

SLOVENSKI STANDARD kSIST FprEN 654:2010

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Netekstilne talne obloge - Delno upogibljive polivinilkloridne plošče - Specifikacija

Resilient floor coverings - Semi-flexible polyvinyl chloride tiles - Specification

Elastische Bodenbeläge - Polyvinylchlorid-Flex-Platten - Spezifikation

Revêtements de sol résilients - Dalles semi-flexibles à base de polychlorure de vinyle - Spécifications

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

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Foreword

This document (FprEN 654:2010) has been prepared by Technical Committee CEN/TC 134 "Resilient, textile and laminate floor coverings", the secretariat of which is held by BSI.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 654:1996.

1 Scope

This European Standard specifies the characteristics of semi-flexible tiles based on polyvinyl chloride and modifications thereof.

To encourage the consumer to make an informed choice, this 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

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- EN 425, Resilient and laminate floor coverings Castor chair test
- 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 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
- EN 660-2, Resilient floor coverings Determination of wear resistance Part 2: Frick-Taber test
- EN 662, Resilient floor coverings Determination of curling on exposure to moisture
- EN 663, Resilient floor coverings Determination of conventional pattern depth
- EN 685, Resilient, textile and laminate floor coverings Classification

EN ISO 105-B02, Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:1994, including amendment 1:1998)

3 Terms and definitions

For the purposes of this document, the following terms and 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

semi-flexible polyvinyl chloride floor covering

rigid tiles made from polyvinyl chloride (and modifications thereof) which can only be deflected under specified conditions

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 — 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 2 when tested with the methods given therein. Classification shall conform to the scheme specified in EN 685.

4.3 Homogeneous products and wear layers

A homogeneous product shall retain its wear group classification throughout the thickness of the product if tested.

A wear layer shall retain its wear group classification throughout its thickness if tested.

Table 1 — General requirements

Characteristic		Requirement	Test method			
Side length of tiles mm		Deviation ≤ 0,13% of nominal length up to 0,5 mm maximum	EN 427			
squareness and straightness for side leng ≤ 400 mm > 400 mm	th: mm	Deviation allowed at any point ≤ 0,25 ≤ 0,35				
Overall thickness:	mm		EN 428			
average		Nominal value + 0,13 - 0,10				
individual results		Average value ± 0,15				
Total mass per unit area	g/m²	Nominal value + 13%	EN 430			
(average)		- 10%				
Density (average)	kg/m³	Nominal value ± 0,75	EN 436			
Products with nominal density ≥ 230 kg/m	3	Nominal value ± 0,100				
Dimensional stability after exposure to heat:	%	≤ 0,25	EN 434			
Curling on exposure to moisture	mm	≤ 0,75	EN 662			
Flexibility		Shall show no signs of cracking	EN 435			
		when deflected to a minimum of 15 mm	Method B			
Colour fastness to artificial light		6 minimum	EN ISO 105-B02			
			Method 3 ¹			
¹ Expose a full size of test specimen. Store a further test specimen in the dark, which will constitute the						

¹ Expose a full size of 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	Requirements fo	Test method						
	Т	Р	М	F				
volume loss <i>Fv</i> mm³	Fv ≤ 2,0 ¹	2,0 < Fv ≤ 4,0	4,0 < Fv ≤ 7,5	7,5 < <i>F</i> v ≤ 15,0	EN 660-2			
¹ If tested for verification								