Date : 4 April 2023

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	TE-P117914-1000 TE-P115346-1000	**CERTIFICATE NUMBER**	164t
DATE OF ISSUE	9 April 2021 15 February 2021	**DATE OF ISSUE**	29 September 2022
DATE OF EXPIRY	N/A	**DATE OF EXPIRY**	N/A
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	Hochiki Europe (UK) Ltd	**NAME OF THE BRAND**	Hochiki Europe (UK) Ltd
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Grosvenor Road Gillingham Business Park Gillingham Kent ME8 0SA United Kingdom	**MODEL / NO**	**Visual Alarm Devices** YBO-BSB3/RL YBO-BSB3(WHT)/RL YBO-BSB3(BLK)/RL YBO-BSB3/WL YBO-BSB3(WHT)/WL YBO-BSB3(BLK)/WL CHQ-WSB2(WHT)/RL CHQ-WSB2(WHT)/WL CHQ-WSB2/RL CHQ-WSB2/WL YBO-BSB2/RL YBO-BSB2/WL **Bases:** YBN-R/4 **Accessories:** CHQ-WPK CHQ-WPK(WHT)
WEBSITE	www.hochikieurope.com	**LOGO ON THE PRODUCT**	HOCHIKI
TEL	+44 (0)1634 260133	**EMAIL**	info@hochikieurope.com

BRE GLOBAL LTD.
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Product Details From Test Report

Reference Test Report page NO: N/A

DESCRIPTION OF THE PRODUCT
(TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)

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 54-23:2010 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 54-23:2010 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 54-23:2010 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/03
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 54-23:2010 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:	164t/05

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164t_01/02/03/04/05/06/11/12

	1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 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	
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 54-23:2010 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/06
YBO-BSB3/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Ivory Version (YBV-R/4 base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 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) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 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(BLK)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) - Black Version (YBV-R/4(BLK) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 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 base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 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) base) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 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) base)	164t/12

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	Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 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
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
57 - 725 Hz : 700 ms / Off : 300 ms

Bases

YBV-R/4 Standard Base
YBV-R/4(WHT) Standard Base
YBV-R/4(BLK) Standard Base

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TEST STANDARD **(SUCH AS ASTM/BS EN/ DN ETC)**	EN 54-3:2001 + A1:2002 + A2:2006 EN 54-23:2010	Page 11
TEST DESCRIPTION	TE-P117914-1000 The object of this evaluation was to assess the performance of the Hochiki Europe (UK) Ltd, YBO-BS2 Sounder and YBO-BSB3 Sounder Beacon Ranges for compliance with the requirements of EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005 and EN 54-23:2010, LPCB/VdS AD EN 54-3 and LPCB/VdS AD EN 54-17. TE-P115346-1000 The object of this evaluation was to assess the performance of the YBO-BS, CHQ-WSB2, YBO-BSB2(BLK)/WL and YBO-BSB2(BLK)/WL sounders for compliance with the requirements of EN 54-3:2001 + A1:2002 + A2:2006.	Page 11 Page 4
SPECIFICATION OF TEST SPECIMEN	TE-P117914-1000 **First submission**	Page 13

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Equipment submitted for testing			
Quantity	Description		Receipt date
14	YBO-BSB3(BLK)/RL-SCI	Intelligent Analogues Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - Black Version	04/08/2020
14	YBN-R/3	Base	04/08/2020
8	YBO-BSB3(WHT)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon. - White Version	04/08/2020
4	YBO-BSB3/WL(SCI)	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - White Version	04/08/2020
8	YBO-BSB3(BLK)/WL-SCI	Intelligent Analogues Addressable Type A Base Sounder Beacon White LED) Beacon with Short Circuit Isolator - Black Version	04/08/2020
8	YBO-BSB3(BLK)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) Beacon. - Black Version	04/08/2020
8	YBO-BSB3/RL(SCI)	Intelligent Analogues Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - Ivory Version	04/08/2020
8	YBO-BSB3/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) Beacon. - Ivory Version	04/08/2020
4	YBO-BSB3/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon. - Ivory Version	04/08/2020
8	ACC-EN	Multi Sensor	04/08/2020
8	ACC-EN(WHT)	Multi Sensor	04/08/2020
8	ACC-EN(BLK)	Multi Sensor	04/08/2020
8	YBN-R/3(WHT)	Base	04/08/2020
8	YBN-R/3	Base	04/08/2020
8	YBN-R/3(WHT)-SCI	Base	04/08/2020
8	YBV-R/4	Base	04/08/2020
8	YBN-R/3(BLK)SCI	Base	04/08/2020
8	YBV-R/4(WHT)	Base	04/08/2020
1	YBO-BSB3/RL(SCI)	Intelligent Analogues Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - Ivory Version	17/08/2020
8	YBO-BSB3(BLK)/RL	Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon. - Black Version	17/08/2020
8	YBO-BSB3(WHT)/WL	Intelligent Analogue Addressable Type A Base Sounder Beacon (White LED) Beacon. - White Version	17/08/2020
8	YBO-BS2	Intelligent Analogue Addressable Type A Base Sounder -Ivory Version	17/08/2020
8	YBO-BS2(SCI)	Intelligent Analogue Addressable Type A Base Sounder with Short Circuit Isolator - Ivory Version	17/08/2020
8	YBO-BSB3(WHT)/RL-SCI	Intelligent Analogues Addressable Type A Base Sounder Beacon (Red LED) Beacon with Short Circuit Isolator - White Version	17/08/2020
8	YBO-BSB3(WHT)/WL-SCI	Intelligent Analogues Addressable Type A Base Sounder Beacon (White LED) Beacon with Short Circuit Isolator - White Version	17/08/2020

Second submission

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Equipment submitted for testing		
Quantity	Description	Receipt date
8	YBO-BSB3(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder Beacon (Red LED) Beacon - White Version	10/12/2020
Due to the failure seen on Clause 5.2 – Reproducibility on the first submission. All eight samples were returned to Hochiki and Modified to resolve the failure. Refer to Section 89.1 for more information.		

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TE-P115346-1000

Equipment submitted for testing		
No.	Description	Receipt date
8	YBO-BS Intelligent Analogue Addressable Type A Base Sounder	01/10/2019
8	YBO-BSB2(BLK)/WL Intelligent Analogue Addressable Type A/B base sounder beacon (White LED) beacon	01/10/2019
8	YBO-BSB2(BLK)/RL Intelligent Analogue Addressable Type A/B base sounder beacon (Red LED) beacon	01/10/2019
8	CHQ-WS2(WHT) Intelligent Analogue Addressable Type A Wall Sounder	01/10/2019
2	HFP-AP-AS Fire alarm panel	04/11/2019
10	YBN-R/3(BLK)SCI Isolator base	01/10/2019
10	YBN-R/3(WHT) base	01/10/2019

TEST RESULT
(SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC)

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TE-P117914-1000

The YBO-BS2 Sounder and YBO-BSB3 Sounder Beacon Ranges met the requirements of tests specified in Test Schedule P117914/1.2 taken from EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-23:2010, LPCB/VdS AD EN 54-3 and LPCB/VdS AD EN 54-17 on the first submission, with the exception of Clauses:

- YBO-BSB3(WHT)/RL,EN 54-3:2001 Clause 5.2 – Reproducibility (Third submission)
- YBO-BSB3(BLK)/RL(SCI), EN 54-3:2001 Clause 5.16.2.1a – Electrostatic discharge (op) (Second Submission)
- YBO-BSB3(BLK)/RL(SCI), EN 54-3:2001 Clause 5.12 – Shock (operational) (Second Submission)
- YBO-BS2(WHT)-SCI, EN 54-3:2001 Clause 5.2 – Reproducibility (Second Submission)
- YBO-BSB3(WHT)/WL, EN 54-3:2001 Clause 5.12 – Shock (operational) (Second Submission)
- YBO-BSB3(BLK)/RL(SCI), EN 54-3:2001 Clause 5.16.2.1b) - Radiated Electromagnetic Fields (Second Submission)

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	Which were subsequently met on their respective submissions. TE-P115346-1000 The YBO-BS, CHQ-WS2(WHT), YBO-BSB2(BLK)/WL and YBO-BSB2(BLK)/WL sounder met the requirements of tests specified in Test Schedule P115346/1.2 taken from EN 54-3:2001 + A1:2002 + A2:2006 and EN 54-23:2010 on the first submission, with the exception of Clauses 5.2 of EN 54-3:2001 + A1:2002 + A2:2006, which met the requirements on the second submission.	Page 40
PRODUCT APPLICATION GUIDELINE (END USE) **(CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT____/TO BE CONNECTED WITH____/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___/ NOT TO BE INSTALLED WITH___ETC.** BRE GLOBAL LTD. BUCKNALLS LANE WATFORD WD25 9XX, UK	**2-3-0-2957 - Installation Instructions** Hochiki range of products are designed specifically for installation within industrial or commercial applications. To operate products, they will require use of approved and appropriately supported control indicating equipment (control panel). Any installation must be completed in accordance with approval, technical & local authority requirements. Deviation from any such requirements is not approved by Hochiki. Hochiki recommends installation by appropriately qualified, skilled or experienced individuals only. **2-3-0-1752 Installation Manual** **2-3-0-1750 Installation Instructions**	

Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	BRE Global Ltd.	**NAME OF TEST FACILITY**	BRE Global Ltd.
CERTIFICATION BODY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Bucknalls Lane Garston Watford WD25 9XX United Kingdom	**TEST FACILITY ADDRESS / REGION** (STREET / TOWN / CITY / COUNTRY)	Bucknalls Lane Garston Watford WD25 9XX United Kingdom
WEBSITE	www.breglobal.com	**WEBSITE**	www.breglobal.com
TEL	+44 (0)333 321 88 11	**TEL**	+44 (0)333 321 88 11
EMAIL	BREGlobalEnquiries@bre.co.uk	**EMAIL**	BREGlobalEnquiries@bre.co.uk
ACCREDITED BY (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)	UKAS www.ukas.com	**ACCREDITED BY** (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)	UKAS www.ukas.com
AS PER (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)	EN45011: 1998 / ISO 17065: 2012	**AS PER** (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)	ISO 17025: 2005
VALIDITY (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)	N/A	**VALIDITY** (EXPIRY DATE OF LABORATORY ACCREDITATION)	N/A
REFERENCE NUMBER: (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	0007	**REFERENCE NUMBER:** (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	0578
CERTIFICATION MARK	LOSS PREVENTION CERTIFICATION BOARD LPCB		

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WD25 9XX, UK

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Shane Bartlett	**SIGNATURE**	
EMAIL / TEL	sbartlett@hochikieurope.com / 01634 266543	**FACTORY OFFICIAL SEAL**	HOCHIKI EUROPE (U.K.) LIMITED Grosvenor Road, Gillingham Business Park Gillingham, Kent ME8 0SA England
NOTES: I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY			
NAME OF CERTIFICATION BODY SIGNATORY	BRE Global Ltd. P Halligan	**SIGNATURE**	
EMAIL / TEL	BREGlobalEnquiries@bre.co.uk +44 (0)333 321 88 11	**CERTIFICATION BODY OFFICIAL SEAL**	BRE GLOBAL LTD. BUCKNALLS LANE WATFORD WD25 9XX, UK
NOTES: I Undertake that all data and information provided are genuine and accurate			

ATTACHMENTS:

- **COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)**