Status of Compliance Documents

Compliance Documents are prepared by the Department of Building and Housing in accordance with section 22 of the Building Act 2004. A Compliance Document is for use in establishing compliance with the New Zealand Building Code.

A person who complies with a Compliance Document will be treated as having complied with the provisions of the Building Code to which the Compliance Document relates. However, a Compliance Document is only one method of complying with the Building Code. There may be alternative ways to comply.

Users should make themselves familiar with the preface to the New Zealand Building Code Handbook, which describes the status of Compliance Documents and explains alternative methods of achieving compliance.

Defined words (italicised in the text) and classified uses are explained in Clauses A1 and A2 of the Building Code and in the Definitions at the start of this Compliance Document.

### Document Status

The most recent version of this document, as detailed in the Document History, is approved by the Chief Executive of the Department of Building and Housing. It is effective from 30 September 2010 and supersedes all previous versions of this document.

People using this Compliance Document should check for amendments on a regular basis. The Department of Building and Housing may amend any part of any Compliance Document at any time. Up-to-date versions of Compliance Documents are available from www.dbh.govt.nz

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**G9: Document History**

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**Note:** Page numbers relate to the document at the time of Amendment and may not match page numbers in current document.
New Zealand Building Code
Clause G9 Electricity

This Clause is extracted from the New Zealand Building Code contained in the First Schedule of the Building Regulations 1992.

Clause G9—ELECTRICITY

OBJECTIVE
G9.1 The objective of this provision is to ensure that:
(a) In buildings supplied with electricity, the electrical installation has safeguards against outbreak of fire and personal injury, and
(b) People with disabilities are able to carry out normal activities and processes within buildings.

FUNCTIONAL REQUIREMENT
G9.2 Where provided in a building, electrical installations shall be safe for their intended use.

PERFORMANCE
G9.3.1 The electrical installation shall incorporate systems to:
(a) protect people from contact with parts of the installation which are live during normal operation, and to prevent parts of the installation or other building elements becoming live during fault conditions,
(b) permit the safe isolation of the installation and of electrical fittings and appliances,
(c) safeguard people from excessive temperatures resulting from either normal operation of electrical equipment, or from currents which could exceed the installation rating,
(d) safeguard people from injury which may result from electromechanical stress in electrical components caused by currents in excess of the installation rating,

Limits on application

Objective G9.1(b) shall apply only to those buildings to which section 47A of the Act applies.
### Provisions

- **(c)** Protect building elements from risk of ignition, impairment of their physical or mechanical properties, or function, due to temperature increases resulting from heat transfer or electric arc,

- **(f)** Operate safely in its intended environment, and

- **(g)** Safeguard against ignition of the surrounding atmosphere where it is potentially flammable or explosive.

**G9.3.2** An electrical installation supplying an essential service shall:

- **(a)** Maintain the supply for a time appropriate to that service, and

- **(b)** Be capable of being isolated from the supply system, independently of the remainder of the installation.

**G9.3.3** An electrical installation connected to an electrical supply system, shall contain safeguards which protect the safety features of the external supply.

**G9.3.4** In buildings intended for use by people with disabilities, light switches and plug socket outlets shall be accessible and usable.

### Limits on application

Performance G9.3.4 shall not apply to Housing, Outbuildings, Ancillary Buildings, and to Industrial Buildings where no more than 10 people are employed.
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References

For the purposes of New Zealand Building Code compliance, the acceptable New Zealand and other Standards, and other documents referred to in this Compliance Document (primary reference documents) shall be the editions, along with their specific amendments, listed below. Where the primary reference documents refer to other Standards or other documents (secondary reference documents), which in turn may also refer to other Standards or other documents, and so on (lower order reference documents), then the applicable version of these secondary and lower order reference documents shall be the version in effect at the date this Compliance Document was published.

### Standards New Zealand

- **AS/NZS 3000: 2007 Electrical installations**
  - Amend: 1

### Publications by New Zealand Ministry of Economic Development

- **NZECP 34: 2001** Electrical safety distances
- **NZECP 36: 1993** Harmonic levels
- **NZECP 51: 2004** Homeowner/occupier’s electrical wiring work in domestic installations
- **NZECP 54: 2001** Installation of recessed luminaires and auxiliary equipment

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Definitions

This is an abbreviated list of definitions for words or terms particularly relevant to this Compliance Document. The definitions for any other italicised words may be found in the New Zealand Building Code Handbook.

**Accessible** Having features to permit use by a person with a disability.

**Building** has the meaning ascribed to it by Sections 8 and 9 of the Building Act 2004.

**Building element** Any structural and non-structural component or assembly incorporated into or associated with a building. Included are fixtures, services, drains, permanent mechanical installations for access, glazing, partitions, ceilings and temporary supports.

**Electrical installation** Any electrical fixed appliances, and components used in the reticulation of electricity, which are intended to remain permanently attached to and form part of the building.

**Electrical supply system** The source of electricity external to the electrical installation.

**Essential service** In the context of an electrical installation means emergency lighting, firemen’s lifts, alarms, water pumps, sprinklers, detectors, ventilation systems and public address systems necessary for the safety of people in buildings.

**Intended use** in relation to a building:

- a) includes any or all of the following:
  - i) Any reasonably foreseeable occasional other use that is not incompatible with the intended use; and
  - ii) Normal maintenance; and
  - iii) Activities taken in response to fire or any other reasonably foreseeable emergency

- b) but does not include any other maintenance and repairs or rebuilding.

**Person with a disability** means a person who has an impairment, or a combination of impairments, that limits the extent to which the person can engage in the activities, pursuits and processes of everyday life, including, without limitation, any of the following:

- a) a physical, sensory, neurological, intellectual impairment or
- b) a mental illness.
1.0 Electrical Installations

1.0.1 The following documents shall be accepted as a method of verifying compliance with the relevant Performances of NZBC G9:

- AS/NZS 3000
- NZECP 34
- NZECP 36
- NZECP 54
1.0 Electrical Installations within Domestic Dwellings

1.0.1 NZECP 51 is an Acceptable Solution for electrical installations within domestic dwellings.

2.0 Light Switches and Plug Sockets for use by a Person with a Disability

2.0.1 In buildings intended for use by persons with disabilities, light switches and socket outlets shall comply with the following requirements:

a) All light switches shall be horizontally aligned with door handles.

b) The toggle, rocker, push pad, or push button control of light switches shall project clear of the switch plate.

COMMENT:
It is recommended that the width of any push pad or button be no less than 20 mm.

c) Socket outlets in accessible accommodation units shall be fixed between 500 mm and 1200 mm above the finished floor level and at least 500 mm from corners. At least one room light shall have a bedside switch.

Paragraph 2.0.1 shall not apply in damp situations where the location of the light switch and plug sockets conflicts with AS/NZS 3000.
All references to Verification Methods and Acceptable Solutions are preceded by **VM** or **AS** respectively.

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