

Australian Standard<sup>®</sup>

**Guidelines for design of marinas**



This Australian Standard® was prepared by Committee CE-030, Maritime Structures. It was approved on behalf of the Council of Standards Australia on 14 September 2001. This Standard was published on 4 December 2001.

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The following are represented on Committee CE-030:

- Association of Australian Port and Marine Authorities
  - Australian Maritime Engineering Cooperative Research Centre
  - Boating Industry Association of Australia
  - Department of Transport, WA Maritime Division
  - Institute of Public Works Engineering Australia
  - Australian Local Government Engineers Association
  - Institution of Engineers Australia
  - Marina Association of Australia
  - Queensland Transport
  - The Association of Consulting Engineers Australia
  - Timber Preservers Association of Australia
  - University of Wollongong
- 

This Standard was issued in draft form for comment as DR 00361.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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## Guidelines for design of marinas

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## PREFACE

This Standard was prepared by the Standards Australia Committee, CE-030, Maritime Structures.

*This Standard incorporates Amendment No. 1 (March 2010). 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 provide designers, manufacturers and operators of marina and vessel berthing facilities with a set of guidelines for recreational marinas and small commercial vessels up to 50 m in length. Guidance is also given for on-shore facilities such as dry boat storage, boatlifts, boat ramps and associated parking facilities. Recommendations of these guidelines may be superseded by the requirements of the relevant authority.

This Standard has been prepared as a guideline only, to provide advice and recommendations for common marina facilities. Clauses in this document are written using informative terminology and should not be interpreted otherwise. The requirements of a marina and its associated facilities should be determined for the individual application.

Comments from NSW Waterways Authority were considered by the committee and some of their recommendations have been included in the Standard.

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SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard sets out guidelines for the design of marinas suitable for vessels up to 50 m in length.

The Standard covers fixed berth and floating pontoon marina systems, single pontoons and floating wave attenuators. Guidance is also given for on-shore facilities such as dry boat storage, boatlifts, boat ramps and associated parking facilities.

NOTES:

- 1 This document is intended for use as a guideline and should not be used as a design specification.
- 2 The environmental impact of marinas should be assessed according to the requirements of the relevant authority.

**1.2 REFERENCED DOCUMENTS**

The documents below are referred to in this Standard.

AS

- 1170 Minimum design loads on structures
- 1170.1 Part 1: Dead and live load and load combinations
- 1170.2 Part 2: Wind loads
- 1428 Design for access and mobility (all parts)
- 1657 Fixed platforms, walkways, stairways and ladders—Design, construction and installation
- 1851 Maintenance of fire protection equipment (all parts)
- 2890 Off-street parking
- 2890.1 Part 1: Car parking facilities
- 3004 Electrical installations—Marinas and pleasure crafts at low voltage
- 3600 Concrete structures
- 4100 Steel structures
- 4586 Slip resistance classification of new pedestrian surface materials

AS/NZS

- 1418 Cranes (including hoists and winches)
- 1418.1 Part 1: General requirements
- 1418.2 Part 2: Serial hoists and winches
- 1418.7 Part 7: Builders' hoists and associated equipment
- 1418.9 Part 9: Vehicle hoists
- 1664 Aluminium structures
- 3000 Electrical installations (known as the Australian/New Zealand Wiring Rules)

NAS

- NAS54 Austroads traffic engineering practice