



## **Declaration of Performance – DOP0000057 EU**

### ***According to Construction Products Regulation EU N° 305/2011***

**1. Unique Product identification code:**

CA450A/SW, CA450A/SR, CA451A/SW, CA451A/SR, CA458A/SW, CA458A/SR

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

CAST Compact 96dB(A) Ceiling / Wall Sounder with short circuit isolator, white body, IP21C (CA450A/SW)  
CAST Compact 96dB(A) Ceiling / Wall Sounder with short circuit isolator, white body, IP21C (CA450A/SR)  
CAST Compact C-3-8 / W-3-3.1 VAD c/w 96dB(A) sounder and short circuit isolator, white, IP21C (CA451A/SW)  
CAST Compact C-3-8 / W-3-3.1 VAD c/w 96dB(A) sounder and short circuit isolator, red, IP21C (CA451A/SR)  
CAST Compact C-3-8 / W-3-3.1 VAD with short circuit isolator, white, IP21C (CA458A/SW)  
CAST Compact C-3-8 / W-3-3.1 VAD with short circuit isolator, red, IP21C (CA458A/SR)

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

**Models CA450A/SW, CA450A/SR, CA451A/SW, CA451A/SR:**

Sounders to EN 54-3: 2001 for use in Fire detection and fire alarm systems in buildings

**Models CA450A/SW, CA450A/SR, CA451A/SW, CA451A/SR, CA458A/SW, CA458A/SR:**

Short-circuit isolators to EN 54-17: 2005 for use in Fire detection and fire alarm systems in buildings

**Models CA451A/SW, CA451A/SR, CA458A/SW, CA458A/SR:**

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):

Computationics 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:**

**CA450A/SW:** 2831-CPR-F2212  
**CA450A/SR:** 2831-CPR-F2212  
**CA451A/SW:** 2831-CPR-F2213  
**CA451A/SR:** 2831-CPR-F2213  
**CA458A/SW:** 2831-CPR-F2214  
**CA458A/SR:** 2831-CPR-F2214



**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 CA450A/SW, CA450A/SR, CA451A/SW, CA451A/SR:**

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 +<br>A1: 2002 + A2:<br>2006                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Essential Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Performance                                                                                                                                          | Clause                                                                                                                                              |
| <b>Performance parameters under fire condition</b> <ul style="list-style-type: none"><li>- Sound level</li><li>- Frequency and sound patterns</li><li>- Reproducibility</li><li>- Operational performance</li><li>- Attention drawing signal and message broadcast sequences</li><li>- Synchronisation (option with requirements)</li><li>- Broadcast message performance</li><li>- Attention-drawing signal silence message sequence timing</li><li>- Message synchronisation testing option with requirements</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pass<br>Pass<br>Pass<br>Pass<br>NPD<br>NPD<br>NPD<br>NPD<br>NPD                                                                                      | 4.2<br>4.3<br>5.2<br>5.3<br>C.3.1 <sup>(a)</sup><br>C.3.2 <sup>(b)</sup><br>C.5.1 <sup>(a)</sup><br>C.5.2 <sup>(a)</sup><br>C.5.3 <sup>(a)(b)</sup> |
| <b>Operational reliability</b> <ul style="list-style-type: none"><li>- Durability</li><li>- Construction</li><li>- Marking and data</li><li>- Durability</li><li>- General testing</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass<br>Pass<br>Pass<br>Pass<br>NPD                                                                                                                  | 4.4<br>4.5<br>4.6<br>5.4<br>C4 <sup>(a)</sup>                                                                                                       |
| <b>Durability of operational reliability</b><br><b>Temperature resistance:</b> <ul style="list-style-type: none"><li>- Dry heat (operational)</li><li>- Dry heat (endurance)</li><li>- Cold (operational)</li><li>- Damp heat, cyclic (operational)</li><li>- Damp heat, steady state (endurance)</li></ul> <b>Humidity resistance:</b> <ul style="list-style-type: none"><li>- Damp heat, cyclic (operational)</li><li>- Damp heat, steady state (endurance)</li><li>- Damp heat, cyclic (endurance)</li></ul> <b>Corrosion resistance:</b> <ul style="list-style-type: none"><li>- Sulfur dioxide (SO<sub>2</sub>) corrosion (endurance)</li></ul> <b>Shock and vibration resistance:</b> <ul style="list-style-type: none"><li>- Shock (operational)</li><li>- Impact (operational)</li><li>- Vibration, sinusoidal (operational)</li><li>- Vibration, sinusoidal (endurance)</li></ul> <b>Electrical stability:</b> <ul style="list-style-type: none"><li>- Electromagnetic compatibility (EMC), immunity (operational)</li></ul> <b>Resistance to ingress:</b> <ul style="list-style-type: none"><li>- Enclosure protection</li></ul> | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br><br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br><br>Pass<br><br>Pass<br>Pass<br>Pass<br>Pass<br><br>Pass<br>Pass | 5.5<br>5.6<br>5.7<br>5.8<br>5.9<br><br>5.8<br>5.9<br>5.10<br><br>5.11<br><br>5.12<br>5.13<br>5.14<br>5.15<br><br>5.16<br>5.17                       |
| (a) C.3, C.4, C.5.1, C.5.2 and C.5.3 apply only to voice sounders.<br>(b) C.3.2 and C.5.3 apply only to voice sounders with the message synchronisation option.<br><br>Meets the requirements of EN 54-3 for the following (operating voltage range 24-40V d.c):<br>Tone 1 - Primary <ul style="list-style-type: none"><li>- Evacuate, 535Hz for 0.5s, 800Hz for 0.5s</li><li>- Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s</li><li>- Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off</li><li>- German DIN Tone, 1200Hz-500Hz for 1s</li><li>- French Fire Tone, 554Hz for 100ms/440Hz for 400ms</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                      |                                                                                                                                                     |



**9(b). Declared performance applicable to models CA450A/SW, CA450A/SR, CA451A/SW, CA451A/SR, CA458A/SW, CA458A/SR:**

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 54-17: 2005              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
| Essential Characteristics                                                                                                                                                                              | Performance                  | Clause                      |
| <b>Performance under fire conditions</b><br>- Reproducibility <sup>(1)</sup>                                                                                                                           | Pass                         | 5.2                         |
| <b>Operational reliability</b><br>- General requirements                                                                                                                                               | Pass                         | 4                           |
| <b>Durability of operational reliability (temperature resistance)</b><br>- Dry heat (operational)<br>- Cold (operational)                                                                              | Pass<br>Pass                 | 5.4<br>5.5                  |
| <b>Durability of operational reliability (vibration resistance)</b><br>- Shock (operational)<br>- Impact (operational)<br>- Vibration, sinusoidal (operational)<br>- Vibration, sinusoidal (endurance) | Pass<br>Pass<br>Pass<br>Pass | 5.9<br>5.10<br>5.11<br>5.12 |
| <b>Durability of operational reliability (humidity resistance)</b><br>- Damp heat, cyclic (operational)<br>- Damp heat, steady state (operational)                                                     | Pass<br>Pass                 | 5.6<br>5.7                  |
| <b>Durability of operational reliability (corrosion resistance)</b><br>- Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)                                                                      | Pass                         | 5.8                         |
| <b>Durability of operational reliability (electrical stability)</b><br>- Variation in supply voltage<br>- Electromagnetic Compatibility (EMC), Immunity tests (operational)                            | Pass<br>Pass                 | 5.3<br>5.13                 |
| <sup>(1)</sup> This is assuming that the effect of the fire is to cause a short circuit in the transmission path that is protected by these devices.                                                   |                              |                             |



**9(c). Declared performance applicable to models CA451A/SW, CA451A/SR, CA458A/SW, CA458A/SR:**

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                                                                                                                                       |
| <b>Operational reliability</b> <ul style="list-style-type: none"><li>- Duration of operation</li><li>- Provision for external conductors</li><li>- Flammability of materials</li><li>- Enclosure protection</li><li>- Access</li><li>- Manufacturer's adjustments</li><li>- On-site adjustment of behaviour</li><li>- Requirements for software controlled devices</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass                                               | 4.2.1<br>4.2.2<br>4.2.3<br>4.2.4<br>4.2.5<br>4.2.6<br>4.2.7<br>4.2.8                                                                         |
| <b>Performance parameters under fire condition</b> <ul style="list-style-type: none"><li>- Coverage volume</li><li>- Variation of light output</li><li>- Minimum and maximum light intensity</li><li>- Light colour</li><li>- Light temporal pattern and frequency of flashing</li><li>- Marking and data</li><li>- Synchronisation (option with requirements)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pass<br>Pass<br>Pass<br>White<br>Pass/0.5Hz<br>Pass<br>Pass                                                | 4.3.1<br>4.3.2<br>4.3.3<br>4.3.4<br>4.3.5<br>4.3.6<br>4.3.7                                                                                  |
| <b>Durability</b><br><b>Temperature resistance:</b> <ul style="list-style-type: none"><li>- Dry heat (operational)</li><li>- Dry heat (endurance)</li><li>- Cold (operational)</li></ul> <b>Humidity resistance:</b> <ul style="list-style-type: none"><li>- Damp heat, cyclic (operational)</li><li>- Damp heat, steady state (endurance)</li><li>- Damp heat, cyclic (endurance)</li></ul> <b>Shock and vibration resistance:</b> <ul style="list-style-type: none"><li>- Shock (operational)</li><li>- Impact (operational)</li><li>- Vibration (operational)</li><li>- Vibration (endurance)</li></ul> <b>Corrosion resistance:</b> <ul style="list-style-type: none"><li>- SO2 corrosion (endurance)</li></ul> <b>Electrical stability:</b> <ul style="list-style-type: none"><li>- EMC, immunity (operational)</li></ul> | Pass<br>NPD<br>Pass<br><br>Pass<br>Pass<br>NPD<br><br>Pass<br>Pass<br>Pass<br>Pass<br><br>Pass<br><br>Pass | 4.4.1.1<br>4.4.1.2<br>4.4.1.3<br><br>4.4.2.1<br>4.4.2.2<br>4.4.2.3<br><br>4.4.3.1<br>4.4.3.2<br>4.4.3.3<br>4.4.3.4<br><br>4.4.4<br><br>4.4.5 |
| Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"><li>- Category C-3-8 or W-3-3.125</li><li>- Flash rate 0.5Hz</li><li>- Synchronisation</li><li>- Operating voltage range 27-40 VDC</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |                                                                                                                                              |

**10. Empowered Signatory of Company**

Name: Daniel Foster

Position: Head of Science

Signature: 

Date: 1 March 2022