Declaration of Performance

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

DoP document no. **23-104**

1. *Unique identification code of product type.*

   HA-2120EN, HA-2240EN

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 Przeciwpożarowej 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	Passed
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	Passed
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, 29.08.2023 ……..