SLOVENSKI STANDARD
SIST EN 1816:1999

01-marec-1999

Netekstilne talne obloge - Specifikacija homogenih in heterogenih gladkih gumenih talnih oblog s penastim hrbtiščem

Resilient floor coverings - Specification for homogeneous and heterogeneous smooth rubber floor coverings with foam backing

Elastische Bodenbeläge - Spezifikation für homogene und heterogene ebene Elastomer-Bodenbeläge mit Schaumstoffbeschichtung

Revetements de sol résilients - Spécifications des revetements de sol homogenes et hétérogenes en caoutchouc lisse avec semelle en mousse

Ta slovenski standard je istoveten z: **EN 1816:1998**

ICS:

97.150	Netekstilne talne obloge	Non-textile floor coverings

SIST EN 1816:1999 **en**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1816

March 1998

ICS 97.150

Descriptors: floor coverings, rubber coatings, definitions, classifications, specifications, tests, marking

English version

Resilient floor coverings - Specification for homogeneous and heterogeneous smooth rubber floor coverings with foam backing

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

Elastische Bodenbeläge - Spezifikation für homogene und heterogene ebene Elastomer-Bodenbeläge mit Schaumstoffbeschichtung

This European Standard was approved by CEN on 13 February 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.

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 1998, and conflicting national standards shall be withdrawn at the latest by September 1998.

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.

Annex A and Annex B are informative.

1 Scope

This European Standard specifies the characteristics of homogeneous and heterogeneous smooth, including grained or embossed, rubber floor coverings with foam backing, supplied in 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

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 these publications 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 425	Resilient floor coverings - Determination of the effect of a castor chair
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 431	Resilient floor coverings - Determination of peel resistance
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 floor coverings - Classification
EN 1399	Resilient floor coverings - Determination of resistance to stubbed and burning cigarettes
EN 12466	Resilient floor coverings - Vocabulary
EN 20105-B02:1992	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light (Xenon arc fading lamp test) (ISO 105-BO2:1988)
ISO 4649:1985	Rubber - Determination of abrasion resistance using a rotating cylindrical drum device
ISO 7619:1986	Rubber - Determination of indentation hardness by means of pocket hardness meters

3 Definitions

For the purposes of this Standard, the following definitions and the definitions given in EN 12466 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 with foam backing 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
Roll form: length width	not less than the stated nominal values	EN 426
Dimensional stability	tolerance allowed ± 0,4 %	EN 434
Thickness of foam backing	not less than the stated nominal value	EN 429
Cigarette heat resistance: stubbed burning	Method A ≥ rating 4 Method B ≥ rating 3	EN 1399
Flexibility: diameter of mandrel 20 mm	no cracking	EN 435 Method A
Hardness of wear layer	≥ 75 Shore A	ISO 7619:1986
Residual indentation (after static loading)	average value ≤ 0,25 mm	EN 433
Peel resistance	average value ≥ 50 N/50 mm or rupture in the foam	EN 431
Abrasion resistance of wear layer	≤ 250 mm^3	ISO 4649:1985 Method A vertical load (5 ± 0,1) N
Colour fastness to artificial light[1)]	6 minimum on blue wool scale ≥ 3 grey scale	7.2.3 of EN 20105-B02:1992 Method 3 - test conditions 6.1 a) Normal conditions for use in Europe

[1)] 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 with foam backing 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** [1] (homogeneous and heterogeneous) mm	**Minimum thickness of wear layer** [2] (heterogeneous) mm	**Effect of a castor chair**
21	domestic moderate	2,5	1,0	No requirement
22	domestic general	2,5	1,0	
23	domestic heavy	3,5	1,0	
31	commercial moderate	3,5	1,0	
32	commercial general	3,5	1,0	If tested for verification, no disturbance to the surface other than slight change due to flatter appearance - no delamination shall occur.
33	commercial heavy	3,5	1,0	
Test method		EN 428	EN 429	EN 425

[1] The average overall thickness shall have a tolerance of ± 0,20 mm and no individual result shall exceed 0,25 mm from the nominal.

[2] The average thickness of the wear layer shall have a tolerance of ± 0,20 mm and no individual result shall exceed 0,25 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 1816:1998

b) manufacturer's or supplier's identification;

c) product name;

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

e) class/symbol, as specified in EN 685;

f) covered area for rolls.

Annex A (informative)

Optional properties

The following properties are considered important for some specific uses:

- electrostatic propensity (EN 1815);
- effect of stains (EN 423);
- effect of simulated movement of a furniture leg (EN 424).

Annex B (informative)

Bibliography

EN 423	Resilient floor coverings - Determination of the effect of stains
EN 424	Resilient floor coverings - Determination of the effect of the simulated movement of a furniture leg
EN 1815	Resilient and textile floor coverings - Assessment of static electrical propensity