



17 March 2011

FI-100

Question:

NZS 4541:2007 *Automatic fire sprinkler systems* – 112.1(z)

Interpretation:

Issued by the Fixed Fire Protection Group

Is it the intent of the Standard that a sprinkler system certifier (SSC) certifies an alteration of 18 heads or less?

Under the following conditions an SSC does not need to issue a Certificate of Compliance for an alteration or extension of 18 sprinkler heads or less:

1. The sprinkler system is an Extra Light or Ordinary Hazard system.
2. The design parameters (including the highest design demands) must not be altered.
3. In all cases, a record of work undertaken should be submitted to the SSC to be retained on file. The SSC has the discretion to seek further information, should it identify any items of concern.

Designers should note the following:

4. All alterations involving Extra High Hazard and/or Rack Systems require a review by an SSC.
5. In some cases, the impact of an 18 head extension may be significant. One such example would be an extension to a small building. In such cases, the extension should be fully documented to the SSC and a Certificate of Compliance issued at the completion of the project. The advice of the SSC should be sought to determine this.
6. Clause 701.3.1 requires that calculations are made for any alterations to extra Light Hazard systems exceeding 4 sprinklers.
7. Clause 801.2.5 sets the parameters under which calculations are required for all extensions for Ordinary hazard systems.