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SIST EN 15114:2007+A1:2008

Tekstilne talne obloge - Razvrščanje

Textile floor coverings - Classification

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Textile Bodenbeläge - Einstufung

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Revêtements de sol textile - Classement d'usage

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59.080.60

Tekstilne talne obloge

Textile floor coverings

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EUROPEAN STANDARD
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May 2014

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English Version

Textile floor coverings - Classification

Revêtements de sol textile - Classement d'usage

Textile Bodenbeläge - Einstufung

This European Standard was approved by CEN on 13 March 2014.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

	Page
Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Description of levels of use	8
5 Identification requirements.....	8
6 Basic requirements	9
7 Level of use classification	11
8 Classification of Pile Carpets	11
9 Classification for flat needed floor coverings	12
9.1 General.....	12
9.2 Abrasion resistance – Lisson test - Mass loss per unit area (m_v).....	12
9.3 General structural integrity.....	12
9.4 Change in colour.....	13
10 Classification for needed floor coverings with pile	13
10.1 General.....	13
10.2 Abrasion resistance – Lisson test - Mass loss per unit area (m_v)	13
10.3 Hairiness (pilling) - Lisson test for needed floor coverings with pile	14
10.3.1 Type B1 products.....	14
10.3.2 Type B 2 and type B 3 products.....	14
10.4 General structural integrity.....	14
10.5 Change in appearance	14
11 Classification of textile floor coverings without pile, except needed	15
11.1 General.....	15
11.2 Abrasion resistance – Lisson test - Mass loss per unit area (m_v)	15
11.3 General structural integrity.....	15
11.4 Change in appearance	15
12 Classification for flocked carpets	16
12.1 Abrasion resistance	16
12.2 Classification on change in appearance	16
13 Luxury rating requirements	17
14 Additional Performance Properties	17
15 Report	18
16 Symbols	18
Annex A (normative) Requirements for carpet tiles.....	19
Annex B (normative) Summary of test report.....	20
B.1 General.....	20
B.2 List of references to Annex B.....	21
B.2.1 Ref 1 Type of manufacture.....	21
B.2.2 Ref 2 Type of surface (combinations are possible)	21
B.2.3 Ref 3 Type of primary backing (combinations are possible)	21
B.2.4 Ref 4 Type of additional backings (combinations are possible)	22
B.2.5 Ref 5 Type of colouring/patterning	22
Annex C (normative) Criteria for the assessment of stair suitability	23
C.1 Pile carpets.....	23
C.2 Flat needed floor covering	25
C.3 Pile needed floor covering.....	26
C.4 Carpets without pile: assessment of stair suitability.....	27
Annex D (informative) Impact sound insulation	28
Annex E (normative) Determination of work of compression of underlay	29
Annex F (normative) Flocked floor coverings – Blade test.....	30
F.1 Principle of test.....	30

F.2	Apparatus	30
F.3	Preparation of test specimens	31
F.4	Test procedure.....	31
F.5	Assessment of Results	31
F.6	Test Report.....	31
Annex G	(normative) Flocked floor coverings – Water Impermeability Test	32
G.1	Principle of test.....	32
G.2	Equipment	32
G.3	Conditioning and preparation of test specimens	32
G.4	Test procedure.....	32
G.5	Assessment of results	32
G.6	Test report.....	32
	Bibliography.....	34

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[SIST EN 1307:2014](https://standards.iteh.ai/catalog/standards/sist/c4516ce2-d3c5-4efa-925e-fb5ac3bd6af4/sist-en-1307-2014)

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EN 1307:2014 (E)**Foreword**

This document (EN 1307:2014) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor coverings”, 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 November 2014 and conflicting national standards shall be withdrawn at the latest by November 2014.

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.

This document supersedes EN 1307:2008, EN 1470:2008, EN 13297:2007 and EN 15114:2006+A1:2008.

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

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1 Scope

This European Standard specifies the requirements for classification of all textile floor coverings and carpet tiles, excluding rugs and runners (see ISO 2424) into use classes with regard to one or more of the following properties: wear, appearance retention, additional performance properties and classes for luxury rating.

This European Standard refers to the classification as defined in EN ISO 10874.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 984, *Textile floor coverings - Determination of the mass per unit area of the use surface of needled floor coverings*

EN 985: 2001, *Textile floor coverings - Castor chair test*

EN 986, *Textile floor coverings - Tiles - Determination of dimensional changes due to the effects of varied water and heat conditions and distortion out of plane*

EN 994, *Textile floor coverings - Determination of the side length, squareness and straightness of tiles*

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

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

EN 1814, *Textile floor coverings - Determination of resistance to damage at cut edges using the modified Vettermann drum test*

EN 1963:2007, *Textile floor coverings - Tests using the Lisson Tretrad Machine*

CEN/TS 15398, *Resilient, textile and laminate floor coverings - Floor covering standard symbols*

EN ISO 105-B02, *Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02)*

EN ISO 105-E01, *Textiles - Tests for colour fastness - Part E01: Colour fastness to water (ISO 105-E01)*

EN ISO 105-X12, *Textiles - Tests for colour fastness - Part X12: Color fastness to rubbing (ISO 105-X12)*

EN ISO 354, *Acoustics - Measurement of sound absorption in a reverberation room (ISO 354)*

EN ISO 10140-3, *Acoustics - Laboratory measurement of sound insulation of building elements - Part 3: Measurement of impact sound insulation (ISO 10140-3)*

EN ISO 24345, *Resilient floor coverings - Determination of peel resistance (ISO 24345)*

ISO 1763, *Carpets - Determination of number of tufts and/or loops per unit length and per unit area*

ISO 1765, *Machine-made textile floor coverings - Determination of thickness*

ISO 1766, *Textile floor coverings - Determination of thickness of pile above the substrate*

ISO 2424:2007, *Textile floor coverings - Vocabulary*

EN 1307:2014 (E)

ISO 2551, *Machine-made textile floor coverings - Determination of dimensional changes due to the effects of varied water and heat conditions*

ISO 4919, *Carpets - Determination of tuft withdrawal force*

ISO 6356, *Textile and laminate floor coverings - Assessment of static electrical propensity - Walking test*

ISO 8302, *Thermal insulation - Determination of steady-state thermal resistance and related properties - Guarded hot plate apparatus*

ISO 8543, *Textile floor coverings - Methods for determination of mass*

ISO 10361, *Textile floor coverings - Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester*

ISO 10965, *Textile floor coverings - Determination of electrical resistance*

ISO/PAS 11856:2003, *Textile floor coverings - Test methods for the determination of fibre bind*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 2424:2007 and the following apply.

3.1

non-adhered tile (loose laid tile)
tile installed without any use of a bonding system

Note 1 to entry: See Annex A.

3.2

adhered removable tile
tile installed with a bonding system allowing easy removal and reinstallation

Note 1 to entry: See Annex A.

3.3

permanently adhered tile
tile installed with a permanent bonding system

Note 1 to entry: See Annex A.

3.4

nominal value
value stated by the manufacturer

3.5

flat needed floor coverings types
floor coverings divided into the following three types:

- a) Type A1: one visible layer (homogeneous product);
- b) Type A2: more than one visible layer, the bonding compound of which does not reach the top of the use surface;
- c) Type A3: more than one visible layer, the bonding compound of which is present throughout its thickness

Note 1 to entry: Layers such as secondary backing are also taken into consideration for the determination of the number of layers.

3.6**pile needed floor coverings types**

floor coverings divided into the following three types:

a) Type B1:

- 1) needed textile floor covering with pile in which the use-surface is composed of entangled fibres bonded together by a mechanical and a chemical process;
- 2) the mechanical bonding system is a consolidation of a batt of fibres through entanglement by multiple penetrations of barbed needles in one or more (visible) layers;
- 3) needles are used for structuring this pre-needed felting material;
- 4) the use surface is either a geometric or linear design, a velours or a rib pattern;

b) Type B2:

- 1) needed textile floor covering with pile in which the use-surface is composed of entangled fibres bonded together by a mechanical and a chemical process;
- 2) the mechanical bonding system is a consolidation of a batt of fibres through entanglement by multiple penetrations of barbed needles in one or more (visible) layers;
- 3) mechanically brushing machines are being used for structuring this pre-needed felting material, resulting in a roughened surface with relatively long and coarse protruding fibres;
- 4) the bonding system is applied to the back;

c) Type B3:

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- 1) needed textile floor covering with pile in which the use-surface is composed of fibre spheres bonded together by a mechanical and a chemical process;
 - 2) the chemical bonding system is incorporated in the backing

EN 1307:2014 (E)

4 Description of levels of use

Textile floor coverings shall be classified as suitable for different levels of use in accordance with the performance requirements specified in Clause 7.

The different levels of use shall be as described in Table 1.

Table 1 — Levels of use intensity

Domestic use	
21	Moderate
22	General
23	Heavy
Commercial use	
31	Moderate
32	General
33	Heavy

If symbols are used for the use classes, luxury rating classes and additional characteristics, the symbols listed in CEN/TS 15398 shall be used.

NOTE These symbols can also be found at www.floorsymbols.com

5 Identification requirements

The following information shall be provided in accordance with the definitions in ISO 2424 and or in accordance with the list of references in Annex B:

- commercial references;
- composition of the use surface;
- type of manufacture (see Annex B ref 1);
- type of surface (see Annex B ref 2);
- type of primary backing (see Annex B ref 3) (if applicable);
- type of secondary backing (see Annex B ref 4) (if applicable);
- type of colouring/patterning (see Annex B ref 5);
- type of category of needled floor covering (see 3.5 and 3.6) (if applicable).

The producer shall also declare the values of the characteristics listed in Table 2.

Table 2 — Characteristics

Characteristic	Test method	Tolerances (to nominal value)	Applicable for (X means applicable)				
			Carpets with pile	Carpets without pile	Flat Needled	Pile Needled	Flocked
Total thickness (in mm)	ISO 1765	+ 15 % / -10 %	X	X	X	X	X
Total mass per unit area (in g/m ²)	ISO 8543	±15 %	X	X	X	X	X
Effective pile thickness / Thickness of pile above substrate (SPT) (in mm)	ISO 1766	+ 15 % / -10 %	X			Type A2, B1, B2	
Effective pile mass / Mass of pile above substrate per unit area (SPW) (in g/m ²)	ISO 8543 EN 984 ^a	+ 15 % / -10 %	X			Type A2, B1, B2	
Surface pile density (SPD) (in g/cm ³)	ISO 8543		X			Type A2, B1, B2	
Number of tufts or loops (per dm ²)	ISO 1763	+ 10 % / -7,5 %	X				

^a EN 984 applicable for needled floor coverings categories A2, B1 and B2.

NOTE EU Regulation 1007/2011 and associated national regulations address fibre composition.

6 Basic requirements

Textile floor coverings shall conform to the basic requirements specified in Table 3.

Table 3 — Basic requirements

Characteristic	Test method	Requirements	Applicable for (X means required)				
			Carpets with pile	Carpets without pile	Flat Needed	Pile Needed	Flocked
Colour fastness to light ^{a,b}	EN ISO 105-B02		X	X	X	X	X
- <i>Man-made fibres</i>		≥ 5					
- <i>Natural fibres</i>		≥ 4					
Colour fastness to rubbing ^{a,b}	EN ISO 105-X12		X	X	X	X	X
- <i>Wet</i>		≥ 3					
- <i>Dry</i>		≥ 3-4					
Colour fastness to water (change in colour) ^{a,b}	EN ISO 105-E01		X	X	X	X	X
- <i>Plain carpets</i>		≥ 3-4					
- <i>Other carpets</i>		≥ 4					
Colour fastness to water (staining) ^{a,b}			X	X	X	X	X
- <i>All carpets</i>		≥ 2-3					
Fibre bind < 80 % natural fibres	SIST EN 1307:2014 https://standards.iteh.ai/catalog/standards/sist/c4516ce2-d3c5-4efa-925e-fb5ac31d6af1/sist-en-1307-2014						
- <i>Loop pile carpets</i>	EN 1963:2007 test C	Fuzzing below level of reference photographs	X				
- <i>Cut pile carpets</i>	EN 1963 test A (Number of cycles defined by calibration)	Loss of mass < 25 %	X				X
Fibre bind ≥ 80 % natural fibres	ISO/PAS 11856:2003, at 30.000 rubs	Weight loss < 0,0035 mg per rub and/or < 250 mg at 10 000 rubs	X				
Dimensional stability ^c	ISO 2551	Shrinkage ≤ 1,2 % Extension ≤ 0,5 %		X	X	X	X
Assessment of impregnation	EN 1269	≥ 2-3			X		
Hairiness/pilling	EN 1963 test D 200 cycles	≥ 2,5		X	X		
Peel resistance	EN ISO 24345	≥ 40 N per 50 mm					X
Water impermeability	Annex G	pass					X
^a Conformity to be declared by manufacturer for each colour. ^b In case of blends, the predominant fibre is leading. In case of 50/50 blends, the most stringent criterion is valid. ^c At the final stage due to the effects of varied heat and water conditions, only applicable if loose laid.							