

Australian Standard™

**Guidelines for the design of maritime
structures**



This Australian Standard was prepared by Committee CE-030, Maritime Structures. It was approved on behalf of the Council of Standards Australia on 29 March 2005. This Standard was published on 28 September 2005.

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Association of Consulting Engineers Australia
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Boating Industry Association of Australia
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PREFACE

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

The objective of this Standard is to provide designers and regulatory authorities of structures located in the marine environment with a set of guidelines and recommendations for the design, preservation and practical applications of such structures. These structures can include fixed moorings for the berthing of vessels, piles and other parts of a substructure, wharf and jetty decks, building substructures over waters, etc.

This Standard has been prepared as a guideline only, to provide advice and recommendations for maritime structures. Clauses in this document are written using informative terminology and should not be interpreted otherwise. The requirements of a maritime structure and its associated facilities should be determined for the individual application. This Standard should be used in conjunction with the relevant materials and design Standards.

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STANDARDS AUSTRALIA

Australian Standard **Guidelines for the design of maritime structures**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out guidelines for the design of structures in a marine environment. It is to be used in conjunction with the relevant Standards and provides recommendations additional to the requirements of these Standards.

This Standard is intended to cover the design of near-shore coastal and estuarine structures, such as—

- (a) jetties;
- (b) wharves;
- (c) berthing dolphins;
- (d) floating berths;
- (e) seawalls;
- (f) breakwater structures, excluding rubble mound and floating types;
- (g) boat ramps;
- (h) laterally restrained floating structures; and
- (i) building substructures over water.

This Standard is not intended to cover the design of—

- (A) pipelines;
- (B) marinas (see AS 3962);
- (C) offshore oil and gas structures;
- (D) dredging and reclamation;
- (E) coastal engineering structures such as rock armoured walls, groynes, etc;
- (F) geometrical design of port and harbour infrastructure;
- (G) floating structures not permanently restrained, e.g., vessels, construction pontoons, barges.

For buildings constructed over water, these guidelines apply to the structure up to and including the main deck level. The superstructure above main deck level should be designed in accordance with the relevant Australian Standards and relevant building regulations.



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