AS 3600 Supp1—1994

AS 3600 Supplement 1—1994

Concrete structures—Commentary (Supplement to AS 3600—1994)

This Australian Standard was prepared by Committee BD/2, Concrete Structures. It was approved on behalf of the Council of Standards Australia on 27 July 1994 and published on 10 October 1994.

The following interests are represented on Committee BD/2:

Association of Consulting Engineers, Australia

Australian Construction Services

Australian Federation of Construction Contractors

Australian Precast Concrete Manufacturers Association

AUSTROADS

Bureau of Steel Manufacturers of Australia

Cement and Concrete Association of Australia

CSIRO, Division of Building, Construction and Engineering

Department of Public Works, N.S.W.

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PREFACE

This Commentary (AS 3600—Supplement 1) was prepared by Standards Australia Committee on Concrete Structures and first published in 1990 to replace MP 28, Commentary on AS 1480—Concrete Structures Code, which was withdrawn in January 1991. While it is intended that it be read in conjunction with AS 3600, Concrete structures, it does not form an integral part of that Standard.

Objective The objective of this Commentary is—

- (a) to provide background reference material to the Clauses in the Standard;
- (b) to indicate the origin of particular requirements;
- (c) to indicate departures from previous practice; and
- (d) to explain the application of certain Clauses.

The clause numbers and titles used in the Commentary are the same as those in AS 3600 except that they are prefixed by the letter C. To avoid possible confusion between Commentary and Standard clauses cross-referenced within the text, Commentary clauses are referred to as 'Paragraph C ...' in accordance with Standards Australia policy.

Gaps in the numerical sequence of Commentary Paragraphs indicate that either the technical requirements of the corresponding clauses in the Standard are essentially the same as those previously given in AS 1480, Concrete Structures Code or AS 1481, Prestressed Concrete Code, or the committee considered that commentary on these clauses was not needed.

Where appropriate, each Section of the Commentary concludes with a list of references which are cross-referenced numerically in the text, e.g. (Ref. 6) or (Refs 6, 7 and 8). In some Sections additional references for further reading, or as a lead to specialist literature, have also been listed.

As noted in the Preface to AS 3600, the Standard represents a comprehensive revision and amalgamation of AS 1480 and AS 1481. To put things in perspective, AS 1480 and AS 1481 largely dated back to 1973 and essentially represented the technology of the 1960s. Since then there have been considerable advances in materials and construction technology. Also, due to the increased application of computers to modelling and analytical techniques, an improved understanding of both material and member behaviour in complete structures has been realized. More sophisticated analysis and design procedures are now readily available to design-office staff via desktop computers, while complex formulas can be quickly evaluated using electronic calculators.

While the Standard inevitably reflects the abovementioned changes, a considerable amount of material and concepts have been retained from AS 1480 and AS 1481, particularly in those areas where the benefits of technical change seemed doubtful to the committee. However, in all such instances the opportunity was taken to edit retained requirements, in order to remove ambiguities which in the past have led to conflicting interpretations.

Background to second edition

The background to the second edition of this Commentary is essentially the same as that given in the Preface of the second edition of AS 3600, with respect to new and revised reference Standards. Furthermore, in agreeing to a second edition of the Standard rather than the usual 'green-slip' amendments, the Committee also agreed that the same philosophy should in addition apply to the Commentary so that consistency would be maintained between corresponding editions of the two documents.

As the Commentary had not been amended since its publication, the opportunity was taken to include improvements suggested in the interim by users, as well as the appropriate changes necessitated by the 1990 and 1994 amendments to AS 3600. All such changes are indicated by a single bar in the left-hand margin for the extent of the affected text or figure.

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Objective of second edition

The objective of the second edition is to provide a clean, updated version of the Commentary that is consistent with the second edition of AS 3600.

Like the Standard itself, this Commentary is neither an immutable nor a perfect document. Suggestions for improvement to the Commentary, in either the content or extent of that provided, are therefore welcomed by Standards Australia.

ACKNOWLEDGMENTS

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Assoc. Prof. R Q Bridge Mr B J Corcoran Prof. K A Faulkes Mr B J Ferguson Dr I Gilbert Dr D Gunasekera Mr H P Isaacs Dr F S Pitman Mr R J Potter Prof. B V Rangan Mr W J Semple Mr D J Smee Mr G C Verge Dr P F Walsh Prof. R T Warner Mr A C Whitting

Mr P J Wyche



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