

Resilient floor coverings — Floor coverings based upon synthetic thermoplastic polymers — Specification

The European Standard EN 14565:2004 has the status of a
British Standard

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National foreword

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Summary of pages

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Resilient floor coverings - Floor coverings based upon synthetic thermoplastic polymers - Specification

Revêtements de sol résilients - Revêtements de sol à base de polymères thermoplastiques synthétiques - Spécification

Elastische Bodenbeläge - Bodenbeläge auf Basis synthetischer Thermoplaste - Spezifikation

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Foreword

This document (EN 14565:2004) has been prepared by Technical Committee CEN/TC 134 “Resilients, 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of an identical text or by endorsement, at the latest by December 2004, and conflicting national standards shall be withdrawn at the latest by December 2004.

The annexes A, B and C are normative. The annexes D and E are informative.

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1 Scope

This European Standard specifies the characteristics for resilient floor coverings based upon synthetic thermoplastic polymers, supplied either in roll or tile form.

This specification does not apply to floor coverings specified in the series EN 649 to EN 654.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 425, *Resilient and laminate floor coverings – Castor chair test.*

EN 426, *Resilient floor coverings – Determination of width, length, straightness and flatness of sheet material.*

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 431, *Resilient floor coverings – Determination of peel resistance.*

EN 433, *Resilient floor coverings – Determination of residual indentation after static loading.*

EN 434, *Resilient floor coverings – Determination of dimensional stability and curling after exposure to heat.*

EN 435, *Resilient floor coverings – Determination of flexibility.*

EN 684, *Resilient floor coverings – Determination of seam strength.*

EN 685, *Resilient, textile and laminate floor coverings – Classification.*

EN 1269, *Textile floor coverings – Assessment of impregnations in needled floor coverings by means of a soiling test.*

EN 1372, *Adhesives – Test method for adhesives for floor and wall coverings – Peel test.*

EN 1373, *Adhesives – Test method for adhesives for floor and wall coverings – Shear test.*

EN 1471, *Textile floor coverings – Assessment of changes in appearance.*

EN 1903, *Adhesives – Test method for adhesives for plastic or rubber floor coverings or wall coverings – Determination of dimensional changes after accelerated ageing.*

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

EN 20105-A02, *Textiles – Tests for colour fastness – Part A02: Grey scale for assessing change in colour (ISO 105-A02:1993)*.

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)*.

EN ISO 291, *Plastics – Standard atmospheres for conditioning and testing (ISO 291:1997)*.

ISO 10361, *Textile floor coverings – Production of changes in appearance by means of Vettermann drum and hexapod tumbler testers*.

ISO 11378-1, *Textile floor coverings – Laboratory soiling tests – Part 1: Kappasoil test*.

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions in EN 12466:1998 and the following apply.

3.1

product with backing

floor covering consisting of a homogeneous or heterogeneous surface layer and a backing of any material different from the surface layer

NOTE Typical backing materials are cork, foams and jute.

3.2

scratch

permanent surface damage of visible physical nature

4 Requirements

4.1 General requirements

Floor coverings described in this standard shall comply with the appropriate general requirements specified in Table 1, when tested in accordance with the methods given therein.

Table 1 — Requirements

Characteristic	Requirement		Test method
	For product without backing	For product with backing	
Roll form - Length m - Width mm	not less than the nominal value		EN 426
Tiles Side length mm Squareness and straightness	deviation $\pm 0,13$ % of nominal length up to 0,5 mm maximum		EN 427

Characteristic	Requirement		Test method
	For product without backing	For product with backing	
for side length mm - ≤ 400 mm - > 400 mm - > 400 mm (intended for welding)	deviation at any point ≤ 0,25 ≤ 0,35 ≤ 0,50		
Overall thickness mm - average ^a - individual results	nominal value + 0,13 - 0,10 average value ^b ± 0,15	nominal value + 0,18 - 0,15 average value ^b ± 0,20	EN 428
Thickness of wear layer mm - average ^a - individual results	nominal value + 13 % - 10 % average value ^b ± 0,15	nominal value + 18 % - 15 % average value ^b ± 0,20	EN 429
Total mass per unit area g/m ² (average)	nominal value + 13 % - 10 %		EN 430
Residual indentation mm Recovery after indentation %	≤ 0,10	≥ 80	EN 433 EN 433 ^c
Dimensional stability after exposure to heat Expansion/Shrinkage %	≤ 0,20		Annex C
Curling under exposure to heat Rolls and tiles (intended for welding) mm Tiles (intended for dry joint laying) mm	≤ 8 ≤ 2		EN 434 (6 h, 50 °C)