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AS/NZS 3001:2008
(Incorporating Amendment No. 1)

AS/NZS 3001:2008

Australian/New Zealand Standard™

Electrical installations—Transportable structures and vehicles including their site supplies

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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 24 April 2008 and on behalf of the Council of Standards New Zealand on 13 November 2008.
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The following are represented on Committee EL-001:

Australian Building Codes Board
Australian Industry Group
Canterbury Manufacturers Association New Zealand
Communications, Electrical and Plumbing Union
Consumers' Federation of Australia
Electrical Contractors Association of New Zealand
Electrical Regulatory Authorities Council
Electrical Safety Organisation (New Zealand)
Electrical and Communications Association (Queensland)
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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 3001:2001.

This Standard incorporates Amendment No. 1 (May 2012). 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.

This edition was prepared to update the requirements for electrical installations associated with transportable structures and vehicles (formerly known as relocatable premises) and their site supplies following the issue of AS/NZS 3000:2007. It includes provisions for the connection of electric power to various types of transportable structures and vehicles, including caravans and various temporary structures such as tents used for domestic and commercial purposes.

This Standard differs from AS/NZS 3001:2001 in several respects including the following:

(a) The text 'relocatable premises' has been changed to 'transportable structures and vehicles' and this edition covers a larger range of installations.

(b) The underground wiring requirements for caravan parks have been updated.

(c) Diagrams showing the recommended method of connecting a transportable structure to a generator set/inverter have been added.

(d) Appendix C covering verification requirements for connectable installations in New Zealand has been added.

The application of this Standard may be required by legislation from a date to be set by the relevant regulating authority. If work on an installation was commenced before publication of this edition, the relevant regulatory authority or electricity distributor may grant permission for the installation to be completed under AS/NZS 3001:2001 as applicable.

The following background regarding differences between requirements in Australia and New Zealand is provided as general information for the reader.

In New Zealand, many caravans are fitted with a neutral-earth connection. This precludes providing RCD protection to the caravan by the installation of RCDs on the supply side of the neutral-earth connection. In Australia, such a connection is traditionally not fitted.

As this Standard applies to new site installations and new transportable structures and vehicle installations, the decision has been made that there will be no neutral-earth connection within the transportable structures and vehicles and all site supplies will have RCD protection.

In many parks there will be a mixture of new service pillars with RCD protection and old service pillars without. In New Zealand, the location of transportable structures and vehicles with a neutral-earth connection becomes a site management issue.

In the case of caravan parks which only have pillars with RCD protection, transportable structures and vehicles with a neutral earth connection will not be permitted to connect to a power outlet.

In New Zealand, it is typical for the plug on the supply lead to transportable structures and vehicles and hence for all socket-outlets intended to provide electrical power to such transportable structures and vehicles to comply with IEC 60309. In Australia, 15A, 3 pin, flat-pin plugs complying with AS/NZS 3112 are the norm. This Standard reflects changes in New Zealand allowing the provision of socket-outlets complying with AS/NZS 3112 to be installed in New Zealand caravan parks.

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In Australia, the use of round-pin plugs and socket-outlets complying with AS/NZS 3123 is allowed but flat-pin type connections are the type most commonly used for single-phase supply to transportable structures and vehicles.

A1 In Australia it is required that all circuit-breakers and switches in the wiring of transportable structures and vehicles connected by means of a detachable connection operate in all live (active and neutral) conductors. This is not required in New Zealand.

Appendices A and B are included to provide additional supportive or background information and advice. These appendices do not form an integral part of this Standard and are identified as 'informative'.

The word 'shall' introduces a requirement that is to be followed strictly in order to comply with the Standard. The word 'should' introduces a suggestion or recommendation only.

A1 A New Zealand-only amendment was issued in May 2009 to cover the removal of the neutral to earth link in New Zealand caravans built before 1993. This was necessary to allow the introduction of RCD protection to service pillars in caravan parks that was brought about by the issue of AS/NZS 3001:2008. This removal of the link was also required for caravans located adjacent to and supplied from a domestic residence that had socket outlets protected by RCDs in accordance with AS/NZS 3000. The New Zealand amendment was incorporated into the Standard by Amendment No. 1 (2012).

A new requirement introduced by Amendment No. 1 (2012) as Clause 3.10.3 highlights the additional inspection required for the periodic testing required for a re-issue of a New Zealand Warrant of Electrical Fitness. A further requirement in Appendix C clarifies the electrical supply arrangements used for the re-issue of a New Zealand Warrant of Electrical Fitness.

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