

## DECLARATION OF PERFORMANCE

According to Construction Products Regulation EU N° 305/2011

N° 0832-CPR-F0563/14

Product Name: CHQ-WSB2/RL, CHQ-WSB2(WHT)/RL, CHQ-WSB2/RL-HFP  
& CHQ-WSB2(WHT)/RL-HFP

Intended use: Intelligent analogue addressable loop powered type A/B wall sounder beacon  
for use in fire detection and alarm systems for buildings.

Manufactured by : Hochiki Europe (UK) Ltd, Grosvenor Road,  
Gillingham, Kent, ME8 0SA

Authorised representative: N/A

System of Assessment: System 1

Assessed by: BRE Global Limited (Notified Body 0832) has performed type testing of the  
product, initial inspection of the manufacturing plant and of factory  
production control with continuous surveillance, assessment and evaluation  
of factory production control under system 1 and issued following certificate  
of conformity:

### 0832-CPR-F0563

Declared performance: All requirements including all essential characteristics<sup>(1)</sup> and corresponding  
performances<sup>(2)</sup> as described in the harmonised standards:  
EN54-3:2001 Fire detection and fire alarm systems - Part 3:  
Fire alarm devices - Sounders  
EN54-23:2010 Fire detection and fire alarm systems - Part 23:  
Fire Alarm Devices - Visual alarm devices

for the intended uses indicated above have been determined.

<sup>(1)</sup>See Annex A for the Essential Characteristics details

<sup>(2)</sup>See Annex B for additional performance details

The performance of the above mentioned products are in conformity with the performance and essential characteristics declared within  
this certificate. This declaration of performance is issued under the sole responsibility of Hochiki Europe (UK) Ltd.

Signed for and on behalf of the manufacturer by:

.....  
Ray Turner  
General Manager of Operations

Date of issue 22<sup>nd</sup> April 2015

### HOCHIKI EUROPE (UK) LIMITED

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## Annex A - Essential Characteristics

Essential characteristics	EN54-3:2001 +A1:2002 + A2:2006	Performance
Performance under fire conditions	4.2, 4.3, 5.2, 5.3	Pass
Operational reliability	4.4, 4.5, 4.6, 5.4	Pass
Durability of operational reliability: Temperature resistance	5.5, 5.6 <sup>a</sup> , 5.7, 5.8, 5.9	Pass
Durability of operational reliability: humidity resistance	5.8, 5.9, 5.10 <sup>a</sup>	Pass
Durability of operational reliability: corrosion resistance	5.11	Pass
Durability of operational reliability: shock and vibration resistance	5.12 to 5.15	Pass
Durability of operational reliability: electrical stability	5.16	Pass
Durability of operational reliability: resistance to ingress	5.17	Pass

<sup>a</sup> outdoor devices only**HOCHIKI EUROPE (UK) LIMITED**

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## Annex A - Essential Characteristics cont.

Product: Fire detection and fire alarm systems – Alarm devices – Visual alarm devices (VADs)				
Intended use: Fire detection and fire alarm systems installed in and around buildings				
Essential characteristics	Requirement clauses in this and other European Standard(s)	Level(s) or class(es)	Notes	
Operational reliability:				
Duration of operation	4.2.1	N/A	Pass	
Provision for external conductors	4.2.2	N/A	Pass	
Flammability of materials	4.2.3	N/A	Pass	
Enclosure protection	4.2.4	N/A	Pass	
Access	4.2.5	N/A	Pass	
Manufacturer's adjustments	4.2.6	N/A	Pass	
On-site adjustment of behaviour	4.2.7	N/A	Pass	
Requirements for software controlled devices	4.2.8	N/A	Pass	
Performance parameters under fire condition:				
Coverage volume	4.3.1	N/A	Pass	
Variation of light output	4.3.2	N/A	Pass	
Minimum and maximum light intensity	4.3.3	N/A	Pass	
Light colour	4.3.4	N/A	Red	
Light temporal pattern and frequency of flashing	4.3.5	N/A	Pass/Hz <sup>(3)</sup>	
Marking and data	4.3.6	N/A	Pass	
Synchronization (option with requirements)	4.3.7	N/A	Pass	
Durability:				
Temperature resistance:				
Dry heat (operational)	4.4.1.1	N/A	Pass	
Dry heat (endurance)	4.4.1.2	N/A	Pass	
Cold (operational)	4.4.1.3	N/A	Pass	
Humidity resistance:				
Damp heat, cyclic (operational)	4.4.2.1	N/A	Pass	
Damp heat, steady state (endurance)	4.4.2.2	N/A	Pass	
Damp heat, cyclic (endurance)	4.4.2.3	N/A	Pass	
Shock and vibration resistance:				
Shock (operational)	4.4.3.1	N/A	Pass	
Impact (operational)	4.4.3.2	N/A	Pass	
Vibration (operational)	4.4.3.3	N/A	Pass	
Vibration (endurance)	4.4.3.4	N/A	Pass	
Corrosion resistance:				
SO <sub>2</sub> corrosion (endurance)	4.4.4	N/A	Pass	
Electrical stability:				
EMC, immunity (operational)	4.4.5	N/A	Pass	

<sup>(3)</sup> See Annex B – Additional Performance Details**HOCHIKI EUROPE (UK) LIMITED**

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## Annex B – Additional Performance Details

Approved tones:

1 – 925 Hz : 250 ms / 628 Hz : 250 ms	27 – 660 Hz : 6500 ms / Off : 13000 ms
2 – 925 Hz Continuous	28 – 660 Hz Continuous
3 – 628 Hz Continuous	29 – 554 Hz : 500 ms / 440 Hz : 500 ms
4 – (French) 554 Hz : 100 ms / 440 Hz : 400 ms	30 – 660 Hz : 500 ms / Off : 500 ms
5 – (Swedish) 660 Hz : 150 ms / Off : 159 ms	31 – 2850 Hz : 150 ms / Off : 100 ms
6 – 925 Hz : 150 ms / Off : 600 ms	32 – Sweep 2400 Hz – 2850 Hz over 20 ms (50 Hz)
7 – 670 Hz : 250 ms / 845 Hz : 370 ms	33 – Sweep 800 Hz – 970 Hz over 500 ms (2 Hz)
8 – Whoop 500 Hz – 1200 Hz : 3000 ms / Off : 500 ms	34 – 988 Hz : 250 ms / 645 Hz : 250 ms
9 – 1200 Hz : 500 ms ? 500 Hz : 500 ms	35 – 510 Hz : 250 ms / 610 Hz : 250 ms
10 – 970 Hz : 500 ms / Off : 500 ms	36 – Sweep 800 Hz – 970 Hz over 110 ms (9 Hz)
11 – Sweep 800 Hz – 970 Hz over 140 ms (7 Hz)	37 – Sweep 800 Hz – 970 Hz over 330 ms (3 Hz)
12 – Sweep 800 Hz – 970 Hz over 1000 ms (1 Hz)	38 – 845 Hz Continuous
13 – Sweep 800 Hz – 970 Hz over 20 ms (50 Hz)	39 – 970 Hz : 1000 ms / Off : 1000 ms
14 – Sweep 2400 Hz – 2850 Hz over 140 ms (7 Hz)	40 – 800 Hz : 150 ms / 970 Hz : 150 ms
15 – Sweep 2400 Hz – 2850 Hz over 1000 ms (1 Hz)	41 – Sweep 2400 Hz – 2850 Hz over 110 ms (9 Hz)
16 – Sweep 300 Hz – 1200 Hz over 1000 ms (1 Hz)	42 – Sweep 2400 Hz – 2850 Hz over 330 ms (3 Hz)
17 – ISO8201 : 970 Hz : 500 ms / Off : 500 ms	43 – 2850 Hz : 1000 ms / Off : 1000 ms
18 – ISO8201 : 8250 Hz : 500 ms / Off : 500 ms	44 – 2400 Hz : 150 ms / 2850 Hz : 150 ms
19 – 800 Hz : 250 ms / 970 Hz : 250 ms	45 – (German) Whoop 1200 Hz – 500 Hz : 1000 ms / Off : 10 ms
20 – 2850 Hz Continuous	46 – 440 Hz : 600 ms / Off : 600 ms
21 – 2400 Hz : 250 ms / 2850 Hz : 250 ms	47 – Whoop 500 Hz – 1200 Hz : 3750 ms / Off : 250 ms
22 – 800 Hz : 250 ms / 2850 Hz : 500 ms	48 – ISO8201 : 925 Hz, 628 Hz : 250 ms / Off : 500 ms
23 – 2850 Hz : 500 ms / Off : 500 ms	49 – ISO8201 : Sweep 300 Hz – 1200 Hz : 500 ms / Off : 500 ms
24 – 925 Hz : 250 ms / Off : 1000 ms	50 – ISO8201 : Sweep 1200 Hz – 300 Hz : 500 ms / Off : 500 ms
25 – 970 Hz Continuous	51 – Whoop 500-1200 3500 ms / Off 500 ms
26 – 660 Hz : 1800 ms / Off : 1800 ms	

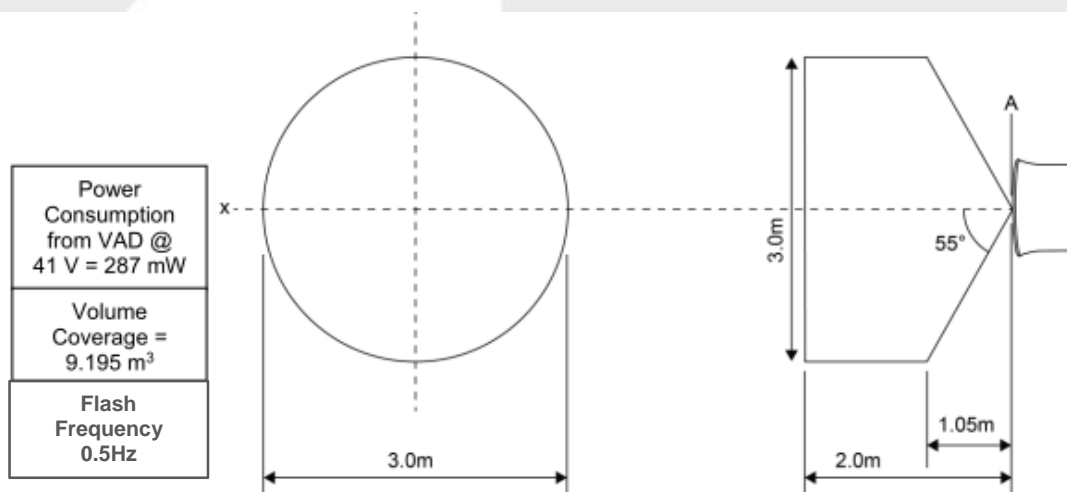
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## Annex B – Additional Performance Details cont.

## Approved Light Volume Coverage



Point A relates to the installation position of the devices beacon, with the orientation such that the front of the unit faces along the X-axis of the drawing above.

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