
**Resilient floor coverings —
Semi-flexible/vinylcomposition (VCT)
poly(vinyl chloride) floor tiles —
Specification**

*Revêtements de sol résilients — Carreaux semi-flexibles/vinyle (VCT)
en poly(chlorure de vinyle) — Spécifications*

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 10595 was prepared by Technical Committee ISO/TC 219, *Floor coverings*.

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Resilient floor coverings — Semi-flexible/vinyl composition (VCT) poly(vinyl chloride) floor tiles — Specification

1 Scope

This International Standard specifies the characteristics of semi-flexible/vinyl composition floor tiles based on poly(vinyl chloride) (PVC) binder and supplied in tile form. Products may contain a transparent, non-PVC factory finish.

To encourage the consumer to make an informed choice, this International Standard includes a classification system (see ISO 10874) based on the intensity of use, which shows where these floor coverings 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.

ISO 10874, *Resilient, textile and laminate floor coverings — Classification*

ISO 24340, *Resilient floor coverings — Determination of thickness of layers*

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

ISO 24343-3, *Resilient and laminate floor coverings — Determination of indentation and residual indentation — Part 3: Resilient semi-flexible/vinyl composition tiles: Indentation*

ISO 24344:2008, *Resilient floor coverings — Determination of flexibility and deflection*

ISO 24346, *Resilient floor coverings — Determination of overall thickness*

ISO 23999, *Resilient floor coverings — Determination of dimensional stability and curling after exposure to heat*

ASTM F1265, *Standard Test Method for Resistance to Impact for Resilient Floor Tile*

3 Terms and definitions

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

3.1

poly(vinyl chloride) floor coverings

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

3.2 semi-flexible floor tiles

rigid tiles made from poly(vinyl chloride) which can only be deflected under specified conditions

3.3 vinyl composition tile

resilient floor covering composed of a poly(vinyl chloride) binder, filler and pigments

NOTE 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.

3.4 solid-colour tile

tile with a uniform single colour throughout its entire thickness

3.5 through-pattern tile

tile where either the pattern and colours on the surface of the tile extend entirely through the thickness of the tile without significant change, or the colours appearing on the surface extend throughout the entire thickness of the tile, although the appearance of the pattern created by these colours will change throughout the thickness

3.6 surface-pattern tile

tile where the decoration or pattern need not extend throughout the entire thickness

NOTE The combination of pattern and wear surface must exceed 0,1 mm or as otherwise specified in Table 3.

3.7 factory finish

transparent coating applied during the manufacture

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4 Requirements

4.1 Identification requirements

Floor tiles described in this International Standard shall be non-asbestos formulated and identified by construction as shown in Table 1.

Table 1 — Identification by construction

Type	Construction
I	Solid colour
II	Through pattern
III	Surface pattern

4.2 General requirements

Floor tiles described in this International Standard shall conform to the appropriate general requirements specified in Table 2 when tested in accordance with the methods given therein.

Table 2 — General requirements

Characteristic/Property	Requirement	Test method
Overall thickness mm	Nominal value $\pm 0,13$	ISO 24346
Tiles: side length mm squareness and straightness mm for side length ≤ 305 mm > 305 mm	Deviation $\leq 0,13$ % of nominal length up to 0,4 mm maximum Deviation allowed at any point $\leq 0,25$ $\leq 0,35$	ISO 24342
Dimensional stability after exposure to heat %	$\leq 0,20$	ISO 23999
Impact $\leq 2,5$ mm thick 4 drops from 250 mm $> 2,5$ mm thick 4 drops from 500 mm	No cracks beyond limit	ASTM F1265
Flexibility mm	≥ 25	ISO 24344:2008, Method B
Indentation resistance mm Indentation, I_R at $25 \text{ }^\circ\text{C} \pm 0,25 \text{ }^\circ\text{C}$	$0,15 < I_R \leq 0,40$	ISO 24343-3

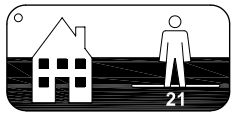
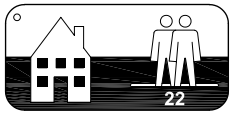
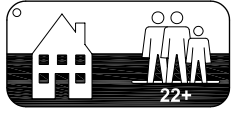
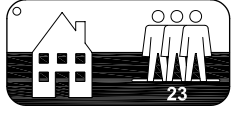



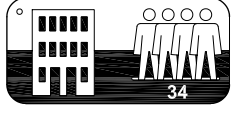
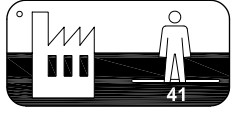
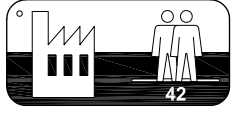
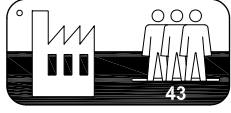
5 Classification

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The classification scheme for resilient floor coverings is described in ISO 10874. The requirements for use of semi-flexible/vinyl composition poly(vinyl chloride) floor tile in accordance with this scheme are specified in Table 3.

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Table 3 — Classification requirement for level of use

Class	Symbol	Intensity of use	Overall thickness Minimum nominal value, mm	Thickness of wear layer Minimum nominal value, mm
			All types	Applies to Type III only
21		Domestic Moderate/Light	1,5	0,1
22		General/Medium	2,0	0,1
22+		General	2,0	0,1
23		Heavy	2,0	0,25
31		Commercial Moderate	2,0	0,25
32		General	2,5	0,5
33		Heavy	3,0	0,5
34		Very heavy	3,0	0,5
41		Light industrial Moderate	3,0	0,5
42		General	3,0	Not available
43		Heavy	3,0	Not available
Test method			ISO 24346	ISO 24340

6 Marking

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

- a) number and date of this International Standard, i.e. ISO 10595:2010;
- b) manufacturer's or supplier's 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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