



**NOTIFIED BODY No. 1488  
INSTYTUT TECHNIKI BUDOWLANEJ  
CERTIFICATION DEPARTMENT**

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## **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

**1488-CPR-0524/W**

In compliance with Regulation 305/2011/EU 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

### **Components of voice alarm systems Loudspeaker type CSS-15C-VA**

general identification, intended use, essential characteristics and parameters are described in Annex No. Z-1488-CPR-0524/W which is an integral part of this certificate

**produced by:**

**JBL Inc.  
8500 Balboa Boulevard, Northridge  
California, 91329, United States of America**

**in the manufacturing plant:**

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 performances set out in this certificate are applied and that

**the construction product fulfils all the prescribed requirements for these performances.**

This certificate was first issued on 14.10.2015 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 performances of the declared essential characteristics, do not change, and the construction product, and the manufacturing conditions in the plant] are not modified significantly, unless suspended or withdrawn by the product certification body.

ACTING HEAD  
of the Certification Department

M.Sc. Eng. Katarzyna Hatowska

MANAGING DIRECTOR  
of Instytut Techniki Budowlanej

Marcin M. Kruk, PhD

Warsaw, 14.10.2015

**Annex No. Z-1488-CPR-0524/W page 1/2**

which is an integral part of the certificate No. 1488-CPR-0524/W

**Components of voice alarm systems – Loudspeaker type CSS-15C-VA**

List of essential characteristics and performance of construction product in accordance with EN 54-24:2008

Essential characteristics and performances of the product	EN 54-24:2008	Mandated levels and/or classes	Assessment
	Clause		
<b>Performance parameters under fire conditions</b>			
Frequency response limit	4.2	-	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
<b>Operational reliability</b>			
Durability	4.3	-	pass
Construction	4.4	-	pass
Marking and data	4.5	-	pass
Rated noise power (durability)	5.6	-	pass
Enclosure protection	5.18	-	pass
<b>Durability of operational reliability, temperature resistance</b>			
Dry heat (operational)	5.7	-	pass
Cold (operational)	5.9	-	pass
<b>Durability of operational reliability, humidity resistance</b>			
Damp heat, cyclic (operational)	5.10	-	pass
Damp heat, steady state (endurance)	5.11	-	pass
<b>Durability of operational reliability, corrosion resistance</b>			
Sulphur dioxide corrosion (endurance)	5.13	-	pass
<b>Durability of operational reliability, impact and vibration resistance</b>			
Shock (operational)	5.14	-	pass
Impact (operational)	5.15	-	pass
Vibration, sinusoidal (operational)	5.16	-	pass
Vibration, sinusoidal (endurance)	5.17	-	pass

**Declared intended use of product:**

Fire Safety

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which is an integral part of the certificate No. 1488-CPR-0524/W

**Components of voice alarm systems – Loudspeaker type CSS-15C-VA**

**Basic information:**

Type:	CSS-15C-VA
	ceiling
Type of installation:	ceiling mounted
Environmental type:	Type A (for indoor use)
Type of transformer:	MT-06-1002
Type of fuse (overload, thermal), range of work temperatures:	AUPO 150°C P7-F 2A25W – W3 JET
Connection:	2 ceramic connection boxes (12 terminals)
Rated noise power [W]:	6
Rated noise power for 100V line, transformer tapping options [W]:	6; 3; 1,5
Capacitor:	-
Loudspeaker impedance [Ω]:	8
Impedance of transformer – for particular terminals [Ω]:	1670 / 3330 / 6670
Sensitivity (1W/4m)* [dB]:	80
SPL (rated noise power /4m) [dB]:	88
Range of the supply voltage [V]:	100
Range of working temperature:	-10°C ÷ +55°C
Enclosure protection degree (IP) according PN-EN 60529: IP21C	pass
Dimensions (max. dia x max. depth) of loudspeaker with housing [mm]:	ø185 x 129
Weight [kg]:	1,57
Enclosure material:	steel
Certificate covers following components of loudspeaker: electroacoustic transducer, transformer, thermal fuse, ceramic connection block, housing	

\* The value measured for noise signal according clause 5.2 of standard PN-EN 54-24:2008

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