AS 3962:2020

Marina design

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Australasian Fire and Emergency Service Authorities Council
Boating Industry Association
Department of Transport (WA)
Engineers Australia
Fire Protection Association Australia
Marina Industries Association
Queensland Transport
Roads & Maritime Services
Royal Institution of Naval Architects
Sailing Australia
Superyacht Australia

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Preface

This Standard was prepared by the Standards Australia Committee, CE-030, Maritime Structures, to supersede AS 3962—2001, *Guidelines for design of marinas*.

The objective of this Standard is to provide designers, manufacturers and operators of marina and vessel berthing facilities with requirements for recreational marinas and small commercial vessels up to 50 m in length. Requirements are also given for on-shore facilities such as dry boat storage, boatlifts, boat ramps and associated parking facilities.

The terms "normative" and "informative" are used in Standards to define the application of the appendices to which they apply. A "normative" appendix is an integral part of a Standard, whereas an "informative" appendix is only for information and guidance.

This Standard includes a commentary on some of the clauses. The commentary directly follows the relevant clause, is designated by "C" preceding the clause number and is printed in italics in a box. The commentary is for information and guidance and does not form part of the Standard.

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Section 1 Scope and general

1.1 Scope

This Standard sets out requirements 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. Requirements are also given for on-shore facilities such as dry boat storage, boat lifts, boat ramps and associated parking facilities.

The Standard covers berths, pontoons and marinas located in coastal waters, lakes, rivers and dams.

NOTE Refer to relevant authorities for additional requirements for assessment of the environmental impact of marinas.

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS/NZS 1170.0, *Structural design actions, Part 0: General principles*

AS/NZS 1170.1, *Structural design actions, Part 1: Permanent, imposed and other actions*

AS 1428.1, *Design for access and mobility, Part 1: General requirements for access*

AS 1657, *Fixed platforms, walkways, stairways and ladders — Design, construction and installation*

AS 1720.1, *Timber Structures, Part 1: Design Methods*

AS 1851, *Routine service of fire protection systems and equipment (all parts)*

AS 2419.1, *Fire hydrant installations, Part 1: System design, installation and commissioning*

AS 2441, *Installation of fire hose reels*

AS 2444, *Portable fire extinguishers and fire blankets — Selection and location*

AS 3004.1, *Electrical installations — Marinas and boats, Part 1: Marinas*

AS 3600, *Concrete structures*

AS 3745, *Planning for emergencies in facilities*

AS 4100, *Steel structures*

AS 4586, *Slip resistance classification of new pedestrian surface materials*

AS 4997, *Guidelines for the design of maritime structures*

AS/NZS 1664.1, *Aluminium structures, Part 1: Limit state design*

AS/NZS 1664.2, *Aluminium structures, Part 2: Allowable stress design*

AS/NZS 3000, *Electrical installations*