



Certificate of
constancy of performance
0560-CPR-202190023
Issue: 00



Issued	08-12-2022	Replaces	
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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:

Product description:	Voice Alarm Control and Indicating Equipment
Trademark:	Bosch
Type designation:	Paviro VACIE
Serial No:	N/A
Hardware / Software:	N/A / N/A
Conditions and essential characteristics:	See Annex 1
Variants:	See Annex 1

placed on the market under the name or trademark of:

Name of the manufacturer:	Bosch Security Systems B.V.
Address:	Torenallee 49
City:	5617 BA EINDHOVEN
Country:	Netherlands

and produced in the manufacturing plant(s):

Manufacturing plant:	Bosch Security Systems B.V.
Address:	Torenallee 49
City:	5617 BA EINDHOVEN
Country:	Netherlands

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

EN 54-16:2008
EN 54-4:1997
EN 54-4:1997/A1:2002
EN 54-4:1997/A2:2006

under system 1 for the performances 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 08-12-2022 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Ron Scheepers
Managing director

CERTIFICATE

Telefication B.V.
Kiwa FSS Products
Wilmersdorf 50
Postbus 137
7300 AC Apeldoorn
The Netherlands

<https://www.kiwa.com/nl/en/specials/fire-safety-and-security>

Notified Body No. 0560



Remarks and observations

The following conditions are applicable:

1. The VACIE is approved when connected to PLN-1EOL or PVA-1WEOL end of line board or with activated impedance measurement.
2. The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL end of line board, PVA-1WEOL addressable end of line board or impedance measurement.
3. The PVA-15CST call station requires the PVA-1KS and PVA-1EB in order to meet option with requirement clause 10 and 12 of EN 54-16.
4. The PVA-20CSE is approved when connected with PVA-15CST call station.
5. The following IP30 cabinets have been approved for use with PAVIRO:
 - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing
 - frame with a maximum height of 40 HU (i.e. TS-series).
 - Schroff (20130073 PRAESIDEO)
 - Diamond 19 Inch Cabinet (Manufacturer: E.Lan)
 - Knuerr Miracel 2 (Manufacturer: Knorr GmbH)
 - Rittal VX25 cabinet
6. The following SFP Modules have been approved for use with PAVIRO when connected to the network switch LT-L802GBTME/BO:
 - AC-SFP-LX-E-10 Single mode 1310nm SFP Module
 - AC-SFP-SX-E Multi-mode 850nm SFP Module

7. This certificate is valid only when the installation has been performed in accordance with the EN54-16 Installer checklist.

Essential characteristics of EN 54-16:	Clauses:	Performance
Performance under fire condition	4, 5, 7, 10, 12, 16.5, 16.6, 16.7	Pass
Response delay (response time to fires)	7.1, 12	Pass
Operational reliability	4, 5, 6, 7, 8, 12, 13, 14	Pass
Durability of operational reliability temperature resistance	16.4, 16.8	Pass
Durability of operational reliability Impact and vibration resistance	16.11, 16.12, 16.13	Pass
Durability of operational reliability electrical stability	16.14, 16.15	Pass
Durability of operational reliability humidity resistance	16.9, 16.10	Pass

Implemented optional functions with requirements (per clause of EN 54-16):

- 7.3 Audible warning
- 7.5 Phased evacuation
- 7.6.2 Manual silencing of the voice alarm condition

- 7.7.2 Manual reset of the voice alarm condition
- 7.9 Voice alarm condition output
- 8.3 Indication of faults related to the transmission path to the CIE
- 8.4 Indication of fault related to voice alarm zones
- 10 Voice alarm manual control
- 12 Emergency microphone(s)
- 13.14 Redundant power amplifiers

Essential characteristics of EN 54-4:		Performance
Performance of power supply	4, 5, 6	Pass
Operational reliability	4, 5, 6, 7, 8	Pass
Durability of operational reliability temperature resistance	9.5	Pass
Durability of operational reliability impact and vibration resistance	9.7, 9.8, 9.15	Pass
Durability of operational reliability electrical stability	9.9 to 9.13	Pass
Durability of operational reliability humidity resistance	9.6, 9.14	Pass

The x(x) visible in the hw and sw version stands for a digit that can change in case of minor changes.
The certified version is recorded in the certification file together with any reported minor changes.

Factory location:

Bosch (Zhuhai) Security Systems Co.
San Zao Town
519040, Zhuhai
China

Bosch Security Systems S.A.
Lugar da Pardala
3880-728, Ovar
Portugal

The product as described in this certificate includes the following type designations

- Product description: Voice Alarm Control and Indicating Equipment
- Trademark: Bosch
- Type designation: Paviro VACIE
- Hardware version: N/A
- Software version: N/A
- Serial number: N/A

- Product description: PAVIRO Controller
- Trademark: Bosch
- Type designation: PVA-4CR12
- Hardware version: 03/xx
- Software version: 1.22.x
- Serial number: N/A

- Product description: PAVIRO Router
- Trademark: Bosch
- Type designation: PVA-4R24
- Hardware version: 03/xx
- Software version: 1.7.x
- Serial number: N/A

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- Product description: PAVIRO 2x500W Amplifier
 - Trademark: Bosch
 - Type designation: PVA-2P500
 - Hardware version: 01/xx
 - Software version: 1.1.x
 - Serial number: N/A

 - Product description: PAVIRO Call Station
 - Trademark: Bosch
 - Type designation: PVA-15CST
 - Hardware version: 01/xx
 - Software version: 2.5.x
 - Serial number: N/A

 - Product description: PAVIRO Emergency Call Station
 - Trademark: Bosch
 - Type designation: PVA-15ECS
 - Hardware version: 01/xx
 - Software version: 2.5.x
 - Serial number: N/A

 - Product description: PAVIRO Call Station Extension
 - Trademark: Bosch
 - Type designation: PVA-20CSE
 - Hardware version: 01/xx
 - Software version: N/A
 - Serial number: N/A

 - Product description: Power Supply/Charger
 - Trademark: Bosch
 - Type designation: PLN-24CH12
 - Hardware version: K
 - Software version: 70003
 - Serial number: N/A

 - Product description: Network Module
 - Trademark: Bosch
 - Type designation: OM-1
 - Hardware version: V01
 - Software version: 1.7.224
 - Serial number: N/A

 - Product description: Network Switch
 - Trademark: Barox
 - Type designation: LT-L802GBTME
 - Hardware version: bv1.1
 - Software version: 3.0.3b
 - Serial number: N/A

 - Product description: End-of-line supervision module
 - Trademark: Bosch
 - Type designation: PVA-1WEOL
 - Hardware version: 1.2.x
 - Software version: 1.3.x
 - Serial number: N/A

 - Product description: End-of-line supervision board
 - Trademark: Bosch
 - Type designation: PLN-1EOL
 - Hardware version: 1.2

- Software version: N/A
- Serial number: N/A