UL-EU CERTIFICATE

Certificate No. Page **Date of Issue** UL-EU-01139-CPR 1/232020-04-29

Certificate Holder

Bostik BV **Denariusstraat 11** 4903 RC Oosterhout The Netherlands

Manufacturer

A/003

Certified Product Type Product Trade Name Trademark **Rating/Classification**

Fire Stop – Putty Bostik FP 360 Putty Cord N/A See Appendix

Expiry date

2030-04-28



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 Certificate 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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Bostik FP 360 Putty Cord for fire stopping where insulated or uninsulated metallic pipes, cables and pipes penetrate flexible, masonry or concrete walls and rigid floor constructions, or where cable protrusion of socket boxes penetrate flexible walls. The detailed scope is given in pages 3 to 22 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes (EI 240).

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
- iii) Classification in accordance with EN 13501-2
- iv) Durability and Serviceability as defined in EAD 350454-00-1104, September 2017

The durability class of Bostik FP 360 Putty Cord is Z_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: Intumescent shee	t Intended use: Pene	tration Seal
Assessment method	Essential characteristic	Product performance
	BWR 2 Safety in case of fire	
EN 13501-1	Reaction to fire	No performance determined
EN 13501-2	Resistance to fire	See pages 4 - 21
X UL X UL X UL	3WR 3 Hygiene, health and environme	nt
EN 1026	Air permeability	See page 22
EAD 350454-00-1104, Annex C	Water permeability	No performance determined
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Use categories: IA1 Declaration of manufacturer
CUCUC	BWR 4 Safety in use	Derection of the
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	Adhesion	No performance determined
EAD 350454-00-1104, Clause 2.2.9	Durability	Z ₂
	BWR 5 Protection against noise	
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	Rw (C;C _{tr})= 67 (-2;-7) dB*
B	WR 6 Energy economy and heat retent	ion
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 14683, EN ISO 10211, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined

*Applicable only for Bostik FP 360 Putty Cord Pads in socket boxes



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Bostik FP 360 Putty Cord: Double Sided Pipe and Cable Penetration Seals, 4mm Thick in Socket Box, in Walls

Substrate	Minimum Substrate Thickness	Aperture (mm)	Socket box	Bostik FP 360 Putty Cord mm	Services	Resis	re tance ns.)
	(mm)					E	EI
يري ال	N.	63 Ø	Single or double Høiax Push Wallbox 15mm *	174 x 64 x 4 mm around pipe / 50 Ø x 25 mm at back of the box	Høiax 25mm PEX pipe in pipe hose	90	90
Gypsum	100	135 wide x 75 high	UK standard double socket box, 130mm wide x 70mm high x 47mm deep, each with up to 22mm hole cut to accept the cables	Interior of box fully lined with pad	Cables up to 14 mm diameter	60	60
Drywall wall	120	135 wide x 72 High	UK standard double socket box, maximum 130mm wide x 70mm high x 48mm deep, each with a 25mm	Interior of box fully lined with pad	Cables up to 14 mm diameter	120	120
	120	120 135 wide x 72 High wide x 14mm centrally loca	wide x 14mm high knock out section centrally located at the bottom back angle of the box to accept the cables	Interior of box fully lined with pad	2.5 mm twin and earth cables	120	120

*Fixed directly to studs or with steel plate between studs.

Substrate	Minimum Substrate Thickness	Aperture (mm)	Socket box	Bostik FP 360 Putty Cord mm	Services	Resis	ire stance ins.)
	(mm)	(mm)				Ε	EI
Gypsum Drywall wall	X	73 wide x 91 High x 51 deep	Schneider Electric Ref. IMT 36026 connection box, 72mm wide x 90mm high x 50mm deep	Fitted lining the back of the back box	Cables up to 14 mm diameter	60	45
	100 92 wide x 112 7	Elko 4189 1223720 connection box, 72mm wide x 90mm high x 58mm deep	Interior of box fully lined with pad	Cables up to 14 mm diameter	90	90	
	Min	74 wide x 74 High	ELKO 5421 123740 connection box, 73mm wide x 73mm high x 55mm deep	Interior of box fully lined with pad	Cables up to 14 mm diameter	90	90



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Substrate	Minimum Substrate	Services (fitted at any position within the	Sealant Depth	Fire Res (mir	
Substrate	Thickness (mm)	aperture)	(mm)	Е	EI
		Blank seal with a 15 mm deep cord of Bostik FP 360 Putty Cord on both sides of the wall	15	120	120
Drywall/ Masonry/ Concrete	100	Cables up to 21 mm diameter, single or in a bundle up to 50 mm diameter#	15	120	120
		Cables up to 80 mm diameter, sing	Cables up to 80 mm diameter, single or in a bundle up to 50 mm diameter#	15	60
Aild or stainless s	steel pipes				
Drywall/	100	Maximum 22 mm diameter*	15	120	120
Masonry/ Concrete	100	23-30 mm diameter*	15	120	45
ALUPEX pipes					
Drywall/ Masonry/	100	16 mm diameter*	15	120	120
Concrete	ALE YO	17-20 mm diameter*	15	120	90
Copper or steel pi	pes				
Drywall/	100	6 mm diameter*	15	120	120
Masonry/ Concrete	100	7-12 mm diameter*	15	120	60

All pipe classifications are pipe end configuration C/C (C=Capped, C=Capped) Except Mild or Stainless Steel pipes which are C/U (C=Capped, U=Uncapped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

Cable specification from EN 1366-3 standard cable configuration

* See below graphs for interpolated pipe sizes.

** Seal applied to both sides of the wall



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	Bostik FP	360 Putty Cord: Double Sided**	• Service	Penetration Seals in Wall	s	
Substrate	Minimum Substrate Thickness	Substrate ThicknessServices (fitted at any position within the aperture)		Insulation (LI)	Fi Resis (mi	tance ns.)
	(mm)		(mm)		E	EI
Mild or stainles	s steel pipes, with	minimum 80 kg/m3 density mineral wool insulation				
Drywall/ Masonry/ 10 Concrete	100	Maximum 40 mm diameter*	15	Minimum 20 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the wall on both faces	120	120
	100	40-324 mm diameter*	15	Minimum 30 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the wall on both faces	120	120
Copper or steel	pipe, with minim	um 80 kg/m ³ density mineral wool insulation				
Drywall/ Masonry/ Concrete	100	Maximum 54 mm diameter/1.2-14.2 mm wall	15	Minimum 20 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the wall on both faces	90	60
ALUPEX pipe	with minimum 80	kg/m ³ density mineral wool insulation				
Drywall/	N. N	Maximum 16 mm diameter*	15	Minimum 20 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the wall on both faces	90	90
Masonry/ Concrete	100	Maximum 75 mm diameter*	15	Minimum 30 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the wall on both faces	90	90

LI = Local Interrupted

All pipe classifications are pipe end configuration C/U (C=Capped, U=Uncapped) Except Copper or ALUPEX pipes which are C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

* See below graphs for interpolated pipe sizes.

** Seal applied to both sides of the wall





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Substrate	Minimum Substrate Thickness	Services (fitted at any position within the aperture)	Sealant Depth	Insulation (CS)	Fire Resistance (mins.)	
	(mm)	▲	(mm)		E	EI
Mild or stainles	s steel pipes, with	minimum 80 kg/m3 density mineral wool insulation				
Drywall/	100	Maximum 40 mm diameter*	15	Minimum 20 mm thick mineral wool 80 kg/m ³	120	120
Masonry/ Concrete	100	40-324 mm diameter*	15	30-80 mm thick mineral wool 80 kg/m ³	90	60
Copper or steel	pipe, with minim	um 80 kg/m ³ density mineral wool insulation				
Drywall/	100	Maximum 12 mm diameter/0.7-6.0 mm wall	15	Minimum 20 mm thick mineral wool 80 kg/m ³	90	60
Masonry/ Concrete	100	Maximum 54 mm diameter/1.2-14.2 mm wall	15	30-80 mm thick mineral wool 80 kg/m ³	90	60
ALUPEX pipe	with minimum 80	kg/m ³ density mineral wool insulation				
Drywall/	100	Maximum 16 mm diameter*	15	Minimum 20 mm thick mineral wool 80 kg/m ³	90	90
Masonry/ 100 Concrete		Maximum 75 mm diameter*	15	Minimum 30 mm thick mineral wool 80 kg/m ³	90	90

All pipe classifications are pipe end configuration C/U (C=Capped, U=Uncapped) Except Copper or Steel and ALUPEX pipes which are C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

* See below graphs for interpolated pipe sizes.

** Seal applied to both sides of the wall





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	Bostik FP	360 Putty Cord: Double Sided**	Service I	Penetration Seals in Wa	lls	
Substrate	Minimum Substrate Thickness	Services (fitted at any position within the aperture)	Sealant Depth (mm)	Insulation	Resis	ire tance ns.)
	(mm)	(mm)			E	EI
Mild or stainles	s steel pipes					
Drywall/ Masonry/ Concrete	120	Maximum 324 mm diameter/6.35-14.2 mm wall	15	None	90	20
Copper or steel	pipe, with minim	um 80 kg/m ³ density mineral wool insulation				
Drywall/ Masonry/ Concrete	120	Maximum 75 mm diameter/4.6-14.2 mm wall	-15	None	90	90
ALUPEX pipe	with minimum 80	kg/m ³ density mineral wool insulation				
Drywall/ Masonry/ Concrete	120	Maximum 54 mm diameter/1.2-14.2 mm wall	15	None	90	15

All pipe classifications are pipe end configuration C/U (C=Capped, U=Uncapped) Except Copper or Steel and ALUPEX pipes which are C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). ** Seal applied to both sides of the wall



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Substrate Substr	Minimum Substrate Thickness	Substrate Services (fitted at any position within Depth Insulation		Insulation (CS)	Fi Resis (mi	
	(mm)				E	EI
Mild or stainles	s steel pipes, with	minimum 80 kg/m ³ density mineral wool insulation				
Masonry/ 150	Maximum 40 mm diameter*	15	Minimum 20 mm thick mineral wool 80 kg/m ³	120	120	
Concrete	150	Maximum 324 mm diameter*	15	30-80 mm thick mineral wool 80 kg/m ³	240	180
Copper or steel	pipe, with minim	um 80 kg/m ³ density mineral wool insulation				
Masonry/ Concrete	150	Maximum 54 mm diameter/1.2-14.2 mm wall	15	Minimum 20 mm thick mineral wool 80 kg/m ³	240	120
ALUPEX pipe	with minimum 80	kg/m ³ density mineral wool insulation				
Masonry/ Concrete 150	150	Maximum 16 mm diameter*	15	Minimum 20 mm thick mineral wool 80 kg/m ³	240	240
	Maximum 75 mm diameter*	15	Minimum 30 mm thick mineral wool 80 kg/m ³	240	240	

CS = Continuous Sustained

All pipe classifications are pipe end configuration C/U (C=Capped, U=Uncapped) Except Copper or Steel and ALUPEX pipes which are C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

* See below graphs for interpolated pipe sizes.

** Seal applied to both sides of the wall





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Substrate	Minimum Substrate	Services (fitted at any position within the	Sealant Depth	Fire Resistance (mins.)		
	Thickness (mm)	ss aperture)	(mm)	Е	EI	
) (4)	\sim	X	None (blank)	15	120	30
	(U)	Cables up to 21 mm diameter in tied bundles up to 50 mm diameter*	15	120	60	
		Cables up to 21 mm diameter*	15	120	120	
		Cables 22-50 mm diameter*	15	120	90	
	VIII VI	Cables 51-80 mm diameter*	15	120	60	
Concrete	150	Single 'A1' type cable*	15	240	240	
	\times	Single 'C3' type cable*	15	240	240	
<u>)</u> પુ	(1)	Single 'E' type cable*	15	120	120	
	A. L.	V. TV.	Single 'D1' type cable*	15	120	120
	\times	Single 'D2' type cable*	15	120	120	
	VII. VI	Single 'D3' type cable*	15	240	60	

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

* Cable specification from EN 1366-3 standard cable configuration

** Seal applied to top side of floor, except for blank seals where seal is applied flush with bottom face of floor.



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	Bostik FP 3	60 Putty Cord: Single Sided** Service I	Penetration Seals	in Floors	
Substrate	Minimum Substrate	Services (fitted at any position within the	Sealant Depth	Fire Resistance (mins.)	
Substrate	Thickness (mm)	aperture)	(mm)	Ε	EI
LV. L	V-LV	None (blank)	15	120	120
Concrete	150	Cables up to 21 mm diameter in tied bundles up to 75mm diameter#	15	60	45
		Cables up to 21 mm diameter#	15	120	60
		Cables 22-80 mm diameter#	15	90	45
Mild or stainless	steel pipes				
0	150	4 mm diameter*	15	120	120
Concrete	150	5-30 mm diameter*	15	120	45
Copper or steel p	ipes				
Concepto	150	6 mm diameter*	15	120	90
Concrete	150	7-12 mm diameter*	15	120	30

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

Cable specification from EN 1366-3 standard cable configuration

* See below graphs for interpolated pipe sizes.

** Seal applied to bottom side of floor, except for blank seals where seal is applied flush with both faces of floor.

All pipe classifications are pipe end configuration C/C (C=Capped, C=Capped) Except Mild or Stainless Steel pipes which are C/U (C=Capped, U=Uncapped).





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Substrate	Minimum Substrate	Services (fitted at any position within the	Sealant Depth	Fire Resistance (mins.)	
Substrate	Thickness (mm)	aperture)	(mm)	Ε	EI
Mild or stainless	steel pipes				
	150	Maximum 22 mm diameter/1.2-11.0 mm wall#	15	120	120
Concrete	150	Maximum 324 mm diameter/6.35-14.2 mm wall#	15	240	15
Copper or steel p	ipes				
LV.		6 mm diameter#	15	120	120
Concrete	150	7-10 mm diameter#	15	120	90
	Vali Va	Maximum 54 mm diameter/1.2-14.2 mm wall	15	120	120
ALUPEX pipes			<u>.</u>		
Comonata	150	16-20 mm diameter#	15	120	120
Concrete	150	Maximum 75 mm diameter/4.6-14.2 mm wall	15	45	30

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

* Seal applied to top side of floor

All pipe classifications are pipe end configuration C/C (C=Capped, C=Capped) Except Mild or Stainless Steel pipes which are C/U (C=Capped, U=Uncapped).

See below graphs for interpolated pipe sizes.



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	Bostik FF	360 Putty Cord: Single Sided**	Service l	Penetration Seals in Floor	S	
Substrate	Minimum Substrate Thickness	Services (fitted at any position within the aperture)	Sealant Depth (mm)	Insulation (LI)	Fire Resistance (mins.)	
	(mm)				E	EI
Mild or stainles	ss steel pipes, with	minimum 80 kg/m ³ density mineral wool insulation				
Concrete 150	150	Maximum 40 mm diameter*	15	Minimum 20 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the floor on both faces	240	240
	150	41-324 mm diameter*	15	Minimum 30 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the floor on both faces	240	60
ALUPEX pipe	with minimum 80	kg/m ³ density mineral wool insulation				
	150	Maximum 16 mm diameter/2.25-8.0 mm wall*	15	Minimum 20 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the wall on both faces	240	240
Concrete	150	Maximum 75 mm diameter/4.6-14.2 mm wall*	15	Minimum 30 mm thick mineral wool 80 kg/m ³ , 500 mm long butted up to the floor on both faces	240	240
Copper or steel	pipe with minimu	m 75 kg/m ³ density glass or mineral wool insulation				
Concrete	150	Maximum 12 mm diameter/0.7-14.2 mm wall*	15	Minimum 20 mm thick glass or mineral wool 75 kg/m ³ , 500 mm	240	240
20101010		Maximum 54 mm diameter/1.2-14.2 mm wall*	15	long butted up to the floor on both faces	180	120

LI = Local Interrupted

All pipe classifications are pipe end configuration C/U (C=Capped, U=Uncapped) Except Copper or Steel and ALUPEX pipes which are C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). *See below graphs for interpolated pipe sizes. ** Seal applied to top side of the floor



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10

20

30 Pipe Diameter - mm 40

50

60

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Bostik FP 360 Putty Cord: Single Sided** Service Penetration Seals in Floors Minimum Fire Sealant Substrate Services (fitted at any position within Resistance Substrate Insulation (CS) Depth Thickness the aperture) (mins.) $(\mathbf{m}\mathbf{m})$ (mm) Е EI Mild or stainless steel pipes, with minimum 80 kg/m³ density mineral wool insulation Minimum 20 mm thick mineral 15 Maximum 40 mm diameter/1.0-14.2 mm wall 240 240 wool 80 kg/m³ Concrete 150 30-80 mm thick mineral wool 80 Maximum 324 mm diameter* 15 240 240 kg/m³ Copper or steel pipe, with minimum 80 kg/m3 density mineral wool insulation Minimum 20 mm thick mineral Maximum 12 mm diameter/0.7-6.0 mm wall 240 15 240 wool 80 kg/m³ Concrete 150 30-80 mm thick mineral wool 80 15 240 Maximum 54 mm diameter/1.2-14.2 mm wall, 240 kg/m² ALUPEX pipe with minimum 80 kg/m3 density mineral wool insulation Minimum 20 mm thick mineral Maximum 16 mm diameter/2.25-8.0 mm wall* 15 240 240 wool 80 kg/m3 150 Concrete 30-80 mm thick mineral wool 80 Maximum 75 mm diameter/4.6-14.2 mm wall* 15 240 240 kg/m³

CS = Continuous Sustained

All pipe classifications are pipe end configuration C/U (C=Capped, U=Uncapped) Except Copper or Steel and ALUPEX pipes which are C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2). *See below graphs for interpolated pipe sizes. ** Seal applied to top side of the floor



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Substrate	Minimum Substrate Thickness	Services (fitted at any position within the aperture)	Sealant Depth	Insulation (CS)	Fire Resistance (mins.)	
	(mm)		(mm)		Ε	EI
Copper or steel	pipe, with minim	1m 75 kg/m ³ density glass wool insulation				
Concrete	150	Maximum 12 mm diameter/0.7-6.0 mm wall*	15	Minimum 20 mm thick glass wool 75 kg/m ³	240	90
		Maximum 54 mm diameter/1.2-14.2 mm wall*	15	20-40 mm thick glass wool 75 kg/m ³	90	90
ALUPEX pipe	with minimum 75	kg/m ³ density glass wool insulation				
Concrete	150	Maximum 16 mm diameter/2.25-8.0 mm wall*	15	Minimum 20 mm thick glass wool 75 kg/m ³	120	120
		Maximum 75 mm diameter/4.6-14.2 mm wall*	15	20-50 mm thick glass wool 75 kg/m ³	120	120

CS = Continuous Sustained

All pipe classifications are pipe end configuration C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

*See below graphs for interpolated pipe sizes.

** Seal applied to top side of the floor



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	Bostik FP 36	0 Putty Cord: Double Sided** Service	Penetration Sea	ls in Floors	
Substrate	Minimum Substrate Thickness (mm)	Services (fitted at any position within the	Sealant Depth	Fire Resistance (mins.)	
		aperture)	(mm)	Ε	EI
Concrete	150	Cables up to 21 mm diameter, in a bundle up to 50 mm diameter*	15	240	240
Copper or steel pi	pes				-
Concrete	150	Maximum 10 mm diameter/0.7-14.2 mm wall	15	240	180

All pipe classifications are pipe end configuration C/C (C=Capped, C=Capped).

Maximum annular space 10 mm (a1) and minimum separation between penetration seals 30 mm (a2).

* Cable specification from EN 1366-3 standard cable configuration

** Seal applied to both sides of the floor



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Bostik FP 360 Putty Cord: Air permeability performance according to BS EN 1026: 2016

Product tested	Bostik FP 360 Putty Cord around 48mm electrical cable in 58mm hole					
Su	ummary of testing procedure		Result			
~L/~L/~U	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)			
	25	0.32	N/A			
I. VII. VIL	50	0.60	N/A			
Desults under resetting	100	1.00	N/A			
Results under negative	200	1.63	N/A			
chamber pressure	300	2.26	N/A			
비사비사비기	600	2.64	N/A			
	1000	3.25	N/A			
	25	0.24	N/A			
Un Willin Willing	50	0.26	N/A			
Describes and a second state	100	0.36	N/A			
Results under positive	200	0.56	N/A			
chamber pressure	300	1.11	N/A			
~~~~~	600	1.88	N/A			
333	1000	2.49	N/A			





#### **Appendix UL-EU Certificate**

Certification Mark UL-EU mark Certificate No. UL-EU-01139-CPR Page 23/23 Date of Issue 2020-04-29

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.

