

# CERTIFICATE OF CONSTANCY OF PERFORMANCE

LGAI Technological Center, S.A. (APPLUS)  
Notified Body Nr. 0370

No. **0370-CPR-6611**

In compliance with Regulation (EU) Nr.305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

**FIRE DETECTION AND FIRE ALARM SYSTEMS. COMPONENTS OF VOICE ALARM SYSTEMS. LOUDSPEAKERS**  
MODELS: **VTX-15TN (LDAVTX15TNS01), VTX-60TN (LDAVTX60TNS01), VTX-90TN (LDAVTX90TNS01)**

Placed on the market under the name of:

## LDA audioTech S.L.

C/ SEVERO OCHOA, 31 – PARQUE TECNOLÓGICO ANDALUCÍA  
25590 MÁLAGA (SPAIN)

And produced in the manufacturing plant:

**23/32305262**

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 that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 30<sup>th</sup> June 2023 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed on 15<sup>th</sup> September 2023.

**The monitoring assessment will be done before 31<sup>st</sup> July 2024**

Bellaterra, 15<sup>th</sup> September 2023



  
LGAI Technological Center, S.A.

Xavier Ruiz Peña  
Managing Director, Product Conformity B.U.



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

*You can check the validity of this certificate on our website: [www.appluslaboratories.com/certified\\_products](http://www.appluslaboratories.com/certified_products)*

The manufacturer, after the completion of the conformity assessment procedures and the declaration of performance, may affix the CE Marking under his responsibility

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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 Type B
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 <sub>2</sub> ) 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 Applicable