AS 1012.9—1986
UDC 666.972.017:691.32:620.1

SUPERSEDED BY
AS 1012.9 - 1999

Australian Standard®
1012.9—1986

Under Revision See DR 98191

METHODS OF TESTING CONCRETE

Part 9—METHOD FOR THE DETERMINATION OF THE COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS

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

Incorporated by Royal Charter

C

This Australian standard was prepared by Committee BD/42, Methods of Testing Concrete. It was approved on behalf of the Council of the Standards Association of Australia on 18 November 1986 and published on 5 December 1986.

The following interests are represented on Committee BD/42:

Association of Consulting Engineers, Australia

Cement and Concrete Association of Australia

Confederation of Australian Industry

CSIRO, Division of Building Research

Department of Housing and Construction

National Association of Australian State Road Authorities

National Association of Testing Authorities, Australia

National Ready Mixed Concrete Association of Australia

Public Works Department, N.S.W.

University of New South Wales

Review of Australian Standards. To keep abreast of progress in industry, Australian standards are subject to periodic review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that standards users ensure that they are in possession of the latest edition, and any amendments thereto.
Full details of all SAA publications will be found in the Catalogue of SAA Publications; this information is supplemented each month by SAA's journal 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn standards.
Suggestions for improvements to Australian standards, addressed to the head office of the Association, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian standard should be made without delay in order that the matter may be investigated and appropriate action taken.

First published as AS A104 1957
Second edition 1969
First published as AS 1012.9 1973
AS A104—1969 withdrawn 1976
Second edition AS 1012.9 1986

This standard was issued in draft form for comment as DR 83193.

ISBN 0 7262 4451 1

PREFACE

This edition of this standard was prepared by the Association's Committee on Methods of Testing Concrete and supersedes AS 1012, Part 9—1973.

In this standard there are several significant changes from the previous edition.

The standard now permits the use of a restrained natural rubber capping system. The use of this system has been investigated extensively in the United States and at the laboratories of the Road Construction Authority, Victoria. Results of these investigations show that compressive strengths are comparable with other methods of capping.

The alternative capping methods have been tabulated in this standard.

CONTENTS

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

METHODS OF TESTING CONCRETE

PART 9—METHOD FOR THE DETERMINATION OF THE COMPRESSIVE STRENGTH OF CONCRETE SPECIMENS

1 SCOPE. This standard sets out a method for determining the compressive strength of concrete test specimens prepared in accordance with the provisions of AS 1012, Part 8, Part 14 or Part 19.

2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1012 Methods of Testing Concrete
- Part 8— Method for Making and Curing Concrete Compression, Indirect Tensile and Flexure Test Specimens in the Laboratory or in the Field
- Part 14—Method for Securing and Testing Cores from Hardened Concrete for Compressive Strength or Indirect Tensile Strength
- Part 19—Methods for Accelerated Curing of Concrete Compression Test Specimens in the Laboratory or in the Field

AS 1315 Portland Cement

AS 1523 Elastomeric Bearings for Use in Structures

AS 2193 Method for the Calibration and Grading of Force-measuring Systems of Testing Machines

3 DEFINITIONS. For the purpose of this standard, the following definitions apply:

3.1 Designer—the person, persons or organization responsible for the design of the structure.

3.2 Concrete supplier—the person, persons or organization responsible for the supply of the concrete mix.

4 ACCEPTANCE OF SPECIMENS.

4.1 Moulded cylinder specimens. Moulded cylinder specimens shall be accepted for testing if they appear to have been moulded in accordance with AS 1012, Part 8, and appear to be free from defects likely to affect their strength.