
Netekstilne talne obloge - Polivinilkloridne talne obloge na jutnem hrbtišču ali hrbtišču iz poliestrske vlaknovine ali na poliestrski vlaknovini s polivinilkloridnim hrbtiščem - Specifikacija

Resilient floor coverings - Polyvinyl chloride floor coverings on jute backing or on polyester felt backing or on polyester felt with polyvinyl chloride backing - Specification

Elastische Bodenbeläge - Bodenbeläge aus Polyvinylchlorid mit einem Rücken aus Jute oder Polyestervlies oder auf Polyestervlies mit einem Rücken aus Polyvinylchlorid - Spezifikation

Revetements de sol résilients - Revêtements de sol à base de polychlorure de vinyle sur support de jute ou de polyester avec envers en polychlorure de vinyle - Spécifications

Ta slovenski standard je istoveten z: EN 650:1996

ICS:

97.150 Netekstilne talne obloge Non-textile floor coverings

SIST EN 650:1999**en**

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EUROPEAN STANDARD

EN 650

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1996

ICS 91.180

Descriptors: floor coverings, plastic coverings, vinyl resins, supports, jute, polyester resins, felt, 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

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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of an identical text or by endorsement, at the latest by April 1997, and conflicting national standards shall be withdrawn at the latest by April 1997.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, on jute or polyester backing or on polyester felt with polyvinyl chloride 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 432	Resilient floor coverings - Determination of shear force
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 661	Resilient floor coverings - Determination of the spreading of water
EN 663	Resilient floor coverings - Determination of conventional pattern depth

EN 684	Resilient floor coverings - Determination of seam strength
EN 685	Resilient floor coverings - Classification
EN 718	Resilient floor coverings - Determination of mass per unit area of a reinforcement or a backing of polyvinyl chloride floor coverings
EN 20 105-B02	Textiles - 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 on jute backing: Floor covering consisting of a polyvinyl chloride surface layer applied to a jute felt backing.

3.2 polyvinyl chloride floor covering on polyester felt backing: Floor covering consisting of a polyvinyl chloride surface layer applied to a polyester felt backing.

3.3 polyvinyl chloride floor covering on polyester felt with polyvinyl chloride backing: Floor covering consisting of a polyvinyl chloride surface layer applied to a polyester felt with a polyvinyl chloride backing.

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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 group classification

Polyvinyl chloride floor coverings are classified in the appropriate wear group specified in table 2, when tested in accordance with prEN 660 -1 or prEN 660 -2.

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

Floor coverings described in this standard shall be classified in wear group T or P.

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 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:	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 $\pm 0,20$	
Total mass per unit area (average) g/m ²	Nominal value $+13\%$ -10%	EN 430
Mass per unit area of backing: g/m ²		EN 718
Jute backing:		
average	≥ 500	
individual results	≥ 450	
Polyester backing:		
average	≥ 300	
individual results	≥ 270	
Density of the wear layer (average) kg/m ³	Nominal value ± 50	EN 436

(continued)

Table 1 (concluded)

Characteristic	Requirement	Test method
Dimensional stability after exposure to heat: %		EN 434
Floor coverings on jute or polyester felt backing	$\leq 0,4$	
Floor coverings on polyester felt with polyvinyl chloride backing:		
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
Floor coverings on jute or polyester felt	≤ 8	
Floor coverings on polyester felt with polyvinyl chloride backing:		
sheets and tiles intended for welding	≤ 8	
tiles intended for dry-joint laying	≤ 2	
Colour fastness to artificial light	6 minimum	EN 20105-B02 Method 3 ¹⁾
Peel resistance average individual results	N/50mm ≥ 50 ≥ 40	EN 431
Shear force of backing (for jute backing only): average individual results	N ≥ 360 ≥ 280	EN 432
Spreading of water ²⁾	The time for water to spread to one edge of a test specimen shall be greater than 16 h.	EN 661
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.		
²⁾ For floor coverings, other than those on jute backing, intended for use under moist conditions.		

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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