

Loss Prevention Certification Board



This is to certify

HOCHIKI EUROPE (UK) LIMITED
Grosvenor Road, Gillingham Business Park,
Gillingham, Kent ME8 0SA

is authorised to use the LPCB mark in association with the
product(s) listed in this certificate and appendix.

**YBO-BS, YBO-BS(WHT), YBO-BSB, YBO-BSB(WHT), CHQ-WS2,
CHQ-WS2(WHT) & CHQ-WS2/W Sounders**

(refer to attached appendix for details)

which have complied with the requirements of the following:

**EN 54 - 3: 2001 - Fire detection and fire alarm systems – Fire alarm devices
- Sounders**

Certificate No. 164h

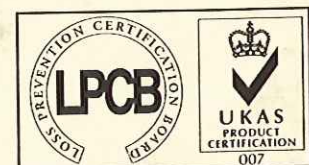
Issue No. 04

Date of Issue 29 September 2008

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Loss Prevention Certification Board



APPENDIX TO CERTIFICATE NO. 164h

HOCHIKI EUROPE (UK) LIMITED

Products

LPCB Ref. No.

YBO-BS Loop powered base sounder (YBN-R/3 and YBO-R/SCI bases)

164h/01

Note:

1. Meets the requirements of EN 54-3 at the following 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
 - 18 - ISO8201 : 2850 Hz : 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

Continued . . .

For details of Cross-Listed products and alternative branding please see page 12.

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HOCHIKI EUROPE (UK) LIMITED

- 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 3.5s/0.5s

For details of Cross-Listed products and alternative branding please see page 12.

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APPENDIX TO CERTIFICATE NO. 164h

HOCHIKI EUROPE (UK) LIMITED

Products

LPCB Ref. No.

YBO-BS(WHT) Loop powered base sounder – White version
(YBN-R/3 and YBO-R/SCI bases)

164h/01

Note:

1. Meets the requirements of EN 54-3 at the following 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
 - 18 - ISO8201 : 2850 Hz : 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

Continued . . .

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- 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 3.5s/0.5s

For details of Cross-Listed products and alternative branding please see page 12.

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APPENDIX TO CERTIFICATE NO. 164h

HOCHIKI EUROPE (UK) LIMITED

Products	LPCB Ref. No.
CHQ-WS2 Loop powered wall sounder (YBN-R/3 and YBO-R/SCI bases) Note: 1. Meets the requirements of EN 54-3 at the following tones: H1 - 925/628 at 2Hz H4 - French 554: 100ms / 440: 400ms H5 - Swedish 660: 150ms / Off: 150ms 8 - Whoop 500-1200 3s/0.5s 12 - Sweep 800/970 at 1Hz 15 - Sweep 2400-2850 at 1Hz 17 - 970:ISO8201 0.5s 18 - 2850:ISO820 0.5s	164h/02

CHQ-WS2(WHT) – Loop powered wall sounder - white version (YBN-R/3 and YBO-R/SCI bases) Note: 1. Meets the requirements of EN 54-3 at the following tones: H1 - 925/628 at 2Hz H4 - French 554: 100ms / 440: 400ms H5 - Swedish 660: 150ms / Off: 150ms 8 - Whoop 500-1200 3s/0.5s 12 - Sweep 800/970 at 1Hz 15 - Sweep 2400-2850 at 1Hz 17 - 970:ISO8201 0.5s 18 - 2850:ISO820 0.5s	164h/02
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For details of Cross-Listed products and alternative branding please see page 12.

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APPENDIX TO CERTIFICATE NO. 164h

HOCHIKI EUROPE (UK) LIMITED

Products

LPCB Ref. No.

CHQ-WS2/W Loop powered wall sounder- weatherproof version
(YBN-R/3, YBO-R/SCI and WS2-WPK base)

164h/02

Note:

1. Meets the requirements of EN 54-3 at the following tones:
H1 - 925/628 at 2Hz
H4 - French 554: 100ms / 440: 400ms
H5 - Swedish 660: 150ms / Off: 150ms
8 - Whoop 500-1200 3s/0.5s
12 - Sweep 800/970 at 1Hz
15 - Sweep 2400-2850 at 1Hz
17 - 970:ISO8201 0.5s
18 - 2850:ISO820 0.5s

YBO-BSB Loop powered base sounder and beacon
(YBN-R/3 and YBO-R/SCI bases)

164h/03

Note:

1. The beacon function of this device is not included in the scope of this approval
2. Meets the requirements of EN 54-3 at the following 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)

Continued . . .

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HOCHIKI EUROPE (UK) LIMITED

- 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
- 18 - ISO8201 : 2850 Hz : 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)

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HOCHIKI EUROPE (UK) LIMITED

- 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 3.5s/0.5s

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APPENDIX TO CERTIFICATE NO. 164h

HOCHIKI EUROPE (UK) LIMITED

Products

LPCB Ref. No.

YBO-BSB(WHT) Loop powered base sounder and beacon – White version
(YBN-R/3 and YBO-R/SCI bases)

Note:

1. The beacon function of this device is not included in the scope of this approval
2. Meets the requirements of EN 54-3 at the following 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
 - 18 - ISO8201 : 2850 Hz : 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

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- 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 3.5s/0.5s

Bases:

YBN-R/3 Analogue mounting base (ivory and white)
YBO-R/SCI Isolator base

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LPCB Ref No.	Model No.	Alternative Model No.	Labelled	Distributor Cert Ref No.
164h/01	YBO-BS	1460040	HDR	164h/01
164h/02	CHQ-WS2	1460050	HDR	164h/02
164h/03	YBO-BSB	1460070	HDR	164h/03
164h/01	YBO-BS (WHT)	YBO-BS (HFP)	HFP	164h/01
164h/02	CHQ-WS2 (WHT)	CHQ-WS2 (HFP)	HFP	164h/02
164h/03	YBO-BSB (WHT)	YBO-BSB (HFP)	HFP	164h/03
164h/03	YBO-BSB (WHT)	YBO-BSB	Ceasefire Industries Ltd	164h-(cl-1)
164	YBN-R/3	YBN-R/3 (HFP)	HFP	164
164d/01	YBO-R/SCI	YBO-R/SCI (HFP)	HFP	164d/01

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