



SLOVENSKI STANDARD
SIST EN 14521:2004
01-november-2004

9`Ughj bY`HJbY`cV`c[Y`E`GdYWZ_ UW`UnU[`UX_Y[i a YbY`HJbY`cV`c[Y`g`dYbUghja
` fVh`j` Ya `U]`VfYn`b`Y[Un`XY_cfUW`c

Resilient floor coverings - Specification for smooth rubber floor coverings with or without foam backing with a decorative layer

Elastische Bodenbeläge - Spezifikation für ebene Elastomer-Bodenbeläge mit oder ohne Schaumunterschicht mit einer dekorativen Schicht

Revetements de sol résilients - Spécification des revêtements de sols lisses en caoutchouc avec ou sans sous-couche en mousse avec couche décorative

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Ta slovenski standard je istoveten z: EN 14521:2004

ICS:

97.150 Netekstilne talne obloge Non-textile floor coverings

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14521

June 2004

ICS 97.150

English version

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This European Standard was approved by CEN on 16 April 2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 14521:2004) 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 2004, and conflicting national standards shall be withdrawn at the latest by December 2004.

Annex A is informative.

This document includes a 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EN 14521:2004 (E)**1 Scope**

This European Standard specifies the characteristics of smooth, grained or embossed rubber coverings with a decorative surface layer, with or without a foam backing supplied in either tile or roll form.

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

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 (including amendments).

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 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 660-1, *Resilient floor coverings – Determination of wear resistance - Part 1: Stuttgart test.*

EN 663, *Resilient floor coverings – Determination of conventional pattern depth.*

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

EN 1399, *Resilient floor coverings – Determination of resistance to stubbed and burning cigarettes.*

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).*

ISO 4649, *Rubber, vulcanised or thermoplastic – Determination of abrasion resistance using a rotating cylindrical drum device.*

ISO 7619-1, *Rubber, vulcanized or thermoplastic – Determination of indentation hardness – Part 1: Durometer method (Shore hardness).*

3 Terms and definitions

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

3.1

rubber floor covering

floor covering in rolls or tiles, based on natural or synthetic rubber

3.2

rubber floor covering with a decorative surface layer

floor covering based on natural or synthetic rubber with all layers of the same composition, patterned in a decorative surface layer

4 Requirements

All smooth rubber floor coverings with a decorative layer shall comply with the appropriate general requirements specified in Table 1, when tested in accordance with the methods given therein.

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Table 1 — General requirements

Property	Requirements	Test method
Thickness	see Table 2	EN 428
Roll form: length width	not less than the stated nominal values	EN 426
Tiles: side length	tolerance $\pm 0,15$ % nominal length	EN 427
squareness and straightness for side length < 610 mm > 610 mm	tolerance allowed $\pm 0,25$ mm $\pm 0,35$ mm	EN 427
Dimensional stability	tolerance allowed $\pm 0,4$ %	EN 434
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	≥ 75 Shore A	ISO 7619-1
Residual indentation (after static loading) without foam backing nominal thickness: < 2,5 mm > 2,5 mm	average value $\leq 0,15$ mm average value $\leq 0,20$ mm	EN 433
with foam backing	average value $\leq 0,25$ mm	
Peel resistance (with foam backing)	average value > 50 N or rupture in the foam	EN 431
Abrasion resistance	≤ 250 mm ³	ISO 4649 Method A vertical load (5 + 0,1) N
Colour fastness to artificial light ^a	6 blue wool scale ≥ 3 grey scale	EN ISO 105-B02:1999 Method 3 test conditions 6.1 a) Normal conditions for use in Europe
^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

All smooth rubber floor coverings with decorative surface layer shall be classified in accordance with the requirements for overall thickness and the ratio pattern depth/thickness loss specified in Table 2, when tested in accordance with the methods given therein.

Table 2 — Classification

Class (see EN 685)	Level of use	Rubber floor coverings without backing		Rubber floor coverings with foam backing		Effect of castor chair
		Minimum overall thickness ^a	ratio cpd ^b / tl ^c	Minimum. overall thickness ^d	ratio cpd ^b / tl ^c	
21	domestic moderate	1,8	> 1	2,5	> 1	No requirements
22	domestic general/medium	1,8	> 1	2,5	> 1	
22+	domestic general	1,8	> 1	2,5	> 1	
23	domestic heavy	2,0	> 1	3,5	> 1	
31	commercial moderate	2,0	> 1	3,5	> 1	
32	commercial general	2,0	> 1,5	3,5	> 1,5	If tested for verification, no disturbance of the surface other than slight change due to flatter appearance – no delamination shall occur
33	commercial heavy	2,0	> 1,5	3,5	> 1,5	
34	commercial very heavy	2,0	> 2	--	--	
41	light industrial moderate	2,0	> 2	--	--	
42	light industrial general	2,0	> 2	--	--	
43	light industrial heavy	2,5	> 2,5	--	--	
Test method		EN 428				EN 425
<p>^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.</p> <p>^b Conventional pattern depth tested according to EN 663.</p> <p>^c Thickness loss tested according to EN 660-1.</p> <p>^d The average overall thickness shall have a tolerance of $\pm 0,20$ mm and no individual result shall exceed 0,25 mm from the nominal.</p>						

6 Marking

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

- a) reference of this European Standard;
- b) manufacturer's of suppliers identification;
- c) product name;