



SLOVENSKI STANDARD

SIST EN 653:1999

01-marec-1999

Netekstilne talne obloge - Penjene polivinilkloridne talne obloge - Specifikacija

Resilient floor coverings - Expanded (cushioned) polyvinyl chloride floor coverings - Specification

Elastische Bodenbeläge - Geschäumte Polyvinylchlorid-Bodenbeläge - Spezifikation

Revetements de sol résilients - Revêtements de sol à base de polychlorure de vinyle expansé - Spécifications

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Ta slovenski standard je istoveten z: ^{SIST EN 653:1999} EN 653:1996

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ICS:

97.150

Netekstilne talne obloge

Non-textile floor coverings

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en

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EUROPEAN STANDARD

EN 653

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1996

ICS 91.180

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

English version

Resilient floor coverings - Expanded (cushioned) polyvinyl chloride floor coverings - Specification

Revêtements de sol résilients - Revêtements de
sol à base de polychlorure de vinyle expansé -
Spécifications

Elastische Bodenbeläge - Geschäumte
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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 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

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of an identical text or by endorsement, at the latest by April 1997, and conflicting national standards shall be withdrawn at the latest by April 1997.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

| | |
|---------------|---|
| 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 - Tests 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 expanded polyvinyl chloride floor covering: Floor covering with a transparent wear layer over a layer of foamed polyvinyl chloride carrying a printed pattern, which can be embossed in register with the printed pattern.

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 shall be 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 either by thickness loss (prEN 660 -1) or volume loss (prEN 660 -2).

Floor coverings described in this standard have 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.

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 | 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 | Peel strength N/50 mm |
|-------------|---|---------------------------|---|--------|--|---|---|--|-----------------------|
| | | | Wear group I | | | No damage shall be visible after testing with a type 3 foot | No requirement | | |
| 21 |  | Domestic moderate | 0,15 | | No requirement | No requirement | No requirement | No requirement | |
| 22 |  | Domestic general | 0,20 | | No requirement | No requirement | No requirement | No requirement | |
| 23 |  | Domestic heavy | 0,25 | | No requirement | No requirement | No requirement | No requirement | |
| 31 |  | Commercial moderate | | | No requirement | No requirement | No requirement | No requirement | |
| 32 |  | Commercial general | 0,35 | | 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 test | Average ≥ 50 Individual values ≥ 40 | |
| 41 |  | Light industrial moderate | | | 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 test | Average ≥ 150 Individual values ≥ 120 | |
| 42 |  | Light industrial general | 0,50 | | 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 test | Average ≥ 150 Individual values ≥ 120 | |
| Test method | | | EN 429 | EN 425 | EN 424 | EN 684 | EN 431 | | |