



SLOVENSKI STANDARD
oSIST prEN 17396:2019
01-junij-2019

Netekstilne talne obloge - Kremenove vinilne ploščice - Specifikacija

Resilient floor coverings - Quartz vinyl tiles - Specification

Elastische Bodenbeläge - Quarzvinylplatten - Spezifikation

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ICS:

97.150 Talne obloge Floor coverings

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English Version

Resilient floor coverings - Quartz vinyl tiles - Specification

Elastische Bodenbeläge - Quartzvinylplatten -
Spezifikation

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 134.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 17396:2019) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor covering”, the secretariat of which is held by NBN.

This document is currently submitted to the CEN Enquiry.

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prEN 17396:2019 (E)**1 Scope**

This document specifies the characteristics of homogeneous quartz vinyl tiles based on polyvinyl chloride binder, quartz sand as a sole or partial filler and supplied in tile form. Products may contain a transparent, non-PVC factory finish.

To encourage the consumer to make an informed choice, this document includes a classification system (see EN ISO 10874) based on intensity of use, which shows where these floor coverings will give satisfactory service. It also specifies requirements for marking.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 ISO 105-B02:2014, *Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:2014)*

EN ISO 10874, *Resilient, textile and laminate floor coverings - Classification (ISO 10874)*

EN ISO 23997, *Resilient floor coverings - Determination of mass per unit area (ISO 23997)*

EN ISO 23999, *Resilient floor coverings - Determination of dimensional stability and curling after exposure to heat (ISO 23999)*

EN ISO 24342, *Resilient and textile floor-coverings - Determination of side length, edge straightness and squareness of tiles (ISO 24342)*

EN ISO 24343-1, *Resilient and laminate floor coverings - Determination of indentation and residual indentation - Part 1: Residual indentation (ISO 24343-1)*

EN ISO 24344:2012, *Resilient floor coverings - Determination of flexibility and deflection (ISO 24344:2008)*

EN ISO 24346, *Resilient floor coverings - Determination of overall thickness (ISO 24346)*

ISO 4918, *Resilient, textile and laminate floor coverings - Castor chair test*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1**polyvinyl chloride floor covering**

resilient floor covering produced using poly(vinyl chloride) as a binder

Note 1 to entry: The binder shall consist of one or more resins of poly(vinyl chloride) and/or copolymers of vinyl chloride compounded with suitable plasticizers and stabilizers. Other suitable polymeric resins may be incorporated as part of the binder.

3.2

quartz vinyl tile

resilient floor covering composed of a poly(vinyl chloride) binder, quartz sand as a sole or partial filler, other fillers and pigments, where minimum 50 % of the filler system is quartz sand

3.3

homogeneous quartz vinyl tile

quartz vinyl tile with one or more layers of the same composition and color throughout its thickness

Note 1 to entry: Tiles can be unicolor or patterned.

3.4

binder content

portion of the flooring composition, consisting of poly(vinyl chloride) resin, plasticizers and stabilizers

Note 1 to entry: Binder content is expressed as a percentage mass fraction of the total composition.

3.5

factory finish

transparent coating applied during the manufacture, usually not thicker than 0,03 mm

4 Requirements

4.1 Binder content

The minimum binder content shall be ≥ 30 %.

4.2 General requirements

Floor tiles described in this document shall conform to the appropriate general requirements specified in Table 2 when tested in accordance with the methods given therein. Appropriate methods to test optional properties (e.g. electrical resistance, electrical propensity, effect of stains, and reaction to fire) are given in Annex A.

Table 2 — General requirements

Characteristic/Property	Requirement	Test method
Overall thickness Average mm individual results mm	Nominal value + 0,13 - 0,10 Average value \pm 0,15	EN ISO 24346
Side length, squareness and straightness side length mm squareness and straightness for side length mm \leq 400 mm \geq 400 mm	Deviation \leq 0,13 % of nominal length up to 0,5 mm maximum Deviation allowed at any point \leq 0,25 \leq 0,35	EN ISO 24342
Mass per unit area Average g/m ²	Nominal value +13 % -10 %	EN ISO 23997
Dimensional stability after exposure to heat ^a %	\leq 0,25	EN ISO 23999
Flexibility \varnothing 80 mm mandrel	no cracking	EN ISO 24344:2012, Method A
Indentation Residual indentation (average) mm	\leq 0,1	EN ISO 24343-1
Effect of castor	After 25 000 cycles, no delamination shall occur. No disturbance to the surface other than slight change in appearance	ISO 4918
Colour fastness to artificial light	6 minimum	EN ISO 105-B02:2014, Method 3 ^b
^a Tiles are intended for dry-joint laying and glued installation. ^b Expose a full size test specimen. Store a further test specimen in the dark, which will constitute the reference standard for assessment of colour changes.		

5 Classification

The classification scheme for resilient floor coverings is described in EN ISO 10874. The requirements for use of quartz vinyl tile in accordance with this scheme are specified in Table 3.

Table 3 — Classification requirement for level of use

Class	Symbol	Intensity of use	Overall thickness, nominal value mm
			<i>All types</i>
21		Domestic Moderate/Light	1,0
22		General/Medium	1,5
22+		General	1,5
23		Heavy	1,5
31		Commercial Moderate	1,5
32		General	1,5
33		Heavy	2,0
34		Very heavy	2,0
41		Light industrial Moderate	1,5
42		General	2,0
43		Heavy	2,0
Test method			EN ISO 24346

prEN 17396:2019 (E)**6 Marking, labelling and packaging**

Floor coverings covered by this document and/or their packaging shall bear the following marking:

- a) number and date of this document, i.e. prEN 17396;
- b) manufacturer or suppliers identification;
- c) product name;
- d) colour/pattern and batch number;
- e) classes/symbols appropriate for the product;
- f) the dimensions of a tile and the area, in square metres, contained in the package.

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