SLOVENSKI STANDARD
SIST EN 649:1999

01-marec-1999

Netekstilne talne obloge - Homogene in heterogene polivinilkloridne talne obloge - Specifikacija

Resilient floor coverings - Homogeneous and heterogeneous polyvinyl chloride floor coverings - Specification

Elastische Bodenbeläge - Homogene und heterogene Polyvinylchlorid-Bodenbeläge - Spezifikation

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Revetements de sol résilients - Revetements de sol homogenes et hétérogenes a base de polychlorure de vinyle - Spécifications

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Ta slovenski standard je istoveten z: **EN 649:1996**

ICS:

97.150	Netekstilne talne obloge	Non-textile floor coverings

SIST EN 649:1999 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 649

October 1996

ICS 91.180

Descriptors: floor coverings, plastic coverings, flexible plastics, vinyl resins, specifications, characteristics, wear, classifications, graphic symbols, utilization

English version

Resilient floor coverings - Homogeneous and heterogeneous polyvinyl chloride floor coverings - Specification

Revêtements de sol résilients - Revêtements de sol homogènes et hétérogènes à base de polychlorure de vinyle - Spécifications

Elastische Bodenbeläge - Homogene und heterogene Polyvinylchlorid-Bodenbeläge - Spezifikation

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

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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of an identical text or by endorsement, at the latest by April 1997, and conflicting national standards shall be withdrawn at the latest by April 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Annex A is informative, Annex B is informative and Annex C is informative.

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1 Scope

This European Standard specifies the characteristics of homogeneous and heterogeneous floor coverings, based on polyvinyl chloride and modifications thereof, supplied in either tile or roll form.

To encourage the consumer to make an informed choice, the standard includes a classification system (see EN 685) based on intensity of use, which shows where these floor coverings should give satisfactory service. 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.

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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 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 430	Resilient floor coverings - Determination of mass per unit area
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 436	Resilient floor coverings - Determination of density
prEN 660-1	Resilient floor coverings - Determination of wear resistance - Part 1 : Stuttgart test
prEN 660-2	Resilient floor coverings - Determination of wear resistance - Part 2 : Frick-Taber test
EN 684	Resilient floor coverings - Determination of seam strength
EN 685	Resilient floor coverings - Classification
EN 20 105-B02	Textiles - Tests for colour fastness - Part BO2 :Colour fastness to artificial light : Xenon arc fading lamp test (ISO 105-B02 : 1988)

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3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 homogeneous floor covering: Floor covering with one or more layers of the same composition and colour, patterned throughout its thickness.

3.2 heterogeneous floor covering: Floor covering consisting of a wear layer and other compact layers which differ in composition and/or design and can contain a reinforcement.

3.3 polyvinyl chloride floor covering: Floor covering with surface layers which are produced using polyvinyl chloride (and modifications thereof) as binder.

4 Requirements

4.1 General requirements

Floor coverings described in this standard shall conform to the appropriate general requirements specified in table 1, when tested in accordance with the methods given therein.

4.2 Classification requirements

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4.2.1 Wear group classification

Floor coverings described in this standard shall be classified in the appropriate wear group specified in table 2, i.e. in group T, P, M or F, when tested in accordance with prEN 660 -1 or prEN 660 -2.

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> NOTE: The tests are intended to determine the wear resistance of wear layers defined either by thickness loss (prEN 660 -1) or volume loss (prEN 660 -2).

Floor coverings with a transparent wear layer are *a priori* group T and need not be tested.

4.2.2 Level of use classification

Floor coverings described in this standard shall be classified as suitable for different levels of use in accordance with the performance requirements specified in table 3, when tested with the methods given therein. Classification shall conform to the scheme established in EN 685.

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Table 1: General requirements

Characteristic	Requirement	Test method
Roll form: length m width mm	Not less than the nominal values	EN 426
Tiles: side length mm	Deviation ≤ 0,13 % of nominal length up to 0,5 mm maximum	EN 427
squareness and straightness for side length: mm ≤ 400 mm > 400 mm > 400 mm (intended for welding)	Deviation allowed at any point ≤ 0,25 ≤ 0,35 ≤ 0,50	
Overall thickness: mm average individual results	Nominal value +0,13 -0,10 Average value ±0,15	EN 428
Total mass per unit area (average) g/m^2	Nominal value +13 %. -10 %	EN 430
Density (average): kg/m^3 for homogeneous and wear layer of heterogeneous	Nominal value ± 50	EN 436
Residual indentation (average): mm	≤ 0,1	EN 433
Dimensional stability after exposure to heat: % sheets and tiles (intended for welding) tiles (intended for dry-joint laying)	≤ 0,4 ≤ 0,25	EN 434
Curling after exposure to heat: mm sheets and tiles (intended for welding) tiles (intended for dry-joint laying)	≤ 8 ≤ 2	
Flexibility:	Test using a 20 mm mandrel. For products which show signs of cracking, perform a further test using a 40 mm mandrel. If results show no further cracking, record the use of a 40 mm mandrel.	EN 435 Method A
Colour fastness to artificial light	6 minimum	EN 20 105-B02 Method 3 [1]

[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.

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Table 2: Classification requirements for wear groups

Characteristic	Requirements for wear group				Test method
	T	P	M	F	
Thickness loss Δl mm	$\Delta l \leq 0{,}08$ [1)]	$0{,}08 < \Delta l \leq 0{,}15$	$0{,}15 < \Delta l \leq 0{,}30$	$0{,}30 < \Delta l \leq 0{,}60$	prEN 660-1
volume loss F_v mm^3	$F_v \leq 2{,}0$ [1)]	$2{,}0 < F_v \leq 4{,}0$	$4{,}0 < F_v \leq 7{,}5$	$7{,}5 < F_v \leq 15{,}0$	prEN 660-2

[1)] If tested for verification.

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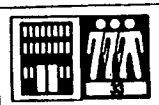
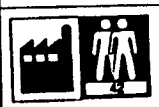
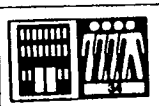
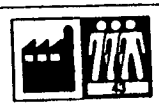
Table 3. Classification requirements for level of use

Class	Symbol	Level of use	Overall thickness [1] (homogeneous and heterogeneous) Nominal value, mm				Thickness of wear layer [2] (heterogeneous) Nominal value, mm				Effect of a castor chair [3]	Seam strength N/50 mm
			T	P	M	F	T	P	M	F		
21		domestic moderate	1,0	1,0	1,0	1,0	0,15	0,25	0,40	0,60	No requirement	No requirement
22		domestic general	1,5	1,5	1,5	1,5	0,20	0,35	0,50	0,80		
23		domestic heavy	1,5	1,5	1,5	1,5	0,30	0,45	0,65	1,00		
31		commercial moderate										When welded in accordance with the manufacturers instructions : average value ≥ 240. Individual values ≥ 180.
32		commercial general	1,5	1,5	1,5	2,0	0,40	0,55	0,80	1,20	If tested for verification, no disturbance to the surface other than slight change in appearance and no delamination shall occur	
41		light industrial moderate										
33		commercial heavy	2,0	2,0	2,0	2,0	0,55	0,70	1,00	1,50		
42		light industrial general										
34		commercial very heavy	2,0	2,0	2,0	2,5	0,70	1,00	1,50	2,00		
43		light industrial heavy										
Test method			EN 428				EN 429				EN 425	EN 684

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