## UL-EU CERTIFICATE

Certificate No. UL-EU-01075-CPR

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Date of Issue 2018-03-16

Certificate Holder Neutron Fire Technologies Limited

Shire Hall Quay Street Lostwithiel Cornwall PL22 0BS

Manufacturer A/017

Certified Product Type Fire Stop – Coated Board

Product Trade Name Firebreak Batt

Trademark N/A

Rating/Classification See Appendix

**Expiry date** 2028-03-15





**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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Firebreak Batt for fire stopping where there are service penetrations through floors and walls. The detailed scope is given in pages 3 to 17 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes for differing services and wall/floor constructions.

The product is certificated on the basis of:

- i) Inspection and surveillance of factory production control by UL
- ii) Fire resistance test data in accordance with EN 1366-3: 2009
- iii) Classification in accordance with EN 13501-2
- iv) Durability and Servicability as defined in EAD 350454-00-1104, Clause 2.2.9

Firebreak Batt has been tested in accordance with the requirements of EAD 350454-00-1104, Clause 2.2.9 to demonstrate its suitability for use in intended for use at internal conditions including those with high humidity, excluding temperatures below  $0^{\circ}$ C. These conditions are designated  $Z_1$  in EAD 350454-00-1104.



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Product-type: Coated Board	Inte	nded use: Pene	tration Seal
Basic requirement for construction work	Essential characte	ristic	Performance
MININ	Mechanical resistance and stability		LVII-VII-V
	None	CP/	Not relevant
	Safety in case o	f fire	
EN 13501-1	Reaction to fi	re	Class E
EN 13501-2	Resistance to f	ïre	See page 4
n Y Un Y Un Y (1	Hygiene, health and en	nvironment	Jr Y Ur Y Ur Y
EN 1026:2000	Air permeability (mater	ial property)	See page 13
ETAG 026-2, Annex C	Water permeability (mate	rial property)	No performance determined
Declaration of manufacturer	Release of dangerous substances		Use categories: IA3, S/W3  Declaration of manufacturer
r )( Ur )( Ur )( t	Safety in us	e	/p.)(Up.)(Up.)(
EOTA TR 001:2003	Mechanical resistance a	and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/i	novement	No performance determined
EOTA TR 001:2003	Adhesion		No performance determined
	Protection agains	t noise	
EN 10140-2/EN ISO 717-1	Airborne sound ins	ulation	See page 14
$\langle \times \times \rangle$	Energy economy and h	eat retention	$\times \times \times$
EN 12664, EN 12667 or EN 12939	Thermal proper	ties	No performance determined
EN ISO 12572 EN 12086	Water vapour perm	eability	No performance determined
	General aspects relating to	fitness for use	
EN 13162 or EN 14303, EN ISO 1519	Durability and servi	ceability	$Z_1$



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		]	Firebreak Batt: Service Penetration S	Seals in W	alls			
Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal	Fire Res (mir	
Substrate	Thickness (mm)	Size (mm)	Tollettuning Set vices	Position	(mm)	materials	E	EI
1 V V	- WII	WILL.	Electrical cables up to 80 mm Ø	11. W	12 37 1	- WIII	- 37/1	
Gypsum <sup>\$</sup> /	1 / /	1200 wide	Steel cable trays & ladders	To both	50 (x2) +	Batt Box*	120	120
Masonry/	130	x 1800 high	Unsheathed wires up to 24 mm diameter	faces of	30 (xz) + 30 air gap	Datt Box		
Concrete		x 1000 iligii	Telecom cables up to 21 mm Ø	wall	30 an gap		90	90
	1/11	3//11	Steel pipe, 220 mm diameter / 8.5 – 14.2 mm wall	THE N. P.	11 N/	None	120	60

<sup>\*</sup> Batt Box 150 mm deep is formed within the primary seal, comprising a lining 50 mm thick Firebreak Batt infilled with stone wool mineral fibre 64 kg/m3 coated on both faces with 3 mm Firebreak 22. 
§ aperture lined with 2 layers of gypsum board



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		]	Firebreak Batt: Service Penet	tration Se	als in Walls	3		
Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal	Fire Res	
Substrate	Thickness (mm)	Size (mm)	1 chetrating betvices	Position	(mm)	materials	E	EI
Gypsum <sup>\$</sup> /		1200 wide	Electrical cables up to 22-80 mm Ø (single, bundled and on steel trays/ladders up to 500 mm wide)	<u> </u>		50 mm Firebreak Batt, 220 mm long LS	<b>!</b> /\s	Y
Masonry/ Concrete	130	x 1800 high	Copper or Steel pipe 159 mm diameter / 2-14.2 mm wall	Central	50	30 mm Paroc Stone wool CI	60	60
			Copper or Steel pipe 15 mm diameter / 1-7.5 mm wall			40 mm Paroc Stone wool CI	-/\	

LI = local Interupted, CI - Continuous Interupted, LS - Local Sustained



<sup>\$</sup> aperture lined with 2 layers of gypsum board

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Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal materials	Fire Res	
	Thickness (mm)	Size (mm)		Position	(mm)		E	EI
PV.	7/2		Electrical cables up to 21 mm Ø (single, bundled and on steel trays/ladders up to 500 mm wide)			CINCINC	120	60
	- Y/II	Nu.	Telecom cable up to 21mm Ø in tied bundles up to 100mm Ø	Yu	$M_{\rm H}$	D-# D*	90	90
	5/5		Unsheathed wires up to 24 mm diameter			Batt Box*	120	60
	n)(u	)(U <sub>1</sub>	Electrical cables up to 22-80 mm Ø (single, bundled and on steel trays/ladders up to 500 mm wide)	)(U1	)(U <sub>L</sub> )	(Un) (Un) (U	120	45
Gypsum <sup>\$</sup> / Masonry/	130	1200 wide x 1800 high	Steel pipe 64 mm diameter / 3.0- 14.2 mm wall  Steel pipe 90 mm diameter / 3.0- 14.2 mm wall	Central	50	5x 1mm thick coating on pipe, 200mm along the pipe 20 mm thick Kaiflex elastomeric insulation CI	120	45
Concrete	PVC	n 1000 mgn	Steel pipe 90 mm diameter / 3.0- 14.2 mm wall	人ご		5x 1mm thick coating on pipe, 200mm along the pipe	120	20
	-\/ii	VIII	Steel pipe 220 mm diameter / 6.0- 14.2 mm wall	Vii.	VIII.	5x 1mm thick coating on pipe, 200mm along the pipe	120	45
	りん。	- <b>/</b> \^L	Copper or Steel pipe 22 mm diameter / 1.0-14.2 mm wall	ا کار	راتار	N/A	120	120
	n/ū	Yu	Copper or Steel pipe 22 mm diameter / 1.0-14.2 mm wall Copper or Steel pipe 22 mm diameter / 1.0-14.2 mm wall	Yū		40mm thick glass wool insulation (80kg/m3) CI 25mm thick Kingspan Phenolic insulation (37kg/m3) CI	120	60
	2/5		Copper or Steel pipe 22 mm diameter / 1.0-14.2 mm wall			5x 1mm thick coating on pipe, 200mm along the pipe	120	15
16 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	Steel 22,142 64,141	pipes with coating E 120 U/		15 12 12 12 12 12 12 12 12 12 12 12 12 12	Steel	pipes with coating E 120 U/C, EI 45 C/U	220, 14-2	

<sup>\* 150</sup>mm deep 50mm wide perimeter batt lining the aperture fixed to the outer layers of batt with 2No. 100mm long 'pig tail' screws on each corner. 'Ripped' rock mineral wool (33kg/m³ density) stuffing around the cables and trays/ladders finished with a nominal skim of 3mm Firebreak 22



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<sup>\$</sup> aperture lined with 2 layers of gypsum board

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		]	Firebreak Batt: Service Penetr	ation Se	als in Wal	ls		
Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal	Fire Res	
Substruce	Thickness (mm)	Size (mm)	r enertuing ser vices	Position	(mm)	materials	E	EI
Gypsum <sup>\$</sup> /	ĮΛ.	1200 : 1	Electrical cables up to 22-80 mm Ø (single, bundled and on steel trays/ladders up to 500 mm wide)	7	ŢV.	50 mm thick Firebreak Batt, 220 mm long insulation LS	<b>!</b> /\}	7
Masonry/ Concrete	130	1200 wide x 1800 high	Copper or Steel pipe 159 mm diameter / 2- 14.2 mm wall	Central	50 x 2	30 mm thick Paroc Stone wool pipe insulation CI	120	120
	5/	-/\C	Copper or Steel pipe 15 mm diameter / 1-7.5 mm wall			40 mm thick Paroc Stone wool pipe insulation CI	-/\	

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<sup>\$</sup> aperture lined with 2 layers of gypsum board

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		]	Firebreak Batt: Service Penetr	ation Se	als in Wal	lls		
Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal	Fire Resistance (mins.)	
Substrate	Thickness (mm)	Size (mm)		Position	(mm)	materials	E	EI
<>>	$\leq >$	<>:<	Type D3 Electrical cables up to 62.5 mm Ø (single, on steel ladder up to 200 mm wide)	$\leq 0$	<>>	50 mm thick Firebreak Batt, 230 mm long insulation LS	<>	K
Gypsum/	130	1200: 1-	Copper or Steel pipe 159 mm diameter / 2- 14.2 mm wall	<b>D</b>	nr)(n	30 mm thick Paroc Stone wool pipe insulation CI	120	120
Masonry/ Concrete	$\langle \cdot \rangle$	1200 wide x 1800 high	Copper or Steel pipe 15 mm diameter / 1-7.5 mm wall	Pattress fixed	50 x 2	40 mm thick Paroc Stone wool pipe insulation CI	$\langle \rangle$	K
	100	լ)(Մլ	Copper or Steel pipe, 15mm diameter / 0.7-7.5 mm wall thickness	JL)(	$U_L)(U$	Firebreak 22 coating	90	20
< >			Copper or Steel pipe, 159mm diameter / 2.0- 14.2 mm wall thickness	$\times$	$\leq \rangle$	sealing pipe to batt	90	20

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Type D3 cable = 4 x 185 mm<sup>2</sup> core HD604.5 electrical cable with XLPE insulation, EVA sheath and 52 mm diameter

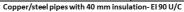


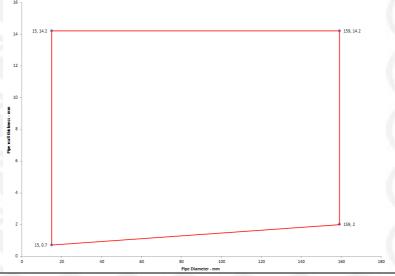
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		]	Firebreak Batt: Service Penetr	ation Se	als in Wal	ls		
Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal	Fire Res	
Substrate	Thickness (mm)	Size (mm)	i enetrating services	Position	(mm)	materials	E	EI
Gypsum <sup>\$</sup> / Masonry/ Concrete	100	1200 wide x 1800 high	Copper or steel pipe, 15mm diameter / 0.7- 14.2 mm wall thickness, 40mm thick foil faced rock mineral fibre - CS  Copper or steel pipe, 159mm diameter / 2.0- 14.2 mm wall thickness, 40mm thick foil faced rock mineral fibre - CS	Central	50 x 2	Firebreak 22 coating sealing pipe to batt	90	90





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\$ aperture lined with 2 layers of gypsum board



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Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	ation Seals i	Minimum Seal Depth	Additional seal	Fire Res	
Substrate	Thickness (mm)	Size (mm)	Tenetrating Services	Position	(mm)	materials	E	EI
	r)(n	J)(U	Copper or steel pipe, 15 mm diameter / 0.7-1 mm wall, insulated with 40 mm glass wool -		)(UL)	None	90	90
Cymsum\$/	i Yu	Yui	Copper or steel pipe, 159 mm diameter / 2.0- mm wall, insulated with 30 mm foil faced ste wool - CS		V(ii)		90	60
Gypsum <sup>\$</sup> / Masonry/ Concrete	100	1200 wide x 1800 high	Copper or steel pipe, 10mm diameter / 0.5-1 mm wall thickness Copper or steel pipe, 35mm diameter / 0.7-1 mm wall thickness	Central	50	Firebreak 22 coating sealing	90	90
	I)(u		Steel pipe, 65mm diameter / 3.2-14.2 mm w thickness	all	ヘピリ	pipe to batt and 200 x1.6 mm	90	30
	5/1	1	Steel pipe, 10mm diameter / 1.8-14.2 mm w thickness	all	Vii)	coatback	90	60
16		s with Coatback - E 90 l	J/C EI 30 U/C	Copper	/steel pipes with Coatb	ack - E 90 U/C	35, 14.2	
12 -			12 -					
mm - 10 -			10 - 10 - 10 -					

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		]	Firebreak Batt: Service Penetration	n Seals i	n Walls			
Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal	Fire Res	
Substrate	Thickness (mm)	Size (mm)	1 enertaining Services	Position	(mm)	materials	E	EI
Masonry/ Concrete	130	1200 wide x 1800 high	Type A1 Electrical cables up to 14 mm Ø (bundle)  Type D2 Electrical cables up to 80 mm Ø (single)  Type C2 Electrical cables up to 61 mm Ø (single)  Cat, 5E Electrical cables (bundle)  Twin and earth cables (bundle)	Central	50 x 2 + 30 air gap	Firebreak 22 around cables	120	120

Type A1 cable =  $5 \times 1.5 \text{ mm2}$  core HD603.3 electrical cable with PVC insulation, PVC sheath and 14 mm diameter Type D2 cable =  $4 \times 185 \text{ mm2}$  core HD22.4 electrical cable with EPR insulation, PO sheath and 64-80 mm diameter Type C2 cable =  $4 \times 95 \text{ mm2}$  core HD22.4 electrical cable with EPR insulation, PO sheath and 48.4-61 mm diameter

Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal Depth	Additional seal	Fire Res (min	
Substrate	Thickness (mm)	Size (mm)	T that thing set these	Position	(mm)	materials	E	EI
ı.Vi	-Vii	VIII	Type B Electrical cables up to 21 mm Ø (single, on steel ladder up to 150 mm wide)	n.V	n.Vii	ь Viii	Mi	
	リノビ	<u> ۲</u>	Type C1 Electrical cables up to 47 mm Ø (single, on steel ladder up to 150 mm wide)	Ľ			5/\C	Ъ
	1	550 x 330	Type C2 Electrical cables up to 61 mm Ø (single, on steel ladder up to 150 mm wide)		50		60	30
	L)(U	. X <sup>U</sup> I.	Type C3 Electrical cables up to 42 mm Ø (single, on steel ladder up to 150 mm wide)	ᆙ	uL)(u		_)(_	41.)
			Unsheathed wires up to 24 mm diameter					
Concrete	150	Mill	Type B Electrical cables up to 21 mm Ø (single, on steel ladder up to 150 mm wide)	Тор	ı.Vi	None	Mi	
	THE STATE	-/\~I	Type C1 Electrical cables up to 47 mm Ø (single, on steel ladder up to 150 mm wide)	ĽĿŅ			120	60
		600 x 600	Type C2 Electrical cables up to 61 mm Ø (single, on steel ladder up to 150 mm wide)		50 x 2		120	60
	L)(U	$-\chi_{n}$	Type C3 Electrical cables up to 42 mm Ø (single, on steel ladder up to 150 mm wide)	ᄣ	uL)(u	LXU	. )( '	H.)
	$\leq >$	$\langle                                    $	Unsheathed wires up to 24 mm diameter	$=\langle \ \rangle$	<>	< >	120	30

Type B cable =  $1 \times 95 \text{ mm2}$  core HD603.3 electrical cable with PVC insulation, PVC sheath and 18-21 mm diameter Type C1 cable =  $4 \times 95 \text{ mm2}$  core HD604.5 electrical cable with XLPE insulation, EVA sheath and 42 mm diameter Type C2 cable =  $4 \times 95 \text{ mm2}$  core HD22.4 electrical cable with EPR insulation, PO sheath and 48.4-61 mm diameter Type C3 cable =  $4 \times 95 \text{ mm2}$  core HD603.3 electrical cable with PVC insulation, PVC sheath and 42 mm diameter



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		]	Firebreak Batt: Service	Penetrati	on Seals in F	loors		
Substrate	Minimum Substrate	Maximum Opening	Penetrating Services	Seal	Minimum Seal	Additional seal materials	Fire Res	
Substrate	Thickness (mm)	Size (mm)	Tenetrating per vices	Position	Depth (mm)	Additional Scal materials	E	EI
UτΥι	i X U	YUı	Steel pipe 220 mm diameter / 6.9-14.2 mm wall	ı X'Uı	$YU_1Y$	None	60	15
	3	400 x 400	Steel pipe 220 mm diameter / 6.0-14.2 mm wall, insulated with Foil faced glass wool insulation 50mm thick CS		50	2No. layers 4 x 60 mm Nullifire FP302	90	45
	DC.	650 x 400	Steel pipe 160 mm diameter / 6.0-14.2 mm wall	Pattress to soffit		None	120	60
	1/11	030 X 400	Cat 5 electrical cables (bundle)  Fire alarm cables (bundle)	1/11	VIIIV	None	120	120
Concrete	150	400 x 400	95mm x 45mm European Redwood timber section	שע		100 mm long Firebreak Batt cladding to the underside of the seal	240	180
	1)(1	)(U <sub>1</sub>	Electrical cables up to 80 mm Ø (single, bundled and on steel trays/ladders up to 500 mm wide)	L)(U	50 x 2	(U_)(U_)(U	120	90
	< $>$	1400 x 500	Telecom cable up to 21mm Ø in tied bundles up to 100mm Ø	Тор		Batt Box*	120	120
	i Vu	$V_{\rm Br}$	Unsheathed wires up to 24 mm diameter	· YU	VIIIV	The Mark Mark	120	120
	シベ		Steel pipes 220 mm diameter by 8.0-14.2 mm wall				120	20

<sup>\*</sup> Batt box 150 mm deep (flush to the bottom of the seal) is formed within the primary seal, comprising a lining 50 mm thick Firebreak Batt infilled with stone wool mineral fibre 64 kg/m3 coated on both faces with 3 mm Firebreak 22. CS = Continuous Sustained



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	Air Permability	– Firebreak Batt	
Product tested	Firebreak Ba	tt with perimeter sealed wit	h Firebreak 22
Sur	nmary of testing procedu		Result
$(\times \times)$	Pressure (Pa)	Leakage (m³/h)	Leakage (m³/m²/h)
VII. VII. V	50	0.5	0.7
人~L人~L人~	100	0.5	0.7
	150	0.5	0.7
D1411	200	0.5	0.7
Results under negative	250	0.6	0.8
chamber pressure	300	0.6	0.8
	450	0.7	0.9
VIII. VIII. VI	500	1.0	1.4
・ハビレハビレハビ	600	1.1	1.5
	50	0.2	0.3
	100	0.4	0.5
WUI WUI WU	150	0.6	0.8
D	200	0.6	0.8
Results under positive	250	0.7	0.9
chamber pressure	300	0.8	1.1
10 1 10 11 10	450	1.1	1.5
	500	1.1	1.5
	600	1.4	1.9



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Airborne sound insulation—Firebreak Batt		
Configurati	on	Performance
2No. Fire rated batts coated both sides with mastic spray grade, with 60mm cavity		Dnew - 53 (-1;-5) dB Rw (1.87m2) - 40 (-4;-7) dB Rw (14.2m2) - 49 (-4;-7) dB
X	XESSESSES	
	X	
Fire rated batt Coated both sides with mastic spray grade		Dnew - 31 (-1;-3) dB Rw (1.87m2) - 24 (-1;3) dB Rw (14.2m2) - 33 (-1;-3) dB
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	



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Configuration		Performance
2No. Fire rated batts coated both sides with mastic	XERSESSES	Dnew - 39 (-1;-4) dB Rw (1.87m2) - 32 (-2;-4) dB Rw (14.2m2) - 42 (-2;-4) dB
spray grade, pushed together	XEEEEEE	
2No. Fire rated batts Face fixed on source and receive room	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Dnew - 39 (-1;-4) dB Rw (1.87m2) - 32 (-2;-4) dB Rw (14.2m2) - 42 (-2;-4) dB
5	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	



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Configuration	Performance
15mm Soundbloc- plasterboard placed over test aperture  Fire rated batt Coated both sides with mastic spray grade	Dnew - 26 (0;-1) dB Rw (1.87m2) - 46 (-1;-6) dB Rw (14.2m2) - 55 (-1;-6) dB
100	Dnew - 50 (-1;-5) dB Rw (wall area) - 51 (-2;-6) dB Rw (specimen area 0.6 m <sup>2</sup> ) – 38 (-1;-5) dB
2No. Fire rated batts coated both sides with mastic spray grade, with 60mm cavity	Dnew - 57 (-2;-9) dB Rw (wall area) - 58 (-1;-5) dB Rw (specimen area 0.3 m <sup>2</sup> ) – 42 (-2;-9) dB



# 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.

