

Ceramic tiles —

Part 7: Determination of resistance to surface abrasion for glazed tiles

The European Standard EN ISO 10545-7:1998 has the status of a British Standard

ICS 91.100.25

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

This British Standard, having been prepared under the direction of the Sector Committee for Building and Civil Engineering, was published under the authority of the Standards Committee and comes into effect on 15 April 1999

© BSI 02-2000

ISBN 0 580 32225 4

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
National foreword	ii
Foreword	2
Foreword	iii
Text of ISO 10545-7	1

National foreword

This British Standard is the English language version of EN ISO 10545-7:1998. It is identical with ISO 10545-7:1996. It supersedes BS 6431-20:1984 which will be withdrawn when Parts 1 to 16 of BS EN ISO 10545 have all been published.

The UK participation in its preparation was entrusted to Technical Committee B/539, Ceramic tiles and other rigid tiling, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

This part is referred to in the specification for ceramic tiles, ISO 13006, that includes requirements for all the tiles standardized in BS 6431-1 to BS 6431-9 inclusive.

The technical changes from the method described in BS 6431-20 are as follows.

The use of the dry abrasive load has been deleted. The number of revolutions to establish the classes of abrasion resistance has been changed to start at 100 for class 1 and end at > 12 000 for a new class 5. To achieve class 5, tiles also have to pass the test in BS EN ISO 10545-14 for stain resistance.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

Textual errors

The textual errors set out below were discovered when the English language version of EN ISO 10545-7:1998 was adopted as the national standard. They have been reported to CEN and ISO.

clause 4, line 4, delete “stell” and substitute “steel”;

5.1, paragraph 1, line 8, delete “22,5” and substitute “25,5” and paragraph 2, delete “present” and substitute “preset”;

5.3, delete “(110 + 5)” and substitute “(110 ± 5)”;

6.6, line 3, delete “ckeck” and substitute “check”;

clause 7, paragraph 4, line 4, delete “sujected” and substitute “subjected” and paragraph 5, line 2, delete “restult” and substitute “result”;

Table 1, note 1, delete “Must” and substitute “Shall”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO title page, page 2, the ISO title page, pages ii to iv, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

English version

Ceramic tiles — Part 7: Determination of resistance to surface abrasion for glazed tiles

(ISO 10545-7:1996)

Carreaux et dalles céramiques —
Partie 7: Détermination de la résistance à
l'abrasion de surface pour les carreaux et
dalles émaillés
(ISO 10545-7:1996)

Keramische Fliesen und Platten —
Teil 7: Bestimmung des Widerstandes gegen
Oberflächenverschleiß — Glasierte Fliesen
und Platten
(ISO 10545-7:1996)

This European Standard was approved by CEN on 29 November 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 189 “Ceramic tile” of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 67 “Ceramic tiles”, the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1999, and conflicting national standards shall be withdrawn at the latest by June 1999.

Annex A of this standard is only informative.

EN ISO 10545 consists of the following parts, under the common title, “Ceramic tiles”:

- *Part 1: Sampling and basis for acceptance* (ISO 10545-1:1995);
- *Part 2: Determination of dimensions and surface quality* (ISO 10545-2:1995, including Technical Corrigendum 1:1997);
- *Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density* (ISO 10545-3:1995, including Technical Corrigendum 1:1997);
- *Part 4: Determination of modulus of rupture and breaking strength* (ISO 10545-4:1995);
- *Part 5: Determination of impact resistance by measurement of coefficient of restitution* (ISO 10545-5:1996, including Technical Corrigendum 1:1996);
- *Part 6: Determination of resistance to deep abrasion for unglazed tiles* (ISO 10545-6:1995);
- *Part 7: Determination of resistance to surface abrasion for glazed tiles* (ISO 10545-7:1996);
- *Part 8: Determination of linear thermal expansion* (ISO 10545-8:1994);
- *Part 9: Determination of resistance to thermal shock* (ISO 10545-9:1994);
- *Part 10: Determination of moisture expansion* (ISO 10545-10:1995);
- *Part 11: Determination of crazing resistance for glazed tiles* (ISO 10545-11:1994);
- *Part 12: Determination of frost resistance* (ISO 10545-12:1995, including Technical Corrigendum 1:1997);
- *Part 13: Determination of chemical resistance* (ISO 10545-13:1995);
- *Part 14: Determination of resistance to stains* (ISO 10545-14:1995, including Technical Corrigendum 1:1997);
- *Part 15: Determination of lead and cadmium given off by glazed tiles* (ISO 10545-15:1995);

— *Part 16: Determination of small colour differences* (ISO/DIS 10545-16:1998);

— *Part 17: Determination of coefficient of friction* (ISO/DIS 10545-17:1998).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 10545-7:1996 has been approved by CEN as a European Standard without any modification.

NOTE Normative references to International Standards are listed in Annex ZA (normative).