Date : 19 January 2024

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	TE204016 Rev 1 TE210418/2 TE215840 TE-P114834-1000	**CERTIFICATE NUMBER**	117g-(cl-3)
DATE OF ISSUE	17 August 2001 2 December 2003 22 June 2005 17 September 2019	**DATE OF ISSUE**	17 January 2024
DATE OF EXPIRY	N/A	**DATE OF EXPIRY**	N/A
Manufacturer details			
NAME OF FACTORY/ MANUFACTURER	Hochiki Corporation	**NAME OF THE BRAND**	Hochiki Europe (UK) Limited HFP
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	141-Maebara Ejiri Kakuda City Miyagi 981-1521 Japan	**MODEL / NO**	DCD-1E-IS, DFJ-AE3, DFJ-AE3(HFP), DFJ-AE3(WHT), DFJ-CE3, DFJ-CE3(HFP), DFJ-CE3(WHT), DCD-AE3(HFP), DCD-AE3, DCD-AE3(WHT), DFG-60BLKJ, DCD-CE3, DCD-CE3(HFP), DCD-CE3(WHT), ACB-EW, DFG-60BLJ
WEBSITE	www.hochiki.co.jp	**LOGO ON THE PRODUCT**	HFP HOCHIKI
TEL	81-3-3444-4116	**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)	DCD-1E-IS	Conventional Category A1 Intrinsically Safe Fixed Temperature and Rate of Rise Heat Detector (YBN-R/4IS Base)	117g/01	
	DFJ-AE3	Conventional Category A1S Fixed Temperature Heat Detector - Ivory (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02	
	DFJ-AE3(WHT)	Conventional Category A1S Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02	
	DFJ-AE3(HFP)	Conventional Category A1S Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/02	
	DFJ-CE3	Conventional Category CS Fixed Temperature Heat Detector - Ivory (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03	
	DFJ-CE3(WHT)	Conventional Category CS Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03	
	DFJ-CE3(HFP)	Conventional Category CS Fixed Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/03	
	DCD-AE3	Conventional Category A1R Rate of Rise Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK and YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04	
	DCD-AE3(HFP)	Conventional Category A1R Rate of Rise Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK and YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04	
	DCD-AE3(WHT)	Conventional Category A1R Rate of Rise Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK and YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases)	117g/04	

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DFG-60BLKJ	Conventional Category A2 Fixed Temperature Water Resistant Heat Detector	117g/05
DCD-CE3	Conventional Category CR Rate of Rise High Temperature Heat Detector (YBN-R/6M Base)	117g/06
DCD-CE3(HFP)	Conventional Category CR Rate of Rise High Temperature Heat Detector - White (YBN-R/6M Base)	117g/06
DCD-CE3(WHT)	Conventional Category CR Rate of Rise High Temperature Heat Detector - White (YBN-R/6M Base)	117g/06
ACB-EW	Intelligent Analogue Addressable Category P Heat Detector - Weatherproof (YBN-R/3 base) Note: Categories A1R, A1S, BR, BS, CR and CS when used with ACB-E protocol and categories A1S, BS and CS when used with ATG-E protocol.	117g/10
DFG-60BLJ	Conventional Category A2 Fixed Temperature Water Resistant Heat Detector	117g/12

Bases

YBN-R/3 Addressable Standard Mounting Base (Ivory Plastic)
YBN-R/3(WHT) Addressable Standard Mounting Base (White Plastic)
YBN-R/R4IS Conventional Intrinsically Safe Mounting Base (Ivory Plastic)
YBN-R/R4IS(WHT) Conventional Intrinsically Safe Mounting Base (White Plastic)
YBN-R/6 Conventional Standard Mounting Base (Ivory Plastic)
YBN-R/6(WHT) Conventional Standard Mounting Base (White Plastic)
YBN-R/6M Conventional Standard Marine Mounting Base (Ivory Plastic)
YBN-R/6M(WHT) Conventional Standard Marine Mounting Base (White Plastic)
YBN-R/6SK Conventional Schottky Diode Mounting Base (Ivory Plastic)
YBN-R/6SK(WHT) Conventional Schottky Diode Mounting Base (White Plastic)
YCA-RL/3H2M Addressable Standard Mounting Base (Ivory Plastic)
YBO-BS Addressable Base Sounder (Ivory Plastic)
YBO-BS(WHT) Addressable Base Sounder (White Plastic)
YBO-R/6PA Conventional 2 Wire S Mounting Base
YBO-R/6PA(WHT) Conventional 2 Wire S Mounting Base
YBO-R/6R Conventional Relay Mounting Base Latching (Ivory Plastic)
YBO-R/6R(WHT) Conventional Relay Mounting Base Latching (White Plastic)
YBO-R/6RS Conventional Relay Mounting Base Latching with Schottky Diode (Ivory Plastic)
YBO-R/6RS(WHT) Conventional Relay Mounting Base Latching with Schottky Diode (White Plastic)
YBO-R/6RN Conventional Relay Mounting Base Non-Latching with Schottky Diode (Ivory Plastic)
YBO-R/6RN(WHT) Conventional Relay Mounting Base Non-Latching with Schottky Diode (White Plastic)
YBN-R/3(SCI) Addressable Short Circuit Isolating Mounting Base (Ivory Plastic)
YBN-R/3(WHT)-SCI Addressable Short Circuit Isolating Mounting Base (White Plastic)
YBO-R(SCI)/NS Addressable Negative Switching Short Circuit Isolating Mounting Base (Ivory Plastic)
YBF-RL/4H3H Conventional Mounting Base with Remote Indicator Output
YBF-RL/4H5H Conventional Mounting Base with Remote Indicator Output
YBO-BSB2/RL Addressable Base Sounder Beacon (Red LED) – Ivory Plastic

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	YBO-BSB2(WHT)/RL Addressable Base Sounder Beacon (Red LED) – White Plastic YBO-BSB2(BLK)/RL Addressable Base Sounder Beacon (Red LED) – Black Plastic YBO-BSB2/WL Addressable Base Sounder Beacon (White LED) – Ivory Plastic YBO-BSB2(WHT)/WL Addressable Base Sounder Beacon (White LED) – White Plastic YBO-BSB2(BLK)/WL Addressable Base Sounder Beacon (White LED) – Black Plastic	
TEST STANDARD **(SUCH AS ASTM/BS EN/ DN ETC)**	EN 54-5: 2000 + A1:2002 Test Report EN 54-5:2017 + A1:2018 Standard was updated but no further testing was required.	
TEST DESCRIPTION	**TE204016 Rev 1** **117g/01/02/03/04/05/06** The object of this evaluation was to examine the construction and assess the performance of the Hochiki DCD-1E-IS Intrinsically Safe Heat Detector for compliance with the requirements of EN 54-5: 2001.	**Page 4**
	TE210418 **117g/02/03/04/05/06** The object of this evaluation was to examine the construction and assess the performance of the Hochiki conventional heat detector, Model DFG-60BLKJ for compliance with the requirements of a programme of tests from BS EN 54-5: 20011 and LPCB/VdS Agreement document AD3.12.	**Page 4**
	TE215840 **117g/10** The object of this evaluation was to examine the construction and assess the performance of the Hochiki ACB-E analogue addressable heat detectors fitted with 1) ACB-E Protocol and 2) ATG-E Protocol against the requirements of EN54-5: 20001.	**Page 6**
	TE-P114834 The object of this evaluation was to assess the performance of the Hochiki Europe Ltd, DCD-AE3 and DCD-CE3 heat detectors for compliance with the requirements of EN 54-5:2000 + A1:2002 and EN 50130-4:2011 when used with the YBN-R/6 Conventional Base.	**Page 3**
SPECIFICATION OF TEST SPECIMEN	**TE204016 Rev 1** **117g/01/02/03/04/05/06**	**Page 5**

Equipment

No.	Description	Receipt date
15	Hochiki DCD-1E-IS Intrinsically Safe Heat Detectors	24/05/01
15	Hochiki YBN-R/4IS bases	24/05/01

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117g/02/03/04/05/06

Equipment		
No	**Description**	**Receipt date**
15 off	DFJ-60BLKJ conventional fixed temperature heat detectors	1/5/03

Second Submission

Equipment		
No	**Description / Modifications**	**Receipt date**
2 off	Modified DFJ-60BLKJ conventional fixed temperature heat detectors for EMC testing. Two components were added; a 10nF ceramic capacitor and a 47v Transorb.	1/5/03

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117g/10

Equipment		
No.	**Description**	**Receipt date**
15	ACB-E analogue addressable heat detectors	24/12/2004
15	ACB-EW weatherproof analogue addressable heat detector	24/12/2004
5	YBN-R/3 mounting bases	14/09/2004
10	YBO-R/SCI mounting bases	20/09/2004

Second Submission

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Equipment		
No.	**Description**	**Receipt date**
1	ACB-E analogue addressable heat detector. Modified sample to meet the requirements of the non-compliance - Clause 5.18(c). (Referred to as sample 16 in report)	18/04/2005

Third Submission

Equipment		
No.	**Description**	**Receipt date**
1	ACB-E analogue addressable heat detector. Modified sample to be used for EMC testing Clause 5.18(c) in conjunction with the YBO-R/SCI mounting base (Referred to as sample 17 in report)	26/05/2005

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Page 4

First submission

Equipment		
No.	**Description**	**Receipt date**
15	DCD-AE3 Class A1R Conventional Rate of Rise Temperature Heat Detector	08/05/2019
15	DCD-CE3 Class CR Conventional Rate of Rise High Temperature Heat Detector	08/05/2019
6	YBN-R/6 Conventional Base	08/05/2019

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

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117g/01/02/03/04/05/06

The Hochiki DCD-1E-IS intrinsically safe heat detector in conjunction with the YBN-R/4IS mounting base met all of the requirements of EN 54-5:20001 for a Class A1 detector.

	TE210418 **117g/02/03/04/05/06** Apart from Clause 5.18 Electromagnetic Compatibility (EMC) immunity tests (operational) the Hochiki DFG-60BLKJ conventional heat detector met all clauses specified in LPCB Test schedule 107015/7.0 which were taken from BS EN 54-5:20011 and LPCB/VdS Agreement Document AD 3.12. Clause 5.18 Electromagnetic Compatibility (EMC) immunity tests (operational) were met on modified samples provided for the second submission.	**Page 30**
	TE215840 **117g/10** The Hochiki ACB-E Protocol, Class A1R analogue addressable heat detector in conjunction with the YBN-R/3 and YBO-R/SCI mounting bases met the requirements of a series of tests taken from EN 54-5: 20001 and LPCB/VdS Agreement Document AD3.12 as specified in LPCB test schedule E120218/1.3 on the first submission except for Clause 5.18(c) Conducted disturbances. During the Conducted Disturbances test the panel lost communication with the EUT heat detector when using either the YBN-R/3 or YBO-R/SCI mounting bases. The panel produced an error message reading, "device report internal fault". Modifications to Sample Number 1 were made by the manufacturer. An additional Capacitor (C21) was placed in parallel with Component Z2 resulting in a value of 100nF at 50V. Sample number 1 was then resubmitted as Sample Number 16. The ACB-E Protocol, Class A1R heat detector subsequently met the requirements of Clause 5.18(c) on the second submission using the YBN-R/3 mounting base only. Clauses 5.18(d) and 5.18(e) were repeated using the modified unit. The requirements of these Clauses were met for the second time using the modified unit. The manufacturer submitted a final modified sample (Sample No. 17) for the third submission to be tested to Clause 5.18(c) Conducted Disturbances using the YBO-R/SCI mounting base. The detector was submitted with the following modifications made to the Remote Indicator and Transmit circuit: Capacitor C21 1nF 50V between the RIL (Remote) and Loop. Capacitor C22 22nF 50V across R32 (TR15 base and Vcc 3V). Capacitor C23 1nF 50V across R36 (TR16 base and Vcc 3V). The Hochiki ACB-E Protocol, Class A1R heat detector subsequently met the requirements of Clause 5.18(c) on the third submission using the YBO-R/SCI mounting base.	**Page 79**
BRE GLOBAL LTD. BUCKNALLS LANE WATFORD WD25 9XX, UK	**TE-P114834** The Hochiki Europe Ltd, DCD-AE3 and DCD-CE3 Heat Detectors met the requirements of tests specified in Test Schedule P114834/1.2 taken from EN 54-5:2000 on the first submission.	**Page 23**

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.	117g/01	DCD-1E-IS	2-3-0-345	
	117g/02/03	DFJ-AE3	2-3-500	
	117g/04	DCD-AE3	2-3-500	
	117g/05	DFG-60BLKJ	DFG-60BLKJ	
	117g/06	DCD-CE3	2-3-0-500	
	117g/10	ACB-E	2-8-000-1155-152	

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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 Watford WD25 9XX United Kingdom	**TEST FACILITY ADDRESS / REGION** (STREET / TOWN / CITY / COUNTRY)	Bucknalls Lane Watford WD25 9XX United Kingdom
WEBSITE	https://www.bregroup.com	**WEBSITE**	https://www.bregroup.com
TEL	+44 (0)333 321 88 11	**TEL**	+44 (0)333 321 88 11
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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)	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, UK		

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Shane Bartlett / Hochiki Europe (UK) Ltd	**SIGNATURE**	
EMAIL / TEL	01634 266543 / sbartlett@hochikieurope.com	**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.	**SIGNATURE**	
EMAIL / TEL	Enquiries@bregroup.com +44 (0)333 321 88 11	**CERTIFICATION BODY OFFICIAL SEAL**	BRE GLOBAL LTD. BUCKNALLS LANE WATFORD WD25 9XX, UK
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)**