



CERTIFICATE OF CONSTANCY OF PERFORMANCE

0051-CPR-2535

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation, or CPR), this Certificate applies to the construction product

Product: **SOUNDER AND VISUAL FIRE ALARM DEVICE USING RADIO LINK**
Model: **RW1500-220APO (RED ENCLOSURE)**
RW1500-210APO (WHITE ENCLOSURE)
Trade mark: **REACH**
Other information: **see ANNEX**

Produced by:
Apollo Fire Detectors Limited
36 Brookside Road – Havant – Hampshire
PO9 1JR – United Kingdom

in the manufacturing plant:
PI.V00084

This Certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard(s)

EN 54-3:2001 + A1:2002 + A2:2006
EN 54-23:2010
EN 54-25:2008 + AC:2012

Under system **1** are applied and that **the product fulfills all the prescribed requirements set out above**

ISSUED ON 22/07/2022

REVISION 2

B.U. PRODUCT CONFORMITY ASSESSMENT
CPR TECHNICAL DIRECTOR
(ENG. VALBERTO BAGGIO)

This certificate cancels and replaces the certificate having the same number and issued on 18/07/2022 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the products, and the manufacturing conditions in the plant are not modified significantly.

This Certificate was issued by IMQ S.p.A., a Notified Body according to Regulation (EU) No. 305/2011. IMQ S.p.A. Identification Number is: **0051**. This certificate is subjected to the Regulation of Assessment and Verification of Constancy of Performance of the Construction Products as Notified Body, according to Regulation (EU) no. 305/2011 and Legislative Decree n.106/ 2017 (REG. ON / CPR)

ANNEX

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Configuration

The sounder and visual alarm device model RW1500-220APO consists of a red plastic enclosure (RW1500-210APO white plastic enclosure) (dimensions: 130 (d) x 90 (h) mm) with IP33C degree of protection, divided into:

- Wireless module model TW-MWSO-01, containing:
 - No. 1 Main board (PCB code B40-ISWSM-0002);
 - No. 2 Battery allocable (CR123A Lithium, 3 V – 1.25Ah);
- Sounder and visual alarm device model CWS100-AV, containing:
 - No. 1 Main board (PCB code B20-CWS1X-1002);

Technical Characteristics

Tone patterns in compliance with EN 54-3:

Primary Tone (Evacuation)

1. Apollo Fire Systems Evacuate Tone 660Hz for 0.5s, 925Hz for 0.5s
2. Alternating warble (Hochiki & Fulleon) 925Hz for 0.25s, 626Hz for 0.25s
3. Sweep (med) @ 1Hz 800Hz - 970Hz @ 1Hz
4. Sweep (fast) @ 9Hz 2500Hz-2850Hz @ 9Hz
5. Netherlands – NEN 2575:2000 (Dutch Slow Whoop) 500 – 1200Hz for 3.5s, 0.5s OFF
6. German DIN 33 404 1200Hz – 500Hz Sweep 1s (1Hz)
7. Swedish Fire Signal 660Hz 0.15s ON, 0.15s OFF
8. Australia Fast-rise Sweep (AS1670:4-2004 Evacuation tone) 3x (500Hz - 1200Hz for 0.5s, 0.5s off), 1s off
15. Australian Evacuation (AS7240-3) 520Hz, 0.5s ON, 0.5s OFF x 3, 1s OFF

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Secondary Tone (Alert)

1. Apollo Fire Systems Alert Tone 1s off, 925Hz for 1s
2. Continuous (Hochiki & Fulleon) 925Hz
3. Continuous 970Hz Continuous (BS5839-1:2002)
4. Continuous 2850Hz continuous
5. Continuous 825Hz continuous
6. Continuous 825Hz Continuous
7. Swedish All Clear 660Hz Continuous
8. Australia AS1670:4-2004 Alert tone 420Hz 0.625s ON, 0.625s OFF
15. Australia Alert (AS7240-3) 520Hz +/-5%, 0.5s ON, 3.5s OFF

- Coverage characteristics: W2.5-7;
- Flash rate: 0.5 Hz;
- Destination for use: Type B (for external);
- Operating frequency band: 868 MHz ; 916 MHz;
- Hardware identification of the microcontroller (U5) used on the main board (PCB code B40-ISWSM-0002):
 - STMicroelectronics, STM32L051R8;
- Firmware identification of the microcontroller (U5) used on the main board (PCB code B40-ISWSM-0002):
 - 0_1_12, using the 868 MHz frequency band;
 - 0_1_13, using the 916 MHz frequency band.

List of optional functions with requirements (EN 54-23)

4.3.7 Synchronization

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