



## Specification and supply of concrete



This Australian Standard® was prepared by Committee BD-049, Manufacture of Concrete. It was approved on behalf of the Council of Standards Australia on 19 April 2007. This Standard was published on 20 September 2007.

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  - Ash Development Association of Australia
  - Association of Consulting Engineers Australia
  - Australasian Slag Association
  - Cement Concrete and Aggregates Australia—Cement
  - Cement Concrete and Aggregates Australia—Concrete
  - Concrete Institute of Australia
  - National Precast Concrete Association Australia
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This Standard was issued in draft form for comment as DR 05253.

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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STANDARDS AUSTRALIA

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**RECONFIRMATION**

**OF**

**AS 1379—2007**

**Specification and supply of concrete**

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Technical Committee BD-049 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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The following are represented on Technical Committee BD-049:

Australasian (Iron & Steel) Slag Association

AUSTROADS

Cement Concrete & Aggregates Australia – Cement

Cement Concrete & Aggregates Australia – Concrete

National Precast Concrete Association Australia

## NOTES

Australian Standard<sup>®</sup>

## Specification and supply of concrete

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## PREFACE

This Standard was prepared by the Standards Australia Committee BD-049, Manufacture of Concrete, to supersede AS 1379—1997.

*This Standard incorporates Amendment No. 1 (June 2009) and Amendment No. 2 (March 2015). 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 update the 1997 edition, align with modifications to the revision of AS 3600 and to improve clarity of requirements and commentary.

This edition incorporates the following major changes to the previous edition:

- (a) Extension of standard concrete grades from 50 MPa to 100 MPa.
- (b) Introduction of new clause covering chemical admixtures and chemical content of concrete.
- (c) Introduction of new special class concrete designations, which recognize the exposure classification.
- (d) Provides transparency of cement and aggregates required for durability.
- (e) Introduction of reportable chemical properties of mixing water.
- (f) Modification of acceptable variation between test specimens.
- (g) Reformatting of Table B1 to make it more user friendly.

The term ‘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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## STANDARDS AUSTRALIA

### Australian Standard Specification and supply of concrete

#### SECTION 1 SCOPE AND GENERAL

##### 1.1 SCOPE

This Standard sets out the minimum requirements for—

- (a) the materials, plant and equipment used in the supply of concrete;
- (b) the production and, if applicable, the delivery of concrete in the plastic state;
- (c) specifying, sampling, testing and compliance with specified properties of plastic and hardened concrete; and
- (d) the uniformity of mixing.

This Standard applies to the supply of all concrete. It is not intended to apply to mortars or grouts.

##### NOTES:

- 1 Requirements for mortars for masonry construction are given in AS 3700 and the methods for sampling and testing mortars in AS 2701.
- 2 Requirements for grouts to be used for the grouting of prestressing tendons in ducts are given in AS 3600.
- 3 It is not intended that this Standard take precedence over existing Australian Standards for the manufacture of specific concrete products.
- 4 For additional requirements specified by the customer, the applicable contract documents should be consulted.

##### 1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

##### AS

1012	Methods of testing concrete
1012.1	Method 1: Sampling of fresh concrete
1012.2	Method 2: Preparation of concrete mixes in the laboratory
1012.3.1	Method 3.1: Determination of properties related to the consistency of concrete—Slump test
1012.4.1	Method 4.1: Determination of air content of freshly mixed concrete—Measuring reduction in concrete volume with increased air pressure
1012.5	Method 5: Determination of mass per unit volume of freshly mixed concrete
1012.8.1	Method 8.1: Method of making and curing concrete—Compression and indirect tensile test specimens
1012.8.2	Method 8.2: Method of making and curing concrete—Flexure test specimens
1012.9	Method 9: Determination of the compressive strength of concrete specimens
1012.10	Method 10: Determination of indirect tensile strength of concrete cylinders ('Brasil' or splitting test)