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AS 3600 Supplement3—1991

**Concrete structures—Extracts
from AS 3600 Concrete
structures—Concrete
construction requirements**

(Supplement 3 to AS 3600—1988)



STANDARDS AUSTRALIA



in conjunction with



Masters Builders'—
CONSTRUCTION & HOUSING
ASSOCIATION AUSTRALIA, Inc.

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AS 3600 Supp3—1991

Australian Standard®

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Concrete structures—Concrete
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PREFACE

This Supplement was prepared by Standards Australia at the request of the Master Builders Construction and Housing Association of Australia.

The purpose of the Supplement is to identify, for persons in the concrete construction industry, those Clauses in AS 3600 which relate in particular to various aspects of normally reinforced concrete construction. It does not purport to be exhaustive in this respect and the full Standard should be referred to for such aspects as durability and prestressed concrete construction and for cross-referenced clauses not included here.

It should be noted that the Supplement also applies to concrete construction for houses. However, the requirements of AS 2870.1 Residential slabs and footings, Part 1: Construction, take precedence for residential footing systems.

The Standard from which these extracts have been taken is the current edition. At some later time this Standard may be revised or amended. Users of this Supplement should therefore check the status of AS 3600 before applying any of the extracts.

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FOREWORD

Where a building contract document calls for the concrete works to be carried out “in accordance with AS 3600”, there is a contractual obligation on the builder to comply with the construction requirements of that Standard even if they are not shown on the plans or mentioned in the project specification. Where the applicable Building Regulations require compliance with AS 3600, there is also an overriding regulatory obligation to do the same, even if AS 3600 is not mentioned in the contract documents for the project.

It is therefore essential for those site personnel engaged in concrete construction activities, to be aware of which particular requirements of AS 3600 refer to their work and to have some understanding of what those requirements mean in terms of their on-site activities. This supplement is intended to assist in this direction by giving firstly the relevant Clauses of AS 3600 which refer to construction practices, followed by an Appendix which gives a brief explanation for each extracted requirement, or an indication of appropriate action, or both.

The Supplement is the first stage of a Guide to Concrete Construction being prepared by Standards Australia in conjunction with the Master Builders’ Construction and Housing Association of Australia. It is intended that the Guide will set out, in plain English and handy format, acceptable site practices to be followed to comply with the construction requirements of AS 3600 and to implement the design requirements of the project. It is further intended that the Guide to Concrete Construction will be the forerunner of similar ‘Guides’ for other activities on building sites.

STANDARDS AUSTRALIA

Australian Standard

CONCRETE STRUCTURES

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE AND APPLICATION

1.1.1 Scope This Standard sets out minimum requirements for the design and construction of concrete structures and members which contain reinforcing steel, or tendons, or both. It also sets out minimum requirements for plain concrete members.

1.4.2 Design details The drawings or specification for concrete members and structures should include, as appropriate, the following:

- (a) The shape and size of each member.
- (b) The finish and method of control for unformed surfaces.
- (c) Class of formwork for the surface finish specified in accordance with AS 3610.
- (d) The size, quantity and location of all reinforcement, tendons and structural fixings and the cover to each.
- (e) Any required properties of the concrete (see Clauses 19.1.7 and 19.1.8).
- (f) The curing procedure.
- (g) The force required in each tendon, the maximum jacking force to be applied and the order in which tendons are to be stressed.
- (h) The location and details of planned construction or movement joints, connections and splices, and the method to be used for their protection.
- (i) The minimum period of time before stripping of forms and removal of shores.
- (j) Any constraint on construction assumed in the design.
- (k) Any other requirements.

1.5 CONSTRUCTION All concrete structures, designed in accordance with this Standard, shall be constructed to ensure that all the requirements of the design as contained in the drawings and specifications are achieved.