Declaration of Performance – DOP0000066 EU

According to Construction Products Regulation EU N° 305/2011

1. Unique Product identification code:

BF431C/CC/W, BF432C/CC/W, BF456C/CC/W

2. Type number allowing identification of the construction product as required pursuant to Article 11(4):

Conventional 96dB(A) Base Sounder, white enclosure, IP21C (BF431C/CC/W)
Conventional O-R-3-2.5-17 Base VAD c/w 96dB(A) sounder, white enclosure, IP21C (BF432C/CC/W)
Conventional C-3-8.5 Base VAD c/w 96dB(A) sounder, white enclosure, IP21C (BF456C/CC/W)

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Models BF431C/CC/W, BF432C/CC/W, BF456C/CC/W:
Sounders to EN 54-3: 2001 for use in Fire detection and fire alarm systems in buildings

Models BF432C/CC/W, BF456C/CC/W:
Visual alarm devices to EN 54-23: 2010 for use in Fire detection and fire alarm systems in buildings

4. Name, registered trade name or registered trademark and contact address of the manufacturer as required pursuant to Article 11(5):

Computionics Limited (C-TEC)
Challenge Way, Martland Park, Wigan, WN5 0LD. United Kingdom
Tel: 01942 322744. Fax: 01942 829867

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

Not Applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. Notified body, in the case of the declaration of performance concerning a construction product covered by a harmonized standard:

Loss Prevention Certification Board (LPCB) (Notified Body Number 2831)
BRE Global Assurance (Ireland) Limited
DCU Alpha, Old Finglas Road,
Glasnevin, Dublin, D11 KXN4
Ireland

has performed type testing and the initial inspection of the manufacturing plant and of factory production control with continuous surveillance, assessment and approval of the factory production control under system 1 and issued following certificate of constancy of performance:

BF431C/CC/W: 2831-CPR-F2447
BF432C/CC/W: 2831-CPR-F2448
BF456C/CC/W: 2831-CPR-F2449

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Not applicable, see item 7

9(a). Declared performance applicable to models BF431C/CC/W, BF432C/CC/W, BF456C/CC/W:

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the hEN mentioned in the following table.

Harmonised Technical Specification		**EN 54-3: 2001 + A1: 2002 + A2: 2006**
Essential Characteristics	**Performance**	**Clause**
Performance parameters under fire condition		
- Sound level	Pass	4.2
- Frequency and sound patterns	Pass	4.3
- Reproducibility	Pass	5.2
- Operational performance	Pass	5.3
- Attention drawing signal and message broadcast sequences	NPD	C.3.1[(a)]
- Synchronisation (option with requirements)	NPD	C.3.2[(b)]
- Broadcast message performance	NPD	C.5.1[(a)]
- Attention-drawing signal silence message sequence timing	NPD	C.5.2[(a)]
- Message synchronisation testing option with requirements	NPD	C.5.3[(a)(b)]
Operational reliability		
- Durability	Pass	4.4
- Construction	Pass	4.5
- Marking and data	Pass	4.6
- Durability	Pass	5.4
- General testing	NPD	C4[(a)]
Durability of operational reliability		
Temperature resistance:		
- Dry heat (operational)	Pass	5.5
- Dry heat (endurance)	Pass	5.6
- Cold (operational)	Pass	5.7
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
Humidity resistance:		
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
- Damp heat, cyclic (endurance)	Pass	5.10
Corrosion resistance:		
- Sulfur dioxide (SO_2) corrosion (endurance)	Pass	5.11
Shock and vibration resistance:		
- Shock (operational)	Pass	5.12
- Impact (operational)	Pass	5.13
- Vibration, sinusoidal (operational)	Pass	5.14
- Vibration, sinusoidal (endurance)	Pass	5.15
Electrical stability:		
- Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.16
Resistance to ingress:		
- Enclosure protection	Pass	5.17

(a) C.3, C.4, C.5.1, C.5.2 and C.5.3 apply only to voice sounders.
(b) C.3.2 and C.5.3 apply only to voice sounders with the message synchronisation option.

Meets the requirements of EN 54-3 for the following (operating voltage range 18-30 VDC):
1. Tone 1 - Primary
- C-TEC Evacuation Tone, 610Hz for 0.5s, 810Hz for 0.5s
- C-TEC Fast Warble, 810Hz for 0.25s, 610Hz for 0.25s
- Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off
- DIN Tone, 1200Hz-500Hz for 1s
- French Fire Tone, 554Hz for 100ms/440Hz for 380ms to 420ms
2. Can be used as either:
- A stand alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or
- A stacked sounder/VAD base combination with detectors from C-TEC's range of ActiV conventional detectors

9(b). Declared performance applicable to models BF432C/CC/W, BF456C/CC/W:

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. above have been determined as described in the hEN mentioned in the following table.

Harmonised Technical Specification		**EN 54-23: 2010**
Essential Characteristics	**Performance**	**Clause**
Operational reliability		
- Duration of operation	Pass	4.2.1
- Provision for external conductors	Pass	4.2.2
- Flammability of materials	Pass	4.2.3
- Enclosure protection	Pass	4.2.4
- Access	Pass	4.2.5
- Manufacturer's adjustments	Pass	4.2.6
- On-site adjustment of behaviour	Pass	4.2.7
- Requirements for software controlled devices	Pass	4.2.8
Performance parameters under fire condition		
- Coverage volume	Pass	4.3.1
- Variation of light output	Pass	4.3.2
- Minimum and maximum light intensity	Pass	4.3.3
- Light colour	White	4.3.4
- Light temporal pattern and frequency of flashing	Pass/0.5Hz	4.3.5
- Marking and data	Pass	4.3.6
- Synchronisation (option with requirements)	Pass	4.3.7
Durability		
Temperature resistance:		
- Dry heat (operational)	Pass	4.4.1.1
- Dry heat (endurance)	Pass	4.4.1.2
- Cold (operational)	Pass	4.4.1.3
Humidity resistance:		
- Damp heat, cyclic (operational)	Pass	4.4.2.1
- Damp heat, steady state (endurance)	Pass	4.4.2.2
- Damp heat, cyclic (endurance)	Pass	4.4.2.3
Shock and vibration resistance:		
- Shock (operational)	Pass	4.4.3.1
- Impact (operational)	Pass	4.4.3.2
- Vibration (operational)	Pass	4.4.3.3
- Vibration (endurance)	Pass	4.4.3.4
Corrosion resistance:		
- SO2 corrosion (endurance)	Pass	4.4.4
Electrical stability:		
- EMC, immunity (operational)	Pass	4.4.5
1. Meets the requirements of EN 54-23 for the following: - Category C-3-8.5 for BF456C/CC/W, Category O-R-3-2.5-17 for BF432C/CC/W. - Flash rate 0.5Hz - Synchronisation - Operating voltage range 18-30 VDC 2. Can be used as either: - A stand alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - A stacked sounder/VAD base combination with detectors from C-TEC's range of ActiV conventional detectors		

10. Empowered Signatory of Company

Name: Daniel Foster

Position: Head of Science

Signature: 

Date: 1 March 2022