

# UL-EU CERTIFICATE

**Certificate No.** UL-EU-00866-A1-CPR  
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**Date of Issue** 2015-09-17  
**Revision** 2020-01-15

**Certificate Holder** FISCHERWERKE GMBH & CO KG  
Klaus-Fischer-Strasse 1  
72178, Waldachtal  
Deutschland

**Manufacturer** A/008

**Certified Product Type** Fire Stop – Coated Board  
**Product Trade Name** fischer FCPS Coated Panel System  
**Trademark** N/A  
**Rating/Classification** See Appendix

**Harmonised Technical Specifications** ETAG 026-2 / EN 13501-2 / EN 13501-3  
**Expiry date** 2025-09-16



A handwritten signature in purple ink, appearing to read 'Chris Miles'.

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of fischer FCPS Coated Panel System for fire stopping where services penetrate floors and walls. The detailed scope is given in pages 3 to 21 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 & EN 1366-1: 2000
- iii) Classification in accordance with EN 13501-2 & EN 13501-3
- iv) Durability and Servicability as defined in ETAG 026-2

The durability class of fischer FCPS Coated Panel System is Z<sub>1</sub> - intended for use at internal conditions with high humidity, excluding temperatures below 0°C

VOC test report – Indoor Air Comfort GOLD® referenced – eurofins 392-2017-00008801\_A\_EN, is also available.

Fire resisting ducts penetrating the fischer FCPS Coated Panel System shall be classified (EN13501-3) for the required performance period, in addition to the details given on page 21.



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Product-type: Coated board		Intended use: Penetration Seal
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
<b>BWR 1 Mechanical resistance and stability</b>		
-	None	-
<b>BWR 2 Safety in case of fire</b>		
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	See page 7
<b>BWR 3 Hygiene, health and environment</b>		
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
<b>BWR 4 Safety in use</b>		
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
<b>BWR 5 Protection against noise</b>		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	R <sub>w</sub> (C;C <sub>tr</sub> )= 24(-2;-3) and See pages 5&6
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined
<b>BWR 6 Energy economy and heat retention</b>		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
<b>General aspects relating to fitness for use</b>		
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Z <sub>i</sub>
<b>BWR 7 Sustainable use of natural resources</b>		
-	-	No performance determined



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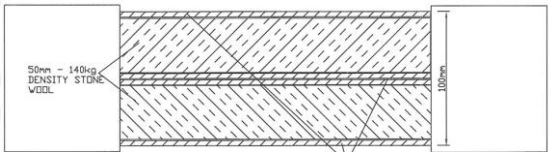
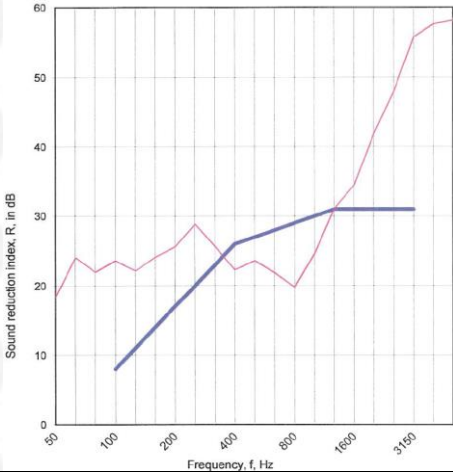
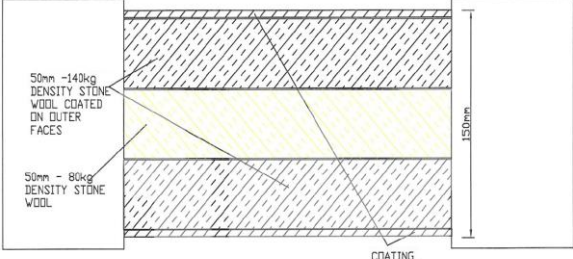
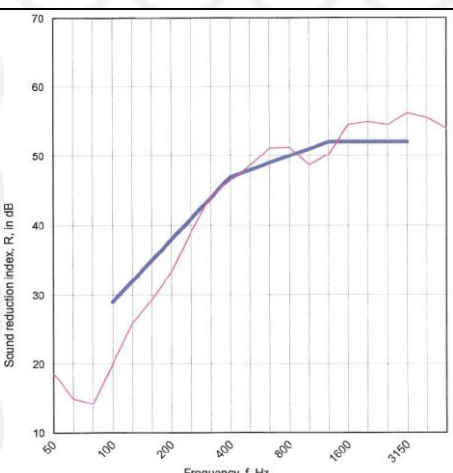
## fischer FCPS Coated Panel System : Air Permeability according to BS EN 1026

Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressure	
	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> / h)	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> / 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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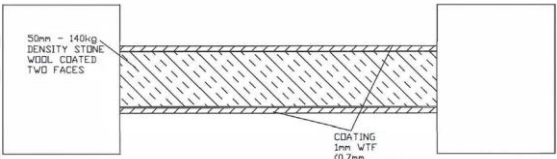
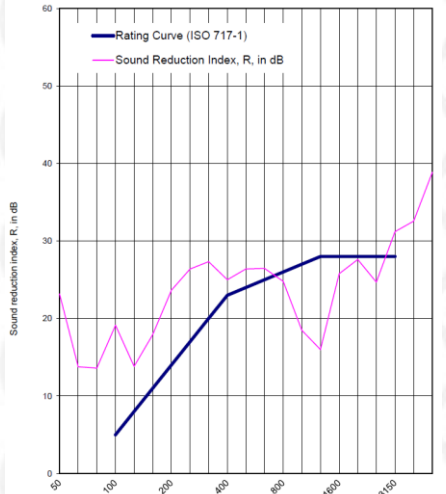
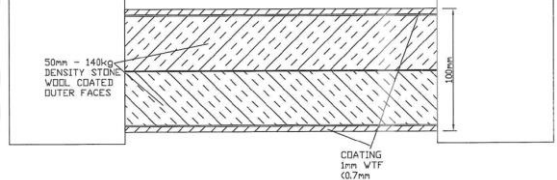
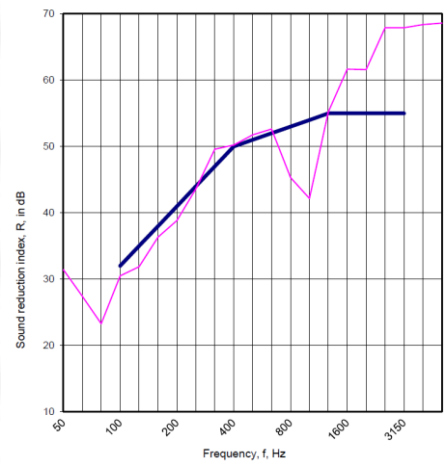
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fischer FCPS Coated Panel System : Acoustic performance according to BS EN ISO 10140-2:2010		
Configuration	$R_w(C; C_{tr})$ Specimen only, 1 m <sup>2</sup>	$D_{new}$ Partition & Specimen, 14.2 m <sup>2</sup>
 <p>50mm - 140kg DENSITY STONE WOOL</p> <p>COATING 1mm WTF (0.7mm DFT)</p> <p>100mm</p>	<p>27 (0; -2)</p>  <p>Sound reduction index, R, in dB</p> <p>Frequency, f, Hz</p>	<p>37 (0; -2)</p>
 <p>50mm - 140kg DENSITY STONE WOOL COATED ON OUTER FACES</p> <p>50mm - 80kg DENSITY STONE WOOL</p> <p>COATING 1mm WTF (0.7mm DFT)</p> <p>130mm</p>	<p>48 (-3; 16)</p>  <p>Sound reduction index, R, in dB</p> <p>Frequency, f, Hz</p>	<p>58 (-3; 16)</p>



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fischer FCPS Coated Panel System : Acoustic performance according to BS EN ISO 10140-2:2010		
Configuration	$R_w(C; C_{tr})$ Specimen only, 1 m <sup>2</sup>	$D_{new}$ Partition & Specimen, 14.2 m <sup>2</sup>
	<p>24 (-2; -3)</p> 	35 (-2; -4)
	<p>41 (-2; -7)</p> 	51 (-2; -7)



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation**	Fire Resistance (mins.)	
							E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Central	100*	15 mm deep by 15 mm wide annulus fischer FiGM Intumescent Graphite Mastic to both faces of the batt seal	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/m <sup>3</sup> )	90	60
						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/m <sup>3</sup> )	60	60
						Steel pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	90	60
						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 <sup>3</sup> )	60	60
		None			Electrical cables up to 21 mm diameter	60	60	
					Electrical cables 22-80 mm diameter	60	45	
					Steel cable trays and ladders	60	60	
					Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter	60	60	
	Unsheathed electrical cables up to 17 mm diameter		60	30				
	Unsheathed electrical cables 18-24 mm diameter		60	15				
	600 high x 600 wide	Steel or Copper conduits up to 16 mm diameter	60	15				
		Plastic conduits up to 16 mm diameter	60	60				
						Steel or Copper pipe 42-159 mm diameter and 1.2 – 14.2 mm wall thickness / 25 mm thick foil faced glass wool insulation (min 30 kg/m <sup>3</sup> )	120	45
						Steel or Copper pipe 42 mm diameter and 1.0 – 14.2 mm wall thickness / 25 mm thick foil faced glass wool insulation (min 30 kg/m <sup>3</sup> )	120	60

\* Two layers of 50 mm batt

\*\* Continuous through seal and full length of the pipe



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation** Min. 0mm between services and 50mm to seal edge	Fire Resistance (mins.)	
							E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Central	100*	None	Steel or Copper pipe 42-159 mm diameter and 1.2 – 14.2 mm wall thickness / 40 mm thick foil faced stone wool insulation (min 40 kg/m <sup>3</sup> )	45	45
						Steel 42 - 324 mm diameter and 16 mm wall thickness / 40 mm thick foil faced stone wool insulation (min 40 kg/m <sup>3</sup> )	45	45
						Steel or Copper pipe 42-159 mm diameter and 1.2 – 14.2 mm wall thickness / 2 mm DFT fischer Panel Coating FPC	120	45
						Steel pipe 42-324 mm diameter and 14.2 mm wall thickness / 2 mm DFT fischer Panel Coating FPC	120	45
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation*** Min. 0mm between services and 50mm to seal edge	Fire Resistance (mins.)	
							E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 750 wide	Central	100*	None	Steel or Copper pipe 42-159 mm diameter and 1.2 – 14.2 mm wall thickness / 13-25 mm thick K Flex ST insulation	120	60
						Steel or Copper pipe 42 mm diameter and 1.0 – 14.2 mm wall thickness / 13-25 mm thick K Flex ST insulation	120	90
						Steel or Copper pipe 42-108 mm diameter and 1.2 – 14.2 mm wall thickness / 25-40 mm thick Kingspan Kooltherm FM insulation	120	60
						Steel or Copper pipe 42 mm diameter and 1.0 – 14.2 mm wall thickness / 25-40 mm thick Kingspan Kooltherm FM insulation	120	90
						Steel or Copper pipe 42 mm diameter and 1.2 – 14.2 mm wall thickness / 50 mm thick glass fibre insulation	120	90

\* Two layers of 50 mm batt

\*\* Continuous through the seal and full length of the pipe





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

\* Two layers of 50 mm batt

\*\* Interrupted at the seal and extending 200 mm from both faces of the seal

\*\*\* Interrupted at the seal and full length of the pipe



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation***	Fire Resistance (mins.)	
							E	EI
Drywall/ Masonry/ Concrete Wall	100	1200 high x 750 wide	Pattress**, single layer to each face	200**	None	Electrical cables up to 80 mm diameter insulated with P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
						Steel cable trays and ladders insulated with P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>		
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>		
						Unsheathed electrical cables up to 24 mm diameter insulated with P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>		
						Plastic Conduits up to 16 mm diameter insulated with P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>		

\*\* Two layers of 50 mm batt separated by minimum 100 mm

\*\*\* Interrupted at the seal and extending 300 mm from both faces of the seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Collar ref.	PVC Pipe**	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Flush to both faces of wall	100*	fischer FFC Firestop Collar Ref secured to both faces with 80 mm steel pig tail screw	32 mm	32 mm Ø / 1.8 mm wall	120	120
						40 mm	40 mm Ø / 1.8 mm wall		
						50 mm	50 mm Ø / 1.8 mm wall		
						55 mm	55 mm Ø / 1.8-2.3 mm wall		
						63 mm	63 mm Ø / 2.3-3 mm wall		
						75 mm	75 mm Ø / 3.1-4.8 mm wall		
						82 mm	82 mm Ø / 3.1-4.8 mm wall		
						90 mm	90 mm Ø / 4.2-7.4 mm wall		
						100 mm	100 mm Ø / 4.2-7.4 mm wall		
						110 mm	110 mm Ø / 4.2-7.4 mm wall		
						125 mm	125 mm Ø / 6 mm wall		
						140 mm	140 mm Ø / 6.1-7.5 mm wall		
160 mm	160 mm Ø / 6.2-9.5 mm wall								
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Collar ref.	PP Pipe**	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Flush to both faces of wall	100*	fischer FFC Firestop Collar Ref secured to both faces with 80 mm steel pig tail screw	32 mm	32 mm Ø / 2.9 mm wall	120	120
						40 mm	40 mm Ø / 2.9 mm wall		
						50 mm	50 mm Ø / 2.9 mm wall		
						55 mm	55 mm Ø / 2.9-4.4 mm wall		
						63 mm	63 mm Ø / 2.9-4.4 mm wall		
						75 mm	75 mm Ø / 2.8-6.7 mm wall		
						82 mm	82 mm Ø / 2.8-6.7 mm wall		
						90 mm	90 mm Ø / 2.7-10 mm wall		
						100 mm	100 mm Ø / 2.7-10 mm wall		
						110 mm	110 mm Ø / 4.2-7.4 mm wall		
						125 mm	125 mm Ø / 3.1 mm wall		
						140 mm	140 mm Ø / 3.5-8 mm wall		
160 mm	160 mm Ø / 4-14.6 mm wall								

\* Two layers of 50 mm batt

\*\* Minimum distance between services 0 mm and 50 mm to edges of seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Collar ref.	PE Pipe**	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Flush to both faces of wall	100*	fischer FFC Firestop Collar Ref secured to both faces with 80 mm steel pig tail screw	32 mm	32 mm Ø / 2.9 mm wall	120	120
						40 mm	40 mm Ø / 2.9 mm wall		
						50 mm	50 mm Ø / 2.9 mm wall		
						55 mm	55 mm Ø / 2.9-4.4 mm wall		
						63 mm	63 mm Ø / 2.9-4.4 mm wall		
						75 mm	75 mm Ø / 2.8-6.7 mm wall		
						82 mm	82 mm Ø / 2.8-6.7 mm wall		
						90 mm	90 mm Ø / 2.7-10 mm wall		
						100 mm	100 mm Ø / 2.7-10 mm wall		
						110 mm	110 mm Ø / 4.2-7.4 mm wall		
						125 mm	125 mm Ø / 3.1 mm wall		
140 mm	140 mm Ø / 3.5-5.8 mm wall								
160 mm	160 mm Ø / 4.9-9.5 mm wall								
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Uponor MLC (Multi-layer Composite) Pipe	Fire Resistance (mins.)		
							E	EI	
Masonry/ Concrete wall	150	1100 high x 750 wide	Central, back to back	100*	fischer FiGM Intumescent Graphite Mastic, 20 mm annulus and full depth of the fischer FCPS Coated Panel System seal	40 mm Ø / 4 mm wall	120	120	
						50 mm Ø / 4.5 mm wall			
						63 mm Ø / 6 mm wall			
						75 mm Ø / 7.5 mm wall			
						90 mm Ø / 8.5 mm wall			
110 mm Ø 10 mm wall									

\* Two layers of 50 mm batt / 100mm separation  
 \*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Wrap ref.	Insulated*** PVC Pipe****	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Flush to both faces of wall	100*	fischer FIPW-E / 2mm secured internally within both faces of fischer FCPS Coated Panel System	3x2 mm	40 mm Ø / 1.9 mm wall with 25 mm Kingspan Kooltherm FM	120	90
							40 mm Ø / 3 mm wall with 15 mm Kingspan Kooltherm FM	120	90
							110 mm Ø / 4.2 mm wall with 25 mm Kingspan Kooltherm FM	120	120
							110 mm Ø / 6.6 mm wall with 20 mm Kingspan Kooltherm FM	120	90
							40 mm Ø / 1.9 mm wall with 32 mm Armaflex Class O	120	90
							40 mm Ø / 3 mm wall with 9 mm Armaflex Class O	120	90
							110 mm Ø / 4.2 mm wall with 32 mm Armaflex Class O	120	120
							110 mm Ø / 6.6 mm wall with 13 mm Armaflex Class O	120	90
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Wrap ref.	Insulated*** Steel or Copper Pipe	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 750 wide	Pattress**, single layer to each face	200*	fischer FIPW-E / 2mm secured internally within both faces of fischer FCPS Coated Panel System	2x2 mm	42-159 mm Ø / 1.2 mm wall with 13-25 mm K Flex ST	120	60
							42-159 mm Ø / 1.2-14.2 mm wall with 25 mm K Flex ST	120	90
							42 mm Ø / 1-14.2 mm wall with 13-25 mm K Flex ST	120	120
							42-108 mm Ø / 1.2-14.2 mm wall with 25-40 mm Kingspan Kooltherm FM	120	90
		600 x 600					42 mm Ø / 1-14.2 mm wall with 25-40 mm Kingspan Kooltherm FM	120	120
							42 mm Ø / 1.2-14.2 mm wall with 50 mm glass fibre min. 30 kg/m <sup>3</sup>	120	90
							42-159 mm Ø / 1.2-14.2 mm wall with 25 mm foil faced glass fibre min. 30 kg/m <sup>3</sup>	120	90
							42 Ø / 1-14.2 mm wall with 25 mm foil faced glass fibre min. 30 kg/m <sup>3</sup>	120	120

\* Two layers of 50 mm batt / 100 mm separation

\*\* Pattress installation of fischer FCPS Coated Panel System . The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100 mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Continuous through the seal and full length of the pipe

\*\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Collar ref.	PE Pipe***	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Pattress**, single layer to each face	200*	fischer FFC Firestop Collar Ref secured to both faces with 80 mm steel pig tail screw	32 mm	32 mm Ø / 2.9 mm wall	120	120
						40 mm	40 mm Ø / 2.9 mm wall		
						50 mm	50 mm Ø / 2.9 mm wall		
						55 mm	55 mm Ø / 2.9-4.4 mm wall		
						63 mm	63 mm Ø / 2.9-4.4 mm wall		
						75 mm	75 mm Ø / 2.8-6.7 mm wall		
						82 mm	82 mm Ø / 2.8-6.7 mm wall		
						90 mm	90 mm Ø / 2.7-10 mm wall		
						100 mm	100 mm Ø / 2.7-10 mm wall		
						110 mm	110 mm Ø / 4.2-7.4 mm wall		
						125 mm	125 mm Ø / 3.1 mm wall		
140 mm	140 mm Ø / 3.5-5.8 mm wall								
160 mm	160 mm Ø / 4.9-9.5 mm wall								
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Uponor MLC (Multi-layer Composite) Pipe	Fire Resistance (mins.)		
							E	EI	
Masonry/ Concrete wall	150	1100 high x 750 wide	Pattress**, single layer to each face	250*	fischer FiGM Intumescent Graphite Mastic, 20 mm annulus and full depth of the fischer FCPS Coated Panel System seal	40 mm Ø / 4 mm wall	45	30	
						50 mm Ø / 4.5 mm wall			
						63 mm Ø / 6 mm wall			
						75 mm Ø / 7.5 mm wall			
						90 mm Ø / 8.5 mm wall			
110 mm Ø 10 mm wall									

\* Two layers of 50 mm batt / 100 or 150 mm separation

\*\* Pattress installation of fischer FCPS Coated Panel System. The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100 mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Collar ref.	PP Pipe***	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Pattress**, single layer to each face	200*	fischer FFC Firestop Collar Ref secured to both faces with 80 mm steel pig tail screw	32 mm	32 mm Ø / 2.9 mm wall	120	120
						40 mm	40 mm Ø / 2.9 mm wall		
						50 mm	50 mm Ø / 2.9 mm wall		
						55 mm	55 mm Ø / 2.9-4.4 mm wall		
						63 mm	63 mm Ø / 2.9-4.4 mm wall		
						75 mm	75 mm Ø / 2.8-6.7 mm wall		
						82 mm	82 mm Ø / 2.8-6.7 mm wall		
						90 mm	90 mm Ø / 2.7-10 mm wall		
						100 mm	100 mm Ø / 2.7-10 mm wall		
						110 mm	110 mm Ø / 4.2-7.4 mm wall		
						125 mm	125 mm Ø / 3.1 mm wall		
						140 mm	140 mm Ø / 3.5-8 mm wall		
160 mm	160 mm Ø / 4-14.6 mm wall								
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Collar ref.	PVC Pipe***	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Pattress**, single layer to each face	200*	fischer FFC Firestop Collar Ref secured to both faces with 80 mm steel pig tail screw	32 mm	32 mm Ø / 1.8 mm wall	120	120
						40 mm	40 mm Ø / 1.8 mm wall		
						50 mm	50 mm Ø / 1.8 mm wall		
						55 mm	55 mm Ø / 1.8-2.3 mm wall		
						63 mm	63 mm Ø / 2.3-3 mm wall		
						75 mm	75 mm Ø / 3.1-4.8 mm wall		
						82 mm	82 mm Ø / 3.1-4.8 mm wall		
						90 mm	90 mm Ø / 4.2-7.4 mm wall		
						100 mm	100 mm Ø / 4.2-7.4 mm wall		
						110 mm	110 mm Ø / 4.2-7.4 mm wall		
						125 mm	125 mm Ø / 6 mm wall		
						140 mm	140 mm Ø / 6.1-7.5 mm wall		
160 mm	160 mm Ø / 6.2-9.5 mm wall								

\* Two layers of 50 mm batt / 100 or 150 mm separation

\*\* Pattress installation of fischer FCPS Coated Panel System. The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100 mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal



# Appendix UL-EU CERTIFICATE

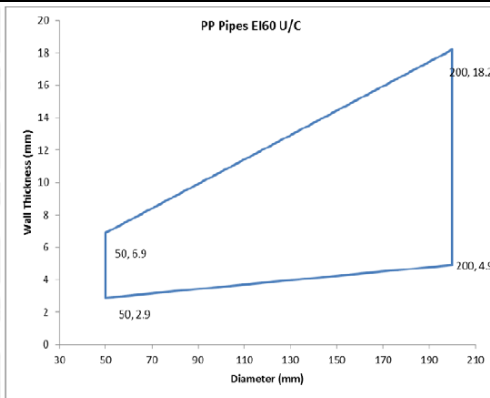
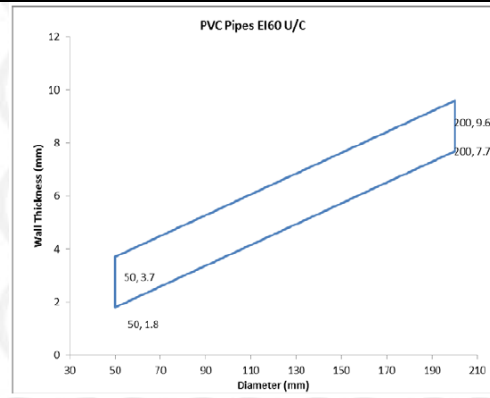
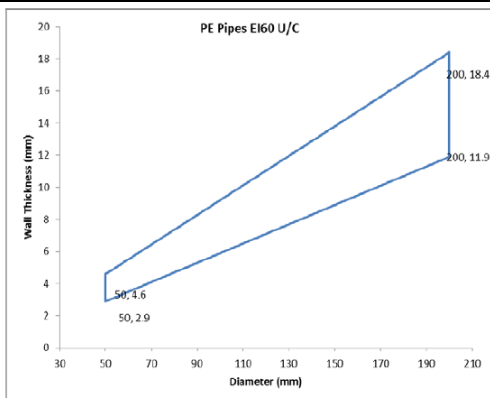
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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Wrap size WxT (mm)	Pipe Diameter***	Fire Resistance (mins.)	
								E	EI
Drywall/ Masonry/ Concrete wall	100	600 x 600	Pattress**, single layer to each face	200*	fischer FiPW-E secured internally within both faces of fischer FCPS Coated Panel System	40x2	32 mm Ø – 50 mm Ø	See diagrams below	
						40x4	51 mm Ø – 82 mm Ø		
						40x6	83 mm Ø – 115 mm Ø		
						40x8	116 mm Ø – 160 mm Ø		
						40x10	161 mm Ø – 200 mm Ø		
						40x12	201 mm Ø – 250 mm Ø		

\* Two layers of 50 mm batt / 100 or 150 mm separation

\*\* Pattress installation of fischer FCPS Coated Panel System. The batts are installed in horizontal rows and fixed in minimum 2 vertical edges. Overlap of batts to wall min. 100 mm. Batts mechanically fixed to the wall with min. 6 x 8 mm steel screws and steel retaining washer at 300 mm centres.

\*\*\* Min. Separation between services 0 mm, and 50 mm to edges of seal





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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation	Fire Resistance (mins.)	
							E	EI
Masonry/ Concrete Wall	150	600 x 600	Central	50*	None	Electrical cables up to 80 mm diameter insulated with fischer Thermal Defense Wrap**	60	60
						Steel cable trays and ladders insulated with fischer Thermal Defense Wrap**	60	60
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with fischer Thermal Defense Wrap**	60	60
						Unsheathed electrical cables up to 24 mm diameter insulated with fischer Thermal Defense Wrap**	60	60
						Steel or copper pipe 108 mm Ø, 1.5-14.2 mm wall with 40 mm stone wool insulation 40 kg/m <sup>3</sup> continuous through the seal and full length of the pipe	60	45
		1100 high by 730 wide				Steel or copper pipe 42 mm Ø, 1.2-14.2 mm wall with 40 mm stone wool insulation 40 kg/m <sup>3</sup> interrupted at the seal and 300 mm long on each face	45	45
						Steel or copper pipe 42-159 mm Ø, 2-14.2 mm wall with 40 mm stone wool insulation 40 kg/m <sup>3</sup> interrupted at the seal and 300 mm long on each face	45	15
						500 mm wide perforated steel cable tray coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	30	30
						Electrical cables up to 21 mm diameter coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	45	45
						1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	45	45
		1100 high by 750 wide				1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	45	45
						1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	45	45
						1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	45	45
						500 mm wide perforated steel cable tray coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	120	120
						Electrical cables up to 21 mm diameter coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	120	120
100***	1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	120	120					
	1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	120	90					
	1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	120	120					

\* One layer of 50 mm batt

\*\* fischer Thermal Defense Wrap, 6 mm thick, interrupted at the seal and extending 300 mm from both faces of the seal

\*\*\* Two layers of 50 mm batt

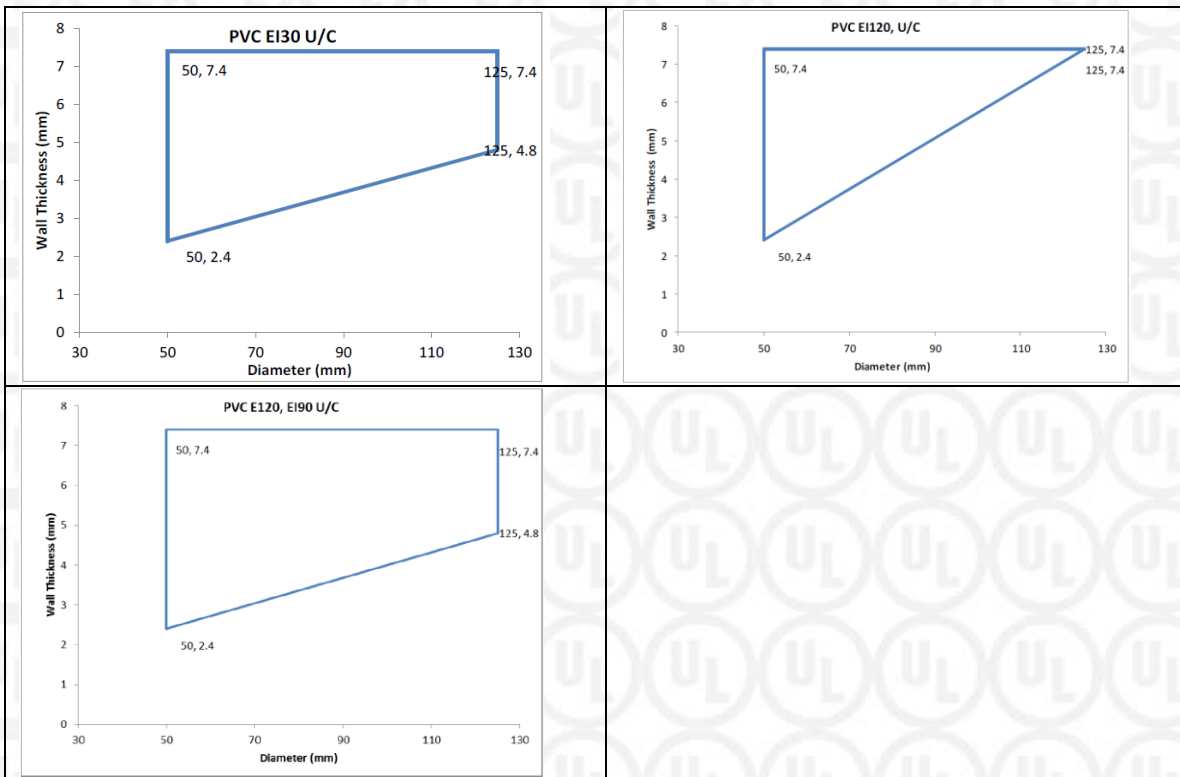


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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation	Fire Resistance (mins.)	
							E	EI
Masonry/ Concrete Wall	150	1100 high by 750 wide	Central	100*	fischer FIGM Intumescent Graphite Mastic, 20 mm annulus and full depth of the fischer FCPS Coated Panel System seal	PVC Pipe 50 mm diameter / 2.4-7.4 mm wall	45**	45**
					fischer FIGM Intumescent Graphite Mastic, 20 mm annulus and 20 mm depth to both faces of the fischer FCPS Coated Panel System seal	PVC Pipe	See diagram below	
		1100 high by 750 wide			None	Steel or Copper Pipe 42 mm diameter / 1.2-14.2 mm wall, insulated with 40 mm stone wool min. 40 kg/m <sup>3</sup> ***	120	60
					None	Steel or Copper Pipe 42-159 mm diameter / 2-14.2 mm wall, insulated with 40 mm stone wool min. 40 kg/m <sup>3</sup> ***	120	30

- \* Two layers of 50 mm batt
- \*\* And as per diagram below
- \*\*\* interrupted at the seal and extending 300 mm from both faces of the seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation	Fire Resistance (mins.)	
							E	EI
Concrete Floor	150	1600 x 700	Flush to top of floor	50	None	None	60	60
		1100 x 700	Central, back to back	50*	None	Electrical cables up to 80 mm diameter insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	60	60
						Steel cable trays and ladders insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	60	60
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	60	60
						Unsheathed electrical cables up to 17 mm diameter insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	60	60
						Unsheathed electrical cables up to 18-24 mm diameter insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	60	60
					fischer FiGM Intumescent Graphite Mastic, 20 mm annulus and full depth of the fischer FCPS Coated Panel System seal	Steel or Copper conduits up to 16 mm diameter insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	60	60
						Plastic conduits up to 16 mm diameter insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	60	60
						Steel or copper pipe 42 mm Ø, 1.2-14.2 mm wall insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	120	120
						Steel or copper pipe 42-159 mm Ø, 2-14.2 mm wall insulated with 40 mm stone wool insulation 40 kg/m <sup>3</sup> **	120	30
						500 mm wide perforated steel cable tray coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	60	60
		Electrical cables up to 21 mm diameter coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	60	60				
		1 off 'C1' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	60	60				
		1 off 'C2' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	60	60				
		1 off 'C3' Cable coated with 2 mm DFT fischer Panel Coating FPC for 300 mm to both faces	60	60				

\* Two layers of 50 mm batt

\*\* Interrupted at the seal and extending 300 mm from both faces of the seal

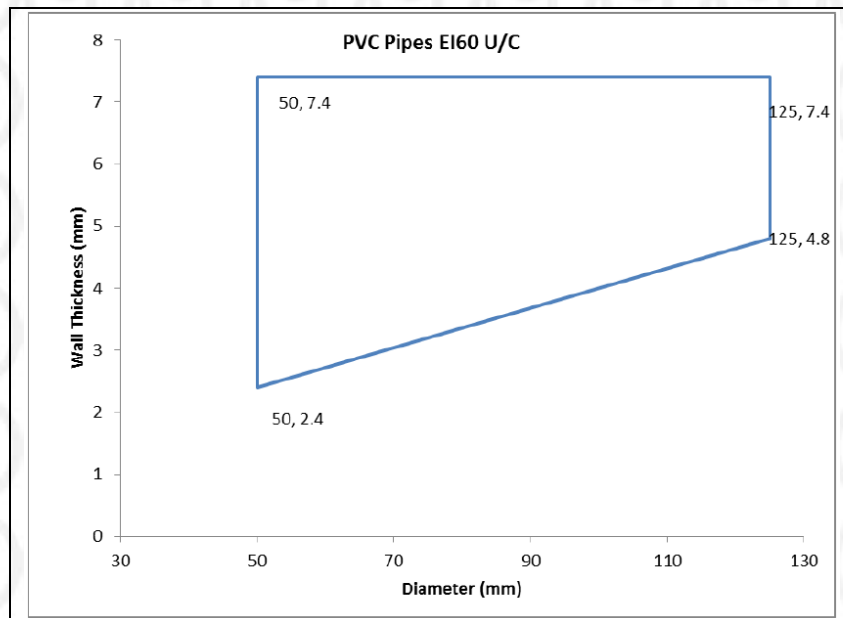


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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Uponor MLC (Multi-layer Composite) Pipe	Fire Resistance (mins.)	
							E	EI
Concrete floor	150	1100 x 750	Central, back to back	100*	fischer FiGM Intumescent Graphite Mastic, 20 mm annulus and full depth of the fischer FCPS Coated Panel System seal	40 mm Ø / 4 mm wall	60	60
						50 mm Ø / 4.5 mm wall		
						63 mm Ø / 6 mm wall		
						75 mm Ø / 7.5 mm wall		
						90 mm Ø / 8.5 mm wall		
110 mm Ø 10 mm wall								
Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	PVC Pipe	Fire Resistance (mins.)	
Concrete floor	150	1100 x 750	Central, back to back	100*	fischer FiGM Intumescent Graphite Mastic, 20 mm annulus and 25 mm depth to both faces of the fischer FCPS Coated Panel System seal	See diagram below	E	EI

\* Two layers of 50 mm



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal width (mm)	Minimum Seal Depth (mm)	Duct A / Duct B	Duct Specification (Duct must be classified in accordance with EN 13501-3 for the required period)	Fire Resistance (mins.)	
						E	S
Drywall/ Concrete/ Masonry wall	100	100	200*	A	Uninsulated 1.0mm GMS steel, rectangular duct, maximum dimensions 1250 mm wide by 1000 mm high.	60	120
				B		120	-
Concrete floor	150	250	275**	A		120	120
				B		120	-

\* 4 layers, outer layers overlapped

\*\* 50 mm fischer FCPS Coated Panel System /100 mm fischer FFSC FireStop Compound/125 mm fischer FCPS Coated Panel System



# Appendix UL-EU Certificate

<b>Certification Mark</b>	<b>UL-EU mark</b>
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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.



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