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STANDARDS Australia

Specification and supply of concrete



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Austroads
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Specification and supply of concrete

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How to read this Standard

This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's Standardisation Guide 006 for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

Requirements

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

Recommendations, permissions and possibilities

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

(a) "should" means that something is recommended.

(b) "may" means that something is permitted.

(c) "can" means that something is possible.

Structure of Standards

A Standard always has the following parts:

(i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.

(ii) The Scope states what the Standard is about, what it covers and what it does not cover.

(iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.

(iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

(1) A normative appendix sets additional requirements that need to be conformed to.

(2) An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain when those requirements apply.

(3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

Preface

This Standard was prepared by the Standards Australia Committee BD-049, Manufacture of Concrete, to supersede AS 1379:2007.

The objective of this document is to set 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 conformity with specified properties of plastic and hardened concrete; and

(d) the uniformity of mixing.

The major changes in this edition are as follows:

(i) Alignment of the document with AS 3582.4.

(ii) Alignment of the document to the provisions of SA TS 199.

(iii) Improved clarity of requirements and commentary.

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Specification and supply of concrete

Section 1 Scope and general

1.1 Scope

This document 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 conformity with specified properties of plastic and hardened concrete; and

(d) the uniformity of mixing.

This document applies to the supply of all concrete. It does not apply to mortars or grouts.

NOTE 1 Requirements for mortars for masonry construction are given in AS 3700 and the methods for sampling and testing mortars in AS 2701.

NOTE 2 Requirements for grouts to be used for the grouting of prestressing tendons in ducts are given in AS 3600.

NOTE 3 It is not intended that this document take precedence over existing Australian Standards for the manufacture of specific concrete products.

NOTE 4 For additional requirements specified by the customer, the applicable contract documents should be consulted.

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 1012.1, *Methods of testing concrete, Method 1: Sampling of concrete*

AS 1012.2, *Methods of testing concrete, Method 2: Preparing concrete mixes in the laboratory*

AS 1012.3.1, *Methods of testing concrete, Method 3.1: Determination of properties related to the consistency of concrete—Slump test*

AS 1012.3.5, *Methods of testing concrete, Method 3.5: Determination of properties related to the consistency of concrete—Slump flow, T500 and J-ring test*

AS 1012.4.1, *Methods of testing concrete, Method 4.1: Determination of air content of freshly mixed concrete —Measuring reduction in concrete volume with increased air pressure*

AS 1012.5, *Methods of testing concrete, Method 5: Determination of mass per unit volume of freshly mixed concrete*

AS 1012.8.1, *Methods of testing concrete, Method 8.1: Method for making and curing concrete—Compression and indirect tensile test specimens*

AS 1012.8.2, *Methods of testing concrete, Method 8.2: Method of making and curing concrete—Flexure test specimens*

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