

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2350.14—2006

Methods of testing portland, blended and masonry cements

Method 14: Length change of cement mortars exposed to sulfate solution

RECONFIRMATION NOTICE

Technical Committee BD-010 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.

Reconfirmed documents cannot be amended, but may be formally revised and a new edition published.

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 24 February 2016.

The following are represented on Technical Committee BD-010:

AUSTROADS

Cement & Concrete Association of New Zealand

Cement Concrete & Aggregates Australia

Cement Concrete & Aggregates Australia – Cement

Cement Concrete & Aggregates Australia – Concrete

Concrete Institute of Australia

Concrete Masonry Association of Australia Limited

Engineers Australia

Portland Cement Association

NOTES

Australian Standard®

Methods of testing portland, blended and masonry cements

Method 14: Length change of cement mortars exposed to sulfate solution

1 SCOPE

This Standard sets out the method for determining the length change of mortar bars, of defined composition, immersed in a sodium sulfate solution. The length change is taken as a measure of the sulfate resistance of cement.

NOTES:

- 1 The testing procedure herein may involve the use of materials or equipment that require safety measures to be observed.
- 2 This Standard does not purport to address all of the safety concerns, if any, associated with its use.
- 3 The user of this Standard should establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 2350 Methods of testing portland, blended and masonry cements
2350.12 Method 12: Preparation of a standard mortar and moulding of specimens

AS/NZS

- 2350 Methods of testing portland, blended and masonry cements
2350.1 Method 1: Sampling
2350.11 Method 11: Compressive strength

ASTM

- C1012 Standard Test Method for Length Change of Hydraulic-cement Mortars Exposed to a Sulfate Solution

3 PRINCIPLE

The method determines length change of prismatic test specimens 40 mm × 15 mm × 150 mm in size after immersion in a sulfate solution.

The mortar is prepared and the specimens are moulded generally in accordance with AS 2350.12. The specimens are cured for 7 d before immersion in the standard sulfate solution. Measurement of the specimen length is carried out, initially after the 7 d curing and before immersion in the sulfate solution, and subsequently every 2 weeks and up to 16 weeks after immersion in the sulfate solution.