Certificate of Constancy of Performance 0359-CPR-00405



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

VXC Range of Ceiling Loudspeakers Product(s):

(refer to attached appendix for details and conditions)

Produced by or for: Yamaha Corporation

10-1, Nakazawa-cho, Naka-ku, Hamamatsu-shi, Shizuoka 430-8650, Japan

Produced in the manufacturing plant(s): P.T. Yamaha Electronics Manufacturing Indonesia (YAMAHAID.01) Kawasan Industri PIER (Kawasan Berikat Nusantara), Jalan Rembang Industri

II/9-11, Mojoparon-Rembang, Pasuruan 67152, Indonesia

Intended use: **Fire Safety**

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

standard(s):

EN54-24:2008

Fire detection and fire alarm systems. Components of Voice Alarm

Systems - Loudspeakers

Under system 1 are applied and that the product(s) fulfils all the prescribed

requirements set out above.

This certificate was first issued on 7th November 2014 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body. A review of the product(s) and compliant standard(s) will be carried out after 5 years to ensure continued compliance.

Notified Body 0359

Intertek Testing & Certification Limited

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Daniel Griffin Certification Manager

19/12/2014

Date Issue

Re-Issue

07/11/2019

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

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Appendix to Certificate of Constancy of Performance 0359-CPR-00405

The details and condition of use for the VXC Range of Ceiling Loudspeakers, placed on the market by:

Yamaha Corporation

10-1, Nakazawa-cho, Naka-ku, Hamamatsu-shi, Shizuoka 430-8650, Japan

To be used in accordance with the supplier's installation instructions and in conjunction with the following bases, ancillaries, sounder tones and sensitivity settings (where applicable):

Products compliant with EN54-24:2008

Variant	Manufacturing Location	Description
VXC4-VA	YAMAHAID.01	30 W, black, metal cased, ceiling loudspeaker with a 22uF capacitor
VXC4-VAW	YAMAHAID.01	30 W, white, metal cased, ceiling loudspeaker with a 22uF capacitor
VXC6-VA	YAMAHAID.01	60 W, black, metal cased, ceiling loudspeaker with a 3.3uF capacitor
VXC6-VAW	YAMAHAID.01	60 W, white, metal cased, ceiling loudspeaker with a 3.3uF capacitor
VXC8-VA	YAMAHAID.01	60 W, black, metal cased, ceiling loudspeaker with a 2.7uF capacitor
VXC8-VAW	YAMAHAID.01	60 W, white, metal cased, ceiling loudspeaker with a 2.7uF capacitor

Approved settings:

The following line voltage and power tap settings have been approved:-

	Model VXC4-VA and Model VXC4-VAW	Model VXC6-VA, Model VXC6-VAW, Model VXC8-VA and Model VXC8-VAW	
Line Voltage	Power Tap	Power Tap	
70V	30W, 15W, 7.5W, 3.8W	60W, 30W, 15W, 7.5W	
100V	30W, 15W, 7.5W	60W, 30W, 15W	

The following impedance (transformer bypass) setting has been approved:-

	Model VXC4-VA, Model VXC4-VAW, Model VXC6-VA, Model VXC6-VAW, Model VXC8-VA and Model VXC8-VAW
Impedance	8Ω

Conditions of use:

Suitable for indoor (Type A) applications

General Notes:

- 1. Evaluated under Intertek project number 101440203.
- 2. No CE or other type approval is made or inferred outside of the attestation of conformity and the product performance as stipulated on this certificate.

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0359-CPR-00405 Issue 2

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Appendix to Certificate of Constancy of Performance 0359-CPR-00405 (continued)

Table of performance for EN54-24:2008							
Harmonised technical specification							
Essential characteristics	Performance	Clauses	Notes				
Performance under fire condition.	Pass	4.2, 5.2, 5.3, 5.4, 5.5	а				
Operational reliability	Pass	4.3, 4.4, 4.5, 5.6, 5.18	b				
Durability of operational reliability: temperature resistance	Pass	5.7, 5.8, 5.9	b, c				
Durability of operational reliability: humidity resistance	Pass	5.10, 5.11, 5.12	b, c				
Durability of operational reliability: corrosion resistance	Pass	5.13					
Durability of operational reliability: impact and vibration resistance	Pass	5.14, 5.15, 5.16, 5.17	d				

Notes:

- a. The products covered by this standard are assumed to enter the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.
- For Clauses 5.7, 5.9, 5.10 and 5.18, Type A conditioning was applied.
- c. Clauses 5.8 and 5.12 are not applicable to Type A loudspeakers.
- d. Model VXC8-VA and Model VXC8-VAW exceed 4.75kg in weight; an assessment to Clause 5.14 was therefore not performed on these models.

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