

Declaration of Performance

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

DoP document no. **19-010**

1. *Unique identification code of product type.*

**PC-1860BS, PC-1860BS-C, PC-1860EN, PC-1860EN-FTQ, PC-1865BS,
PC-2360EN, PC-2360EN-FTQ**

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

**Centrum Naukowo-Badawcze Ochrony Przeciwpowazarowej w Józefowie
Notified body number: 1438**

7. List of declared performances

| Essential characteristics of the product | Harmonised standard 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: Wolfgang Pein (managing director)

Hamburg, 17.05.2019

