# SLOVENSKI STANDARD
# oSIST prEN 1817:2019

**01-julij-2019**

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**Netekstilne talne obloge - Specifikacija homogenih in heterogenih gladkih gumenih talnih oblog**

Resilient floor coverings - Specification for homogeneous and heterogeneous smooth rubber floor coverings

Elastische Bodenbeläge - Spezifikation für homogene und heterogene Elastomer-Bodenbeläge

Revêtements de sol résilients - Spécifications des revêtements de sol homogènes et hétérogènes en caoutchouc lisse



**Ta slovenski standard je istoveten z:** **prEN 1817**

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**ICS:**

| | | |
|---|---|---|
| 97.150 | Talne obloge | Floor coverings |

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EUROPEAN STANDARD

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# DRAFT
# prEN 1817

June 2019

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Will supersede EN 1817:2010

English Version

# Resilient floor coverings - Specification for homogeneous and heterogeneous smooth rubber floor coverings

Revêtements de sol résilients - Spécifications des revêtements de sol homogènes et hétérogènes en caoutchouc lisse

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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (prEN 1817:2019) has been prepared by Technical Committee CEN/TC 134 Resilient, textile and laminate coverings", the secretariat of which is held by NBN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 1817:2010.

In comparison with the previous edition, the following technical modifications have been made:

— references to standards in Table 1, Table 2 and Annex A.

# 1 Scope

This document specifies the characteristics of homogeneous and heterogeneous smooth (including grained or embossed) rubber floor coverings, supplied in either tile or roll form.

This document includes a classification system based on intensity of use, which shows where these resilient floor coverings should give satisfactory service (see EN ISO 10874). It also specifies requirements for marking.

# 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 425, *Resilient and laminate floor coverings — Castor chair test*

EN 12466, *Resilient floor coverings — Vocabulary*

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

EN ISO 10874, *Resilient, textile and laminate floor coverings — Classification*

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

EN ISO 24340, *Resilient floor coverings — Determination of the thickness of layers (ISO 24340)*

EN ISO 24341, *Resilient and textile floor coverings — Determination of length, width and straightness of sheet (ISO 2431)*

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 24344, *Resilient floor coverings — Determination of flexibility and deflection (ISO 24344)*

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

ISO 48-4, *Rubber, vulcanized or thermoplastic — Determination of hardness by durometer method (Shore hardness)*

ISO 4649, *Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device*



# 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 http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

**3.1**
**homogeneous rubber floor covering**
floor covering based on natural or synthetic rubber with one or more layers of the same composition and colour, patterned throughout its thickness

**3.2**
**heterogeneous rubber floor covering**
floor covering based on natural or synthetic rubber consisting of a wear layer and other compact layers which differ in composition and/or design and can contain a reinforcement

## 4 General requirements

All homogeneous and heterogeneous smooth rubber floor coverings shall conform to the appropriate general requirements specified in Table 1, when tested in accordance with the test methods given therein.

**Table 1 — General requirements**

| Property | Requirements | Test method |
|---|---|---|
| Thickness | See Table 2 | EN ISO 24346 |
| Roll form:<br>length<br>width | not less than the stated nominal values | EN ISO 24341 |
| Tiles:<br>side length<br>squareness and straightness for side of length:<br>≤ 610 mm<br>> 610 mm | tolerance allowed: ± 0,15 % of nominal length<br>tolerance allowed: ± 0,25 mm<br>tolerance allowed: ± 0,35 mm | EN ISO 24342 |
| Dimensional stability | tolerance allowed ± 0,4 % | EN ISO 23999 |
| Flexibility:<br>diameter of mandrel 20 mm | no cracking | EN ISO 24344, Method A |
| Hardness | ≥ 75 Shore A | ISO 48-4 |
| Residual indentation (after static loading)<br>nominal thickness<br>< 2,5 mm<br>≥ 2,5 mm | average value ≤ 0,15 mm<br>average value ≤ 0,20 mm | EN ISO 24343-1 |
| Abrasion resistance | ≤ 250 $mm^3$ | ISO 4649, Method A,<br>vertical load (5 ± 0,1) N |
| Colour fastness to artificial light[a] | 6 minimum on blue wool scale ≥ 3 on grey scale | EN ISO 105-B02, Method 3 |
| [a] Expose a full size test specimen. Store a further test specimen in the dark, which will constitute the reference standard for assessment of colour change. | | |

## 5 Classification requirements

All the homogeneous and heterogeneous smooth rubber floor coverings shall be classified in accordance with the requirements for overall thickness and the wear layer thickness specified in Table 2, when tested in accordance with the test methods given therein.

**Table 2 — Classification requirements**

| Class (see EN ISO 10874) | Level of use | Minimum overall thickness[a] (homogeneous and heterogeneous) EN ISO 24346 mm | Minimum thickness of wear layer[b] (heterogeneous) EN ISO 24340 mm | Effect of a castor chair EN 425 |
|---|---|---|---|---|
| 21 | domestic moderate | 1,8 | 1,0 | No requirement |
| 22 | domestic general/ medium | 1,8 | 1,0 | |
| 22+ | domestic general | 2,0 | 1,0 | |
| 23 | domestic heavy | 2,0 | 1,0 | |
| 31 | commercial moderate | 2,0 | 1,0 | |
| 32 | commercial general | 2,0 | 1,0 | |
| 33 | commercial heavy | 2,0 | 1,0 | |
| 34 | commercial very heavy | 2,0 | 1,0 | |
| 41 | light industrial moderate | 2,0 | 1,0 | If tested for verification, no disturbance to the surface other than slight change due to flatter appearance ± no delamination shall occur |
| 42 | light industrial general | 2,0 | 1,0 | |
| 43 | light industrial heavy | 2,5 | 1,0 | |

[a] The average overall thickness shall have a tolerance of ± 0,15 mm and no individual result shall exceed 0,20 mm from the nominal.

[b] The average thickness of the wear layer shall have a tolerance of ± 0,15 mm and no individual result shall exceed 0,20 mm from the nominal.

## 6 Marking

The floor coverings described in this standard and/or their packaging shall bear the following marking:

a) a reference to this document, i.e. EN 1817:—;

b) the manufacturer's or supplier's identification;

c) the product name;

d) the colour/pattern, and batch and roll number if applicable;

e) the class/symbol, as specified in EN ISO 10874;

f) the dimensions for tiles;

g) the covered area for rolls.

# Annex A
(informative)

# Optional properties

The following properties are considered important for some specific uses:

— electrical resistance (EN 1081);

— electrostatic propensity (EN 1815);

— effect of stains (EN ISO 26987);

— effect of simulated movement of a furniture leg (EN 424);

— cigarette resistance (EN 1399).

In general use, a rubber floor covering, depending on the colour and/or pattern, is expected to have the following rating when tested in accordance with EN 1399:1997+C1:1998:

— Method A, stubbed cigarettes; rating 4 or higher;

— Method B, burning cigarettes; rating 3 or higher.