. Masonry support bracket[a)]
4. Floor (≥200 mm)

Substrate	Joint width	Brackets	Product	Classification
Rigid floor (≥2400 kg/m³)	≤350 mm	Min. 2 fischer FiUB per section of board and to be spaced max 600 mm on center. fischer FiUB inserted at mid-thickness of fischer FCFcl Plus and protruding ¾ width of joint opening.	fischer FCFcl Plus 120	E 120 – H – X – F – W 230 to W 350 EI 45 – H – X – F – W 230 to W 350

* - Splices to be covered with 100 mm wide aluminum tape on the top side. Long edge of fischer FCFcl Plus 120 on non-bracket side to be protected with 150 mm wide aluminum tape overlapping 15 mm onto front faces of fischer FCFcl Plus 120.

- Minor irregularities (≤ 5 mm) to be sealed with fischer FiAM Plus to a depth of 10 mm on each side of floor.

a) Ancon MDC masonry support bracket made of 3 mm thick stainless steel, 50 mm wide, 230 mm long, 177 mm high and fixed to the concrete at 300 mm c/c along the opening and welded to a 4 mm thick 90x50 mm stainless steel L-profile. Gap from top of bracket angle support system to top of floor to be 30 mm.

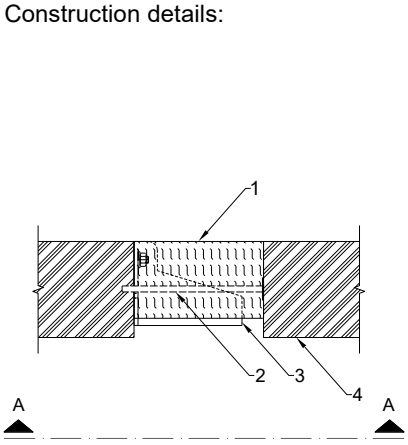
UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

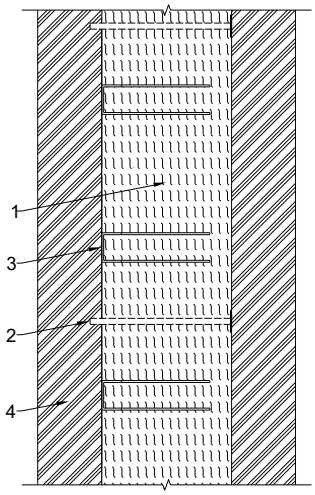
Single sided linear joint seal, installed in floor on top side, with Ancon Masonry Support Systems

Joint Seal*: fischer FCFcl Plus installed with fischer insulation support DHM flush with top surface of the floor, without compression. The fischer FCFcl Plus is notched around an Ancon MDC bracket support system.

Construction details:



View A - A



Key:

1. fischer FCFcl Plus
2. fischer insulation support DHM[b)]
3. Masonry support bracket[a)]
4. Floor (≥200 mm)

Substrate	Joint width	Brackets	Product	Classification
Rigid floor (≥2400 kg/m³)	≤270 mm	Min. 2 fischer insulation support DHM per section of board and to be spaced max 600 mm on center. fischer insulation support DHM are inserted at mid-thickness of fischer FCFcl Plus and fixed into concrete.	fischer FCFcl Plus 120	E 120 – H – X – F – W 230 to W 270 EI 90 – H – X – F – W 230 to W 270

* - Splices to be covered with 100 mm wide aluminum tape on the top side. Long edge of fischer FCFcl Plus 120 on non-bracket side to be protected with 150 mm wide aluminum tape overlapping 15 mm onto front faces of fischer FCFcl Plus 120.

- Minor irregularities (≤ 5 mm) to be sealed with fischer FiAM Plus to a depth of 10 mm on each side of floor.

a) Ancon MDC masonry support bracket made of 4 mm stainless steel, 60 mm wide x 230 mm long x 177 mm high and fixed to the concrete at 300 mm c/c along the opening flush to top surface of floor. Aluminium foil tape applied on the top surface of the barrier where support brackets penetrated.

b) fischer insulation support DHM have the following specification fischer insulation support DHM 260 A2 (dimensions: 300 mm long, 8 mm drill diameter & 35 mm disc diameter), material (stainless steel grade A2) which is installed every 600 mm at mid-thickness of fischer FCFcl Plus.

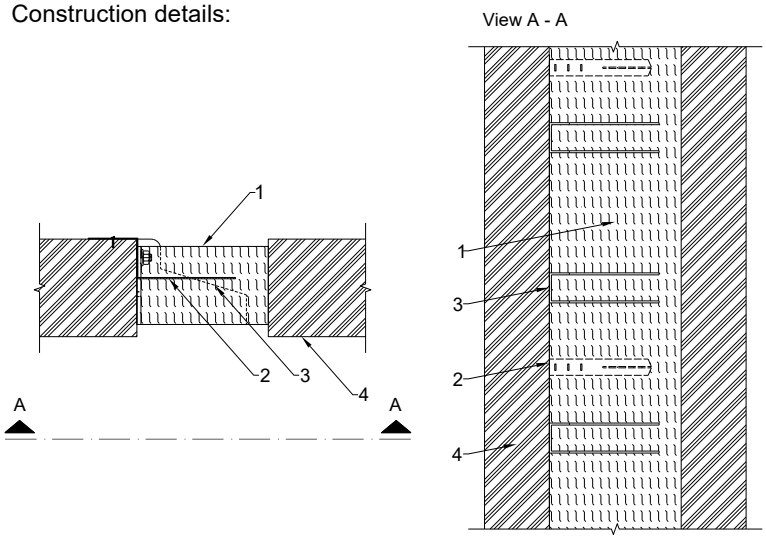
UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Single sided linear joint seal, installed in floor on top side, with IG's Welded Masonry Support

Joint Seal*: fischer FCFcl Plus installed with steel fischer Universal Bracket FiUB in the floor, without compression. The fischer FCFcl Plus is notched around an IG masonry support system and installed flushed to bottom side of bracket.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)
3. Masonry support bracket[a)]
4. Floor (≥200 mm)

Substrate	Joint width	Brackets	Product	Classification
Rigid floor (≥2400 kg/m³)	≤300 mm	Min. 2 fischer FiUB per section of board and to be spaced max 600 mm on center. fischer FiUB inserted at mid-thickness of fischer FCFcl Plus and protruding ¾ width of joint opening.	fischer FCFcl Plus 120	E 120 – H – X – F – W 234 to W 300 EI 45 – H – X – F – W 234 to W 300

* - Splices to be covered with 100 mm wide aluminum tape on the top side. Long edge of fischer FCFcl Plus 120 on non-bracket side protected with 150 mm wide aluminum tape overlapping 15 mm onto front faces of fischer FCFcl Plus 120.

- Minor irregularities (≤ 5 mm) to be sealed with fischer FiAM Plus to a depth of 10 mm on each side of floor.

a) IG WMS masonry support bracket made of 4 mm thick stainless steel, 65 mm wide x 234 mm long x 170 mm high and fixed to the concrete at 300 mm c/c along the opening flush to top side of floor.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

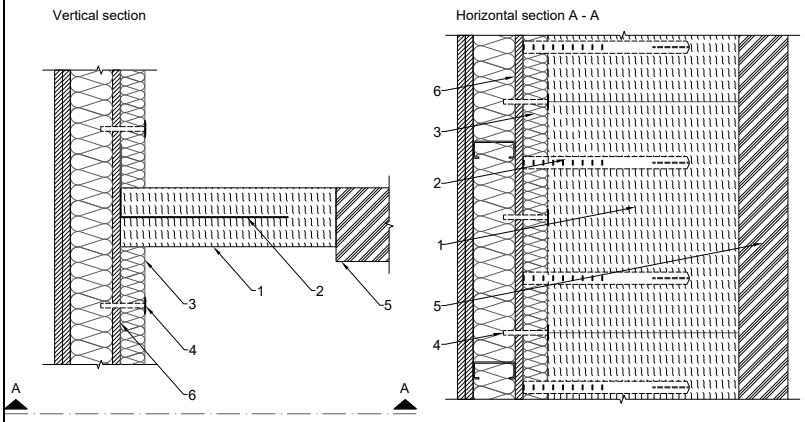
Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Non-standard flexible wall abutting rigid floor with floor thickness of minimum 200 mm

Linear joint seal (cavity barrier), installed in floor on top side

Joint Seal*: fischer FCFcl Plus installed with steel fischer Universal Bracket FiUB fixed to the flexible wall, flush with top surface of the floor, without compression.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)
3. Insulation[b)]
4. fischer insulation support DHM[c)]
5. Floor (≥200 mm)
6. Flexible wall[a)]

Substrate	Joint width	Brackets	Product	Classification
Flexible wall/ Rigid floor (≥2400 kg/m³)	≤300 mm	Min. 3 fischer FiUB per section of board and to be spaced max 400 mm on center. fischer FiUB inserted at mid-thickness of fischer FCFcl Plus and protruding ¾ width of joint opening.	fischer FCFcl Plus 120	E 120 – H – X – F – W 5 to W 300 EI 90 – H – X – F – W 5 to W 300

* - Splices to be covered with 100 mm wide aluminum tape on the top side. Long edge of fischer FCFcl Plus 120 on non-bracket side protected with 150 mm wide aluminum tape overlapping 15 mm onto front faces of fischer FCFcl Plus 120.

- Minor irregularities (≤ 5 mm) to be sealed with fischer FiAM Plus to a depth of 10 mm on each side of floor.

a) The flexible wall is to be constructed as follows:
- 1 layer of Knauf Piano GKF 12.5mm (facing the joint seal), C & U profile 50 mm, Rockwool Termarock 40 insulation (40 mm; 40 kg/m³), 2 layers of Knauf Piano GKF 12.5 mm (on outside face of joint seal).

b) Insulation: Rockwool Fixrock 035, thickness ≥80 mm, density: 45 kg/m³.

c) fischer insulation support DHM have the following specification fischer insulation support DHM 100 A2 (dimensions: 140 mm long, 8 mm drill diameter & 35 mm disc diameter), material (stainless steel grade A2) to be used with the DTM 70/10 disc to fix the Rockwool Fixrock 035 insulation panel in accordance with the manufacturer's installation instructions.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

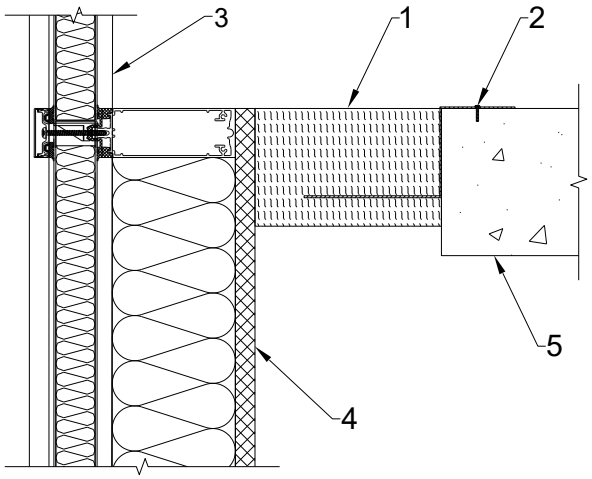
Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Non-fire rated curtain wall façade abutting rigid floor with floor thickness of minimum 150 mm

Single sided perimeter seal in floor, installed on top side

Perimeter Seal: fischer FCFcl Plus installed with steel fischer Universal Bracket FiUB flush with top surface of the floor, with compression.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)[a)]
3. Curtain wall façade[c)]
4. Spandrel area[d)]
5. Floor (≥150 mm)

Substrate	Joint width	Movement capability[b)]	Compres-sion	Product	Classification
Curtain wall[c)]/ Rigid floor (≥2400 kg/m³)	≤250 mm	±5 %	≥18 %	fischer FCFcl Plus 120	E 120 – H – M_{lat}5 – F – W 5 to W 250 EI 60 – H – M_{lat}5 – F – W 5 to W 250

a) Min. 2 fischer FiUB per section of board and to be spaced max 600 mm on center. fischer FiUB inserted at 90 mm from top side of fischer FCFcl Plus and protruding ¾ width of perimeter seal opening.

b) movement per EAD 350141-00-1106 with 500 cycles at a rate of 30 cycles per minute compression and extension.

c) Curtain walls with aluminium framing made of transoms and mullions (profile 125 x 50, article no. 110020 as per ETA-21/0387) with a maximum width of 983 mm on centre between the mullions.

d) Mineral wool protection of spandrel area: Infill between mullions and transoms with stone wool (PAROC Pro Slab WR450; ρ ≥ 60 kg/ m³) backed with 50 mm thick stone wool board (PAROC Pro Slab 150; ρ ≥ 150 kg/m³).

Perimeter seal installation specifics:
fischer FCFcl Plus is installed between mineral wool boards of spandrel area and concrete floor flush to the top surface of floor and transom with min. 18% compression. Splice distance ≥ 1000 mm. The L-brackets (50 mm wide) of the façade system are fixed to each mullion above splice location of perimeter seal.

Spandrel height: ≤ 1000 mm. Test results cover smaller panel width and height.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

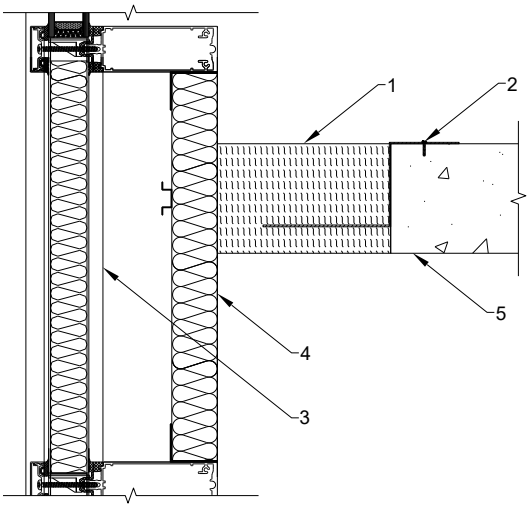
Appendix UL-EU CERTIFICATE UL-EU-01278-EN

Non-fire rated curtain wall façade abutting rigid floor with floor thickness of minimum 120 mm

Single sided perimeter seal in floor installed on top side

Perimeter Seal: fischer FCFcl Plus installed with steel fischer Universal Bracket FiUB flush with top surface of the floor, with compression.

Construction details:



Key:

1. fischer FCFcl Plus
2. fischer FiUB (1.2 mm)[a)]
3. Curtain wall façade[c)]
4. Spandrel area[d)]
5. Floor (≥120 mm)

Substrate	Joint width	Movement capability[b)]	Compres-sion	Product	Classification
Curtain wall[c)] / Rigid floor (ρ ≥2400 kg/m³)	≤250 mm	±5 %	≥18 %	fischer FCFcl Plus 120	E 120 – H – M_{lat}5 – F – W 5 to W 250 EI 60 – H – M_{lat}5 – F – W 5 to W 250

a) Min. 2 fischer FiUB per section of board and to be spaced max 600 mm on center. fischer FiUB inserted at 90 mm from top side of fischer FCFcl Plus and protruding ¾ width of perimeter seal opening

b) Movement per EAD 350141-00-1106 with 500 cycles at a rate of 30 cycles per minute compression and extension

c) Curtain walls with aluminium framing made of transoms and mullions (profile 125 x 50, article no. 110020 as per ETA-21/0387) with a maximum width of 983 mm on centre between the mullions.

d) Mineral wool protection of spandrel area: A 0.6 mm thick steel L-bracket is installed around the mullions and transoms, set back by the thickness of the insulation. The 0.6 mm thick hat-shaped steel profile is installed at the mid-height of fischer FCFcl Plus 120 to strengthen the insulation panels between the mullions. Rockwool Curtainrock 80, ρ ≥ 105 kg/m³ and min. 50 mm thickness is installed between the mullions and transoms.
Additionally, in the part of the spandrel area, covers made of Rockwool Curtainrock 80, ρ ≥ 105 kg/m³ and min. 50 mm thickness are required covering the entire width of the mullions and transoms overlapping onto the spandrel insulation by min. 50 mm.

Perimeter seal installation specifics:
fischer FCFcl Plus is installed between mineral wool boards of spandrel area and concrete floor flush to the top surface of floor and transom with min. 18% compression. Splice distance ≥ 1000 mm. The L-brackets (50 mm wide) of the façade system are fixed to each mullion above splice location of perimeter seal.

Spandrel height: ≤ 1000 mm. Test results cover smaller panel width and height.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom

Appendix UL-EU CERTIFICATE UL-EU-01278-EN

The UL-EU Marks, displayed below represent the enhanced and alternate version of the product marking. Either Mark can be used. These Marks shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.

*Note: E12345 is an example of the UL file number.

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 and UL File 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.

UL International (UK) Limited
Unit 1-4 Horizon, Kingsland Business Park, Wade Rd.,
Basingstoke. RG24 8AH United Kingdom