

BULLETIN NO. ANZ-D3162D**DATE: 5 Aug 2024****SUBJECT: AS 2220.1 & AS 4428.16 STANDARDS CHANGES FOR QE90 and QE20 EMERGENCY WARNING AND INTERCOM SYSTEMS**

This bulletin outlines the recent changes to the Standards for EWIS and the applicability of the Vigilant QE90 to these Standards.

The current 2022 Australian National Construction Code (NCC) calls up AS 1670.4:2018 for the design and installation of Emergency Warning and Intercom Systems (EWIS) in certain classes of buildings.

AS 1670.4:2018 and New Zealand NZS 4512:2021 specifies that the Emergency Warning CIE (EWCIE) needs to conform to one of these Standards:

- AS 2220.1 (QE90)
- AS 60849 (Australia only)
- AS 4428.16 (QE20)
- AS4428.4 (QE20)

In Australia, the next edition of the NCC expected in 2025 will call up the latest edition of AS 1670.1 2024 which specifies in clause 2.1.2 (m) that an occupant warning system shall comprise of an Emergency Warning Control & Indicating Equipment (EWCIE) conforming to:

- AS 4428.16 Grade 1 Emergency Warning Control and indicating Equipment (QE20)
- AS 4428.4 Emergency Intercom Control & Indicating Equipment (QE20)

The Vigilant QE90 Emergency Warning and Intercommunications System, which conforms to AS 2220.1 can be used in new building projects in New Zealand. For Australia, the QE90 can be used provided the development application (DA) is approved before NCC 2025 release. This is subject to variation where designers may request new EWCIE comply to the latest AS 4428.16 or AS 4428.4 standards.

Johnson Controls has released the QE20 EWCIE & EICIE that conforms to AS 4428.16 and AS 4428.4 standards which is ActivFire approved in Australia and listed the Fire equipment register for New Zealand. The QE20 has been designed with ease of use in mind, features used in the QE90 such as distinctive colored controls that easily identify each function have been retained in the QE20. This approach that has been evaluated over many years ensures quick and efficient operation in an emergency.

Johnson Controls expects to predominantly supply QE20 panels but will continue production of the QE90 EWIS to 2027 while development of the QE20 backwards compatibility is completed. QE90 spare parts will be supplied for a minimum of 7 years after production of the QE90 panel ceases.

Frequently Asked Questions.

Q When is it mandatory to install an EWCIE conforming to AS 4428.16 and AS 4428.4 in Australia and New Zealand?

A For Australia after NCC 2025 is released which calls up the already released AS 1670.1 2024 or if building designers request EWCIE conforming to AS 4428.16 and AS 4428.4. For New Zealand it is not mandatory but recommended as these are the latest safety standards.

Q Can I install an EWCIE conforming to AS 2220.1 today?

A Yes in New Zealand. For Australia yes if the development application (DA) is approved before NCC 2025 release.

Q Is the QE90 product range obsolete?

A No. The QE90 is not obsolete and is expected to continue production until 2027 and spares for 7 years beyond this to meet service demands of existing systems.

Q Will my existing QE90 network be supported in the future after the change to AS 4428.16 and AS4428.4?

A Yes. Johnson Controls is developing the newly released QE20, to be backwards compatible with existing QE90 networks, ensuring QE90 customers have an upgrade and expansion path well into the future.

Q Will spare parts be available for the QE90 in the future?

A Yes, Johnson Controls will be supplying QE90 spare parts for a minimum of 7 years after production of the QE90 panel ceases in 2027.

Q What if I want to install an AS 4428.16 EWCIE or AS 4428.4 EWICIE solution today?

A Johnson Controls can offer the QE20 which is ActivFire-listed (afp-3600) in Australia and NZS 4512 2021 compliant (VF/446) in New Zealand.

If you require further information on our QE90, or ActivFire-listed QE20 solutions please contact Johnson Controls Customer Service, Australia Tel: 1300 725 688 / NZ Tel: +64 9 635 0617 or email fdp.customerservice.anz@jci.com.

For technical support, contact Johnson Controls Australian Technical Support Centre on 1300 552 559.