Date : 31 January 2022

# CERTIFICATE OF COMPLIANCE

| This certificate of compliance validates the following | | | |
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| **TEST REPORT NUMBER** 'Assessment Reports' are not acceptable | TE285213 Revision 2<br>TE294541 | **CERTIFICATE NUMBER** | 164s |
| **DATE OF ISSUE** | 17 September 2020<br>5 April 2016 | **DATE OF ISSUE** | 27 March 2019 |
| **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<br>Gillingham Business Park<br>Gillingham<br>Kent<br>ME8 0SA<br>United Kingdom | **MODEL / NO** | **Visual Alarm Devices**<br>CHQ-CB(RED)/WL-15<br>CHQ-CB(RED)/WL-15-HFP<br>CHQ-CB(WHT)/WL-15<br>CHQ-CB(WHT)/WL-15-HFP<br>CHQ-CB(RED)/WL<br>CHQ-CB(RED)/WL-HFP<br>CHQ-CB(WHT)/WL<br>CHQ-CB(WHT)/WL-HFP<br>CHQ-CB(RED)/RL<br>CHQ-CB(RED)/RL-HFP<br>CHQ-CB(WHT)/RL<br>CHQ-CB(WHT)/RL-HFP<br>CHQ-CB/WL-15<br>CHQ-CB/WL<br>CHQ-CB/RL<br>CHQ-WB/WL<br>CHQ-WB(WHT)WL<br>CHQ-WB(WHT)/WL-HFP<br>CHQ-WB(RED)/WL<br>CHQ-WB(RED)/WL-HFP<br>CHQ-WB/RL<br>CHQ-WB(WHT)/RL<br>CHQ-WB(WHT)/RL-HFP<br>CHQ-WB(RED)/RL<br>CHQ-WB(RED)/RL-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 |
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| **DESCRIPTION OF THE PRODUCT**<br>(TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC) | CHQ-CB(RED)/WL-15 | Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68,<br>O-5-5.4<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-1.54-5.3, O-1.7-5<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-1.5, O-2.6-8<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | 164s/01 | N/A |
| | CHQ-CB(WHT)/WL-15 | Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4 | 164s/02 | |

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| | | - LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68,<br>O-5-5.4<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-1.54-5.3, O-1.7-5<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-1.5, O-2.6-8<br>- LOL 1<br>- Flash rate 1Hz<br>Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| | CHQ-CB(RED)/WL | Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C–3 –6.5, O-1.18-7.1, O-3.26–3.76<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:<br>- Light Coverage Distance O-2.2-5.2<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2.4-5.9, O-2.75-5.1<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: | 164s/03 |

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| | - Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| CHQ-CB(WHT)/WL | Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C–3 –6.5, O-1.18-7.1, O-3.26–3.76<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:<br>- Light Coverage Distance O-2.2-5.2<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2.4-5.9, O-2.75-5.1<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | 164s/04 |
| CHQ-CB(RED)/RL | Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization | 164s/05 |

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| | | 3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8,<br>O-4.3-4.5<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:<br>- Light Coverage Distance O-2.05-3.8<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK<br>weatherproofing kit | |
| | CHQ-CB(WHT)/RL | Addressable Ceiling VAD (Red LED)<br>(YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8,<br>O-4.3-4.5<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:<br>- Light Coverage Distance O-2.05-3.8<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: | 164s/06 |

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| | | - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br><br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| | CHQ-CB/WL-15 | Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68,<br>O-5-5.4<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-1.54-5.3, O-1.7-5<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-1.5, O-2.6-8<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | 164s/07 |
| | CHQ-CB/WL | Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C–3 –6.5, O-1.18-7.1, O-3.26–3.76<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9<br>- LOL 1 | 164s/08 |

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| | | - Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:<br>- Light Coverage Distance O-2.2-5.2<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2.4-5.9, O-2.75-5.1<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| | CHQ-CB/RL | Addressable Ceiling VAD (Red LED)<br>(YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8,<br>O-4.3-4.5<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:<br>- Light Coverage Distance O-2.05-3.8<br>- LOL 0<br>- Flash rate 1Hz<br>- Synchronization<br>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: | 164s/09 |

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| | | - Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| | CHQ-WB/WL | Intelligent Analogue Addressable Type A Wall VAD (White LED)<br>(YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-7<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-1<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>6. The Default factory setting is LOL 1, 0.5Hz<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | 164s/10 |
| | CHQ-WB(WHT)/WL | Intelligent Analogue Addressable Type A Wall VAD (White LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-7<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-1 | 164s/11 |

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| | - LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>6. The Default factory setting is LOL 1, 0.5Hz<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| CHQ-WB(RED)/WL | Intelligent Analogue Addressable Type A Wall VAD (White LED)-Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes:<br>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-7<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-1<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>6. The Default factory setting is LOL 1, 0.5Hz<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | 164s/12 |
| CHQ-WB/RL | Intelligent Analogue Addressable Type A Wall VAD (Red LED)<br>(YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes<br>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2-3*<br>- Light coverage defined as per standard W-rating but with a<br>maximum height of 2m(rectangular)<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5 | 164s/13 |

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| | | - LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.7-1.07<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-4<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>6. The Default factory setting is LOL 1, 0.5Hz<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| | CHQ-WB(WHT)/RL | Intelligent Analogue Addressable Type A Wall VAD (Red LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes<br>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2-3*<br>* Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular)<br>- LOL 0<br>- Flash rate 0.5Hz<br>- Synchronization<br>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.7-1.07<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-4<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>6. The Default factory setting is LOL 1, 0.5Hz<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | 164s/14 |
| | CHQ-WB(RED)/RL | Intelligent Analogue Addressable Type A Wall VAD (Red LED)-Red Body<br>(YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)<br>Notes<br>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance O-2-3*<br>* Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular)<br>- LOL 0<br>- Flash rate 0.5Hz | 164s/15 |

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| | | |
|---|---|---|
| | - Synchronization<br>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5<br>- LOL 1<br>- Flash rate 0.5Hz<br>- Synchronization<br>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-5.5<br>- LOL 2<br>- Flash rate 0.5Hz<br>- Synchronization<br>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.7-1.07<br>- LOL 1<br>- Flash rate 1Hz<br>- Synchronization<br>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<br>- Light Coverage Distance W-2.4-4<br>- LOL 2<br>- Flash rate 1Hz<br>- Synchronization<br>6. The Default factory setting is LOL 1, 0.5Hz<br>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit | |
| | **Bases**<br><br>YBO-R/SCI Short circuit isolator base<br>YBN-R/3(SCI) Short circuit isolator base<br>YBN-R/3 Standard base<br>YBO-BSB2 (RL & WL) Base sounder beacon<br>YBO-BSB Base sounder beacon<br>YBO-BS Base sounder<br><br>**Ancillary**<br>WS2-WPK Waterproofing kit | |
| **TEST STANDARD**<br>**(SUCH AS ASTM/BS EN/ DN ETC)** | **TE285213 Revision 2**<br>EN 54-23:2010<br><br>**TE294541**<br>EN 54-23:2010 | Page 3<br><br>Page 5 |
| **TEST DESCRIPTION**<br><br>BRE GLOBAL LTD<br>BUCKNALLS LANE<br>WATFORD WD25 9XX<br>U.K. | **TE285213 Revision 2**<br>The object of this evaluation was to assess the performance of the Hochiki Europe (UK) Ltd, CHQ-CB/WL, CHQ-CB/WL-15 and CHQ-CB/RL visual alarm devices for compliance with the requirements of EN 54-23:2010.<br><br>**TE294541**<br>The object of this evaluation was to assess the performance of the Hochiki intelligent analogue addressable wall beacon, models: CHQ-WB/WL, CHQ-WB/RL, CHQ-WB (WHT)/WL, CHQ-WB (RED)/WL, CHQ-WB (WHT)/RL and CHQ-WB (RED)/RL visual alarm device for compliance with the requirements of EN 54-23:2010.<br><br>CHQ-WB/WL and CHQ-WB/RL are variants of the previously approved CHQ-CB/WL and CHQ-CB/RL model range (ref project no.E122817, test | Page 3<br><br>Page 5 |

report no. TE285213). They all have identical construction including PCB, Piezo and body except wall and ceiling mounted have different lenses.

The only difference is the ceiling mounted beacon uses a different lens to the wall beacon.

Testing was performed on CHQ-WB (RED)/WL and CHQ-WB (RED)/RL models due to their similarities in construction.

It should be noted that all models are type A, but become type B when used with the ancillary waterproofing kit (WS2-WPK).

**SPECIFICATION OF TEST SPECIMEN**

**TE285213 Revision 2** — Page 4

| Equipment submitted for testing | | |
|---|---|---|
| **No.** | **Description** | **Receipt date** |
| 10 | CHQ-CB/WL VAD | 18/11/2013 |
| 10 | CHQ-CB/WL-15 VAD | 18/11/2013 |
| 10 | CHQ-CB/RL VAD | 18/11/2013 |
| 10 | YBN-R/3(SCI) VAD | 18/11/2013 |
| 4 | WS2-WPK ancillary waterproofing kit | 18/11/2013 |

**TE294541** — Page 6

| Equipment submitted for testing | | |
|---|---|---|
| **No.** | **Description** | **Receipt date** |
| 8 | CHQ-WB(RED)/WL- Intelligent analogue addressable wall beacon with WHITE coloured LED | 26/09/2014 |
| 8 | CHQ-WB(RED)/RL- Intelligent analogue addressable wall beacon with RED coloured LED | 26/09/2014 |
| 10 | YBN-R/3(SCI) bases | 26/09/2014 |
| 1 | WS2-WPK water proofing kit | 29/01/2015 |

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

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**CHQ-CB/W**

| EN 54-23:2010 Clause – Title/Test | | Comments | Result |
|---|---|---|---|
| 4.3.6 | Marking and data | See Section 6.1 of this test report | Pass |
| 5.1.7 | Reproducibility | See Section 6.2 of this test report | Pass |
| 5.3.1 | Coverage volume | See Section 6.3 of this test report | Pass |
| | | **Assessments** | |
| 5.2.8 | Software controlled devices | See report 285213-SW | Pass |
| 5.3.2 | Variation of light output | Output at 1min= 5.83, 10min= 5.81, 20min= 5.81, 30min= 5.81 | Pass |
| 5.3.3 | Min / max light intensity | % of measurements ≥ 1Cd =100, > 500Cd =0 | Pass |
| 5.3.4 | Light colour | white | Pass |
| 5.3.5 | Light pattern / frequency | Flash rate (0.5Hz) = 0.52Hz, $P_{10T} - P_{10L}$ = 68.89sec; Flash rate (1Hz) = 1.05Hz, $P_{10T} - P_{10L}$ = 34.28sec | Pass |

## CHQ-CB/WL-15

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| EN 54-23:2010 Clause – Title/Test | | Comments | Result |
|---|---|---|---|
| 4.3.6 | Marking and data | See Section 8.1 of this test report | Pass |
| 5.1.7 | Reproducibility | See Section 8.2 of this test report | Pass |
| 5.3.1 | Coverage volume | See Section 8.3 of this test report | Pass |
| | | **Assessments** | |
| 5.2.2 | Provision for external conductors | Visual inspection | Pass |
| 5.2.3 | Flammability of materials | See certificates FR3010 and UL-PC L1225Z | Pass |
| 5.2.4 | Enclosure protection | Tested to IP33C | Pass |
| 5.2.5 | Access | Visual inspection | Pass |
| 5.2.6 | Manufacturer's adjustments | Visual inspection | Pass |
| 5.2.7 | On site adjustments | Visual inspection | Pass |
| 5.2.8 | Software controlled devices | See report 285213-SW | Pass |
| 5.3.2 | Variation of light output | Output at 1min= 8.95, 10min= 8.95, 20min= 8.94, 30min= 8.95 | Pass |
| 5.3.3 | Min / max light intensity | % of measurements ≥ 1Cd =100, 500Cd > =0 | Pass |
| 5.3.4 | Light colour | white | Pass |
| 5.3.5 | Light pattern / frequency | Flash rate (0.5Hz) = 0.53Hz $P_{10T} - P_{10L}$ = 68.96sec<br>Flash rate (1Hz) = 1.05Hz $P_{10T} - P_{10L}$ = 34.33sec | Pass |
| 5.3.7 | Synchronisation (option) | At 0.5Hz setting Time difference at 0 min =0.0ms<br>Max difference =0.0ms<br>At 1Hz setting Time difference at 0 min =0.0ms<br>Max difference =0.0ms | Pass |

## CHQ-CB/RL

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| EN 54-23:2010 Clause – Title/Test | | Comments | | | | Result |
|---|---|---|---|---|---|---|
| 4.3.6 | Marking and data | See Section 10.1 of this test report | | | | Pass |
| 5.1.7 | Reproducibility | See Section 10.2 of this test report | | | | Pass |
| 5.3.1 | Coverage volume | See Section 10.3 of this test report | | | | Pass |
| | | **Assessments** | | | | |
| 5.2.8 | Software controlled devices | See report 285213-SW | | | | Pass |
| 5.3.2 | Variation of light output | Output at 1min= 5.06, 10min= 5.02, 20min= 5.00, 30min= 4.99 | | | | Pass |
| 5.3.3 | Min / max light intensity | % of measurements ≥ 1Cd =100, 500Cd > =0 | | | | Pass |
| 5.3.4 | Light colour | white | | | | Pass |
| 5.3.5 | Light pattern / frequency | Flash rate (0.5Hz) = 0.53Hz $P_{10T} - P_{10L}$ = 68.95sec<br>Flash rate (1Hz) = 1.05Hz $P_{10T} - P_{10L}$ = 34.33sec | | | | Pass |
| | | **Measurements $E_{aff}$ (lm/m²)** | | | | **Result** |
| | | **Pre - conditioning** | **Final hour** | **After conditioning** | **$Q_{max} : Q_{min}$** | |
| 5.2.1 | Duration of operation | 0.71 | | 0.69 | 1.03 | Pass |

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## CHQ-WB(RED)/WL

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| EN 54-23:2010 Clause – Title/Test | | | Comments | | Result |
|---|---|---|---|---|---|
| 4.3.6 | Marking and data | | See section 7.1 of this test report | | Pass |
| 5.1.7 | Reproducibility | | See section 7.2 of this test report | | Pass |
| 5.3.1 | Coverage volume | | See section 7.3 of this test report | | Pass |
| 5.2.4 | Enclosure protection – IP 21 | | See section 7.4 of this test report | | Pass |
| 5.2.4 | Enclosure protection – IP 33 (3rd submission) | | See section 7.5 of this test report | | Pass |
| | | | Assessments | | Result |
| 5.3.3 | Min / max light intensity | Mode | | | |
| | | LOL0 1Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL1 1Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL2 1Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL0 0.5Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL1 0.5Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL2 0.5Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |

## CHQ-WB (RED)/RL

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| EN 54-23:2010 Clause – Title/Test | | | Comments | | Result |
|---|---|---|---|---|---|
| 4.3.6 | Marking and data | | See section 10.1 of this test report | | Pass |
| 5.1.7 | Reproducibility | | See section 10.2 of this test report | | Pass |
| 5.3.1 | Coverage volume | | See section 10.3 of this test report | | Pass |
| | | | Assessments | | Result |
| 5.3.3 | Min / max light intensity | Mode | | | |
| | | LOL0 1Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL1 1Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL2 1Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL0 0.5Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL1 0.5Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |
| | | LOL2 0.5Hz | % measurements ≥ 1Cd = 100 | >500Cd = 0 | Pass |

## CHQ-WB/WL

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| EN 54-23:2010 Clause – Title/Test | | Comments | Result |
|---|---|---|---|
| 4.3.6 | Marking and data | See section 13.1 of this test report | Pass |

## CHQ-WB/RL

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| EN 54-23:2010 Clause – Title/Test | | Comments | Result |
|---|---|---|---|
| 4.3.6 | Marking and data | See section 16.1 of this test report | Pass |

## CHQ-WB (WHT)/WL

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| EN 54-23:2010 Clause – Title/Test | | Comments | Result |
|---|---|---|---|
| 4.3.6 | Marking and data | See section 19.1 of this test report | Pass |

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**CHQ-WB (WHT)/RL**



| EN 54-23:2010 Clause – Title/Test | Comments | Result |
|---|---|---|
| 4.3.6 Marking and data | See section 22.1 of this test report | Pass |

**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.**

**CHQ-CB - Installation Instructions - 2-3-0-1574**
**CHQ-WB - Installation Instructions - 2-3-0-1845**

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<br>Garston<br>Watford WD25 9XX<br>United Kingdom | **TEST FACILITY ADDRESS / REGION** (STREET / TOWN / CITY / COUNTRY) | Bucknalls Lane<br>Garston<br>Watford WD25 9XX<br>United Kingdom |
| **WEBSITE** | https://www.bregroup.com/about-us/bre-global/ | **WEBSITE** | https://www.bregroup.com/about-us/bre-global/ |
| **TEL** | +44 (0)333 321 88 11 | **TEL** | +44 (0)333 321 88 11 |
| **EMAIL** | BREGlobalEnquiries@bregroup.com | **EMAIL** | BREGlobalEnquiries@bregroup.com |
| **ACCREDITED BY** (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE) | UKAS<br>www.ukas.com | **ACCREDITED BY** (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE) | UKAS<br>www.ukas.com |
| **AS PER** (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO) | EN45011: 1998 /<br>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<br>BRE GLOBAL LTD<br>BUCKNALLS LANE<br>WATFORD WD25 9XX<br>U.K. | | |

| (ENDORSEMENT) TO BE SIGNED BY MANUFACTURER | | | |
|---|---|---|---|
| **NAME OF MANUFACTURER'S SIGNATORY** | Richard Anderson | **SIGNATURE** | Digitally signed by Richard Anderson Date: 2022.02.02 19:40:07 |
| **EMAIL / TEL** | randerson@hochikieurope.com<br>+44 (0) 1634 266544<br>+44 (0 )7970 764 568 | **FACTORY OFFICIAL SEAL** | HOCHIKI EUROPE (UK) LIMITED Grosvenor Road Gillingham Medway 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.<br>P Halligan | **SIGNATURE** | P Halligan |
| **EMAIL / TEL** | BREGlobalEnquiries@bregroup.com<br>+44 (0)333 321 88 11 | **CERTIFICATION BODY OFFICIAL SEAL** | BRE GLOBAL LTD BUCKNALLS LANE WATFORD WD25 9XX U.K. |
| **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)**