



SLOVENSKI STANDARD

SIST EN 12103:1999

01-november-1999

Netekstilne talne obloge - Podlage iz zlepljene plute - Specifikacija

Resilient floor coverings - Agglomerated cork underlays - Specification

Elastische Bodenbeläge - Preßkorkunterlagen - Spezifikation

Revetements de sols résilients - Sous couches en aggloméré de liège - Spécification

Ta slovenski standard je istoveten z: **EN 12103:1999**

[SIST EN 12103:1999](https://standards.iteh.ai/catalog/standards/sist/2a7527ed-b830-42c6-9e4a-a78b37966f7d/sist-en-12103-1999)

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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

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12103

March 1999

ICS 79.100; 97.150

English version

Resilient floor coverings - Agglomerated cork underlays - Specification

Revêtements de sols résilients - Sous-couches en
aggloméré de liège - Spécification

Elastische Bodenbeläge - Preßkorkunterlagen -
Spezifikation

This European Standard was approved by CEN on 21 September 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 134 "Resilient and textile 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 September 1999, and conflicting national standards shall be withdrawn at the latest by September 1999.

This standard includes three informative annexes:

Annex A: Optional properties

Annex B: Supplementary information

Annex C: Bibliography

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.

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REPUBLIKA SLOVENIJA
AGENCIJA REPUBLIKE SLOVENIJE
ZA VARNOST IN KAKOVOST
PROJEKTA ZA VARNOST IN KAKOVOST
SIST EN 12103:1999



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1 Scope

This European Standard specifies the requirements for cork underlays made from agglomerated cork designed to be used in conjunction with any type of resilient floor covering to improve their acoustical performance and/or to provide a base for any rigid floor coverings. Optionally, they can be used to improve thermal performance. The standard also specifies requirements for marking and labelling.

NOTE: The performance of the cork underlays is dependent on the cork underlays themselves, the type of floor covering used and the installation of both; the performance of the "complex" (floor covering plus underlay) is not covered by this standard. The use of cork underlays should follow the instructions of the manufacturer.

Cork underlays are supplied either in sheet or roll form.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references subsequent amendments to, or revisions of, any of this publication apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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

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EN 428, *Resilient floor coverings - Determination of the overall thickness*

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

<https://standards.iteh.ai/catalog/standards/sist/2a7527ed-b830-42c6-9e4a-781270701919>

EN 435, *Resilient floor coverings - Determination of flexibility* 1999

EN 672, *Resilient floor coverings - Determination of apparent density of agglomerated cork*

EN 12105, *Resilient floor coverings - Determination of moisture content of agglomerated cork*

EN 12466, *Resilient floor coverings - Vocabulary*

EN ISO 140-6, *Acoustics - Measurement of sound insulation in buildings and of building elements - Part 6: Laboratory measurements of impact sound insulation of floors*

EN ISO 140-8, *Acoustics - Measurement of sound insulation in buildings and of building elements Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a standard floor*

ISO 717-2, *Acoustics - Rating of sound insulation in buildings and of building elements - Part 2: Impact sound insulation*

ISO/DIS 7322, *Composition cork - Test methods*

3 Definitions

For the purposes of this European Standard the following definitions apply:

3.1

agglomerated composition cork

product obtained from the agglutination of cork granules with the addition of a binder, generally not derived from cork cells [EN 12466]

3.2

agglomerated cork underlays (referred to in this standard as “cork underlay”)

products consisting of agglomerated composition cork, possibly with other granules, that has suitable characteristics for use as underlay. When the product is based on rubercork, it is designated as rubercork underlay [EN 12466].

4 Requirements

All cork underlays described in this standard shall conform to the appropriate requirements specified in table 1, when tested in accordance with methods given therein.

Table 1: Requirements
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Characteristic	Requirements	Test method
Length /Width rolls or sheets:	\geq nominal value	EN 426
Overall thickness ¹⁾ nominal thickness ≤ 5 mm nominal thickness > 5 mm	maximum deviation: $\pm 0,2$ mm $\pm 5\%$ up to a maximum of 0,5 mm	EN 428
Mass per unit area g/m ²	nominal value $\pm 10\%$	EN 430
Flexibility ²⁾	no cracking or failure	EN 435 Method A
Tensile strength: kPa	≥ 200	ISO/DIS 7322
Moisture content %	shall be stated by the manufacturer	EN 12105
Impact sound reduction ³⁾	shall be stated by the manufacturer ⁴⁾	EN ISO 140-6 or EN ISO 140-8

1) In the determination of the overall thickness the plate shall have the diameter of $(25,3 \pm 0,1)$ mm and shall be a be loaded with a mass of $(0,20 \pm 0,01)$ kg

2) The mandrel used shall have one of the following diameters:

Nominal thickness (mm)	Mandrel diameter (mm)
$\geq 2,0$ and $< 3,0$	25
$\geq 3,0$ and $< 4,0$	35
$\geq 4,0$ and $< 5,0$	40
$\geq 5,0$ and $< 6,0$	45
$\geq 6,0$	50

3) To determine the impact sound reduction of the underlay, EN ISO 140-6 shall be used; when the performance of the underlay together with the floor covering is to be measured, EN ISO 140-8 shall apply.

4) The impact sound reduction shall be calculated according to ISO 717-2.

5 Marking and labelling

Cork underlays which conform to the requirements of this European Standard shall be clearly and indelibly marked by the manufacturer either in their package or on an adhesive label with the following information:

- a) the number and the year of this standard, i.e. EN 12103:1999;
- b) the manufacturer's and/or supplier's identification;
- c) the product name and batch number (possibly in code form);
- d) year of manufacture (last two digits);
- e) nominal dimensions of rolls or sheets;
- g) the covered area in square metres, when intended for sale to general public.

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Annex A (informative)

Optional properties

The following property is considered important for some specific uses, when tests are carried out on the combination of underlay plus floor covering, as appropriate:

- thermal resistance (see prEN 12664)

Annex B (informative)

Supplementary information

The manufacturer should provide information on the laying of cork underlays.

Since the performance of the cork underlays is dependent on the combination of the cork underlay itself, the type of floor covering used and the installation of both, the laying of all types of cork underlays should be in accordance with the manufacturer's instructions.

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Annex C (Informative)

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Bibliography

- prEN 12664 Building materials - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Dry and moist products of low and medium thermal resistance