Date : 20 January 2022

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	TE-P115626-1000 TE-P115627-1000 TE-P115346-1000 Part 2 of 3	**CERTIFICATE NUMBER**	164aa
DATE OF ISSUE	3 July 2020 30 September 2021 9 November 2021	**DATE OF ISSUE**	18 January 2022
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**	**Multi-Criteria Detectors with Short Circuit Isolators** ACC-EN(SCI) ACC-EN(WHT)-SCI ACC-EN(BLK)-SCI
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

N/A

DESCRIPTION OF THE PRODUCT
(TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)

Certified Product	Description	LPCB Ref.No.
ACC-EN(SCI)	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01
ACC-EN(WHT)-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01
ACC-EN(BLK)-SCI	Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01

Bases

YBN-R/3 Standard Base
YBN-R/3(WHT) Standard Base
YBN-R/3(SCI) Short Circuit Isolator Base
YBN-R/3(WHT)-SCI Short Circuit Isolator Base
YBO-R/SCI(RED) Short Circuit Isolator Base
YBO-BS Base Sounder
YBO-BS(WHT) Base Sounder (White)
YBO-BSB2/RL Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL Base Sounder Beacon (Red LED)
YBO-BSB2/WL Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL Base Sounder Beacon (White LED)
YBV-R/4 Addressable Detector Base
YBV-R/4(WHT) Addressable Detector Base (White)
YBO-BS(BLK) Base Sounder
YBO-BSB2(BLK)/RL Base Sounder Beacon
YBO-BSB2(BLK)/WL Base Sounder Beacon
YBN-R/3(BLK) Addressable detector base (Black)
YBN-R/3(BLK)-SCI Short circuit isolator base (Black)
YBO-BS(BLK) Base sounder (Black)
YBO-BSB2(BLK)/RL Base Sounder Beacon (Black) (Red LED)
YBO-BSB2(BLK)/WL Base Sounder Beacon (Black) (White LED)
YBV-R/4(BLK) Standard base

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TEST STANDARD **(SUCH AS ASTM/BS EN/ DN ETC)**	**P115626** EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1: 2002 + A2: 2006 EN 54-17:2005 **P115627** EN 54-29:2015 **P115346** EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1: 2002 + A2: 2006 EN 54-17:2005 The below Standards have been updated during P120352, but no further testing was required: EN 54-5:2017 + A1:2018 EN 54-7:2018	Page 5 Page 4 Page 6
TEST DESCRIPTION	**P115626** The object of this evaluation was to assess the performance of the ACC-E(WHT)-SCI, ACC-E(SCI), ACC-EN(WHT)-SCI, ATJ-E(WHT)-SCI, ATJ-EN(SCI) and AJT-EN(WHT)-SCI range of detectors, produced at an additional manufacturing site, for compliance with the requirements of EN 54-5:2000 + A1:2002; EN 54-7:2000 + A1:2002 + A2:2006 and EN 54-17:2005 when used in conjunction with YBN-R/3(WHT)-SCI and YBV-R/4(WHT) mounting bases. **P115627** The object of this evaluation was to assess the performance of the Hochiki Europe (UK) Ltd., ACC-EN series of multi-criteria detectors and ACC-EN(SCI) series of multi-criteria detectors with short circuit isolator for compliance with the requirements of selected Clauses taken from EN 54-29:2015 when used with YBN-R/3 base. **P115346** The object of this evaluation was to assess the performance of the ACC-E(WHT)-SCI, ACC-EN(SCI), ACC-EN(WHT)-SCI, ACC-EN(BLK)-SCI, ATJ-E(WHT)-SCI, ATJ-EN(SCI), ATJ-EN(WHT)-SCI and the ATJ-EN(BLK)-SCI range of detectors, produced using alternative components for compliance with the requirements of EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006 and EN 54-17:2005 when used with YBN-P/3(WHT)-SCI and YBV-R/4(WHT) mounting bases.	Page 5 Page 4 Page 6

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SPECIFICATION OF TEST SPECIMEN

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First submission

Equipment		
Quantity.	**Description**	**Receipt date**
2	HFP-AP-AS Control Panel	05/11/2019
20	ACC-E(WHT)SCI intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator (White enclosure)	05/11/2019
20	ACC-EN(WHT)SCI intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator (White enclosure)	05/11/2019
15	ATJ-E(WHT)SCI intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (White enclosure)	05/11/2019
15	ATJ-EN(WHT)SCI intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (White enclosure)	05/11/2019
20	YBV-R/4(WHT)	05/11/2019
20	YBN-R/3(WHT)SCI	05/11/2019

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Equipment		
Qty.	**Description**	**Receipt date**
22	ACC-EN(BLK)	12/11/2019
22	ACC-EN(BLK)-SCI	12/11/2019

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First submission

Equipment		
No.	**Description**	**Receipt date**
1	HFP AP-ASL Fire alarm panel	01/10/2019
30	YBN-R/3(BLK)SCI Base	01/10/2019
20	YBV-R/4(WHT)	05/11/2019
22	ACC-E(WHT)-SCI, intelligent analogue addressable multi-criteria detector with short circuit isolator (White enclosure)	03/12/2019
22	ACC-EN(WHT)-SCI, intelligent analogue addressable multi-criteria detector with short circuit isolator (White enclosure)	03/12/2019
16	ATJ-EN(BLK)SCI intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (White enclosure)	20/04/2020

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

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ACC-EN(SCI)

EN 54-7

EN 54-7:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 12.1 of this test report	Pass
4.10 – Data	See Section 12.2 of this test report	Pass

EN 54-5 — Page 31

EN 54-5:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 14.1 of this test report	Pass

4.10 – Data	See Section 14.2 of this test report	Pass

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EN 54-17

EN 54-17:2005 Clause – Title/Test	Comments	Result
4.7 – Marking	See Section 16.1 of this test report	Pass
4.8 – Data	See Section 16.2 of this test report	Pass

ACC-EN(WHT)-SCI

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EN 54-7

EN 54-7:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 18.1 of this test report	Pass
4.10 – Data	See Section 18.2 of this test report	Pass

			Maximum RTV dB/m	Minimum RTV dB/m	Ratio	Result
5.4 – Reproducibility Mode 0 @ 2%	(Ratio 1)	Mean RTV	0.09	-	1.15	Pass
	(Ratio 2)	0.078	-	0.06	1.30	
5.4 – Reproducibility Mode 0 @ 4.5%	(Ratio 1)	Mean RTV	0.18	-	1.18	Pass
	(Ratio 2)	0.153	-	0.13	1.18	

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EN 54-5

EN 54-5:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 20.1 of this test report	Pass
4.10 – Data	See Section 20.2 of this test report	Pass
5.8 – Reproducibility (Class C)	See Section 20.3 of this test report	Pass

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EN 54-17

EN 54-17:2005 Clause – Title/Test	Comments	Result
4.7 – Marking	See Section 22.1 of this test report	Pass
4.8 – Data	See Section 22.2 of this test report	Pass
5.2 – Reproducibility	See Section 22.3 of this test report	Pass

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ACC-EN(SCI)

EN 54-29:2015 Clause – Title/Test	Comment	Result
8 – Marking, Labelling and Packaging	See Section 12.1 of this test report	Pass

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ACC-EN(WHT)-SCI

EN 54-29:2015 Clause – Title/Test	Comment	Result
8 – Marking, Labelling and Packaging	See Section 14.1 of this test report	Pass

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ACC-EN(BLK)-SCI Page 21

EN 54-29:2015 Clause – Title/Test	Comment	Result
5.2.7 – Reproducibility of smoke response – 2.0% Sensitivity	See Section 16.1 of this test report	Pass
5.2.7 – Reproducibility of smoke response – 4.5% Sensitivity	See Section 16.2 of this test report	Pass
5.2.8 – Reproducibility of heat response – Class A1R	See Section 16.3 of this test report	Pass
5.18 – Fire sensitivity – 4.5% Sensitivity	See Section 16.4 of this test report	Pass
8 – Marking, Labelling and Packaging	See Section 16.5 of this test report	Pass

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ACC-EN(SCI) Page 28

EN 54-7

EN 54-7:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 12.1 of this test report	Pass
4.10 – Data	See Section 12.2 of this test report	Pass

EN 54-5 Page 31

EN 54-5:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 14.1 of this test report	Pass
4.10 – Data	See Section 14.2 of this test report	Pass

EN 54-17 Page 34

EN 54-17:2005 Clause – Title/Test	Comments	Result
4.7 – Marking	See Section 16.1 of this test report	Pass
4.8 – Data	See Section 16.2 of this test report	Pass

ACC-EN(WHT)-SCI Page 37

EN 54-7

EN 54-7:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 18.1 of this test report	Pass
4.10 – Data	See Section 18.2 of this test report	Pass

			Maximum RTV dB/m	Minimum RTV dB/m	Ratio	Result
5.4 – Reproducibility Mode 0 @ 2%	(Ratio 1)	Mean RTV	0.11	-	1.22	Pass
	(Ratio 2)	0.09	-	0.08	1.13	
5.4 – Reproducibility Mode 0 @ 4.5%	(Ratio 1)	Mean RTV	0.19	-	1.12	Pass
	(Ratio 2)	0.17	-	0.14	1.21	

	Maximum RTV dB/m	Minimum RTV dB/m	Ratio	Result

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5.8 – Dry heat (operational)	Mode 0 2% Sensitivity	0.11	0.09	1.22	Pass
	Mode 0 4.5% Sensitivity	0.17	0.16	1.06	Pass
5.9 – Cold (operational)	Mode 0 2% Sensitivity	0.10	0.09	1.11	Pass
	Mode 0 4.5% Sensitivity	0.16	0.15	1.07	Pass
5.10 – Damp heat steady state (operational)	Mode 0 2% Sensitivity	0.11	0.09	1.22	Pass
	Mode 0 4.5% Sensitivity	0.18	0.15	0.12	Pass
5.11 – Damp heat steady state (endurance)	Mode 0 2% Sensitivity	0.08	0.08	1.00	Pass
	Mode 0 4.5% Sensitivity	0.18	0.15	1.20	Pass
5.12 – Sulphur dioxide corrosion (endurance)	Mode 0 2% Sensitivity	0.08	0.07	1.14	Pass
	Mode 0 4.5% Sensitivity	0.17	0.15	1.13	Pass

EN 54-5

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EN 54-5:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 20.1 of this test report	Pass
4.10 – Data	See Section 20.2 of this test report	Pass
5.8 – Reproducibility	See Section 20.3 of this test report	Pass

	Rate of rise	Response time before test mm:ss	Response time after test mm:ss	Change in response mm:ss	Result
5.9 – Cold (operational)	3°C/min	11:38	11:16	00:22	Pass
	20°C/min	01:44	01:36	00:08	Pass
5.10 – Dry Heat (Endurance)	3°C/min	11:23	11:17	00:06	Pass
	20°C/min	01:44	01:40	00:04	Pass
5.11 – Damp heat cyclic (operational)	3°C/min	11:22	11:11	00:11	Pass
	20°C/min	01:36	01:34	00:02	Pass
5.12 – Damp heat steady state (endurance)	3°C/min	11:17	11:25	00:08	Pass
	20°C/min	01:33	01:40	00:07	Pass
5.13 – Sulphur dioxide corrosion (endurance)	3°C/min	11:40	11:34	00:06	Pass
	20°C/min	01:38	01:45	00:07	Pass

EN 54-17

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EN 54-17:2005 Clause – Title/Test	Comments	Result
4.7 – Marking	See Section 22.1 of this test report	Pass
4.8 – Data	See Section 22.2 of this test report	Pass
5.2 - Reproducibility	See Section 22.3 of this test report	Pass

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Measurements during and after conditioning	Direction	Parameter						
		I_L mA	Z_c mΩ	V_{SO} V	I_L mA	V_{SC} mV	Z_c mΩ	Result
5.4 – Dry Heat (operational) Last hour of conditioning	Forward	0.37	68.3	11.2	0.37	900	68.5	Pass
	Reverse	0.37	68.2	11.1	0.37	912	64.1	Pass
5.4 – Dry Heat (operational) Final measurements	Forward	0.36	58.6	10.3	0.37	704	57.8	Pass
	Reverse	0.37	58.8	10.2	0.36	768	57.5	Pass
5.5 – Cold (operational) Last hour of conditioning	Forward	0.36	47.0	9.1	0.36	616	54.3	Pass
	Reverse	0.36	46.9	9.2	0.36	624	54.3	Pass
5.5 – Cold (operational) Final measurements	Forward	0.36	56.3	10.2	0.36	720	60.6	Pass
	Reverse	0.37	56.5	10.1	0.37	688	56.2	Pass
5.6 – Damp heat cyclic (operational)	Forward	0.37	55.5	10.1	0.39	792	65.4	Pass
	Reverse	0.39	55.5	10.1	0.39	720	54.3	Pass
5.7 – Damp heat steady state (endurance)	Forward	0.37	58.9	10.1	0.37	728	54.1	Pass
	Reverse	0.37	58.2	10.1	0.34	696	60.2	Pass
5.8 – Sulphur Dioxide SO_2 corrosion (endurance)	Forward	0.38	60.8	10.5	0.37	776	58.5	Pass
	Reverse	0.37	61.2	10.5	0.37	712	54.9	Pass

ACC-EN(BLK)-SCI

EN 54-7 — Page 52

EN 54-7:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 24.1 of this test report	Pass
4.10 – Data	See Section 24.2 of this test report	Pass

EN 54-5 — Page 55

EN 54-5:2000 Clause – Title/Test	Comments	Result
4.9 – Marking	See Section 26.1 of this test report	Pass
4.10 – Data	See Section 26.2 of this test report	Pass

EN 54-17 — Page 58

EN 54-17:2005 Clause – Title/Test	Comments	Result
4.7 – Marking	See Section 28.1 of this test report	Pass
4.8 – Data	See Section 28.2 of this test report	Pass

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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.**	**2-3-0-246 - Installation Instructions** 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. 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		

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(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Richard Anderson	**SIGNATURE**	Digitally signed by Richard Anderson Date: 2022.02.02 19:46:32
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	BRE Global Ltd. P Halligan	**SIGNATURE**	BRE GLOBAL LTD BUCKNALLS 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			

ATTACHMENTS:

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