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**AS 2159—2009**  
(Incorporating Amendment No. 1)

AS 2159—2009

**Australian Standard<sup>®</sup>**

## **Piling—Design and installation**



This Australian Standard® was prepared by Committee CE-018, Piling. It was approved on behalf of the Council of Standards Australia on 19 June 2009.  
This Standard was published on 4 November 2009.

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The following are represented on Committee CE-018:

- Australian Building Codes Board
  - Australian Geomechanics Society
  - AUSTROADS
  - Concrete Institute of Australia
  - Engineers Australia
  - Monash University
  - Piling and Foundation Specialists Federation
  - University of Sydney
- 

This Standard was issued in draft form for comment as DR 08180.

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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**AS 2159—2009**  
(Incorporating Amendment No. 1)

**Australian Standard<sup>®</sup>**

## **Piling—Design and installation**

Originated as AS 2159—1978.  
Third edition 2009.  
Reissued incorporating Amendment No. 1 (October 2010).

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ISBN 0 7337 9286 3

## PREFACE

This Standard was prepared by the Standards Australia Committee CE-018, Piling, to supersede AS 2159—1995.

*This Standard incorporates Amendment No. 1 (October 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 requirements for design and installation of piles for supporting structures. The object of this revision is to align with updated AS 1170 Standards and reflect changes in practice since the previous edition.

Major changes to the previous edition are as follows:

- (a) Revision of the overall Standard.
- (b) Revision of the setting of strength reduction factors, that is, the selection of the ‘safety’ level appropriate to the installation being designed.
- (c) Revision of the negative skin friction requirements.
- (d) Revision of durability requirements to assist designers to achieve predicted life.
- (e) Include requirements for newer pile types and installation methods including steel screw piles, jacking, screwing and screwed cast in place.
- (f) Requirement for some testing to be ‘normative’.
- (g) Inclusion of new types of test including rapid pile testing.

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.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

Notes to the text contain information and guidance and are not considered to be an integral part of the Standard.

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