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Textile floor coverings - Classification of textile floor coverings without pile

Textile Bodenbeläge - Einstufung textiler Bodenbeläge ohne Pol

Revetements de sol textiles - Classification des revetements de sol textiles plats, tissés, tricotés ou aiguilletés sans velours

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English Version

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revêtements de sol textiles plats, tissés, tricotés ou
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ohne Pol

This European Standard was approved by CEN on 14 August 2006.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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

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Foreword

This document (EN 15114:2006) 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of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope

This European Standard specifies the requirements for the classification of textile floor coverings without pile into use classes in respect of wear and appearance retention, and classes for luxury rating. This standard is applicable to all textile floor coverings without pile that are not covered in other standards, including EN 1307, EN 1470 and EN 13297.

This standard refers to the classification as defined in EN 685.

This standard is also applicable to tiles, the additional requirements for which are given in Annex A.

This standard is not applicable to rugs.

The symbols for the use classes, luxury rating classes and additional characteristics are listed in CEN/TS 15398 and can also be found on www.floorsymbols.com.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 685	<i>Resilient, textile and laminate floor coverings — Classification</i>
EN 985:2001	<i>Textile floor coverings — Castor chair test</i>
EN 986:2005	<i>Textile floor coverings — Tiles — Determination of dimensional changes due to the effects of varied water and heat conditions, and distortion out of plane</i>
EN 994	<i>Textile floor coverings — Determination of the side length, squareness and straightness of tiles</i>
EN 995	<i>Textile floor coverings — Assessment of the creep of backings</i>
EN 1269	<i>Textile floor coverings - Assessment of impregnations in needled floorcoverings by means of a soiling test</i>
EN 1307:2005	<i>Textile floor coverings — Classification of pile carpet</i>
EN 1318	<i>Textile floor coverings — Determination of the apparent effective thickness of the backing</i>
EN 1471	<i>Textile floor coverings — Assessment of changes in appearance</i>
EN 1814	<i>Textile floor coverings — Determination of resistance to damage at cut edges using the modified Vettermann drum test</i>
EN 1963:1997	<i>Textile floor coverings — Tests using the Lisson Tretrad Machine</i>
EN 14041	<i>Resilient, textile and laminate floor coverings — Essential characteristics</i>
CEN/TS 14159	<i>Textile floor coverings - Requirements for tolerances on (linear) dimensions of rugs, runners, carpet tiles and wall-to-wall carpet and for tolerances on pattern repeat</i>
prEN 15115	<i>Textile floor coverings - Determination of sensitivity to spilled water</i>
CEN/TS 15398	<i>Resilient, textile and laminate floor coverings - Floor covering standard symbols</i>
EN ISO 105 A01	<i>Textiles - Tests for colour fastness — Part A01: General principles of testing (ISO 105-A01:1994)</i>
EN ISO 105-B02	<i>Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:1994, including Amendment 1:1998)</i>

EN ISO 105-E01	<i>Textiles. Tests for colour fastness — Part E01: Colour fastness to water. (ISO 105-E01:1994)</i>
EN ISO 105-X12	<i>Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO 105-X12:2001)</i>
EN ISO 140-8	<i>Acoustics — Measurement of sound insulation in buildings and of building elements — Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor (ISO 140-8: 1997)</i>
EN ISO 354	<i>Acoustics — Measurement of sound absorption in a reverberation room (ISO 354: 2003)</i>
EN ISO 717-2	<i>Acoustics — Rating of sound insulation in buildings and building elements — Part 2: Impact sound insulation (ISO 717-2: 1996)</i>
EN ISO 11378-2:2001	<i>Textile floor coverings— Laboratory soiling tests—Part 2:Drum test (ISO 11378-2: 2001)</i>
ISO 1765	<i>Machine-made textile floor coverings — Determination of thickness</i>
ISO 2424:1992	<i>Textile floor coverings — Vocabulary</i>
ISO 2551	<i>Machine-made textile floor coverings — Determination of dimensional changes due to the effects of varied water and heat conditions</i>
ISO 6356	<i>Textile floor coverings — Assessment of static electrical propensity — Walking test</i>
ISO 8302	<i>Thermal insulation — Determination of steady-state thermal resistance and related properties — Guarded hot plate apparatus</i>
ISO 8543	<i>Textile floor coverings — Methods for determination of mass</i>
ISO 10361	<i>Textile floor coverings — Production of changes in appearance by means of Vettermann drum and hexapod tumbler testers</i>
ISO 10965	<i>Textile floor coverings — Determination of electrical resistance</i>

3 Identification requirements

This clause specifies the characteristics for identifying the product and tolerance requirements for the identifying properties.

The manufacturer shall provide the following information in accordance with the definitions in ISO 2424:1992:

- commercial references;
- type of installation (loose laid, adhered, ...);
- type of backing;
- type of manufacture

and shall declare values of the characteristics in Table 1.

Table 1 — Characteristic values

Characteristics	Test methods	Tolerances
Fibre composition of use surface	^a	
Dimensions	CEN/TS 14159	CEN/TS 14159
Total thickness mm	ISO 1765	nominal +/- 10 %
Total mass per unit area g/m ²	ISO 8543	nominal mass +/- 10 %
Apparent thickness of foam backing (if applicable)	EN 1318	nominal +/- 0,5 mm

^a Attention is drawn to the European Directives 96/73 and 96/74, which cover the fibre composition and are reflected in the national regulations.

4 Basic requirements

4.1 General

Textile floor coverings without pile shall conform to the basic requirements specified in Table 2.

Table 2 — Basic requirements

Characteristic	Requirement	Test method
Colour fastness to Light ^a		EN ISO 105 B02
- General	≥ 5	
- Pastel shade ^b	≥ 4	
Rubbing		EN ISO 105 X12
- Wet	≥ 3	
- Dry	≥ 3 - 4	
Water (change in colour)		EN ISO 105 E01
- Plain carpets	≥ 3 - 4	
- Other carpets	≥ 4	
Water (staining)		
- All carpets	≥ 2 - 3 ^c	
Hairiness (pilling) ^e	≥ 2,5	EN 1963:1997 – Test D Assess against photoscale after 200 cycles
Colour change ^d		
- due to spilled water	≥ 4	prEN 15115 & Annex B
- due to subsequent soiling	≥ 3	
Dimensional stability ^f	Shrinkage ≤ 1,2 % in each direction Extension ≤ 0,5 % in each direction	ISO 2551

^a Conformity to be declared by the manufacturer for each colour.
^b Pastel shade: colour corresponding to a standard depth ≤ 1/12 (in accordance with EN ISO 105 A01).
^c On multifibre: worst result.
^d Conformity to be declared by the manufacturer.
^e Tested production-wise and cross-wise, worst result decisive.
^f Not applicable to tiles (see Annex A), not applicable for permanently bonded textile floor coverings.

4.2 Levels of use & classification

4.2.1 General

Textile floor coverings without pile are classified as to their suitability for use according to different circumstances (see Table 3). The two classification properties, wear and change in appearance, are intended to indicate suitability according to use intensity (level of classes 21 to 33 in increasing order of use intensity).

The symbols for the use classes, luxury rating classes and additional characteristics are listed in CEN/TS 15398 and can also be found on www.floorsymbols.com

The level of use class allocated to a floor covering is the lower of the classes obtained after application of 4.2.2, 4.2.3 and 4.2.4.

Table 3 — Levels of use

Use intensity	
Domestic	
21	Moderate / light
22	General / medium
22+	General
23	Heavy
Commercial ^a	
31	Moderate
32	General
33	Heavy
^a Class 33 should be used as the basis to which additional requirements are added to provide an individual full specification.	

The symbols for the use classes and examples of use as stated in EN 685 are listed in CEN/TS 15398.

4.2.2 Classification for change in appearance

Carpets shall be tested in accordance with ISO 10361 in either the Hexapod or the Vettermann apparatus using the number of cycles for short and long term tests specified in Table 4. The tested specimens shall be assessed in accordance with EN 1471 and the median grade for overall change in appearance shall conform to the requirements specified in Table 4.

Table 4 — Classification Requirements

Class	Requirements	
	Short term	Long term
Domestic	5 000 cycles Vetterman or 4 000 cycles Hexapod	22 000 cycles Vetterman or 12 000 cycles Hexapod
	Median grade	Median grade
	21	2
22	2,5	2
22+	3	2,5
23	3,5	3
Commercial		
31	3	2,5
32	3,5	3
33	4	3,5

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4.2.3 Classification for wear

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The requirements are specified in Table 5.

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Table 5 — Classification for wear

Use class	EN 1963:1997 Test method A Carpets < 80 % Wool m_v (g/m ²)	EN 1963:1997 Test method A Carpets ≥ 80 % Wool m_v (g/m ²)
Domestic		
21	≤ 175	≤ 225
22	≤ 150	≤ 200
22+	≤ 75	≤ 130
23	≤ 50	≤ 75
Commercial		
31	≤ 75	≤ 130
32	≤ 50	≤ 75
33	≤ 30	≤ 30

4.2.4 General structural integrity

The requirements are specified in Table 6.

Table 6 — General structural integrity

Use Class	Requirement	Test method
Domestic		
21 22 22+	no damage (such as delamination of secondary backing)	EN 985:2001 method C: 10 000 revs
23	no damage (such as delamination of secondary backing)	EN 985:2001 method C: 25 000 revs
Commercial		
31	no damage (such as delamination of secondary backing)	EN 985:2001 method C: 10 000 revs
32 33	no damage (such as delamination of secondary backing)	EN 985:2001 method C: 25 000 revs

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5 Additional characteristics

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Additional claims may be made. Such claims shall be based on the characteristics and corresponding requirements in Table 7.

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