Date : 5 May 2021

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	TE235177 TE235603 TE289409 P101096-1001 P103234-1001	**CERTIFICATE NUMBER**	358c-(cl-3)
DATE OF ISSUE	23 November 2007 08 January 2008 17 December 2013 15 January 2016 10 October 2016	**DATE OF ISSUE**	11 November 2020
DATE OF EXPIRY	N/A	**DATE OF EXPIRY**	N/A
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	Hochiki America Corporation	**NAME OF THE BRAND**	HFP
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	7051 Village Drive, Suite 100, Buena Park, California 90621, USA	**MODEL / NO**	ALK-E (HFP), ALN-EN, ALN-E(HFP), SOC-E3N, SOC-E3N(WHT), SOC-E3(WHT), SOC-E3(HFP)
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)	ALK-E (HFP)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity setting and in normal and low power modes.	358c/03	
	ALN-EN	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07	
	ALN-E(HFP)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08	
	SOC-E3N	Conventional Optical Smoke Detector (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/09	
	SOC-E3N(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/09	
	SOC-E3(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/10	
	SOC-E3(HFP)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/10	

Bases

YBN-R/3	Standard base
YBO-BS	Sounder base
YBN-R/6	Standard base
YBN-R/6SK	Standard base with schottky diode
YBO-R/6R	Relay base
YBO-R/6RS	Relay base latching with schottky diode
YBO-R/6RN	Relay base non latching
YBO-R-6PA	Protector alarms base
YBN-R/3(SCI)	Short circuit isolator base
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)

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TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	EN 54-7:2000 + A1:2002 + A2:2006	
TEST DESCRIPTION	TE235177 Page 5 358c/03 The object of this evaluation was to examine the construction and assess the performance of the Hochiki ALK-E(J) and ALG-EN range of Analogue Addressable Optical smoke detectors for compliance with the requirements of EN 54-7: 20001. TE289409 358c/07 Page 5 The object of this evaluation was to assess the performance of the Hochiki Europe UK Ltd, ALN-EN analogue addressable point photoelectric smoke detector for compliance with the requirements of a reduced series of tests taken from EN 54-7:2000 when used with YBN-R/3(SCI) mounting base. The purpose of this evaluation is to add the additional manufacturing location detailed in Section 1.6. The results detailed in this test report were compared to the results detailed in test report TE277796 for model ALN-E. The ALN-EN is a modified version of the ALN-E, where the design for the top cover was slightly modified as detailed in test report TE280668. Therefore, reduced testing was requested. P101096-1001 358c/08 Page 3 The object of this evaluation was to assess the performance of the Hochiki America Corporation, ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector to EN 54-7:2000 + A1:2002 + A2:2006 when used with the YBN-R/3(SCI) Short Circuit Isolator Base, following various modifications together with the introduction of a new manufacturing site. The detectors will be tested for Reproducibility at two sensitivities, 2.0% and 4.5%. Testing has been reduced due to the modifications Hochiki America Corporation, USA made to the original product evaluated under LCPB test schedule E123535-1.0 test report TE277796 P103234-1001 358c/09/10 Page 4 The object of this evaluation was to assess the performance of the Hochiki Europe (UK) Ltd models SOC-E3N, SOC-E3N (WHT) and SOC-E3 (WHT) conventional optical smoke detectors for compliance with the requirements of EN 54-7:2000 + A1:2002 + A2:2006 when used with a YBN-R/6 standard base. Reduced testing was performed on the SOC-E3N (WHT) and SOC-E3 (WHT) when compared to SOC-E3N, as they share the identical smoke chamber, photodiode, software, height of smoke entry, PCB layout and one default sensitivity setting. The SOC-E3N and SOC-E3N (WHT) have the same mechanical construction, but differ in colour only,	

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the SOC-E3 (WHT) is similar to the SOC-E3N and SOC-E3N (WHT) but has a different outer cover.
Additional EMC testing was also carried out in order to meet the requirements of LPCB/VdS Agreement Document AD EN54-7 Revision 2: 2012.

SPECIFICATION OF TEST SPECIMEN

TE235177 Page 6
358c/03

1st Submission

Equipment		
No.	**Description**	**Receipt date**
20	Hochiki ALK-E(J) Analogue addressable optical smoke detectors	05/03/2007
7	Hochiki ALG-EN Analogue addressable optical smoke detectors	05/03/2007
24	Hochiki YBN-R/2NA Standard Base (HC) in ivory only	05/03/2007
12	Hochiki YBO.R/SCI Short Circuit isolator base (contains electronics)	25/04/2007
10	Hochiki YBO-BSB Sounder base and beacon (contains electronics)	16/05/2007

Second Submission

Equipment		
No.	**Description**	**Receipt date**
8	Hochiki ALK-E(J) Analogue addressable optical smoke detectors	30/08/2007
4	Hochiki ALG-EN Analogue addressable optical smoke detectors	30/08/2007

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TE289409 358c/07

Equipment		
No.	**Description**	**Receipt date**
20	Hochiki Europe UK Ltd, ALN-EN analogue addressable point photoelectric smoke detectors.	08/10/2013
10	Hochiki Europe UK Ltd, YBN-R/3(SCI) mounting bases.	08/10/2013

P101096-1001 358c/08 Page 4

Equipment		
No.	**Description**	**Receipt date**
20	ALN-E(WHT) Optical Smoke Detectors	13/07/2015
15	YBN-R/3(SCI) Short Circuit Isolating Base	13/07/2015

Second Submission

Equipment		
No.	**Description**	**Receipt date**
20	ALN-E(WHT) Optical Smoke Detectors	08/09/2015

P103234-1001 358c/09/10

Equipment		
No.	**Description**	**Receipt date**
20 Off	SOC-E3N (WHT) Conventional Optical Smoke Detector	26-01-16
20 Off	SOC-E3 (HFP) Conventional Optical Smoke Detector	26-01-16
10 Off	YBN-R/6 Standard Base	26-01-16

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

TE235177 page 34
358c/03
The Hochiki ALK-E and ALG-EN analogue addressable optical smoke detector met all the requirements of tests specified in LPCB Test Schedule E121008/1.3 taken from EN 54-7: 2000[1] on the first submission with the exception of Clause 5.17 Electromagnetic Compatibility.

It was requested by the manufacturer that the additional requirements for VdS approval were removed from the LPCB test schedule. Modifications were made to the detectors for future approval to the VdS

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requirements, these modified samples were submitted as part of this evaluation which were designated as submission 2. No Electromagnetic Compatibility testing was conducted on Submission 1 samples. The modified samples met the requirements of Clause 5.17 Electromagnetic Compatibility on the second submission.

TE289409 358c/07
The Hochiki Europe (UK) Ltd, ALN-EN analogue addressable point photoelectric smoke detector met the requirements of tests specified in LPCB Test Schedule E122990-1.0 taken from EN 54-7:2000 on the first submission.

P101096-1001 358c/08
The Hochiki America Corporation ALN-E (WHT) Intelligent Analogue Addressable Optical Smoke Detector met the requirements of Clause 4.9 Marking, Clause 4.10 Data on the first submission, with the exception of Clause 5.4 Reproducibility at 2% and 4.5% sensitivity settings, which were met on the second submission. The tests were taken from EN 54-7: 2000 + A1: 2002, +A2: 2006 and were as specified in LPCB Test Schedule P101096-1.2.

P103234-1001 3582c/09/10
The Hochiki Europe (UK) Ltd., Models SOC-E3, SOC-E3N and SOC-E3 (WHT) conventional optical smoke detectors met the requirements of tests specified in LPCB Test Schedule P103234/1.0 taken from EN 54-7:2000 + A1:2002 + A2:2006, as well as additional testing in order to meet the requirements of LPCB/VdS Agreement Document AD EN54-7 on the first submission.

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.

358c/03	ALK-E	2-3-0-914
358c/07/08/09/10	ALN-E(WHT)	2-3-0-246

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	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 BRE GLOBAL LTD. BUCKNALLS LANE WATFORD WD25 9XX, UK		

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Richard Anderson	**SIGNATURE**	Digitally signed by Richard Anderson Date: 2021.05.07 08:13:32 +01'00'
EMAIL / TEL	randerson@hochikieurope.com +44 (0) 1634 266544 +44 (0)7970 764 568	**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	P Halligan BRE Global Ltd.	**SIGNATURE**	BRE GLOBAL LTD. BUCKNALLS LANE WATFORD WD25 9XX, UK
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			

ATTACHMENTS:

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