

Australian/New Zealand Standard™

**Electrical installations—Marinas and
recreational boats**

Part 2: Recreational boats installations



AS/NZS 3004.2:2008

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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AS/NZS 3004.2:2008

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Electrical installations—Marinas and recreational boats

Part 2: Recreational boats installations

Originated as part of AS 3004—1979.
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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*.

The objective of this Standard is to provide designers, manufacturers, boat builders and regulators with safety requirements for small boats. This edition was prepared to update requirements for electrical installations of recreational boats in association with the issue of the new edition 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.

In the preparation of this Standard special consideration was given to—

- (a) IEC 60092-507: Ed.1.0 (2000), *Electrical installations in ships, Part 507: Pleasure craft*
- (b) ISO 10133, *Small craft—Electrical systems—Extra-low-voltage d.c. installations*
- (c) ISO 13297, *Small craft—Electrical systems—Alternating current installations*
- (d) American Boat and Yacht Council (ABYC), E-11 – *a.c. and d.c. electrical systems on boats*

and acknowledgement is made of the assistance received therefrom.

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 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

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.

Statements expressed in mandatory terms in notes to tables and 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 only for information and guidance.

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