

Australian Standard[®]

Ceramic tiles

Part 16: Determination of small colour differences

STANDARDS
Australia



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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PREFACE

This Standard was prepared by the Standards Australia Committee BD-044, Fixing of Ceramic, Natural and Reconstituted Stone Tiles, to supersede AS 4459.16—2005, *Methods of sampling and testing ceramic tiles*, Part 16: *Determination of small colour differences* (ISO 10545-16:1999 MOD).

The objective of this Standard is to specify a method for utilizing colour measuring instruments for quantifying the small colour differences between plain coloured ceramic tiles, which are designed to be of uniform and consistent colour. It permits the specification of a maximum acceptable value, which depends only on the closeness of match and not on the nature of the colour difference.

The objective of this revision is to adopt the current edition of ISO 10545-16.

This Standard is identical with, and has been reproduced from, ISO 10545-16:2010, *Ceramic tiles*, Part 16: *Determination of small colour differences*.

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

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AUSTRALIAN STANDARD

Ceramic tiles**Part 16:
Determination of small colour differences****1 Scope**

This part of ISO 10545 describes a method for utilizing colour measuring instruments for quantifying the small colour differences between plain coloured ceramic tiles, which are designed to be of uniform and consistent colour. It permits the specification of a maximum acceptable value, which depends only on the closeness of match and not on the nature of the colour difference.

This part of ISO 10545 is not applicable to colour variations produced for artistic purposes.

NOTE This test is applicable only when small colour differences between plain coloured tiles are important in a specification or by agreement.

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 105-J03:2009, *Textiles — Tests for colour fastness — Part J03: Calculation of colour differences*

CIE 015:2004, *Colorimetry*

3 Terms and definitions

For the purposes of this document the following terms and definitions apply.

3.1**chroma**

attribute of colour that is defined as deviation from grey of the same lightness

NOTE The more a colour deviates from grey, the higher the chroma.

3.2**lightness**

parameter that relates the colour to a continuous grey scale between white and black