

BS 5385-4:2015



BSI Standards Publication

Wall and floor tiling – Part 4: Design and installation of ceramic and mosaic tiling in specific conditions – Code of practice

bsi.

...making excellence a habit.™

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution 2015

Published by BSI Standards Limited 2015

ISBN 978 0 580 84960 2

ICS 91.060.01; 91.060.30

The following BSI references relate to the work on this document:

Committee reference B/539

Draft for comment 15/30293166 DC

Publication history

First published June 1986

Second edition April 1992

Third edition December 2008

Fouth (present) edition October 2015

Amendments issued since publication

Date	Text affected
-------------	----------------------

Contents

Foreword *ii*

1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	General	2
5	Movement	8
6	Traffic and load	9
7	Wet and damp conditions	12
8	Chemical attack	20
9	Thermal effects (climatic and environmental)	26
10	Exposure to radioactivity	29
11	Sterile conditions	29
12	Thermal insulation	30
13	Sound insulation	31
14	Anti-static conditions	32
15	Cleaning and slip resistance	32

Annexes

Annex A (informative) Guidance on the reduction of slip hazards 34

Bibliography 37

List of tables

Table 1 – Suitability of ceramic tiles for internal wall tiling in specific conditions 4

Table 2 – Suitability of ceramic tiles for internal floor tiling in specific conditions 5

Table 3 – Suitability of bedding methods for wall tiling in specific conditions 6

Table 4 – Suitability of bedding methods for floor tiling in specific conditions 7

Table 5 – Resistance of tile bed, grout and sealant materials to various liquids 24

Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 38, an inside back cover and a back cover.

Foreword

Publishing information

This part of BS 5385 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 October 2015. It was prepared by Technical Committee B/539, *Ceramic tiles and other rigid tiling*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 5385 supersedes BS 5385-4:2009, which is withdrawn.

Information about this document

This is a full revision of the standard, and introduces the following principal change:

- updated references to take account of the new harmonized European product standards and their supporting suites of test methods.

This part of BS 5385, *Wall and floor tiling* is one of a series dealing with the installation of floor and wall tiling, the other parts being:

- Part 1: Design and installation of internal ceramic, natural stone and mosaic wall tiling in normal conditions – Code of practice
- Part 2: Design and installation of external ceramic and mosaic wall tiling in normal conditions – Code of practice
- Part 3: Design and installation of internal and external ceramic and mosaic floor tiling in normal conditions – Code of practice
- Part 5: Design and installation of terrazzo, natural stone, agglomerated stone tile and slab flooring – Code of practice

Use of this document

As a code of practice, this part of BS 5385 takes the form of guidance and recommendations. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

Any user claiming compliance with this part of BS 5385 is expected to be able to justify any course of action that deviates from its recommendations.

Presentational conventions

The provisions in this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is “should”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

1 Scope

This part of BS 5385 gives recommendations for the design considerations and installation of ceramic wall and floor tiling and mosaics in situations where there are specific functional, e.g. sterile conditions, or environmental requirements, e.g. wet areas, and conditions that are potentially detrimental, e.g. chemical attack, to either or both the installation or the background. Recommendations are given for the choice of materials, application practices and, where appropriate, for the design of backgrounds and structural bases.

This part of BS 5385 augments the recommendations given in BS 5385-1, BS 5385-2 and BS 5385-3.

NOTE BS 5385-1, BS 5385-2 and BS 5385-3 give recommendations for internal and external, wall and floor tiling and mosaics for exchanging information, time schedules, suitable materials, tile backgrounds and bases and their preparation, cement and sand rendering, movement joints, bedding methods for tiles and mosaics, grouting, protection, cleaning and maintenance.

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.

BS 5385-1, *Wall and floor tiling – Part 1: Design and installation of internal ceramic, natural stone and mosaic wall tiling in normal conditions – Code of practice*

BS 5385-2:2014, *Wall and floor tiling – Part 2: Design and installation of external ceramic and mosaic wall tiling in normal conditions – Code of practice*

BS 5385-3:2014, *Wall and floor tiling – Part 3: Design and installation of internal and external ceramic and mosaic floor tiling – Code of practice*

BS 5493, *Code of practice for protective coating of iron and steel structures against corrosion*

BS 6100-6, *Building and civil engineering – Vocabulary – Part 6: Construction parts*

BS 6349-1, *Maritime structures – Part 1: Code of practice for general criteria*

BS 8204-1, *Screeds, bases and in-situ floorings – Part 1: Concrete bases and cementitious levelling screeds to receive floorings – Code of practice*

BS EN 197-1, *Cement – Part 1: Composition, specifications and conformity criteria for common cements*

BS EN 12002:2008, *Adhesives for tiles – Determination of transverse deformation for cementitious adhesives and grouts*

BS EN 12004:2007+A1:2012, *Adhesives for tiles – Requirements, evaluation of conformity, classification and designation*

BS EN 12620, *Aggregates for concrete*

BS EN 13888:2009, *Grouts for tiles – Requirements, evaluation of conformity, classification and designation*

BS EN 14411:2012, *Ceramic tiles – Definitions, classification, characteristics, evaluation of conformity and marking*

NA to BS EN 1992-3, *UK National Annex to Eurocode 2: Design of concrete structures – Part 3: Liquid retaining and containment structures*