

# Declaration of Performance

According to the Construction Products Regulation  
EU no. 305/2011 and no. EU 574/2014

DoP document no. **1488-CPD-0335/W**

1. *Unique identification code of product type.*

**PC-245AB-EB**

2. *Indicated use:*

**Loudspeaker for voice alarm systems**

3. *Manufacturer:*

**TOA Corporation**  
**7-2-1 Minatojima-Nakamachi, Chuo-ku, Kobe 650-0046, Japan**

*Registered trademark:*



4. *Authorised representative:*

**TOA Electronics Europe GmbH**  
**Süderstraße 282, 20537 Hamburg, Germany**

5. *System/s of AVCP:*

**System 1**

6a. *Harmonised standard: .*

**EN 54:2008 Fire detection and fire alarm systems**  
**Part 24: Components of voice alarm systems - Loudspeakers**

*Notified body*

**ITB Building Research Institute**  
**Notified body number: 1488**

7. List of declared performances

| Essential characteristics of the product                               | Harmonised standard<br>EN 54-24: 2008 | Scope of essential characteristics regarding intended use of product |
|------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------|
| Performance under fire condition                                       |                                       |                                                                      |
| Frequency response limit                                               | 4.2                                   | Passed                                                               |
| Reproducibility                                                        | 5.2                                   | Passed                                                               |
| Rated impedance                                                        | 5.3                                   | Passed                                                               |
| Horizontal and vertical coverage angles                                | 5.4                                   | Passed                                                               |
| Maximum sound pressure level                                           | 5.5                                   | Passed                                                               |
| Operational reliability                                                |                                       |                                                                      |
| Durability                                                             | 4.3                                   | Passed                                                               |
| Construction                                                           | 4.4                                   | Passed                                                               |
| Marking and data                                                       | 4.5                                   | Passed                                                               |
| Rated noise power (durability)                                         | 5.6                                   | Passed                                                               |
| Enclosure protection                                                   | 5.18                                  | Passed                                                               |
| Durability of operational reliability: Temperature resistance          |                                       |                                                                      |
| Dry heat (operational)                                                 | 5.7                                   | Passed                                                               |
| Dry heat (endurance)                                                   | 5.8                                   | not applicable                                                       |
| Cold (operational)                                                     | 5.9                                   | Passed                                                               |
| Durability of operational reliability: humidity resistance             |                                       |                                                                      |
| Damp heat, cyclic (operational)                                        | 5.10                                  | Passed                                                               |
| Damp heat, steady state (endurance)                                    | 5.11                                  | Passed                                                               |
| Damp heat, cyclic (endurance)                                          | 5.12                                  | not applicable                                                       |
| Durability of operational reliability: corrosion resistance            |                                       |                                                                      |
| Sulfur dioxide corrosion                                               | 5.13                                  | Passed                                                               |
| Durability of operational reliability: impact and vibration resistance |                                       |                                                                      |
| Shock (operational)                                                    | 5.14                                  | Passed                                                               |
| Impact (operational)                                                   | 5.15                                  | Passed                                                               |
| Vibration, sinusoidal (operational)                                    | 5.16                                  | Passed                                                               |
| Vibration, sinusoidal (endurance)                                      | 5.17                                  | Passed                                                               |

*The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.*

Signed for and on behalf of the representative by: Daisuke Imagawa (managing director)

Hamburg, 20.09.2022

  
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