Australian Standard®

Ceramic tiles

Part 1: Guide to the installation of ceramic tiles

This Australian Standard was prepared by Committee BD/44, Fixing of Ceramic Tiles. It was approved on behalf of the Council of Standards Australia on 14 May 1991 and published on 9 August 1991.

The following interests are represented on Committee BD/44:

Adhesives and Sealants Manufacturers Association of Australia

Association of Consulting Engineers of Australia

Building Services Corporation

Building Workers Industrial Union

Ceramic Manufacturers Association of New South Wales

Ceramic Manufacturers Association of Victoria

Confederation of Australian Industry

CSIRO, Division of Building, Construction and Engineering

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Department of Technical and Further Education, N.S.W.

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Victorian Association of Ceramic Tile Merchants

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Part 1: Guide to the installation of ceramic tiles

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PREFACE

This Standard was prepared by the Standards Australia Committee on Fixing of Ceramic Tiles as a general guide to the installation of ceramic tiles.

This Standard provides guidance on the preparation of the background and the fixing and grouting of floor and wall tiles and mosaic tiles.

Specialized applications such as swimming pools, the need for chemical resistance and the use of epoxies are not considered. Additional information on the application of screeds and rendering and on cleaning and maintenance is included in separate appendices.

This series, when complete, will consist of the following Standards:

AS 3958 Ceramic tiles

AS 3958.1 Guide to the installation of ceramic tiles (this Standard)

AS 3958.2 Guide to the selection of a ceramic tiling system

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Australian Standard Ceramic tiles

Part 1: Guide to the installation of ceramic tiles

SECTION 1 SCOPE AND GENERAL

- **1.1 SCOPE** This Standard deals with all work involved in the internal and external laying of ceramic wall and floor tiles. It deals with the types and classes of backgrounds and substrates and their suitability to receive a bedded finish using the following fixing methods, which are also described in the relevant sections:
- (a) Bedding in sand/cement mortar on rendering or as a direct bedding method.
- (b) Bedding in cement-based adhesives on an intermediate substrate or as a direct bedding method.
- (c) Bedding in organic-based adhesives on an intermediate substrate or as a direct bedding method.
- (d) Bedding in other adhesives on an intermediate substrate or as a direct bedding method.

The use of epoxies is not considered as special techniques are involved.

Mosaic tiles constitute a specialized form of tiling and those aspects of fixing which require particular treatment are dealt with in this Standard.

The recommendations relate to mosaics assembled in the form of sheets, the separate pieces being glued either face down to paper or bedding side down to nylon adhesive strips, fabric net or other material.

Where tiling is to be carried out in wet areas, the recommendations in AS 3740 should be considered, particularly with regard to the preparation of the background.

Recommendations for tiling in situations where there are specific functional or environmental requirements are provided in BS 5385, Part 4.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

1302	Steel reinforcing bars for concrete
1303	Hard-drawn steel reinforcing wire for concrete
1304	Welded wire reinforcing fabric for concrete
1315	Portland cement
1478	Chemical admixtures for use in concrete
1479	Code of practice for the use of chemical admixtures in concrete
1526	One-part polysulphide-based sealing compounds for the building industry
1527	Two-part polysulphide-based sealing compounds for the building industry
1650	Hot-dipped galvanized coatings on ferrous articles
1672	Building limes
1684	SAA Timber Framing Code
1859	Flat pressed particleboard
1860	Code of practice for installation of particleboard flooring
1884	Floor coverings—Resilient sheet and tiles—Laying and maintenance practices
2270	Plywood and blockboard for interior use
2271	Plywood and blockboard for exterior use
2358	Adhesives—For fixing ceramic tiles
2588	Gypsum plasterboard
2589	The application and finishing of gypsum plasterboard in framed dwelling construction
2758 2758.1	Aggregates and rock for engineering purposes Part 1: Concrete aggregates
2870 2870 1	Residential slabs and footings Part 1: Construction



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