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Certificate of Product Approval

Certificate Number: 164h Issue: 15

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	Standards
Alarm Warning Devices	**EN 54-3:2014 + A1:2019**
YBO-BS	
YBO-BS(WHT)	
CHQ-WS2	
CHQ-WS2(WHT)	
CHQ-WS2/W	
YBO-BS2	
YBO-BS2(WHT)	
YBO-BS2(BLK)	
(Refer to Appendix for details)	

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Signed for BRE Global Ltd	Verifier	Date of Issue	Date of First Issue
	Z Major	4 March 2024	21 July 2006

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Appendix to Certificate No: 164h

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Certified Product	Description	LPCB Ref.No.
YBO-BS	Intelligent Analogue Addressable Type A Base Sounder (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED) bases) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.	164h/01
YBO-BS(WHT)	Intelligent Analogue Addressable Type A Base Sounder – White Version (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED) bases) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.	164h/01
CHQ-WS2	Intelligent Analogue Addressable Type A Wall Sounder (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) bases) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.	164h/02
CHQ-WS2(WHT)	Intelligent Analogue Addressable Type A Wall Sounder – White Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT) bases) Note: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones.	164h/02
CHQ-WS2/W	Intelligent Analogue Addressable Type B Wall Sounder - Weatherproof Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED) bases) Notes: 1. Meets the requirements of EN 54-3 for tones 1 to 51 listed under Approved Tones. 2. Includes a WS2-WPK weatherproofing kit	164h/02
YBO-BS2	Intelligent Analogue Addressable Type A Base Sounder - Ivory Version (YBV-R/4 and YBN-R/3 bases)	164h/06

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Certified Product	Description	LPCB Ref.No.
	Note: 1. Meets the requirements of EN 54-3 for all 56 tones	
YBO-BS2(WHT)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBV-R/4(WHT) and YBN-R/3(WHT) bases) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164h/06
YBO-BS2(BLK)	Intelligent Analogue Addressable Type A Base Sounder - Black Version (YBV-R/4(BLK) and YBN-R/3(BLK) bases) Note: 1. Meets the requirements of EN 54-3 for all 56 tones	164h/06

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

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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

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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

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

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Alternative Model No./Label

LPCB Ref No.	Model No.	Alternative Model No./Label	Cross-listed company	Cross-Listed Co Cert./ Ref No.
164h/01	YBO-BS(WHT)	YBO-BS(HFP)	Hochiki Europe (UK) Ltd	164h/01
164h/01	YBO-BS(WHT)	KS-BSND	Kentec Electronics Limited	164h-(cl-3)
164h/02	CHQ-WS2	CHQ-WS2(HFP)	Hochiki Europe (UK) Ltd	164h/02
164h/02	CHQ-WS2	KS-WSND2-RED	Kentec Electronics Limited	164h-(cl-3)
164h/06	YBO-BS2(WHT)	YBO-BS2(HFP)	Hochiki Europe (UK) Ltd	164h/06
164h/06	YBO-BS2(WHT)	KS-BSND2	Kentec Electronics Limited	164h-(cl-3)

Bases

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

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