

Australian/New Zealand Standard™

**Electrical installations—Marinas and  
recreational boats**

**Part 1: Marinas**



### **AS/NZS 3004.1:2008**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-001, Boats and Boating Marinas Installations. It was approved on behalf of the Council of Standards Australia on 7 May 2008 and on behalf of the Council of Standards New Zealand on 10 October 2008.  
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The following are represented on Committee EL-001:

Australasian Corrosion Association  
Canterbury Manufacturers Association, New Zealand  
Electrical Regulatory Authorities Council  
Electrical Safety Organisation, New Zealand  
Energy Networks Association  
Marine Queensland  
National Marine Safety Committee

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Australian/New Zealand Standard™

## **Electrical installations—Marinas and recreational boats**

### **Part 1: Marinas**

Originated as part of AS 3004—1979.  
Previous edition part of AS/NZS 3004:2002.  
Jointly revised and redesignated (in part) as AS/NZS 3004.1:2008.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Constituted Subcommittee EL-001-13, *Boats and Boating Marinas Installations*, on behalf of the Joint Standards Australia/Standards New Zealand Committee EL-001, *Wiring Rules* to supersede, in part, AS/NZS 3004:2002, *Electrical installations—Marinas and pleasure craft at low-voltage*.

This edition was prepared to update requirements for electrical installations of shore installations (marinas) in association with the issue of AS/NZS 3000:2007.

This Standard differs from AS/NZS 3004:2002 in several areas including the following:

1. The Standard is now presented as two parts—Part 1 covers the electrical installations associated with marinas, and Part 2 covers the installation of electrical systems in recreational boats.
2. Part 1 updates wording and verification requirements.
3. Part 2 provides more extensive guidance for the design, installation and ongoing verification of the on-board installation.

This Standard may be applied through legislative requirement, 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 3004:2002.

It is not the intention of this Standard to limit the introduction and use of emerging technologies. Designers are reminded that it is essential that the basic tenets of electrical and marine safety be addressed before any other equipment and installation design elements are considered.

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

‘In Australia.....’



‘In New Zealand.....’



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.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND  
**Australian/New Zealand Standard**  
**Electrical installations—Marinas and recreational boats**

Part 1: Marinas

SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Part of AS/NZS 3004 sets out requirements for electrical installations associated with marinas supplied at low-voltage a.c. supply systems (i.e. exceeding 50 V a.c. but not exceeding 1 000 V a.c.).

It includes requirements for electrical installations in marinas intended to supply electrical power to recreational boats. The requirements for installations in recreational boats are given in Part 2 of this Standard.

It includes requirements for the periodic inspection and testing of marinas.

NOTE:

This Standard does not require specific instruction notices to be provided either on a recreational boat or on a marina. However, it is recommended that the marina operator provide each recreational boat operator intending to connect a recreational boat to the marina low-voltage electrical supply with a copy of an instruction notice containing at least the information set out in Appendix A or Appendix B, as appropriate.

### 1.2 APPLICATION

Electrical installations in marinas shall be carried out in accordance with AS/NZS 3000, except as varied herein, and with the applicable additional requirements of this Standard.

NOTE: The relevant electrical safety authority might choose to apply this Standard to other installations e.g. mooring for facilities for commercial fishing boats.

The relevant electricity distributor may have additional requirements.

### 1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS

- |                  |  |
|------------------|--|
| 2832 (all parts) | Cathodic protection of metals                          |
| 60529            | Degrees of protection provided by enclosures (IP Code) |

AS/NZS

- |        |   |
|--------|---|
| 3000   | Electrical installations (known as the Australian/New Zealand Wiring Rules) |
| 3004   | Electrical installations—Marinas and recreational boats                     |
| 3004.2 | Part 2: Recreational boats installations                                    |
| 3112   | Approval and test specification—Plugs and socket-outlets                    |
| 3120   | Approval and test specification—Cord extension sockets                      |