

Certificate of Product Approval

Certificate Number: 117p-(cl-1)

Issue: 03

Hochiki Europe (UK) Ltd

Grosvenor Road
Gillingham Business Park
Gillingham
Kent
ME8 0SA
United Kingdom

is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Multi-Criteria Detectors

ACD-E
ACD-E(WHT)
ACD-E(HFP)
ACD-EN
ACD-EN(WHT)
(refer to Appendix for details)

Standards

EN 54-5:2017 + A1:2018
EN 54-7:2018
EN 54-26:2015
EN 54-29:2015
EN 54-30:2015
EN 54-31:2015
CEA 4021:2003

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Appendix to Certificate No: 117p-(cl-1)

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Hochiki Europe (UK) Ltd

Certified Product	Description	LPCB Ref.No.																																				
ACD-E	<p>Intelligent Analogue Addressable Multi-Criteria Detector (Ivory colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% <p>Modes:</p> <table> <tbody> <tr><td>9A*</td><td>Smoke/Heat/Co Combine (Default Mode)</td></tr> <tr><td>9B</td><td>Co/Heat combine, Heat (RoR)</td></tr> <tr><td>80*</td><td>Smoke/Heat combine</td></tr> <tr><td>81</td><td>Smoke/Heat combine</td></tr> <tr><td>82*</td><td>Smoke</td></tr> <tr><td>83</td><td>Smoke</td></tr> <tr><td>87</td><td>Heat (FT) Heat (RoR) (Fixed Level 1 – Category A1)</td></tr> <tr><td>88</td><td>Heat (FT) Heat (RoR) (Fixed Level 2 – Category A1R)</td></tr> <tr><td>89</td><td>Heat (FT) (Fixed Level 3 – Category A1S)</td></tr> <tr><td>8A</td><td>Heat (FT) Heat (RoR) (Fixed Level 4 – Category C)</td></tr> <tr><td>8B</td><td>Heat (FT) Heat (RoR) (Fixed Level 5 – Category CR)</td></tr> <tr><td>8C</td><td>Heat (FT) (Fixed Level 6 – Category CS)</td></tr> <tr><td>8D</td><td>Smoke, Co, Heat (FT), Heat (RoR), COHb</td></tr> <tr><td>8E*</td><td>Smoke/Heat Combine, COHb</td></tr> <tr><td>8F*</td><td>Smoke, COHb</td></tr> <tr><td>93</td><td>Heat (FT), Heat (RoR), COHb (Fixed Level 1 – Category A1) +COHb</td></tr> <tr><td>94</td><td>Heat (FT), Heat (RoR), COHb (Fixed Level 2 – Category A1R) +COHb</td></tr> <tr><td>95</td><td>Heat (FT), COHb (Fixed Level 3 – Category A1S) +COHb</td></tr> </tbody> </table>	9A*	Smoke/Heat/Co Combine (Default Mode)	9B	Co/Heat combine, Heat (RoR)	80*	Smoke/Heat combine	81	Smoke/Heat combine	82*	Smoke	83	Smoke	87	Heat (FT) Heat (RoR) (Fixed Level 1 – Category A1)	88	Heat (FT) Heat (RoR) (Fixed Level 2 – Category A1R)	89	Heat (FT) (Fixed Level 3 – Category A1S)	8A	Heat (FT) Heat (RoR) (Fixed Level 4 – Category C)	8B	Heat (FT) Heat (RoR) (Fixed Level 5 – Category CR)	8C	Heat (FT) (Fixed Level 6 – Category CS)	8D	Smoke, Co, Heat (FT), Heat (RoR), COHb	8E*	Smoke/Heat Combine, COHb	8F*	Smoke, COHb	93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 – Category A1) +COHb	94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 – Category A1R) +COHb	95	Heat (FT), COHb (Fixed Level 3 – Category A1S) +COHb	117p/01
9A*	Smoke/Heat/Co Combine (Default Mode)																																					
9B	Co/Heat combine, Heat (RoR)																																					
80*	Smoke/Heat combine																																					
81	Smoke/Heat combine																																					
82*	Smoke																																					
83	Smoke																																					
87	Heat (FT) Heat (RoR) (Fixed Level 1 – Category A1)																																					
88	Heat (FT) Heat (RoR) (Fixed Level 2 – Category A1R)																																					
89	Heat (FT) (Fixed Level 3 – Category A1S)																																					
8A	Heat (FT) Heat (RoR) (Fixed Level 4 – Category C)																																					
8B	Heat (FT) Heat (RoR) (Fixed Level 5 – Category CR)																																					
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8E*	Smoke/Heat Combine, COHb																																					
8F*	Smoke, COHb																																					
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 – Category A1) +COHb																																					
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 – Category A1R) +COHb																																					
95	Heat (FT), COHb (Fixed Level 3 – Category A1S) +COHb																																					

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Certified Product	Description	LPCB Ref.No.
	<p>96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 – Category C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 – Category CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 – Category CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb COHb 9C COHb 9D CO</p> <p>FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function</p>	
ACD-E(WHT)	<p>Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% <p>Modes:</p> <p>9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke</p>	117p/01

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Certified Product	Description	LPCB Ref.No.
	<p>87 Heat (FT) Heat (RoR) (Fixed Level 1 – Category A1)</p> <p>88 Heat (FT) Heat (RoR) (Fixed Level 2 – Category A1R)</p> <p>89 Heat (FT) (Fixed Level 3 – Category A1S)</p> <p>8A Heat (FT) Heat (RoR) (Fixed Level 4 – Category C)</p> <p>8B Heat (FT) Heat (RoR) (Fixed Level 5 – Category CR)</p> <p>8C Heat (FT) (Fixed Level 6 – Category CS)</p> <p>8D Smoke, Co, Heat (FT), Heat (RoR), COHb</p> <p>8E* Smoke/Heat Combine, COHb</p> <p>8F* Smoke, COHb</p> <p>93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 – Category A1) +COHb</p> <p>94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb</p> <p>95 Heat (FT), COHb (Fixed Level 3 – Category A1S) +COHb</p> <p>96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 – Category C) +COHb</p> <p>97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 – Category CR) +COHb</p> <p>98 Heat (FT), COHb (Fixed Level 6 – Category CS) +COHb</p> <p>99* COHb</p> <p>9C COHb</p> <p>9D CO</p> <p>FT = Fixed Temperature</p> <p>RoR = Rate of Rise</p> <p>COHb = Carboxyhemoglobin</p> <p>* Reduced false alarm function</p>	
ACD-E(HFP)	<p>Intelligent Analogue Addressable Multi-Criteria Detector (White colour)</p> <p>(YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)</p> <p>Notes:</p>	117p/01

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Certified Product	Description	LPCB Ref.No.
	<p>1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR</p> <p>2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5%</p> <p>Modes:</p> <p>9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 – Category A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 – Category A1R) 89 Heat (FT) (Fixed Level 3 – Category A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 – Category C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 – Category CR) 8C Heat (FT) (Fixed Level 6 – Category CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb 8E* Smoke/Heat Combine, COHb 8F* Smoke, COHb 93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 – Category A1) +COHb 94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb 95 Heat (FT), COHb (Fixed Level 3 – Category A1S) +COHb 96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 – Category C) +COHb 97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 – Category CR) +COHb 98 Heat (FT), COHb (Fixed Level 6 – Category CS) +COHb 99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb 9C COHb 9D CO</p>	

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Certified Product	Description	LPCB Ref.No.
	<p>FT = Fixed Temperature RoR = Rate of Rise COHb = Carboxyhemoglobin * Reduced false alarm function</p>	
ACD-EN	<p>Intelligent Analogue Addressable Multi-Criteria Detector (Ivory colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% <p>Modes:</p> <p>9A* Smoke/Heat/Co Combine (Default Mode) 9B Co/Heat combine, Heat (RoR) 80* Smoke/Heat combine 81 Smoke/Heat combine 82* Smoke 83 Smoke 87 Heat (FT) Heat (RoR) (Fixed Level 1 – Category A1) 88 Heat (FT) Heat (RoR) (Fixed Level 2 – Category A1R) 89 Heat (FT) (Fixed Level 3 – Category A1S) 8A Heat (FT) Heat (RoR) (Fixed Level 4 – Category C) 8B Heat (FT) Heat (RoR) (Fixed Level 5 – Category CR) 8C Heat (FT) (Fixed Level 6 – Category CS) 8D Smoke, Co, Heat (FT), Heat (RoR), COHb</p>	117p/02

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Certified Product	Description	LPCB Ref.No.
	<p>8E* Smoke/Heat Combine, COHb</p> <p>8F* Smoke, COHb</p> <p>93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 – Category A1) +COHb</p> <p>94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb</p> <p>95 Heat (FT), COHb (Fixed Level 3 – Category A1S) +COHb</p> <p>96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 – Category C) +COHb</p> <p>97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 – Category CR) +COHb</p> <p>98 Heat (FT), COHb (Fixed Level 6 – Category CS) +COHb</p> <p>99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb</p> <p>9C COHb</p> <p>9D CO</p> <p>FT = Fixed Temperature</p> <p>RoR = Rate of Rise</p> <p>COHb = Carboxyhemoglobin</p> <p>* Reduced false alarm function</p>	
ACD-EN(WHT)	<p>Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Categories A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% <p>Modes:</p> <p>9A* Smoke/Heat/Co Combine (Default Mode)</p>	117p/02

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Certified Product	Description	LPCB Ref.No.
9B	Co/Heat combine, Heat (RoR)	
80*	Smoke/Heat combine	
81	Smoke/Heat combine	
82*	Smoke	
83	Smoke	
87	Heat (FT) Heat (RoR) (Fixed Level 1 – Category A1)	
88	Heat (FT) Heat (RoR) (Fixed Level 2 – Category A1R)	
89	Heat (FT) (Fixed Level 3 – Category A1S)	
8A	Heat (FT) Heat (RoR) (Fixed Level 4 – Category C)	
8B	Heat (FT) Heat (RoR) (Fixed Level 5 – Category CR)	
8C	Heat (FT) (Fixed Level 6 – Category CS)	
8D	Smoke, Co, Heat (FT), Heat (RoR), COHb	
8E*	Smoke/Heat Combine, COHb	
8F*	Smoke, COHb	
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 – Category A1) +COHb	
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Category A1R) +COHb	
95	Heat (FT), COHb (Fixed Level 3 – Category A1S) +COHb	
96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 – Category C) +COHb	
97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 – Category CR) +COHb	
98	Heat (FT), COHb (Fixed Level 6 – Category CS) +COHb	
99*	Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb	
9C	COHb	
9D	CO	
FT	= Fixed Temperature	
RoR	= Rate of Rise	
COHb	= Carboxyhemoglobin	
* Reduced false alarm function		

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Hochiki Europe (UK) Ltd

Bases

YBN-R/3	Standard Analogue Mounting Base
YBN-R/3(WHT)	Standard Analogue Mounting Base
YBN-R/3(SCI)	Short Circuit Isolator Base
YBN-R/3(WHT)-SCI	Short Circuit Isolator Base
YBO-BS	Base Sounder
YBO-BS(WHT)	Base Sounder
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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