
Netekstilne talne obloge - Talne obloge iz plute - Specifikacija

Resilient floor coverings - Cork floor tiles - Specification

Elastische Bodenbeläge - Presskorkplatten - Spezifikation

Revêtements de sols résilients - Dalles en liège - Spécification

Ta slovenski standard je istoveten z: prEN 12104

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ICS:

79.100	Pluta in izdelki iz plute	Cork and cork products
97.150	Talne obloge	Floor coverings

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English Version

Resilient floor coverings - Cork floor tiles - Specification

Revêtements de sols résilients - Dalles en liège -
Spécification

Elastische Bodenbeläge - Presskorkplatten -
Spezifikation

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 134.

If this draft becomes a European Standard, 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (prEN 12104:2022) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile, laminate and modular mechanical locked floor coverings”, the secretariat of which is held by NBN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 12104:2018.

In comparison with the previous edition, a general review was done. The more relevant technical modifications done were:

- Scope review.
- Normative references.
- General requirements:
 - 1) Dimensional stability requirement and test method.
- Classification requirements:
 - 1) Residual indentation requirements review based on apparent density value.
 - 2) Effect of Castor chair requirements review, surface type notes and test method update.
 - 3) Wear resistance eliminate option EN 13329:2016+A1:2017, Annex E, and requirements review for varnish surfaces.
- Optional Properties review.
- Bibliography update.

1 Scope

This document specifies the requirements for cork floor coverings made from agglomerated composition cork, with or without a decorative surface layer, with or without applied colours, supplied in tile form which are designed to be used with a factory finish and/or an *in situ* finish.

The cork floor decorative surface layer can be made of cork or other bio-based decorative materials, e.g. wood or bamboo veneers, linoleum, leather or natural fibres.

This document includes a classification system based on intensity of use which shows where cork floor tiles with a factory finish can give satisfactory service (see EN ISO 10874). It also specifies requirements for marking, labelling and packing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 12466:1998, *Resilient floor coverings - Vocabulary*

EN 15468:2016+A.1:2021, *Laminate floor coverings - Elements with directly applied printing and resin surface layer - Specifications, requirements and test methods*

EN ISO 4918, *Resilient, textile and laminate floor coverings - Castor chair test (ISO 4918)*

EN ISO 10874, *Resilient, textile and laminate floor coverings - Classification - Amendment 1: Elimination of class 22+ (ISO 10874)*

EN ISO 16581, *Resilient and laminate floor coverings - Determination of the effect of simulated movement of a furniture leg (ISO 16581)*

EN ISO 23997, *Resilient floor coverings - Determination of mass per unit area (ISO 23997)*

EN ISO 23999, *Resilient floor coverings - Determination of dimensional stability and curling after exposure to heat (ISO 23999)*

EN ISO 24342, *Resilient and textile floor-coverings - Determination of side length, edge, straightness and squareness of tiles (ISO 24342)*

EN ISO 24343-1, *Resilient and laminate floor coverings - Determination of indentation and residual indentation - Part 1: Residual indentation (ISO 24343-1)*

EN ISO 24346, *Resilient floor coverings - Determination of overall thickness (ISO 24346)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12466 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1**agglomerated composition cork**

product obtained from the agglutination of cork granules with the addition of a binder

3.2**cork floor covering**

floor covering, the main component of which is agglomerated composition cork, intended to be used with a finish

[SOURCE: EN 12466:1998, 2.1.27]

4 Requirements**4.1 General requirements**

Cork floor coverings described in this document shall conform to the appropriate general requirements specified in Table 1, when tested in accordance with methods given therein.

Table 1 — General requirements

Property	Requirements	Test method
Side length mm Squareness and straightness of edges mm for side length ≤ 400 mm > 400 mm	deviation from nominal: ≤ 0,2 % up to 1,0 mm maximum ≤ 0,5 ≤ 1,0	EN ISO 24342
Overall thickness mm Average of the overall thickness Individual results of the overall thickness	nominal value − 0,10 + 0,15 average value ±0,15	EN ISO 24346
Apparent density kg/m ³ Average Individual results	≥ nominal value ≥ 95 % nominal value	EN ISO 23997
Dimensional stability ^a %	≤ 0,30	EN ISO 23999
Curling ^a mm	≤ 4	EN ISO 23999
^a Allow the test specimens to recondition for 7 days (±0,5 d) after exposure to heat and before measuring the final values.		

4.2 Classification requirements

Cork floor coverings described in this document shall be classified as suitable for different levels of intensity of use in accordance with the performance requirements specified in Table 2, when tested in accordance with the test methods stated therein.

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Classification shall conform to the system specified in EN ISO 10874.

Table 2 — Classification requirements for cork floor coverings with a factory finish

Class	Level of use	Overall thickness mm	Apparent density ^a kg/m ³	Residual indentation mm	Effect of a castor chair	Simulated movement of a furniture leg	Wear resistance ^a
21	Domestic Moderate	≥ 3,2	≥ 400	≤ 0,4	No requirement	No requirement	No requirement
22	Domestic General	≥ 4,0	≥ 450	≤ 0,4			500
23	Domestic Heavy	≥ 4,0	≥ 450	≤ 0,4			1 000
31	Commercial Moderate	≥ 4,0	≥ 450	≤ 0,4	No disturbance to the surface other than slight change in appearance and no delamination shall occur after 10 000 cycles	No damage shall be visible after testing with type 2 foot	2 500
32	Commercial General	≥ 4,0	≥ 500	≤ 0,3			3 500
33	Commercial Heavy	≥ 4,0	≥ 500	≤ 0,3	No disturbance to the surface other than slight change in appearance and no delamination shall occur after 25 000 cycles		5 000
34	Commercial Very Heavy	≥ 4,0	≥ 500	≤ 0,3			7 000
41	Light industrial Moderate	≥ 4,0	≥ 500	≤ 0,3			7 000
Reference test method	EN ISO 10874	EN ISO 24346	EN ISO 23997	EN ISO 24343-1	EN ISO 4918	EN ISO 16581	EN 15468:2016+A.1:2021, Annex A

^a Not applicable for sanded, oil or wax factory finish.

5 Marking, labelling and packing

Cork floor coverings that conform to the requirements of this document shall be clearly marked by the manufacturer either in their package or on a label with the following information:

- a) number and the year of this document, i.e. prEN 12104:2022;
- b) manufacturer's and/or or supplier's identification;
- c) product name including the finishing and batch number (possibly in code form);
- d) class/symbol of level of use;
- e) nominal dimensions and the area in square metres contained in a package;
- f) the warning that packages shall be stored shielded from direct sunlight and humidity.

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Annex A

(informative)

Optional properties

Where the following properties are required for specific applications, the floor covering should be tested in accordance with the appropriate methods:

- Effect of stains, EN 438-2: Group 1 for 10 min only, Group 2 and Group 3 as mentioned in the standard;
- Micro-Scratch Resistance, EN 16094;
- Electrical resistance, EN 1081;
- Thermal conductivity / Thermal resistance, EN 12667;
- Impact Sound Insulation, EN ISO 10140-3:2021.

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