



Constancy of Performance Certificate

LGAI Technological Center S.A. (APPLUS), Notified Body No. 0370, issues this certificate to:

APPLICANT

Placed on the market under the name of

LDA audioTech S.L.

C/ Severo Ochoa, 31 – Parque Tecnológico Andalucía
25590 Málaga (España)

Manufactured in production plant:

25/32305163

PRODUCT

Fire detection and fire alarm systems. Components of voice alarm systems. Loudspeakers

Model: NB-50TN (LDANB50TNS01)

Brand: LDA AudioTech

APPLICABLE REGULATION

Construction Product Regulation (CPR)

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard:

EN 54-24:2008

Under **system 1** for the performance set out in this certificate are applied and the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

No. 0370-CPR-6612

Date issued: 15/09/2025

First issue date: 02/02/2024

Follow-up date: before 31/07/2026

The validity of this certificate remains valid as long as the harmonised standard, the construction product, the EVCP methods and the manufacturing conditions at the plant are not significantly modified, unless suspended or withdrawn by the notified product certification body.

This document is not valid without its technical annex; whose number coincides with that of the certificate.

Xavier Ruiz Peña
Managing Director
Conformity Assessment



LGAI Technological Center S.A. (APPLUS)
Notified Body No. 0370
Campus UAB. Ronda de la Font del Carme s/n
08193 Bellaterra, Barcelona (Spain)



Check the status
of this certificate

Certificate

Technical Annex

Annex according to EN 54-24:2008

Fire detection and fire alarm systems. Part 24: components of voice alarm systems.
Loudspeakers

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Frequency response limits	4.2	PASS
Durability	4.3	PASS
Construction	4.4	PASS
Marking and data	4.5	PASS
Reproducibility	5.2	PASS
Rated impedance	5.3	PASS
Horizontal and vertical coverage angles	5.4	PASS
Maximum sound pressure level	5.5	PASS
Rated noise power (durability)	5.6	PASS
Dry heat (operational)	5.7	PASS
Dry heat (endurance)	5.8	PASS
Cold (operational)	5.9	PASS
Damp heat, cyclic (operational)	5.10	PASS
Damp heat, steady state (endurance)	5.11	PASS
Damp heat, cyclic (endurance)	5.12	PASS
Sulfur dioxide (SO ₂) corrosion (endurance)	5.13	PASS
Shock (operational)	5.14	PASS
Impact (operational)	5.15	PASS
Vibration, sinusoidal (operational)	5.16	PASS
Vibration, sinusoidal (endurance)	5.17	PASS
Enclosure protection	5.18	PASS

PASS; NPD = No Performance Determined, NA = Not Apply