
Netekstilne talne obloge - Polivinilkloridne talne obloge s hrbtiščem na osnovi plute - Specifikacija

Resilient floor coverings - Polyvinyl chloride floor coverings with cork-based backing - Specification

Elastische Bodenbeläge - Polyvinylchlorid-Bodenbeläge mit einem Rücken auf Korkbasis - Spezifikation

Revetements de sol résiliants - Revêtements de sol à base de polychlorure de vinyle avec support à base de liège - Spécifications

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ICS:

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EUROPEAN STANDARD

EN 652

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1996

ICS 91.180

Descriptors: floor coverings, plastic coverings, flexible plastics, vinyl resins, supports, cork, specifications, characteristics, wear, classifications, graphic symbol, utilization, marking

English version

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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.

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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of an identical text or by endorsement, at the latest by April 1997, and conflicting national standards shall be withdrawn at the latest by April 1997.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 floor coverings based on polyvinyl chloride and modifications thereof with a cork-based backing, 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.

EN 424	Resilient floor coverings - Determination of the effect of the simulated movement of a furniture leg
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 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 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 for colour fastness -Part B02 : Colour fastness to artificial light : Xenon arc fading lamp test (ISO 105-B02 : 1988)

3 Definitions

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

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

3.2 polyvinyl chloride floor covering with cork-based backing: Floor covering with a homogeneous or heterogeneous polyvinyl chloride surface layer over a layer of corkment or of cork with a polyvinyl chloride 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

4.2.1 Wear groups classification

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

NOTE: The test is 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 intensity of use in accordance with the performance requirements specified in table 3, when tested with the methods given therein. Classification shall comply with the scheme specified in EN 685.

Table 1: General requirements

Characteristic	Requirement	Test method
Roll form:		EN 426
length	m	Not less than the nominal values
width	mm	
Tiles:		EN 427
side length	mm	Deviation $\leq 0,13$ % of nominal length up to 0,5 mm maximum
squareness and straightness for side length	mm	Deviation allowed at any point
≤ 400 mm		$\leq 0,25$
> 400 mm		$\leq 0,35$
> 400 mm (intended for welding)		$\leq 0,50$
Overall thickness:	mm	EN 428
average		Nominal value $+0,18$ $-0,15$
individual results		Average value $\pm 0,20$
Thickness of cork-based backing	mm	EN 429
		Nominal thickness shall be stated
Total mass per unit area (average)	g/m^2	EN 430
		Nominal value $+13\%$ -10%
Density of the wear layer (average)	kg/m^3	EN 436
		Nominal value ± 50
Residual indentation after static loading (average)	mm	EN 433
		$\leq 0,40$
Dimensional stability after exposure to heat:	%	EN 434
sheets and tiles (intended for welding)		$\leq 0,4$
tiles (intended for dry-joint laying)		$\leq 0,25$
Curling after exposure to heat:	mm	EN 434
sheets and tiles (intended for welding)		≤ 8
tiles (intended for dry-joint laying)		≤ 2
Peel resistance:	N/50 mm	EN 431
average		≥ 50
individual values		≥ 40
Colour fastness to artificial light		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.		

Table 2: Classification requirements for wear groups

Characteristic	Performance requirement for wear class				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	Thickness of wear layer, Nominal value, ¹⁾ mm				Effect of castor chair	Simulated movement of a furniture leg		Seam strength when welded in accordance with manufacturer's instructions
			T	P	M	F			N/50 mm	
21		Domestic moderate	0,15	0,20	0,30	0,40	No requirement	No damage shall be visible after testing with a type 3 foot	No requirement	N/50 mm
22		Domestic general	0,20	0,30	0,45	0,60				
23		Domestic heavy	0,25	0,40	0,60	0,80	No disturbance to the surface other than slight change in appearance and no delamination shall occur.	No damage shall be visible after testing with a type 2 foot	When welded in accordance with manufacturer's instructions: no damage shall be visible to the seams, when tested with a type 0 foot	Average ≥ 240 Individual values > 180
31		Commercial moderate								
32		Commercial general	0,35	0,50	0,75	1,00	No disturbance to the surface other than slight change in appearance and no delamination shall occur.	No damage shall be visible after testing with a type 2 foot	When welded in accordance with manufacturer's instructions: no damage shall be visible to the seams, when tested with a type 0 foot	Average ≥ 240 Individual values > 180
41		Light industrial moderate								
33		Commercial heavy	0,50	0,65	1,00	1,30	No disturbance to the surface other than slight change in appearance and no delamination shall occur.	No damage shall be visible after testing with a type 2 foot	When welded in accordance with manufacturer's instructions: no damage shall be visible to the seams, when tested with a type 0 foot	Average ≥ 240 Individual values > 180
42		Light industrial general								
34		Commercial very heavy	0,65	1,00	1,50	2,00	No disturbance to the surface other than slight change in appearance and no delamination shall occur.	No damage shall be visible after testing with a type 2 foot	When welded in accordance with manufacturer's instructions: no damage shall be visible to the seams, when tested with a type 0 foot	Average ≥ 240 Individual values > 180
Test method			EN 429							