

**Dust-pressed ceramic tiles with a water absorption of 3  
% < E ≤ 6 %; group BIa**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 177:2003 sisaldab Euroopa standardi EN 177:1991 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 06.06.2003 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 177:2003 consists of the English text of the European standard EN 177:1991.

This standard is ratified with the order of Estonian Centre for Standardisation dated 06.06.2003 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

ICS 91.100.25

area, classifications, consistency, flatness, measurement, orders : sales documents, planks, specifications, surfaces, tiles, tolerances, tolerances (measurement), wall coatings, wall coverings, wall plates, wall tiles, water absorption, water absorption tests

### Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:  
Aru 10 Tallinn 10317 Eesti; [www.evs.ee](http://www.evs.ee); Telefon: 605 5050; E-post: [info@evs.ee](mailto:info@evs.ee)

### Right to reproduce and distribute belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:  
Aru str 10 Tallinn 10317 Estonia; [www.evs.ee](http://www.evs.ee); Phone: 605 5050; E-mail: [info@evs.ee](mailto:info@evs.ee)

EUROPEAN STANDARD

EN 177:1991

NORME EUROPEENNE

EUROPAISCHE NORM

September 1991

UDC 691.43:413-033.64

Supersedes EN 177:198

Descriptors: Tiles, coating slabs, water absorption tests, equipment specifications, shape, dimensions, dimensional tolerance, appearance, physical properties, mechanical properties, chemical properties, marking

English version

Dust-pressed ceramic tiles with a water absorption of  $3\% < E \leq 6\%$  (Group BIIa)

Carreaux et dalles ceramiques presses à sec à absorption d'eau  $3\% < E \leq 6\%$  (Groupe BIIa) Trockengepreßte keramische Fliesen und Platten mit einer Wasseraufnahme von  $3\% < E \leq 6\%$  (Gruppe BIIa)

This European Standard was approved by CEN on 1991-09-18. 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, 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

(c) CEN 1991 Copyright reserved to all CEN members

Ref. No. EN 177:1991 E

### Foreword

This European Standard was drawn up by the Technical Committee CEN/TC 67 'Ceramic tiles', the Secretariat of which is held by UNI.

According to the common CEN/CENELEC rules, the following countries are bound to implement this European Standard:

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

This document is a preview generated by EVS

## 1 Scope and field of application

This European Standard specifies the sizes, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles. It is applicable only to dust-pressed ceramic tiles of first quality, including tiles premounted on sheets, with a water absorption of  $3\% < E < 6\%$  according to Group BIIa of EN 87, for interior and exterior use (see clause 7 ordering) on both floors and walls.

## 2 References

- EN 87 'Ceramic floor and wall tiles — Definitions, classification, characteristics and marking'
- EN 98 'Ceramic tiles — Determination of dimensions and surface quality'
- EN 99 'Ceramic tiles — Determination of water absorption'
- EN 100 'Ceramic tiles — Determination of modulus of rupture'
- EN 101 'Ceramic tiles — Determination of scratch hardness of surface according to Mohs'
- EN 102 'Ceramic tiles — Determination of resistance to deep abrasion — Unglazed tiles'
- EN 103 'Ceramic tiles — Determination of linear thermal expansion'
- EN 104 'Ceramic tiles — Determination of resistance to thermal shock'
- EN 105 'Ceramic tiles — Determination of crazing resistance'

EN 106 'Ceramic tiles — Determination of chemical resistance — Unglazed tiles'

EN 122 'Ceramic tiles — Determination of chemical resistance — Glazed tiles'

EN 154 'Ceramic tiles — Determination of resistance to surface abrasion — Glazed tiles'

EN 183 'Ceramic tiles — Sampling and basis for acceptance'

EN 202 'Ceramic tiles — Determination of frost resistance'

## 3 Description

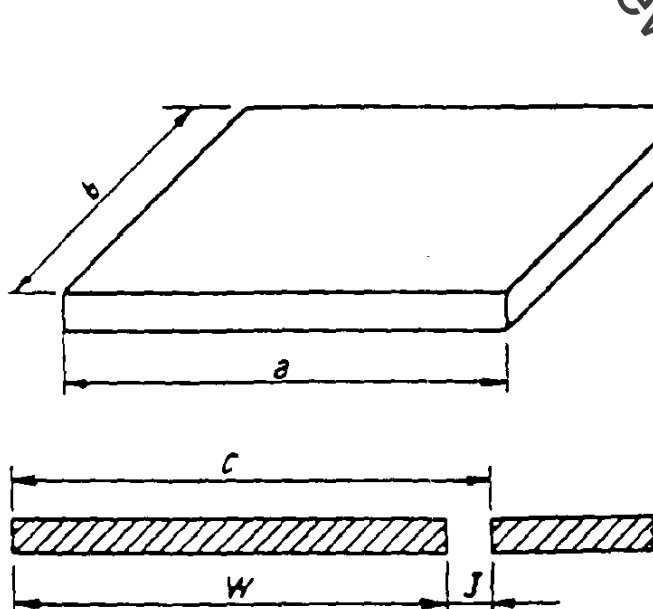
The definition of dust-pressed ceramic tiles is given in EN 87. Mosaic is a tile of any geometrical shape whose surface area is equal or less than  $90 \text{ cm}^2$ . The surface of tiles and components belonging to this group can be smooth, profiled, wavy, decorated or finished in some other way. It can be unglazed (UGL), glossy, matt or semi-matt (GL).

Although tiles have a visible surface and usually a surface which is intended to be adhered and bears a back panel, they may have identical surfaces without a panel or marking.

Tiles may have spacer lugs.

## 4 Shapes and sizes

For shapes and sizes see tables 1 and 2 and figures 1 and 2.



Co-ordinating size (C) = Work size (W) + Joint width (J)  
Work size (W) = Dimensions of the visible face (a) and (b)

Figure 1. Tile