

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1012.12.2—1998

Methods of testing concrete

Method 12.2: Determination of mass per unit volume of hardened concrete—Water displacement method

RECONFIRMATION NOTICE

Technical Committee BD-042 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 9 September 2014.

The following are represented on Technical Committee BD-042:

AUSTROADS

Australian Chamber of Commerce and Industry

Cement Concrete and Aggregates—Concrete

Concrete Institute of Australia

National Association of Testing Authorities Australia

The University of New South Wales

University of Technology Sydney

Victorian Construction Materials Laboratory

NOTES

Australian Standard™

Methods of testing concrete

Method 12.2: Determination of mass per unit volume of hardened concrete—Water displacement method

PREFACE

This Standard was prepared by Standards Australia Committee BD/42, Methods of Testing Concrete, to supersede in part, AS 1012.12—1986. This Method is one of a series applying to the sampling and testing of concrete.

METHOD

1 SCOPE This Standard sets out a method for determining the mass per unit volume of hardened concrete by a method involving weighing the specimen in a specified moisture condition and determining its volume by weighing the saturated specimen in water and also in air.

This Method is applicable to either regular or irregular shaped specimens. This Method is also applicable to capped specimens, provided the mass per unit volume of the cap does not differ from that of the specimen by more than 25 percent and the cap complies with the requirements of AS 1012.9.

NOTES:

- 1 Care should be taken to ensure that specimens are representative of the concrete mass, particularly if irregular shaped pieces of concrete are tested. If specimens have a volume less than a 100 × 200 mm standard cylinder, the results may not be as reliable.
- 2 Where appropriate, surface voids should be sealed or wrapped to ensure account is taken of their effect, e.g. poor compaction.
- 3 For general procedures and precautions designed to promote safety of persons and property in laboratory operations (see AS/NZS 2243.1).
- 4 This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2 REFERENCED DOCUMENT The following document is referred to in this Standard:

AS

1012 Methods of testing concrete

1012.9 Method 9: Method for the determination of the compressive strength of concrete specimens.