

Fire formal interpretations

27/06/2016

FI-120

NZS 4512:2010 *Fire Detection and Alarm Systems in Buildings* – clauses 405.1.3 and 401.

Question:

- (1) In a Type 7 system where a roof space >800mm deep requires detection, and smoke detectors are replaced by sprinklers as per 405.1.3(g), do the requirements of 401.2.3(c) and 401.3 apply?
- (2) Additionally, where the roof space is a separate firecell in its own right and extends over multiple firecells below, can the complete area be substituted with sprinklers and the 30% limit of 405.1.3 ignored?

Interpretation issued by the Alarms and Detection Group

- (1) No. Fully-compliant sprinklers in a Type 7 are not considered as being used as thermal fire detectors, therefore 401.2.3(c) and 401.3 do not apply.
- (2) Yes. FI-104 clarified that enclosed ceiling or roof spaces do not count towards the firecell area for the purposes of clause 405.1.3. Complete substitution is therefore permitted.