
Netekstilne talne obloge - Kremenove vinilne ploščice - Specifikacija

Resilient floor coverings - Quartz vinyl tiles - Specification

Elastische Bodenbeläge - Quartzvinylplatten - Spezifikation

Revêtements de sol résilients - Dalles en quartz-vinyle - Spécifications

Ta slovenski standard je istoveten z: EN 17396:2020[SIST EN 17396:2020](https://standards.iteh.ai/catalog/standards/sist/b31f13a5-6252-47f3-8cb6-27fd9cc4363b/sist-en-17396-2020)<https://standards.iteh.ai/catalog/standards/sist/b31f13a5-6252-47f3-8cb6-27fd9cc4363b/sist-en-17396-2020>**ICS:**

97.150

Talne obloge

Floor coverings

SIST EN 17396:2020**en,fr,de**

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EUROPEAN STANDARD
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EN 17396

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English Version

Resilient floor coverings - Quartz vinyl tiles - Specification

Revêtements de sol résilients - Dalles en quartz-vinyle
- Spécifications

Elastische Bodenbeläge - Quartzvinylplatten -
Spezifikation

This European Standard was approved by CEN on 3 May 2020.

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

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Contents	Page
European foreword	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions	4
4 Requirements.....	5
5 Classification.....	6
6 Marking, labelling and packaging.....	9
Annex A (informative) Optional properties	10
Bibliography	11

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European foreword

This document (EN 17396:2020) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor covering”, the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by December 2020, and conflicting national standards shall be withdrawn at the latest by December 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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EN 17396:2020 (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, with or without a transparent, non-PVC factory finish and supplied in tile form.

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 colour 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 $\geq 30\%$.

4.2 General requirements

Floor tiles described in this document shall conform to the appropriate general requirements specified in Table 1 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.




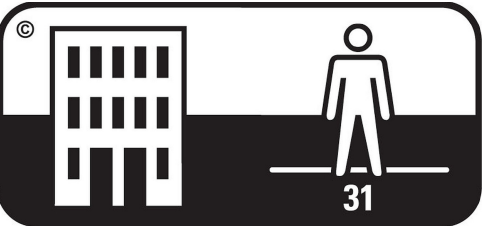

Table 1 — General requirements

Characteristic/Property	Requirement	Test method
Overall thickness:		EN ISO 24346
– average mm	Nominal value + 0,13 – 0,10	
– individual results mm	Average value ± 0,15	
Side length, squareness and straightness:		EN ISO 24342
– side length mm	Deviation ≤ 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:	≤ 0,25	
≥ 400 mm:	≤ 0,35	
Mass per unit area in g/m ² (average)	Nominal value + 13 % – 10 %	EN ISO 23997
Dimensional stability after exposure to heat ^a	≤ 0,25 %	EN ISO 23999
Flexibility Test using a Ø 80 mm mandrel:	no cracking	EN ISO 24344:2012, Method A
Indentation: residual indentation (average) mm	≤ 0,1 mm	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	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 2.

Table 2 — Classification requirement for level of use

Class	Symbol	Intensity of use	Overall thickness, nominal value mm <i>All types</i>
Test method			EN ISO 24346
Domestic			
21		Moderate/Light	1,0
22		General/Medium	1,5
23		Heavy	1,5
Commercial			
31		Moderate	1,5
32		General	1,5