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NEW ZEALAND STANDARD

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## **METHODS OF TEST FOR WATER AND AGGREGATE FOR CONCRETE**

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Superseding NZS 3111:1980

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UDC 691.322.001.4

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**Standards Association of New Zealand**

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**COMMITTEE REPRESENTATION**

This Standard was prepared under the supervision of the Concrete Industry Sectional Committee (31/-) for the Standards Council, established under the Standards Act 1965. The committee consisted of representatives of the following:

- Association of Consulting Engineers New Zealand
- Building Research Association of New Zealand
- \*Department of Scientific and Industrial Research
- Harbours Association of New Zealand
- \*Ministry of Works and Development
- Municipal Association of New Zealand
- New Zealand Concrete Masonry Association
- New Zealand Concrete Research Association
- New Zealand Counties Association
- New Zealand Institution of Engineers
- New Zealand Master Builders Federation
- \*New Zealand Portland Cement Association
- New Zealand Prestressed Concrete Institute
- \*New Zealand Ready Mixed Concrete Association
- New Zealand Universities

The Concrete Testing committee (2/2/5) was responsible for the preparation of the Standard and consisted of representatives of the following organizations in addition to those marked with an asterisk (\*) above:

Aggregates Association of New Zealand Testing Laboratory Registration Council of New Zealand

Amendment No.1 was prepared under the direction of the Building and Civil Engineering Divisional Committee (30/-) for the Standards Council, established under the Standards Act 1965.

The Concrete Testing Committee (31/18) was responsible for the preparation of the Amendment and consisted of representatives of the following organizations:

- Aggregates Association of New Zealand
- Department of Scientific and Industrial Research
- Ministry of Works and Development
- New Zealand Concrete Research Association
- New Zealand Ready Mixed Concrete Association

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**STANDARDS ASSOCIATION OF NEW ZEALAND**

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**AMENDMENTS**

<i>Date of Issue</i>	<i>Description</i>

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**REQUEST FOR NEXT AMENDMENT**

If this address label has not been returned SANZ has no record that you wish to receive future amendments to this standard.

Note: Any amendment issued within 12 months of publication of this Standard, together with corrigenda and errata, will be sent free of charge in response to receipt of this notification. Subsequent amendments if issued on their own instead of being incorporated into new editions, may be subject to a charge. This will be notified with advice of the amendment.

To confirm that the next amendment has been requested, enter details of despatch below:

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NZS 3111 : 1986  
Amendment No. 1

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Please type or print clearly.  
This is your mailing label for advice of any amendment to this New Zealand Standard. Please mail to Standards Association of New Zealand, Private Bag, Wellington.



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## RELATED DOCUMENTS

Reference is made in this document to the following:

### NEW ZEALAND STANDARDS

NZS 1021:1965	Methods for the load verification of testing machines
NZS 3112:----	Methods of test for concrete
Part 1:1986	Tests relating to fresh concrete
Part 2:1986	Tests relating to the determination of strength of concrete
Part 3:1986	Tests on hardened concrete other than for strength
NZS 3121:1986	Water and aggregate for concrete
NZS 3122:1974	Portland cement (ordinary, rapid hardening, and modified)

### AMERICAN STANDARDS

ASTM E11-81	Wire-cloth sieves for testing purposes
ASTM E323-80	Perforated-plate sieves for testing purposes

### AUSTRALIAN STANDARD

AS 1152:1973	Test sieves
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### BRITISH STANDARDS

BS 410:1976	Specification for test sieves
BS 604:1982	Graduated glass measuring cylinders

## FOREWORD TO NZS 3111:1980

This Standard is a revision of NZS 3111:1974, dealing with the methods of testing water and aggregates for use in concrete.

Some of the tests have been revised to remove inconsistencies and to clarify procedures. Imperial units have been deleted.

Included are the test methods required for determining compliance with NZS 3121:1980 *Water and aggregate for concrete*. Other test methods described are useful for routine testing of quality, for determining values required in calculating mix proportions, for assessing the quality of new sources of aggregates, and for investigating problems associated with deleterious materials.

Suggestions for improvement of this Standard will be welcomed. They should be sent to the Director, Standards Association of New Zealand, Private Bag, Wellington.