Date : 29 June 2018

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	TE222740 TE224991 Rev A	**CERTIFICATE NUMBER**	164h-(cl-2)
DATE OF ISSUE	1 August 2006 23 November 2010	**DATE OF ISSUE**	19 April 2018
DATE OF EXPIRY	N/A	**DATE OF EXPIRY**	N/A
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	Hochiki Europe (UK) Ltd	**NAME OF THE BRAND**	Silver-Tec Ltd
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Grosvenor Road Gillingham Business Park Gillingham Kent ME8 0SA United Kingdom	**MODEL / NO**	Alarm Warning Devices ST-ABS-W ST-AWS-R ST-AWS-W
WEBSITE	www.hochikieurope.com	**LOGO ON THE PRODUCT**	Silver-Tec Instrumentation for your safety ...
TEL	+44 (0)1634 260131	**EMAIL**	info@silver-tec.co.uk

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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)	Hochiki Brand 164h/01 — YBO-BS(WHT) 164h/02 — CHQ-WS2 164h/02 — CHQ-WS2(WHT) ST-ABS-W — Intelligent Analogue Addressable Type A Base Sounder – White Version (ST-ABI-SCW, ST-ABI-SCR bases) Note: 1. Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones. — 164h/01 ST-AWS-R — Intelligent Analogue Addressable Type A Wall Sounder (ST-ABI-SCR base) Note: 1. Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones. — 164h/02 ST-AWS-W — Intelligent Analogue Addressable Type A Wall Sounder – White Version (ST-ABI-SCR base) Note: 1. Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones. — 164h/02 Bases ST-ABI-SCW — Short Circuit Isolator Base ST-ABI-SCR — Short Circuit Isolator Base	
TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	EN 54-3:2001 + A1:2002 + A2:2006	
TEST DESCRIPTION	TE222740 164h/01 Page 5 The object of this evaluation was to examine the construction and assess the performance of the Hochiki YBO-BS Loop Powered Base Sounder for compliance with the requirements of EN54-3: 20011. Additional tests have been included from EN54-5:20002, EN54-7:20003 and LPCB/VdS Agreement Document AD6.14 in order to approve the sounder base with the whole of Hochiki's range of analogue sensors and for the purpose of gaining VdS approval.	

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Further testing was carried out on an additional 43 sounder tones to EN54-3: 20011. Refer to BRE Test Report TE222740-17 for further details.

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The object of this evaluation was to examine the construction and assess the performance of the Hochiki model CHQ-WS2 addressable wall sounders for compliance with the requirements of EN 54-3: 20011 and LPCB/VdS Agreement Document AD6.12. The CHQ-WS2 wall sounder can be used in conjunction with the Hochiki weatherproofing kit, model WS2-WPK. When used in conjunction with the weatherproofing kit it becomes a Type B device and is referred to as CHQ-WS2/W. The majority of testing has been requested on the CHQ-WS2/W device in this evaluation. It should be noted that this report is Revision A of LPCB Test Report TE2249915. The report has been updated to include additional tones as required by the manufacturer LPBC Test Report TE2249915 dated July 2006 is to be superseded with effect from the date of this report.

SPECIFICATION OF TEST SPECIMEN

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Equipment		
No.	**Description**	**Receipt date**
12	YBO-BS Loop Powered Base Sounders	01/09/2005
4	ACB-E Heat Detectors	01/09/2005
10	ALG-E Optical Smoke Detectors	01/09/2005
10	Hochiki Covers	01/09/2005
10	AIE-E Ionisation Smoke Detectors	17/01/2006

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Equipment		
No.	**Description**	**Receipt date**
10	Hochiki CHQ-WS2 wall sounders	16/02/2006
10	Hochiki YBO-R/SCI short circuit isolator bases	16/02/2006
3	Hochiki WS2-WPK weatherproof kits	16/02/2006

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TEST RESULT (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC)	PASS TE222740 164h/01 The Hochiki YBO-BS Loop Powered Base Sounder met the requirements of a series of tests taken from EN54-3: 20011, EN54-5:20002, EN54-7:20003 and LPCB/VdS Agreement Document AD6.14 as specified in LPCB Test Schedule E120528/1.0. TE224991 164h/02 The Hochiki Europe (UK) Ltd model CHQ-WS2 addressable wall sounder met the requirements of a series of tests taken from EN 54-3: 20011	
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.	**164h/01 Installation Instruction 2-3-0-2348** **164h/02 Installation Instruction 2-3-0-2355** BRE GLOBAL LTD BUCKNALLS LANE WATFORD WD25 9XX U.K.	

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	www.breglobal.com	**WEBSITE**	www.breglobal.com
TEL	+44 (0)333 321 88 11	**TEL**	+44 (0)333 321 88 11
EMAIL	BREGlobalEnquiries@bre.co.uk	**EMAIL**	BREGlobalEnquiries@bre.co.uk
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: 2005
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 164h/01/02/02		164h-(cl-2)

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(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Richard Anderson	**SIGNATURE**	
EMAIL / TEL	randerson@hochikieurope.com 01634 266544	**FACTORY OFFICIAL SEAL**	HOCHIKI EUROPE (UK) 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. E MATTIE-SULEIMAN	**SIGNATURE**	BRE GLOBAL LTD BUCKNALES LANE WATFORD WD25 9XX U.K.
EMAIL / TEL	BREGlobalEnquiries@bre.co.uk +44 (0)333 321 88 11	**CERTIFICATION BODY OFFICIAL SEAL**	
NOTES: I Undertake that all data and information provided are genuine and accurate 164h-(cl-2) 164h/01/02/02			

ATTACHMENTS:

- **COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)**