

## BRE Global Ireland

**Notified Body No. 2831**  
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## Certificate of constancy of performance

**2831-CPR-F1094**

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9th March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s)

### **Bosch / PAVIRO VACIE Voice Alarm Control and Indicating Equipment**

*(For full product details and conditions of use refer to appendix)*

Placed on the market under the name or trade mark of:

**Bosch Security Systems BV**  
Torenallee 49  
5617 BA Eindhoven  
The Netherlands

**EVI Audio GmbH**  
Sachsenring 60  
94315 Straubing  
Germany

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

**EN 54-4:1997 + A1:2002 + A2:2006 - Power supply equipment**  
**EN 54-16:2008 - Voice alarm control and indicating equipment**

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 17 October 2019 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



E. Mattie-Suleiman, Certification Engineer

On behalf of BRE Global Assurance (Ireland) Limited

Date of First Issue: 17 October 2019

Date of Issue: 17 October 2019

Issue number 01

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**APPENDIX to Certificate of constancy of performance: 2831-CPR-F1094****Bosch / PAVIRO VACIE Voice Alarm Control and Indicating Equipment**

Incorporating the following modules:

PVA-4CR12	PAVIRO Controller
PVA-4R24	PAVIRO Router
PVA-2P500	PAVIRO 2x500 W Amplifier
PVA-15CST	PAVIRO Call Station
PVA-15ECS	PAVIRO Call Station
PVA-20CSE	PAVIRO Call Station Extension
PVA-1KS	PAVIRO CST Key Switch
PVA-1EB	PAVIRO CST Emergency button
PLN-24CH12	Power Supply Module
OM-1	Network Module
LT-802GBTME	Network Switch

Certified with the following options with requirements from EN54-16:

- 7.3 Audible Warning
- 7.5 Phase 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 faults related to voice alarm zones
- 10 Voice alarm manual control
- 12 Emergency microphone(s)
- 13.14 Redundant power amplifier

**Notes:**

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:-



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- 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: Knürr GmbH)
6. The following SFP Modules have been approved for use with PAVIRO when connected to the network switch LT-802GBTME:-
- 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”.



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