



EESTI STANDARDI EESSÕNA NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO	This Estonian standard EVS-EN ISO
10545-7:2000 sisaldab Euroopa standardi	10545-7:2000 consists of the English text
EN ISO 10545-7:1998+AC:1999 ingliskeelset teksti.	of the European standard EN ISO 10545- 7:1998+AC:1999.
ingliskeelsenteksti.	7.1990 AC.1999.
Käesolev dokument on jõustatud	This document is endorsed on 11.01.2000
11.01.2000 ja selle kohta on avaldatud	with the notification being published in the
teade Eesti standardiorganisatsiooni	official publication of the Estonian national
ametlikus väljaandes.	standardisation organisation.
Standard on kättesaadav Eesti	The standard is available from Estonian
standardiorganisatsioonist.	standardisation organisation.
Käsitlusala:	Scope:
This part of ISO 10545 specifies a method for determining the resistance to surface	This part of ISO 10545 specifies a method for determining the resistance to surface
abrasion of all glazed ceramic tiles used	abrasion of all glazed ceramic tiles used
for floor covering	for floor covering
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Võtmesõnad: abrasion resistance, abrasion tests, ceramics, determination, floor	
coverings, tiles	
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EN ISO 10545-7

December 1998

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

.100.20 Descriptors: Ceramics, tiles, surface abrasion, testing. **English version** Ceramic tiles etermination of resistance to surface abrasion for glazed tiles (ISO 10545-7: 1996) Carreaux et dalles céramiques -Keramische Fliesen und Platten -Partie 7: Détermination de la Teil 7: Bestimmung des Widerstandes résistance à l'abrasion de surface pour les carreaux et dalles émaillés gegen Oberflächenverschleiß -Glasierte Fliesen und Platten (ISO 10545-7: 1996) (ISO 10545-7: 1996) This European Standard was approved by CEN on 1998-11-29. 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. The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom. European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 10545-7 : 1996 Ceramic tiles – Part 7: Determination of resistance to surface abrasion for glazed tiles, which was prepared by ISO/TC 189 'Ceramic tiles' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 67 'Ceramic tiles', the Secretariat of which is held by UNI, as a European Standard.

EN ISO 10545 comprises the following Parts, under the common title 'Ceramic tiles':

Part 1: Sampling and basis for acceptance

Part 2: Determination of dimensions and surface quality

Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density

Part 4: Determination of modulus of rupture and breaking strength

Part 5: Determination of impact resistance by measurement of coefficient of restitution

Part 6: Determination of resistance to deep abrasion for unglazed tiles

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

Part 8: Determination of linear thermal expansion

Part 9: Determination of resistance to thermal shock

Part 10: Determination of moisture expansion

Part 11: Determination of crazing resistance for glazed tiles

Part 12: Determination of frost resistance

Part 13: Determination of chemical resistance

Part 14: Determination of resistance to stains

Part 15: Extraction of lead and cadmium from glazed tiles

Part 16: Determination of colour differences

Part 17: Determination of coefficient of friction

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

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

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

NOTE: Normative references to international publications are listed in Annex ZA (normative)

1 Scope

This part of ISO 10545 specifies a method for determining the resistance to surface abrasion of all glazed ceramic tiles used for floor covering.

Normative reference 2

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 10545. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 10545 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 8486-1:—¹⁾, Bonded abrasives — Grain size analysis — Designation and determination of grain size distribution — Part 1: Macrogrits F 4 to F 220.

ISO 10545-14:1995, Ceramic tiles — Part 14: Determination of resistance to stains.

3 Principle

Determination of the abrasion resistance of the glaze of tiles by rotation of an abrasive load on the surface and assessment of the wear by means of visual comparison of abraded test specimens and non-abraded tiles.

4 Abrasive load

The total load on each test specimen shall consis

- 70,0 g of steel balls of diameter 5 mm;
- 52,5 g of steel balls of diameter 3 mm;
- 43,75 g of stell balls of diameter 2 mm;
- 8,75 g of steel balls of diameter 1 mm;
- 3,0 g of white fused aluminium oxide of grain size F 80 according to ISO 8486; Jeneralea of the state
- 20 ml of deionized or distilled water.

1) To be published. (Revision of ISO 8486:1986)