

Fire formal interpretations

09/08/2016

FI-121

NZS 4512:2010 *Fire Detection and Alarm Systems in Buildings* – clauses 216.2 and 603.12.

Question:

New standards AS 7240.20-2012 and AS 1670.1-2015 now allow for 3 sensitivity classes of aspirating smoke detector (A: Very High, B: Enhanced, C: Normal), with permitted transport times of 60s, 90s, and 120s respectively.

- (1) Are aspirating smoke detectors complying with AS 7240.20-2012 permitted?
- (2) Does the 90s maximum transport time period specified in clause 603.12 apply to AS 7240.20 or ISO 7240-20 compliant aspirating smoke detectors?
- (3) Does the transport time period of clause 603.12 include the permitted equipment response delay of clause 204.6?

Interpretation issued by the Alarms and Detection Group

- (1) Yes. AS 7240.20-2012 is identical to ISO 7240-20:2010 which is already listed in clause 216.2.
- (2) No. The 90s of clause 603.12 applies to AS 1603.8 aspirating smoke detectors. For AS 7240.20 and ISO 7240-20 aspirating smoke detectors the applicable maximum transport times are:
60s for Very High Sensitivity (Class A),
90s for Enhanced Sensitivity (Class B), and
120s for Normal Sensitivity (Class C)
aspirating smoke detectors.
- (3) No. The 15s (maximum) of clause 204.6 is additional.