

# Fire formal interpretations

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FI-135

NZS 4512:2010 *Fire Detection and Alarm Systems in Buildings* – Clauses 216.11 and 218.2

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## Question:

Clause 216.11 requires that detectors intended for use in exposed conditions or other wet environments shall have protection of at least IP54 (or encapsulation). Clause 218.2 requires that alerting devices used in a similar environment shall have protection of at least IP24.

For the case of a combined detector and alerting device intended for such use:

- (1) Does the entire device require a rating of at least IP54 (or encapsulation)?
- (2) Or does each component of the device have to meet that component's required rating, i.e. IP54 (or encapsulation) for the detector component and IP24 for the alerting device component?

## Interpretation issued by the Alarms and detection group:

For a combined Alerting Device/Detector intended for use in exposed conditions or other wet environments:

- 1) The Detection component requires protection of at least IP54 (or encapsulation).
- 2) The Alerting Device component requires protection of at least IP24.
- 3) Any part(s) of the device shared between the Detection and Alerting functions requires protection of at least IP54 (or encapsulation).