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Resilient floor coverings - Specification for floor panels for loose laying

Elastische Bodenbeläge - Spezifikation für Fußbodenpaneele für lose Verlegung

Revêtements de sol résilients - Spécification des panneaux de plancher pour pose flottante

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Resilient floor coverings - Specification for floor panels for loose laying

Revêtements de sol résilients - Spécification des panneaux de plancher pour pose flottante

Elastische Bodenbeläge - Spezifikation für Fußbodenpaneele für lose Verlegung

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 14085:2010) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor coverings”, the secretariat of which is held by BSI.

This 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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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

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EN 14085:2010 (E)**1 Scope**

This European Standard specifies requirements and test methods for floor panels, which have surface layers consisting of resilient floor covering. The floor panels are considered suitable for domestic and commercial levels of use.

This European Standard is not applicable to floor panels that are subject to frequent wetting, such as bathrooms, laundry rooms and saunas.

This European Standard also specifies the requirements for marking and packaging.

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 309:2005, *Particleboards – Definition and classification*

EN 316:2009, *Wood fibre boards – Definition, classification and symbols*

EN 424, *Resilient floor coverings – Determination of the effect of simulated movement of a furniture leg*

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 548, *Resilient floor coverings – Specification for plain and decorative linoleum*

EN 649, *Resilient floor coverings – Homogeneous and heterogeneous polyvinyl chloride floor coverings – Specification*

EN 651, *Resilient floor coverings — Polyvinyl chloride floor coverings with foam layer – Specification*

EN 652, *Resilient floor coverings – Polyvinyl chloride floor coverings with cork-based backing – Specification*

EN 653, *Resilient floor coverings – Expanded (cushioned) polyvinyl chloride floor coverings – Specification*

EN 655, *Resilient floor coverings – Tiles of agglomerated composition cork with polyvinyl chloride wear layer – Specification*

EN 669:1997, *Resilient floor coverings – Determination of dimensional stability of linoleum tiles caused by changes in atmospheric humidity*

EN 685, *Resilient, textile and laminate floor coverings - Classification*

EN 1817, *Resilient floor coverings – Specification for homogeneous and heterogeneous smooth rubber floor coverings*

EN 12104, *Resilient floor coverings – Cork floor tiles – Specification*

EN 12199, *Resilient floor coverings – Specifications for homogeneous and heterogeneous relief rubber floor coverings*

EN 12466:1998, *Resilient floor coverings – Vocabulary*

EN 13845, *Resilient floor coverings – Polyvinyl chloride floor coverings with particle based enhanced slip resistance – Specification*

EN 14565, *Resilient floor coverings – Floor coverings based upon synthetic thermoplastic polymers – Specification*

ISO 24336, *Laminate floor coverings – Determination of thickness swelling after partial immersion in water*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 309:2005, EN 316:2009, EN 12466:1998 and the following apply.

3.1

floor panel

product generally of rectangular form consisting of a compact layer of a substrate and a surface layer of a resilient floor covering

3.2

substrate

core material of the floor panel, which is tongued and grooved or otherwise constructed to allow the panels to be assembled together using an appropriate glue or by other assembling techniques.

NOTE 1 The substrate might include a backing.

NOTE 2 The substrate is generally a particleboard, as defined in EN 309, or a Medium Density Fibreboard or High Density Fibreboard (MDF or HDF) as defined in EN 316.

3.3

surface layer

upper decorative layer of one of the specified resilient floor coverings, which is bonded to the substrate directly or as total product and is intended to be the visible side when the floor is installed.

4 Requirements

4.1 General requirements for the floor panels

All classes of floor panels including the surface layer shall conform to the requirements specified in Table 1 when tested in accordance with the test methods specified in Table 1.

Table 1 — General requirements for the floor panels

Property	Requirement	Test method
Dimensions measured at the surface layer Square panels Side length % Rectangular panels Width % Length mm	Maximum deviation from the nominal $\pm 0,10$, with max. 0,5 mm $\pm 0,10$, with max. 0,5 mm max. 2,0	EN 427 ^a
Overall thickness Average mm Individual values mm	Nominal $\pm 0,25$ Maximum deviation from the average $\pm 0,30$	EN 428
Squareness mm	$\leq 0,50$	EN 427
Straightness measured at the surface layer mm	$\leq 0,30$	EN 427
Flatness of the panel Length Concave / convex % of the length Width Concave / convex % of the width	$\leq 0,50 / \leq 1,0$ $\leq 0,10 / \leq 0,15$	Annex A
Openings between panels Average mm Individual values mm	$\leq 0,15$ $\leq 0,20$	Annex B
Height difference between panels ^b Average mm Individual values mm	$\leq 0,15$ $\leq 0,20$	Annex B
Dimensional variation caused by changes in atmospheric humidity %	≤ 5	Annex C / EN 669

^a For length > 0,5 m a metal ruler may be used.
^b Only to be tested when required for the assembling system.

4.2 Resilient floor coverings

The surface layer shall comply with the relevant standards below:

- linoleum floor covering as defined in EN 548;
- rubber floor covering as defined in EN 1817 and EN 12199;
- polyvinyl chloride floor covering as defined in EN 649, EN 651, EN 652, EN 653 and EN 655;
- cork floor covering as defined in EN 12104;
- synthetic thermoplastic polymer floor covering as defined in EN 14565;
- polyvinyl chloride floor coverings with particle based enhanced slip resistance as defined in EN 13845.

4.3 General requirements for the surface layer

4.3.1 General

All classes of floor panels with a resilient surface shall conform to the appropriate general requirements as specified below.

4.3.2 Residual indentation

The residual indentation shall be in accordance with the requirements established in the corresponding specification standard as listed in 3.3 taking into account the surface or wear layer thickness classes in that same standard in relation to Table 2.

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4.3.3 Colour fastness to artificial light

The colour fastness to artificial light shall be in accordance with the requirements for the surface or wear layer established in the corresponding specification standard as listed in 3.3.

4.3.4 Hardness of rubber surface

The hardness of a surface consisting of rubber floor covering as specified in EN 1817 shall be in accordance with the requirement in that same standard.









4.4 Classification requirements

4.4.1 General

The floor panels shall be classified in accordance with EN 685. The panels shall conform to the requirements of Table 2 for their class, regardless of the type of surface layer that they have.

NOTE The requirements for each class are related to the effect of a furniture leg and castor chair and the thickness swelling after partial immersion in water.

Table 2 — Classification requirements for floor panels

Class	Symbol	Intensity of use	Effect of a furniture leg ^a	Effect of a castor chair	Thickness swelling floor panel
		Domestic			
21		Moderate/Light	No Requirement	No Requirement	≤ 20 %
22		General/Medium			
22+		General			
23		Heavy			
		Commercial			
31		Moderate	No damage shall be visible when tested with foot type 0	No disturbance to the surface other than slight change in appearance and no delaminating shall occur	≤ 18 %
32		General			
33 ^b		Heavy			≤ 15 %
34 ^b		Very Heavy			
Test method			EN 424	EN 425	ISO 24336
^a For panels with a Cork surface the requirements for the furniture leg in EN 12104 shall be considered. ^b Panels with a cork surface are not suitable for use in this class; see also Table 3.					

4.4.2 Classification requirements for the surface layer

4.4.2.1 General

The surface layer shall be classified in accordance with EN 685.

NOTE The classification depends on the type of floor covering used

4.4.2.2 Linoleum surface layer

Floor panels with a linoleum surface layer shall conform to the classification requirements of the surface layer thickness as specified in EN 548.

4.4.2.3 Rubber surface layer

Floor panels with a rubber surface layer shall conform to the classification requirements of the surface layer thickness as specified in EN 1817 and EN 12199.

4.4.2.4 Polyvinyl Chloride surface layer

Floor panels with a polyvinyl chloride surface layer shall conform to the classification requirements of the wear layer thickness in combination with the corresponding wear group as specified in EN 649; EN 651; EN 652; EN 653 and EN 655.

4.4.2.5 Polyvinyl chloride with enhanced slip properties surface layer

Floor panels with a polyvinyl chloride with enhanced slip properties surface layer shall conform to the classification requirements of the nominal thickness in combination with the corresponding wear resistance as specified in EN 13845.

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4.4.2.6 Synthetic thermoplastic polymer surface layer

Floor panels with a synthetic thermoplastic polymer surface layer shall conform to the classification requirements as specified in EN 14565.

4.4.2.7 Cork surface layer

Floor panels with a cork surface layer shall conform to the classification requirements as specified in EN 12104 and the nominal thickness shall be as specified in Table 3.

Table 3 — Nominal thickness for cork surfaces

Class	Nominal thickness
21, 22 and 23	≥ 2,5 mm
31 and 32	≥ 3,0 mm

5 Marking and packaging

5.1 Marking

Floor panels manufactured and conforming to this specification shall show the following information clearly on a label on or in the package:

- number and date of this European Standard, i.e. EN 14085:2010;