

Australian Standard<sup>®</sup>

**Ceramic tiles—Grouts and adhesives**

**Part 4: Test methods for grouts**



This Australian Standard® was prepared by Committee BD-044, Fixing of Ceramic, Natural and Reconstituted Stone Tiles. It was approved on behalf of the Council of Standards Australia on 12 February 2013.

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The following are represented on Committee BD-044:

- Australian Ceramic Society
- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Stone Advisory Association
- Australian Tile Council
- Ceramic Tile Manufacturers Association of Australia
- CSIRO Manufacturing and Materials Technology
- Master Builders Australia
- Master Glazed Wall and Floor Tile Layers Association of SA
- Plastics and Chemicals Industries Association Incorporated
- Property Council of Australia
- Surface Coatings Association Australia
- TAFE NSW

Additional Interests:

- Mr Richard Bowman
- 

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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**Part 4: Test methods for grouts**

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## PREFACE

This Standard was prepared by the Standards Australia Committee BD-044, Fixing of Ceramic, Natural and Reconstituted Stone Tiles to supersede AS 4992.4—2004, *Ceramic tiles: Products for installation*, Part 3: Grouts: *Test methods*.

The objective of this Standard is to specify methods for determining characteristics for adhesives used in the installation of ceramic tiles.

The objective of this revision is to adopt the current edition of ISO 13007-4.

This Standard is identical with, and has been reproduced from, ISO 13007-4:2010, *Ceramic tiles—Grouts and adhesives*, Part 4: *Test methods for grouts*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text ‘this International Standard’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal number.

References to International Standards should be replaced by references to Australian Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian standard</i>
ISO	AS ISO
10545 Ceramic tiles	10545 Ceramic tiles
10545-6 Part 6: Determination of resistance to deep abrasion for unglazed tiles	10545.6 Part 6: Determination of resistance to deep abrasion for unglazed tiles
13007 Ceramic tiles—Grouts and adhesives	13007 Ceramic tiles—Grouts and adhesives
13007-2 Part 2: Test methods for adhesives	13007.2 Part 2: Test methods for adhesives

Only international references that have been adopted as Australian Standards have been listed.

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## AUSTRALIAN STANDARD

**Ceramic tiles—Grouts and adhesives****Part 4:  
Test methods for grouts****1 Scope**

This part of ISO 13007 describes methods for determining characteristics of grouts used in the installation of ceramic tiles. The test methods described are the following:

- a) determination of flexural and compressive strength;
- b) determination of water absorption;
- c) determination of shrinkage;
- d) determination of resistance to abrasion;
- e) determination of transverse deformation;
- f) determination of chemical resistance.

**2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 10545-6, *Ceramic tiles — Part 6: Determination of resistance to deep abrasion for unglazed tiles*

ISO 13007-2:2010, *Ceramic tiles — Grouts and adhesives — Part 2: Test methods for adhesives*

**3 General test conditions and procedures****3.1 Sampling**

A representative sample of at least 2 kg shall be used.

**3.2 Test conditions**

Standard conditions shall be  $(23 \pm 2)^\circ\text{C}$  and  $(50 \pm 5)\%$  relative humidity and a circulation of air in the testing area less than 0,2 m/s. Other test conditions may be specified in Clause 4.