

**Dust-pressed ceramic tiles with water absorption
 $E < 10 \%$; group BIII**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 159:2003 sisaldab Euroopa standardi EN 159:1991 ingliskeelset teksti.

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Supersedes EN 159:1984

Descriptors: Tiles, coating slabs, ceramic coatings, equipment specifications, dimensions, dimensional tolerances, physical properties, appearance, chemical properties, mechanical properties, designation, marking

English version

Dust-pressed ceramic tiles with water absorption
E>10% - Group BIII

Carreaux et dalles céramiques pressés à sec à absorption d'eau E>10% - Groupe BIII Trockengepreßte Fliesen und Platten mit hoher Wasseraufnahme E>10% - Gruppe BIII

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CEN

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

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FOREWORD

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

This European Standard was adopted by CEN on the strength of its acceptance by the following Member countries:

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

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1. Object and field of application

This European Standard specifies sizes, dimensional tolerances, mechanical, physical and chemical requirements, surface quality requirements and marking of ceramic tiles.

It is applicable only to dust-pressed ceramic glazed tiles of first quality, with a water absorption ($E > 10\%$) according to group BIII of EN 87, for use as both wall and floor coverings. Tiles in this group are mainly used in areas not subject to severe mechanical load. They are not intended for applications where conditions of frost may apply.

There is a small production of dust-pressed ceramic unglazed tiles with a water absorption greater than 10 % that is not covered by this standard.

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 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 — Glazed tiles'
- EN 122 'Ceramic tiles — Determination of chemical resistance — Glazed tiles'
- EN 154 'Ceramic tiles — Determination of resistance to abrasion — Glazed tiles'
- EN 163 'Ceramic tiles — Sampling and basis for acceptance'

3. Description

The definition of dust-pressed ceramic tiles is given in EN 87. 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 glossy, matt or semi-matt (GL).

Tiles may have spacer lugs.

4. Shapes and sizes

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

4.1 Other sizes. For dust-pressed tiles with dimensions other than those given in tables 1 and 2, the work size shall be stated by the manufacturer. The relevant requirements for work size and thickness given in the respective tables are applicable.

4.2 Spacer lug tiles. Spacer lugs are projections, usually of 0,6 mm, which are located along certain edges of tiles so that when two tiles are placed together, in line, the lugs on adjacent edges separate the tiles by a distance not less than the specified width of joint. Lugs are positioned so that the joint between the tiles may be filled with grout without the lugs remaining exposed.

Dust-pressed tiles may be made with other spacer lug systems and in such cases, the manufacturer's work size shall apply.

For an example of spacer lug tiles, see figure 2.

NOTE. Some tiles have one or more manufacturing projections part way along certain edges and smaller than 0,3 mm. These are not intended as spacer lugs and shall not be used to space joints.

4.3 Accessories. Dimensions and tolerances of accessories for example soap-holders, are not standardized and these shall be stated by the manufacturer where appropriate.