

SLOVENSKI STANDARD

SIST EN 1817:2010

01-september-2010

Nadomešča:
SIST EN 1817:1999

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: EN 1817:2010

ICS:

97.150	Netekstilne talne obloge	Non-textile floor coverings
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1817

June 2010

ICS 97.150

Supersedes EN 1817:1998

English Version

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

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Elastische Bodenbeläge - Spezifikation für homogene und heterogene Elastomer-Bodenbeläge

This European Standard was approved by CEN on 20 May 2010.

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Contents

Page

Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 General requirements	5
5 Classification requirements	6
6 Marking	6
Annex A (informative) Optional properties	8
Bibliography	9

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Foreword

This document (EN 1817:2010) 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of an identical text or by endorsement, at the latest by December 2010, and conflicting national standards shall be withdrawn at the latest by December 2010.

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This document supersedes EN 1817:1998.

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EN 1817:2010 (E)

1 Scope

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

This European Standard includes a classification system based on intensity of use, which shows where these resilient floor coverings should give satisfactory service (see EN 685). It also specifies requirements for marking.

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 425, *Resilient and laminate floor coverings – Castor chair test*

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

EN 427, *Resilient floor coverings – Determination of the side length, squareness and straightness of tiles*

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

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

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

EN 434, *Resilient floor coverings – Determination of dimensional stability and curling after exposure to heat*

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

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

EN 12466:1998, *Resilient floor coverings – Vocabulary*

EN ISO 105-B02:1999, *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)

ISO 4649:2002, *Rubber, vulcanized or thermoplastic – Determination of abrasion resistance using a rotating cylindrical drum device*

ISO 7619:2004 (all parts), *Rubber, vulcanized or thermoplastic – Determination of indentation hardness*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12466:1998 and the following apply.

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 428
Roll form:		EN 426
length	not less than the stated nominal values	
width		
Tiles:		EN 427
side length	tolerance allowed: $\pm 0,15$ % of nominal length	
squareness and straightness for side of length:	tolerance allowed:	
≤ 610 mm	$\pm 0,25$ mm	
> 610 mm	$\pm 0,35$ mm	
Dimensional stability:	tolerance allowed: $\pm 0,4$ %	EN 434
Flexibility:	no cracking	EN 435 Method A
diameter of mandrel 20 mm		
Hardness	≥ 75 Shore A	ISO 7619:2004
Residual indentation (after static loading):		EN 433
nominal thickness		
$< 2,5$ mm	average value $\leq 0,15$ mm	
$\geq 2,5$ mm	average value $\leq 0,20$ mm	
Abrasion resistance	≤ 250 mm ³	ISO 4649:2002 Method A, vertical load ($5 \pm 0,1$) N
Colour fastness to artificial light ^a	6 minimum on blue wool scale ≥ 3 on grey scale	EN ISO 105-B02:1999 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 685)	Level of use	Minimum overall thickness ^a (homogeneous and heterogeneous) mm	Minimum thickness of wear layer ^b (heterogeneous) mm	Effect of a castor chair
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	
Test method		EN 428	EN 429	EN 425

^a The average overall thickness shall have a tolerance of $\pm 0,15$ 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 $\pm 0,15$ 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 reference to this European Standard, i.e. EN 1817:2010;
- the manufacturer's or supplier's identification;
- the product name;
- the colour/pattern, and batch and roll number if applicable;

- e) the class/symbol, as specified in EN 685;
- f) the dimensions for tiles;
- g) the covered area for rolls.

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