

Australian/New Zealand Standard™

**Electrical installations—Construction
and demolition sites**



AS/NZS 3012:2010

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-001, Wiring Rules. It was approved on behalf of the Council of Standards Australia on 6 May 2010 and on behalf of the Council of Standards New Zealand on 4 June 2010.

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The following are represented on Committee EL-001:

Association of Consulting Engineers Australia
Australian Building Codes Board
Australian Electrical and Electronic Manufacturers Association
Canterbury Manufacturers Association New Zealand
Communications, Electrical and Plumbing Union
Consumers' Federation of Australia
Electrical Contractors Association of New Zealand
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Australian/New Zealand Standard™

Electrical installations—Construction and demolition sites

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-001, Wiring Rules, to supersede AS/NZS 3012:2003.

This Standard incorporates Amendment No. 1 (October 2015). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to establish sound practices for the safe use of electricity at construction and demolition sites. It is to be used in conjunction with AS/NZS 3000, *Electrical installations (known as the Australian/New Zealand Wiring Rules)*.

The main differences between this Standard and AS/NZS 3012:2003 include the following:

- (a) Requirements of this Standard have been updated to reflect changes in the latest edition of AS/NZS 3000.
- (b) A definition has been added for ‘assembly for construction sites’ (Clause 1.4.6).
- (c) A definition has been added for ‘auxiliary socket-outlet panel’ (Clause 1.4.7).
- (d) A definition has been added for ‘competent person’ (Clause 1.4.9).
- (e) The definition of construction wiring has been revised (Clause 1.4.11).
- (f) Requirements for appliances, luminaires and electrical equipment supplied by final sub-circuits of permanent installation wiring have been clarified (Clause 2.1.2).
- (g) Requirements for the use of inverters on construction and demolition sites have been revised (Clause 2.4.6.4).
- (h) Requirements for the assessment of risk for permanent wiring located where construction or demolition work may be carried out have been added (Clause 2.4.6.5).
- (i) Requirements for protection against mechanical damage for construction wiring have been added (Clause 2.4.6.5).
- (j) Requirements for double-pole switching of socket-outlets have been clarified (Clause 2.4.7).
- (k) Requirements for portable socket-outlet assemblies have been revised (Clause 2.6.10).
- (l) Requirements for auxiliary socket-outlet panels have been added. (Clause 2.6.11).
- (m) The use of electrical portable outlet devices (EPODs) to AS/NZS 3105 has been prohibited (Clause 2.6.12).
- (n) Requirements for supply to transportable structures have been revised (Clause 2.9).
- (o) Testing and inspection of fixed and portable electrical equipment has been clarified. (See Section 3.)
- (p) Referenced documents in Appendix A have been updated.
- (q) Variation added to Appendix B for the use of auxiliary socket-outlet panels in domestic housing construction.
- (r) Appendix D updated with current Regulatory contact information.
- (s) Appendix G added to provide guidance on the verification (inspection and testing) of generators and inverters with RCD protection.
- (t) Appendix H added to provide guidance on the arrangement of construction equipment.

- (u) Appendix I added to provide a verification form for use in New Zealand.
- (v) Appendix J added to provide information for supply systems for construction and demolition sites.
- (w) Appendix K added to provide information for alternative supply systems for construction and demolition sites.

Any requirement that is applicable only in Australia only or New Zealand only is indicated by the symbol **A** or **NZ** in the right margin.

Statements expressed in mandatory terms in notes to figures are deemed to be requirements of this Standard.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is for information and guidance.

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Australian/New Zealand Standard**Electrical installations—Construction and demolition sites**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out minimum requirements for the design, construction and testing of electrical installations that supply electricity to appliances and equipment on construction and demolition sites, and for the in-service testing of portable, transportable and fixed electrical equipment used on construction and demolition sites.

For a single domestic residence intended to be occupied as a residential housing unit, or, adjoining units each with a separate exterior entry and intended to be occupied as residential housing units, the requirements of this Standard are varied as detailed in Appendix B.

NOTE: The Building Code of Australia (BCA) classification of building and structures is given in Appendix C.

The requirements are intended to protect persons, livestock and property from electric shock, fire and physical injury hazards that may arise from an electrical installation that is used with reasonable care and with due regard to the intended purpose of the electrical installation.

NOTE: For requirements and recommendations regarding safe working on or near electrical equipment and installations, refer to AS/NZS 4836 and to Codes of Practice or other guidance issued by the regulatory authorities.

This Standard applies to electrical installations associated with construction and demolition sites which include—

- (a) building work, excavation work, compressed air work and diving work;
- (b) parts of buildings that undergo structural alterations, such as extensions, major repairs or demolition, to the extent that the work necessitates the provision of a temporary electrical installation;
- (c) work on or in connection with the construction or maintenance of roads, airfields or airstrips, civil engineering works or bridges, or of the permanent way of a railway or tramway;
- (d) dredging or salvaging work;
- (e) the laying, lining or maintenance of pipes or cables;
- (f) earthmoving work carried out with equipment requiring the use of other than manual power;
- (g) any work in which explosives are used;
- (h) site offices, cloakrooms, meeting rooms, dormitories, canteens, toilets, appliances and other facilities provided during any work referred to in (a) to (g); and
- (i) land clearing in preparation for any work referred to in (a) to (g).