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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
CHQ-WSB2/RL
CHQ-WSB2(WHT)/WL
CHQ-WSB2(WHT)/RL
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
YBO-BSB3(BLK)/RL
YBO-BSB3/WL
YBO-BSB3(WHT)/WL
YBO-BSB3(BLK)/WL
(Refer to Appendix for details)

Standards

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

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	Z Major	4 March 2024	8 April 2015

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Appendix to Certificate No: 164t

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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

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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

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Certified Product	Description	LPCB Ref.No.
	- 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: - 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: - 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: - Category 0 - Flash rate 0.5Hz - Synchronization	164t/09

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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

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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

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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

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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

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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

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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

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