

Certificate of Product Approval

Certificate Number: 164t

Issue: 08

Hochiki Europe (UK) Ltd

Grosvenor Road
Gillingham Business Park
Gillingham
Kent
ME8 0SA
United Kingdom

is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Visual Alarm Devices

CHQ-WSB2/WL	YBO-BSB3(BLK)/RL
CHQ-WSB2/RL	YBO-BSB3/WL
CHQ-WSB2(WHT)/WL	YBO-BSB3(WHT)/WL
CHQ-WSB2(WHT)/RL	YBO-BSB3(BLK)/WL
YBO-BSB2/WL	
YBO-BSB2/RL	
YBO-BSB2(WHT)/WL	
YBO-BSB2(WHT)/RL	
YBO-BSB2(BLK)/WL	
YBO-BSB2(BLK)/RL	
YBO-BSB3/RL	
YBO-BSB3(WHT)/RL	

(Refer to Appendix for details)

Standards

EN 54-3:2014 + A1:2019
EN 54-23:2010

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Z Major

4 March 2024

8 April 2015

Signed for BRE Global Ltd

Verifier

Date of Issue

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

Certified Product	Description	LPCB Ref.No.
CHQ-WSB2/WL	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/01
CHQ-WSB2/RL	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/02
CHQ-WSB2(WHT)/WL	Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization	164t/03

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

Certified Product	Description	LPCB Ref.No.
	2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	
CHQ-WSB2(WHT)/RL	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	164t/04
YBO-BSB2/WL	Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/05
YBO-BSB2/RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category 0	164t/06

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

Certified Product	Description	LPCB Ref.No.
	<ul style="list-style-type: none"> - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	
YBO-BSB2(WHT)/WL	Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/07
YBO-BSB2(WHT)/RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/08
YBO-BSB2(BLK)/RL	Addressable Type A Base Sounder Beacon (Black Housing, Red LED) (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category 0 - Flash rate 0.5Hz - Synchronization 	164t/09

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

Certified Product	Description	LPCB Ref.No.
	2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	
YBO-BSB2(BLK)/WL	Addressable Type A Base Sounder Beacon (Black Housing, White LED) YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones	164t/10
YBO-BSB3/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Ivory Version (YBV-R/4 and YBN-R/3 bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3(WHT)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

Certified Product	Description	LPCB Ref.No.
YBO-BSB3(BLK)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category O-1.2-2.0 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/11
YBO-BSB3/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - Ivory Version (YBV-R/4 and YBN-R/3 bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12
YBO-BSB3(WHT)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	164t/12
YBO-BSB3(BLK)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases) Notes:	164t/12

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

Certified Product	Description	LPCB Ref.No.
	1. The ceiling mounted VAD meets the requirements of EN 54-23 for the following: - Category C-3-2.6 - Flash rate 0.5Hz - Synchronization 2. Meets the requirements of EN 54-3 for all 56 tones as listed under approved tones	

Approved Tones

- 1 - 925 Hz : 250 ms / 628 Hz : 250 ms
- 2 - 925 Hz Continuous
- 3 - 628 Hz Continuous
- 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
- 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
- 6 - 925 Hz : 150 ms / Off : 600 ms
- 7 - 670 Hz : 250 ms / 845 Hz : 370 ms
- 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
- 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
- 10 - 970 Hz : 500 ms / Off : 500 ms
- 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
- 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
- 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
- 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
- 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
- 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
- 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 - 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 - 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

23 - 2850 Hz : 500 ms / Off : 500 ms
 24 - 925 Hz : 250 ms / Off : 1000 ms
 25 - 970 Hz Continuous
 26 - 660 Hz : 1800 ms / Off: 1800 ms
 27 - 660 Hz : 6500 ms / Off : 13000 ms
 28 - 660 Hz Continuous
 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
 30 - 660 Hz : 500 ms / Off : 500 ms
 31 - 2850 Hz : 150 ms / Off : 100 ms
 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
 38 - 845 Hz Continuous
 39 - 970 Hz : 1000 ms / Off : 1000 ms
 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
 43 - 2850 Hz : 1000 ms / Off : 1000 ms
 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
 46 - 440 Hz : 600 ms / Off : 600 ms
 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
 51 - Whoop 500-1200 3500 ms / Off 500 ms
 53 - Marine 1000Hz (1s on, 1s off)x7 + (7s on, 1s off)
 54 - Whoop 1200 Hz - 500 Hz : 1000ms
 55 - Ramp up 150 Hz - 1000 Hz : 10s. 1000 Hz 40s. Ramp down 1000 Hz - 150 Hz: 10s
 56 - 725 Hz Continuous

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
 T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre

Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

57 - 725 Hz : 700 ms / Off : 300 ms

Bases

YBN-R/3	Standard Base
YBO-R/3(WHT)	Standard Base
YBO-R/3(RED)	Standard Base
YBN-R/3(WHT)	Standard Base
YBN-R/3(BLK)	Standard Base
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBN-R/3(WHT)-SCI	Short Circuit Isolator Base
YBV-R/4	Standard Base
YBV-R/4(WHT)	Standard Base
YBV-R/4(BLK)	Standard Base

Accessories

WS2-WPK	Weatherproofing kit
---------	---------------------

Alternative Model No./Label

LPCB Ref No.	Model No.	Alternative Model No./Label	Cross-listed company	Cross-Listed Co Cert./ Ref No.
164t/01	CHQ-WSB2/WL	CHQ-WSB2/WL-HFP	Hochiki Europe (UK) Ltd - HFP	164t
164t/02	CHQ-WSB2/RL	CHQ-WSB2/RL-HFP	Hochiki Europe (UK) Ltd - HFP	164t
164t/02	CHQ-WSB2/RL	KS-WSNDB2-RL-RED	Kentec Electronics Limited	164t-(cl-2)
164t/03	CHQ-WSB2(WHT)/WL	CHQ-WSB2(WHT)/WL-HFP	Hochiki Europe (UK) Ltd - HFP	164t
164t/04	CHQ-WSB2(WHT)/RL	CHQ-WSB2(WHT)/RL-HFP	Hochiki Europe (UK) Ltd - HFP	164t
164t/07	YBO-BSB2(WHT)/WL	YBO-BSB2(WHT)/WL-HFP	Hochiki Europe (UK) Ltd - HFP	164t
164t/08	YBO-BSB2(WHT)/RL	YBO-BSB2(WHT)/RL-HFP	Hochiki Europe (UK) Ltd - HFP	164t

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.


Signed for BRE Global Ltd

Z Major
Verifier

4 March 2024
Date of Issue

8 April 2015
Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



Appendix to Certificate No: 164t

Issue: 08

Hochiki Europe (UK) Ltd

LPCB Ref No.	Model No.	Alternative Model No./Label	Cross-listed company	Cross-Listed Co Cert./ Ref No.
164t/08	YBO-BSB2(WHT)/RL	KS-BSNDB2-RL	Kentec Electronics Limited	164t-(cl-2)
164t/11	YBO-BSB3(WHT)/RL	YBO-BSB3(HFP)/RL	Hochiki Europe (UK) Ltd - HFP	164t
164t/12	YBO-BSB3(WHT)/WL	YBO-BSB3(HFP)/WL	Hochiki Europe (UK) Ltd - HFP	164t

Bases

LPCB Ref No.	Model No.	Alternative Model No./Label	Cross-listed company	Cross-Listed Co Cert./ Ref No.
164	YBO-R/3(RED)	YBO-R/3(RED)	Hochiki Europe (UK) Ltd - HFP	164
164	YBO-R/3(WHT)	YBO-R/3(WHT)	Hochiki Europe (UK) Ltd - HFP	164
164	YBO-R/SCI(RED)	YBO-R/SCI(RED)	Hochiki Europe (UK) Ltd - HFP	164
164	YBN-R/3(WHT)-SCI	YBN-R/3(WHT)-SCI	Hochiki Europe (UK) Ltd - HFP	164
164	YBV-R/4	YBV-R/4	Hochiki Europe (UK) Ltd - HFP	164
164	YBV-R/4(WHT)	YBV-R/4(WHT)	Hochiki Europe (UK) Ltd - HFP	164
164	YBV-R/4(BLK)	YBV-R/4(BLK)	Hochiki Europe (UK) Ltd - HFP	164
164	YBO-R/3(RED)	KS-BASE-WS-RED	Kentec Electronics Limited	164
164	YBN-R/3(WHT)	KS-BASE-3T-SCI	Kentec Electronics Limited	164

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for BRE Global Ltd

Z Major

Verifier

4 March 2024

Date of Issue

8 April 2015

Date of First Issue



This certificate and appendix remains the property of BRE Global Ltd. and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

BRE Global Ltd, Watford, WD25 9XX
T: +44 (0)333 321 8811 E: enquiries@breglobal.com

LPCB is a Registered Trademark of the Building Research Establishment Ltd.



bre