Date : 28 January 2022

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	TE284949 TE-P108623-1001	**CERTIFICATE NUMBER**	164t
DATE OF ISSUE	16 March 2015 3 May 2018	**DATE OF ISSUE**	30 July 2021
DATE OF EXPIRY	N/A	**DATE OF EXPIRY**	N/A
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	Hochiki Europe (UK) Limited	**NAME OF THE BRAND**	HFP
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Grosvenor Road Gillingham Business Park Gillingham Kent ME8 0SA United Kingdom	**MODEL / NO**	**Visual Alarm Devices** CHQ-WSB2/WL CHQ-WSB2/WL-HFP CHQ-WSB2/RL CHQ-WSB2/RL-HFP CHQ-WSB2(WHT)/WL CHQ-WSB2(WHT)/WL-HFP CHQ-WSB2(WHT)/RL CHQ-WSB2(WHT)/RL-HFP YBO-BSB2/WL YBO-BSB2/RL YBO-BSB2(WHT)/WL YBO-BSB2(WHT)/RL YBO-BSB2(BLK)/WL YBO-BSB2(BLK)/RL
WEBSITE	www.hochikieurope.com	**LOGO ON THE PRODUCT**	HFP
TEL	+44 (0)1634 260133	**EMAIL**	info@hochikieurope.com

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Product Details From Test Report					Reference Test Report page NO
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	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		N/A
	CHQ-WSB2/WL-HFP	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/RL-HFP	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		

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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)/WL-HFP	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	
CHQ-WSB2(WHT)/RL-HFP	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: 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/05	
YBO-BSB2/RL	Analogue Addressable Type A Base Sounder (Red LED) Beacon	164t/06	

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	(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	
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 54-23:2010 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/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 54-23:2010 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/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 54-23:2010 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/09
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 54-23:2010 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/10

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)

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	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 Bases YBO-R/3(RED) Standard Base YBO-R/3(WHT) Standard Base YBN-R/3(WHT) Standard Base YBO-R/SCI(RED) Short Circuit Isolator Base YBN-R/3(WHT)-SCI Short Circuit Isolator Base Accessories WS2-WPK Weatherproofing kit BRE GLOBAL LTD BUCKNALLS LANE WATFORD WD25 9XX U.K.	
TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	**TE284949** EN 54-3:2001 + A1:2002 + A2:2006 EN 54-23:2010 **TE-P108623-1001** EN 54-3:2001 + A1:2002 + A2:2006 EN 54-23:2010	Page 5 Page 3
TEST DESCRIPTION	**TE284949** The object of this evaluation was to assess the performance of the Hochiki Europe (UK) Ltd, CHQ-WSB2/WL, CHQ-WSB2(WHT)/WL, CHQ-WSB2/RL, CHQ-WSB2(WHT)/RL, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL sounder, visual alarm devices for	Page 5

	compliance with the requirements of EN 54-23:2010 and EN 54-3:2001 + A1:2002 + A2:2006. A full program of testing was completed on models CHQ/WSB2/WL and YBO/BSB2/RL, a reduced program of testing was completed on models CHQ/WSB2/L and YBO/BSB2/WL and no testing was completed on models CHQ-WSB2(WHT)/WL, CHQ-WSB2(WHT)/RL, YBO-BSB2(WHT)/WL, and YBO-BSB2(WHT)/RL as detailed in test schedule E122799/1.2. All 51 available tones and 13 volume levels for the CHQ-WSB2 had been approved in the previous approval of the CHQ-WSB (TE250187, E121574). All 51 available tones and 13 volume levels for the YBO-BSB2 have been approved in the previous approval of the YBO-BSB (TE230239, E120836). **TE-P108623-1001** The object of this evaluation was to assess the performance of the Hochiki Europe (UK) Ltd, Sounder VAD, YBO-BSB2(BLK)/RL and YBO-BSB2(BLK)/WL to reduced testing from EN 54-3:2001 + A1:2002 + A2:2006 and EN 54-23:2010. The YBO-BSB2 (BLK)/RL and YBO-BSB2 (BLK)/WL are identical except the LED colour. The reasons for reduced testing is that these products are the same as YBO-BSB2 white & ivory variants and had been previously approved under the project E122799, TE284949 and E120836, TE230239. The YBN-R/3(SCI) base was used when operating these devices.	Page 3
SPECIFICATION OF TEST SPECIMEN	**TE284949**	Page 6

Equipment submitted for testing		
No.	**Description**	**Receipt date**
10	CHQ-WSB2/WL sounder, VAD	18/11/2013
10	CHQ-WSB2/RL sounder, VAD	18/11/2013
10	YBO-BSB2/WL sounder, VAD, base	18/11/2013
10	YBO-BSB2/RL sounder, VAD, base	18/11/2013
4	WS2-WPK ancillary waterproofing kit	18/11/2013
5	YBN-R/3(SCI) base with short circuit isolator	18/11/2013
5	ACC-EN multi sensor head	18/11/2013

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Equipment submitted for testing		
Quantity.	**Description**	**Receipt date**
10	YBO-BSB2(BLK)/RL – Base Sounder Beacon	06/07/2017
10	YBO-BSB2(BLK)/WL – Base Sounder Beacon	06/07/2017
6	ALN-EN – Photo Smoke Sensor	06/07/2017

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TE284949

CHQ-WSB2/WL

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EN 54-23:2010 Clause – Title/Test		Comments				Result
4.3.6	Marking and data	See Section 6.1 of this test report				Pass
5.1.7	Reproducibility	See Section 6.2 of this test report				Pass
5.3.1	Coverage volume	See Section 6.3 of this test report				Pass
		Assessments				
5.2.2	Provision for external conductors	Visual inspection				Pass
5.2.3	Flammability of materials	See 'Sabic Cycoloy C2950 UL a' and 'UL-PC110'				Pass
5.2.4	Enclosure protection	Tested to IP 33C				Pass
5.2.5	Access	Visual inspection				Pass
5.2.6	Manufacturer's adjustments	Visual inspection				Pass
5.2.7	On site adjustments	Visual inspection				Pass
5.2.8	Software controlled devices	See report 284949-SWA Hochiki CHQ-WSB2 loop powered VAD				Pass
5.3.2	Variation of light output	Output at 1= 2 in= 41 20min= 12.46 1= 3				Pass
5.3.3	Min / max light intensity	% of measurements =100 ≥ 1Cd > 500Cd =0				Pass
5.3.4	Light colour	White				Pass
5.3.5	Light pattern / frequency	Flash rate = 0.53Hz $P_{10T} - P_{10L}$ = 76.13ms				Pass
5.3.7	Synchronisation (option)	Max time difference at 0 min =1.2ms Max difference =1.4ms				Pass
		Measurements E_{eff} (lm/m²)				**Result**
		Pre - conditioning	**Final hour**	**After conditioning**	**Q_{max} : Q_{min}**	
5.2.1	Duration of operation	0.20		0.18	1.11	Pass
5.4.1.1	Dry heat (operational)	0.19	0.17	0.20	1.18	Pass
5.4.1.2	Dry heat (endurance)	0.20		0.19	1.05	Pass
5.4.1.3	Cold (operational)	0.19	0.22	0.18	1.22	Pass
5.4.2.1	Damp heat, cyclic-operational	0.19		0.24	1.26	Pass
5.4.2.2	Damp heat, SS (end.)	0.19		0.18	1.06	Pass
5.4.2.3	Damp heat cyclic (endurance)	0.18		0.20	1.11	Pass
5.4.3.1	Shock (operational)	0.19		0.18	1.06	Pass
5.4.3.2	Impact (operational)	0.24		0.20	1.20	Pass
5.4.3.3	Vibration (operational)	0.19		0.20	1.05	Pass
5.4.3.4	Vibration (endurance)	0.19		0.20	1.05	Pass
5.4.4	SO2 corrosion (end.)	0.19		0.20	1.05	Pass
5.4.5.2.1 a	EMC- ESD	0.20		0.18	1.11	Pass
5.4.5.2.1 b	EMC- Radiated EM fields*	0.19		0.17	1.12	Pass
5.4.5.2.1 c	EMC- Conducted disturbances	0.20		0.18	1.11	Pass

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

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5.4.5.2.1 d	EMC- Fast transient bursts	0.20		0.18	1.11	Pass
5.4.5.2.1 e	EMC- Slow high energy surge	0.20		0.18	1.11	Pass

CHQ-WSB2/RL

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EN 54-23:2010 Clause – Title/Test		Comments	Result
4.3.6	Marking and data	See Section 9.1 of this test report	Pass
5.1.7	Reproducibility	See Section 9.2 of this test report	Pass
5.3.1	Coverage volume	See Section 9.3 of this test report	Pass
		Assessments	
5.2.8	Software controlled devices		Pass
5.3.2	Variation of light output	Output at 1min= 3.72 10min= 3.75 20min= 3.76 30min= 3.76	Pass
5.3.3	Min / max light intensity	% of measurements ≥ 1Cd =100 ➢ 500Cd =0	Pass
5.3.4	Light colour	red	Pass
5.3.5	Light pattern / frequency	Flash rate = 0.53Hz $P_{10T} - P_{10L}$ = 76.33ms	Pass

YBO-BSB2/WL

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EN 54-23:2010 Clause – Title/Test		Comments	Result
4.3.6	Marking and data	See Section 12.1 of this test report	Pass
5.1.7	Reproducibility	See Section 12.2 of this test report	Pass
5.3.1	Coverage volume	See Section 12.3 of this test report	Pass
		Assessments	
5.2.8	Software controlled devices		Pass
5.3.2	Variation of light output	Output at 1min= 1.90 10min= 1.89 20min= 1.89 30min= 1.89	Pass
5.3.3	Min / max light intensity	% measurements ≥ 1Cd =74 500Cd > =0	Pass
5.3.4	Light colour	white	Pass
5.3.5	Light pattern / frequency	Flash rate = 0.53Hz $P_{10T} - P_{10L}$ = 74.15ms	Pass

YBO-BSB2/RL

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EN 54-23:2010 Clause – Title/Test		Comments	Result
4.3.6	Marking and data	See Section 15.1 of this test report	Pass
5.1.7	Reproducibility	See Section 15.2 of this test report	Pass
5.3.1	Coverage volume	See Section 15.3 of this test report	Pass
		Assessments	
5.2.2	Provision for external conductors	Visual inspection	Pass
5.2.3	Flammability of materials	See 'Sabic Cycoloy C2950 UL a' and 'UL-PC110'	Pass
5.2.4	Enclosure protection	Tested to IP21C	Pass
5.2.5	Access	Visual inspection	Pass

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5.2.6	Manufacturer's adjustments	Visual inspection				Pass
5.2.7	On site adjustments	Visual inspection				Pass
5.2.8	Software controlled devices	See report 284949-SWB Hochiki YBO-BSB2 loop powered VAD				Pass
5.3.2	Variation of light output	Output at	1min= 3.27	10min= 3.29	20min= 3.30	30min= 3.31	Pass
5.3.3	Min / max light intensity	% of measurements	≥ 1Cd =95.7		500Cd > =0	Pass
5.3.4	Light colour	red				Pass
5.3.5	Light pattern / frequency	Flash rate = 0.53Hz	$P_{10T} - P_{10L}$ = 74.14ms			Pass
5.3.7	Synchronisation (option)	Max time difference at 0 min =0.0ms Max difference =1.6ms				Pass

		Measurements E_{eff} (lm/m²)				Result
		Pre - conditioning	Final hour	After conditioning	Q_{max} : Q_{min}	
5.2.1	Duration of operation	0.32		0.33	1.03	Pass
5.4.1.1	Dry heat (operational)	0.33	0.22	0.29	1.50	Pass
5.4.1.3	Cold (operational)	0.32	0.45	0.33	1.40	Pass
5.4.2.1	Damp heat, cyclic-operational	0.32		0.37	1.16	Pass
5.4.2.2	Damp heat, SS (end.)	0.32		0.32	1.00	Pass
5.4.3.1	Shock (operational)	0.32		0.32	1.00	Pass
5.4.3.2	Impact (operational)	0.32		0.38	1.19	Pass
5.4.3.3	Vibration (operational)	0.32		0.31	1.03	Pass
5.4.3.4	Vibration (endurance)	0.32		0.31	1.03	Pass
5.4.4	SO2 corrosion (end.)	0.32		0.34	1.06	Pass
5.4.5.2.1 a	EMC- ESD	0.32		0.27	1.19	Pass
5.4.5.2.1 b	EMC- Radiated EM fields*	0.32		0.27	1.19	Pass
5.4.5.2.1 c	EMC- Conducted disturbances	0.32		0.27	1.19	Pass
5.4.5.2.1 d	EMC- Fast transient bursts	0.32		0.27	1.19	Pass
5.4.5.2.1 e	EMC- Slow high energy surge	0.32		0.27	1.19	Pass

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YBO-BSB2(BLK)/RL

EN 54-3 — Page 8

EN 54-3:2001 + A1:2002 + A2:2006 Clause – Title/Test	Comments	Result
4.6.1 – Marking	See Section 6.1 of this test report	Pass
4.6.2 – Data	See Section 6.2 of this test report	Pass

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EN 54-23:2010 Clause – Title/Test		Comments	Result
4.3.6	Marking and data	See Section 8.1 of this test report	Pass
5.1.7	Reproducibility	See Section 8.2 of this test report	Pass
5.3.1	Coverage volume – 0.5Hz	See Section 8.3 of this test report	Pass
		Assessments	

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5.2.3	Flammability of materials	E41613-233164	Pass
5.3.3	Min / max light intensity – mode 0.5Hz flash rate	% of measurements ≥ 1Cd =86% ≥500Cd = 0%	Pass

YBO-BSB2(BLK)/WL

EN 54-3 — Page 17

EN 54-3:2001 + A1:2002 + A2:2006 Clause – Title/Test	Comments	Result
4.6.1 – Marking	See Section 10.1 of this test report	Pass
4.6.2 – Data	See Section 10.2 of this test report	Pass

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	EN 54-23:2010 Clause – Title/Test	Comments	Result
4.3.6	Marking and data	See Section 12.1 of this test report	Pass
5.1.7	Reproducibility	See Section 12.2 of this test report	Pass
5.3.1	Coverage volume – 0.5Hz	See Section 12.3 of this test report	Pass
		Assessments	
5.3.3	Min / max light intensity – mode 0.5Hz flash rate	% of measurements ≥ 1Cd =70% ≥500Cd = 0%	Pass

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.

CHQ-WSB2 - Installation Instructions - 2-3-0-1752
YBO-BSB2 - Installation Instructions - 2-3-0-1750

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.

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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	https://www.bregroup.com/about-us/bre-global/	**WEBSITE**	https://www.bregroup.com/about-us/bre-global/
TEL	+44 (0)333 321 88 11	**TEL**	+44 (0)333 321 88 11
EMAIL	BREGlobalEnquiries@bregroup.com	**EMAIL**	BREGlobalEnquiries@bregroup.com
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: 2017
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		

BRE GLOBAL LTD
BUCKNALLS LANE
WATFORD WD25 9XX
U.K.

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Richard Anderson	**SIGNATURE**	Digitally signed by Richard Anderson Date: 2022.02.02 19:41:27
EMAIL / TEL	randerson@hochikieurope.com +44 (0) 1634 266544 +44 (0)7970 764 568	**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@bregroup.com +44 (0)333 321 88 11	**CERTIFICATION BODY OFFICIAL SEAL**	BRE GLOBAL LTD BUCKNALLS LANE WATFORD WD25 9XX U.K.
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)**