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Amendment 1 to May 1986

Under Revision see ~~DR Bulletin of Feb 1983~~
DR 85137

AS 1480

~~WITHDRAWN~~ AS/3600 - 1988

REINSTATED TAS MAY 1988

Feedback MP 28 (Commentary)
Draft Commentary 85307

OBSOLESCENT TAS MAY 1988

AS 1480—1982
UDC 693.5
SfB Ab3

Australian Standard

1480–1982

New ed. delayed until Jan 88

WITHDRAWN APRIL TAS 1991

SAA CONCRETE STRUCTURES CODE

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This Australian standard was prepared by Committee BD/2, Concrete Structures. It was approved on behalf of the Council of the Standards Association of Australia on 12 January 1982 and published on 15 June 1982.

The following interests were represented on the committee responsible for the preparation of this standard:

Association of Consulting Engineers Australia

Australian Federation of Construction Contractors

Bureau of Steel Manufacturers of Australia

Cement and Concrete Association of Australia

Department of Housing and Construction

Department of Public Works NSW and WA

Division of Building Research CSIRO

Experimental Building Station

Hydro-electric Commission Tasmania

Institution of Engineers, Australia

Metropolitan Water Sewerage and Drainage Board

National Association of Australian State Road Authorities

National Ready Mixed Concrete Association

Public Buildings Department South Australia

Steel Reinforcement Promotion Group

University of Adelaide

University of New South Wales

University of Sydney

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STANDARDS ASSOCIATION OF AUSTRALIA
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15 MAY 1986

AMENDMENT No 1
to
AS 1480—1982
SAA CONCRETE STRUCTURES CODE

REVISED TEXT

SUMMARY: This amendment is necessitated by the publication of some new reference standards since the present edition of the standard was published in 1982 and applies to the Preface and Clauses 3.2 and 15.6. Also included is an amendment to Clause 2.1.3 and a typographical correction in Clause 20.2.

Published on 5 May 1986.

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AUSTRALIAN STANDARD

THE USE OF REINFORCED CONCRETE IN STRUCTURES

known as the

SAA CONCRETE STRUCTURES CODE

AS 1480 — 1982

First published	1974
Second edition	1982

10 JUN 1982

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.

STANDARDS ASSOCIATION OF AUSTRALIA SYDNEY LIBRARY

ISBN 0 7262 2495 2

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PREFACE

This edition of this standard was prepared by the Association's Committee on Concrete Structures to supersede the 1974 edition.

It incorporates Amendment Nos 1 to 4 to the 1974 edition as well as alterations to the following:

Clauses 3.5, 3.6, 4.3.1, 4.5.6, 6.4 (d), 9.11.1.1 (a), 11.10.1.3, 26.2.3

Tables 13.2.2, 16.2, G2, G3, G4.

In addition editorial changes have been made to bring the standard into line with current SAA policy.

Although the committee's main task is currently the preparation of a Unified Concrete Structures Code in limit state format, this edition was necessary to take account of—

(a) introduction of Grade 410Y reinforcing bar;

(b) increased concern over durability of concrete structures;

(c) requests for clarification of shear reinforcement requirements;

(d) alterations to AS 1302 in relation to strength of welded or mechanically spliced reinforcement; and

(e) failure criteria for cantilevers under load testing.

The committee has based the provisions relating to the design of structural lightweight concrete on the results of tests made on the types of lightweight structural concrete used in Australia from 1960. Therefore, the standard applies to lightweight structural concrete made with coarse lightweight aggregate and normal-weight fine aggregate (sand) only. It does not apply to cellular concrete, no-fines concrete or concrete made entirely from lightweight aggregate, for which there has been little use in Australia. Before lightweight concrete structures incorporating material from any new sources of supply of lightweight aggregate are designed, using the stress criteria of this standard, the lightweight concrete must be tested to prove that it is not inferior to that made from previously established sources of lightweight aggregate. Another point of considerable importance is that the specific provisions in overseas codes, in particular ACI 318, which are intended to ensure safe design within a very wide spectrum of aggregate quality, were not found to be relevant in the light of experience in Australia in recent years, where very different sources of supply have existed. For guidance in the design of lightweight concrete structures made with cellular concrete, no-fines concrete or concrete made entirely with lightweight aggregates (to which this standard does not apply), reference may be made to suitable overseas codes such as ACI 318—~~77~~ 83

SEE AMENDMENT 1

This standard requires reference to the following standards and related documents:

AS 1012	Methods of Testing Concrete Part 1 — Method for Sampling Fresh Concrete Part 3 — Determination of Properties Related to the Consistence of Concrete Part 4 — Determination of Air Content of Freshly Mixed Concrete Part 8 — Method for Making and Curing Concrete Compression, Indirect Tensile and Flexure Test Specimens in the Laboratory or in the Field Part 9 — Determination of Compressive Strength of Concrete Specimens Part 10 — Determination of Indirect Tensile Strength of Concrete Cylinders ("Brazil" or Splitting Test) Part 11 — Determination of Flexural Strength of Concrete Flexure Test Specimens Part 12 — Determination of Weight per Unit Volume of Hardened Concrete Part 14 — Method for Securing and Testing Cores from Hardened Concrete for Compressive Strength or Indirect Tensile Strength
AS 1129	Fly Ash for Use in Concrete
AS 1130	Code of Practice for Use of Fly Ash in Concrete
AS 1141	Methods for Sampling and Testing Aggregates
AS 1163	Structural Steel Hollow Sections
AS 1170	SAA Loading Code Part 1 — Dead and Live Loads Part 2 — Wind Forces
AS 1302	Steel Reinforcing Bars for Concrete
AS 1303	Hard-drawn Steel Reinforcing Wire for Concrete
AS 1304	Hard-drawn Steel Wire Reinforcing Fabric for Concrete
AS 1315	Portland Cement
AS 1317	Blended Cements
AS 1379	Ready-mixed Concrete
~~AS 1465~~	~~Dense Natural Aggregates for Concrete~~
~~AS 1467~~	~~Lightweight Aggregates for Structural Concrete~~
AS 1475	SAA Blockwork Code
AS 1478	Chemical Admixtures for Use in Concrete
AS 1479	Code of Practice for the Use of Chemical Admixtures in Concrete
AS 1481	SAA Prestressed Concrete Code
AS 1509	SAA Formwork Code
AS 1510	Code of Practice for Control of Concrete Surfaces Part 1 — Formwork
AS 1530	Methods for Fire Tests on Building Materials and Structures
AS 1554	SAA Structural Steel Welding Code Part 3 — Welding of Reinforcing Steel
AS 2121	SAA Earthquake Code
AS 2758	Aggregates and rock for engineering purposes Part 1 - 1985, Concrete aggregates

SEE AMENDMENT 1

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