

Australian/New Zealand Standard™

**Electrical installations—Transportable  
structures and vehicles including their  
site supplies**



## **AS/NZS 3001:2008**

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:

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Consumers' Federation of Australia  
Electrical Contractors Association of New Zealand  
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# Australian/New Zealand Standard™

## **Electrical installations—Transportable structures and vehicles including their site supplies**

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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 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.

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.

In Australia it is required that all circuit-breakers and switches in the fixed wiring of transportable structures and vehicles 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.

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## FOREWORD

## Special Requirements

Any requirements that may be applicable in Australia only or New Zealand only are indicated in the text and by a symbol in the right margin as follows:

‘In Australia...’

**A**

‘In New Zealand...’

**NZ**

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard sets out the requirements for electrical installations associated with transportable structures and vehicles that are intended for connection to low-voltage a.c. supply systems (i.e. exceeding 50 V a.c. but not exceeding 1 000 V a.c.).

For the purposes of this Standard the term ‘transportable structure’ includes both vehicles and structures with or without wheels that can readily be moved from one site to another either under their own motive power or by some other means.

This Standard includes additional requirements to those detailed in AS/NZS 3000 for the internal electrical wiring of transportable structures and for any electrical installations intended to provide a low voltage supply for transportable structures by a socket-outlet and plug arrangement that can be connected by unskilled persons. Such installations include those in caravan parks and camping areas with powered sites but exclude those in fairgrounds and temporary camping sites, which are subject to the requirements of AS/NZS 3002, and those in construction and demolition sites, which are subject to the requirements of AS/NZS 3012.

Transportable structures within the scope of this Standard include the following:

- (a) Vehicles offering accommodation, including caravans, camper vans, motor homes, camper trailers and livestock or car transporters with accommodation included.
- (b) Vehicles such as food and drink vending vans and trailers, walk-through educational display caravans and trailers, mobile classrooms and television outside broadcast vans.
- (c) Transportable structures such as relocatable homes, transportable huts, tents for accommodation, and rigid and non-rigid annexes to vehicles referred to in (a) and (b).
- (d) Temporary site offices, cloakrooms, meeting offices, dormitories, canteens, toilets or other facilities provided on construction and demolition sites.

NOTE: Specific construction or demolition activities are subject to the requirements of AS/NZS 3012.

- (e) Display units not intended for occupation, e.g. mobile electronic score boards and advertising signs, mobile traffic information signs.
- (f) In New Zealand, mobile medical connectable installations complying with the requirements of this Standard. 

NOTE: Further requirements for mobile medical connectable installations can be found in NZS 6115.

This Standard does not apply to the following electrical installations:

- (i) Transportable structures with a permanently connected electricity supply and not intended to be relocated, e.g. tramcars, buses or caravans rendered immobile, and transportable sheds.

These structures are subject to the requirements of AS/NZS 3000.



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