



# SLOVENSKI STANDARD

## SIST EN 688:2011

01-september-2011

Nadomešča:  
SIST EN 688:1999

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### Netekstilne talne obloge - Specifikacija plutovinastih linolejev

Resilient floor coverings - Specification for corklinoleum

Elastische Bodenbeläge - Spezifikation für Korklinoleum

Revêtements de sol résilients - Spécifications pour le linoléum sur liège  
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#### **ICS:**

79.100	Pluta in izdelki iz plute	Cork and cork products
97.150	Netekstilne talne obloge	Non-textile floor coverings

**SIST EN 688:2011**

**en,fr,de**

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EUROPEAN STANDARD

EN 688

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2011

ICS 97.150

Supersedes EN 688:1997

English Version

## Resilient floor coverings - Specification for corklinoleum

Revêtements de sol résilients - Spécifications pour le  
linoléum sur liège

Elastische Bodenbeläge - Spezifikation für Korklinoleum

This European Standard was approved by CEN on 10 March 2011.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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## Foreword

This document (EN 688:2011) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor coverings”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 688:1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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**EN 688:2011 (E)****1 Scope**

This European Standard specifies the characteristics of corklinoleum, supplied in roll form.

To encourage the consumer to make an informed choice, the standard includes a classification system based on intensity of use, which shows where resilient floor coverings should give satisfactory service (see EN 685). It also includes requirements for marking.

The term 'linoleum' is frequently incorrectly applied to a range of floor coverings, often to those based on polyvinyl chloride or rubber. Such materials are excluded from this standard.

**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.

EN 426, *Resilient floor coverings — Determination of width, length, straightness and flatness of sheet material*

EN 428, *Resilient floor coverings — Determination of overall thickness*

EN 429, *Resilient floor coverings — Determination of the thickness of layers*

EN 430, *Resilient floor coverings — Determination of mass per unit area*

EN 433, *Resilient floor coverings — Determination of residual indentation after static loading*

EN 435, *Resilient floor coverings — Determination of flexibility*

EN 436, *Resilient floor coverings — Determination of density*

EN 670, *Resilient floor coverings — Identification of linoleum and determination of cement content and ash residue*

EN 685, *Resilient, textile and laminate floor coverings — Classification*

EN ISO 105-B02, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:1994, including amendment 1:1998)*

EN ISO 717-2, *Acoustics — Rating of sound insulation in buildings and of building elements — Part 2: Impact sound insulation (ISO 717-2:1996)*

EN ISO 10140-3, *Acoustics — Laboratory measurement of sound insulation of building elements — Part 3: Measurement of impact sound insulation (ISO 10140-3:2010)*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 3.1

##### **linoleum cement**

binder in linoleum, consisting of a mixture of linseed oil and/or other vegetable drying oils, rosin and drying oil catalysts, which is converted to a semi-elastic mass by an oxidative curing process

#### 3.2

##### **corklinoleum**

product produced by calendering a homogeneous mixture of linoleum cement, granulated cork, pigments and inorganic filler onto a fibrous backing

NOTE 1 The product is then converted into its final form by an oxidative curing process.

NOTE 2 The only chemical cross-linking bondings in corklinoleum will be those which are formed during the oxidation process. Corklinoleum is a composition containing sufficient granulated cork, to give underfoot comfort and impact sound reduction.

### 4 Identification

Corklinoleum shall be identified by its ability to be disintegrated in 0,5 mol/l potassium hydroxide/methanol solution.

The maximum amount of inorganic filler (ash residue) shall be 25 % when tested in accordance with EN 670.

Corklinoleum shall be distinguished from other types of linoleum by its density.

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### 5 Requirements

#### 5.1 General requirements

All classes of corklinoleum shall comply with the general requirements, as appropriate, specified in Table 1, when tested in accordance with the methods given therein.

Table 1 — General requirements

Property	Requirement	Test method
Rolls Length m width mm	Not less than the nominal values	EN 426
Overall thickness mm Average	Nominal value $\pm 0,15$	EN 428
Individual values	Nominal value $\pm 0,20$	
Thickness of fibrous backing mm Average	$\leq 0,80$	EN 429
Mass per unit area $g/m^2$ Average	Nominal value $\pm 10 \%$ .	EN 430
Density $kg/m^3$	$\leq 850$	EN 436
Residual indentation after static loading mm Average	$\leq 0,30$ $\leq 0,35$ $\leq 0,45$	EN 433
Impact sound reduction dB 3,2 mm nominal thickness 4,5 mm nominal thickness 6,0 mm nominal thickness	$\geq 12$ $\geq 14$ $\geq 16$	Test in accordance with EN ISO 10140-3 and calculate and express the results in accordance with EN ISO 717-2.



Table 1 (continued)

Flexibility			EN 435 Method A
Thickness (nominal)	Mandrel diameter	Shall show no signs of cracking when bent around the appropriate mandrel	
3,2 mm	30 mm		
4,5 mm	40 mm		
6,0 mm	50 mm		
Colour fastness to artificial light		5 minimum	EN ISO 105-B02 Method 3 <sup>1)</sup>
<sup>1)</sup> Before comparing the test piece, expose the reference sample together with the Blue Wool cloth to the xenon arc lamp, until a contrast is produced on Blue Wool Reference 2 equal to the contrast illustrated by Grey Scale 3. This step is necessary to remove the inherent 'stove yellowing' of linoleum before the stable colouration is achieved.			

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