



**SLOVENSKI STANDARD**  
**SIST-TS CEN/TS 14159:2007**

**01-julij-2007**

**BUXca Yý U**  
**SIST-TS CEN/TS 14159:2005**

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d`c`b`c`j` `^`j` c`g`h`j` n`c`f`W`U`

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

**iTeh STANDARD PREVIEW**

Textile Bodenbeläge - Anforderungen an Toleranzen der (linearen) Maße von abgepassten Teppichen, Läufern, Teppichfliesen und Teppich-Auslegware und des Musterrapports

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Revetements de sol textiles - Exigences concernant les tolérances sur les dimensions (linéaires) des tapis, passages, dalles de moquette et moquettes et les tolérances sur le raccord de dessin

**Ta slovenski standard je istoveten z: CEN/TS 14159:2007**

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**ICS:**

59.080.60      Tekstilne talne obloge      Textile floor coverings

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English Version

**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**

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This Technical Specification (CEN/TS) was approved by CEN on 2 February 2007 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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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## Foreword

This document (CEN/TS 14159:2007) has been prepared by Technical Committee CEN/TC 134 "Resilient, textile and laminate floor coverings", the secretariat of which is held by BSI.

This document supersedes CEN/TS 14159:2004.

The only change from the original document is the correction to Table 1, row 3, column 3 as follows:

"nominal + 1,0 % / - 0 %" has been changed to read "nominal + 1,0 % / - 1,0 %" (2 times).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this CEN Technical Specification: Austria, Belgium, Bulgaria, 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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## Introduction

Owing to influences of the production process on the structure, textile floor coverings may show variations in size and distortion. However, in many cases, certain discrepancies can be worked away through professional and careful installation. By open communication between manufacturer and installer, an agreement can be found between what is technically possible in manufacturing, and at the same time technically workable during installation.

The maximum distortions in pattern repeat specified in this Technical Specification are applicable only to carpets with certain design styles ex-factory.

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## 1 Scope

This Technical Specification specifies the maximum accepted tolerances on the dimensions and distortions in pattern, of rugs, runners, carpet tiles and wall-to-wall carpet.

NOTE These tolerances do not affect the functional characteristics of the floor covering.

## 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 2424:2007, *Textile floor coverings — Vocabulary*

ISO 3018, *Textile floor coverings — Rectangular textile floor coverings — Determination of dimensions*

## 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

#### **arc** (carpet roll)

arc of the carpet roll itself in the production direction when unrolled (Figure 5)

### 3.2

#### **linear pattern distortion** (in direction of production)

displacements of the pattern widthways so that alignment of repeated design features in the production direction are not parallel with the edge of the carpet (Figure 3)

### 3.3

#### **bowing** (at right angles to direction of production)

displacement of the pattern alignment across the width of the carpet so that repeated design features are displaced from a line at right angles to the direction of production. This displacement is usually at its greatest extent in the centre of the carpet width (Figure 2)

### 3.4

#### **length** (rugs)

linear dimension of the longest side

### 3.5

#### **length** (carpet roll)

linear dimension parallel to the direction of production

### 3.6

#### **pattern repeat**

smallest part of the pattern that contains all its characteristics

### 3.7

#### **skewness**

situation in which lines drawn through repeated design features both parallel to and perpendicular to the production direction are not at right angles to each other (Figure 4)

**3.8**

**width** (rugs)

linear dimension of the shortest side

**3.9**

**width** (carpet rolls)

linear dimension at right angles to the production direction

**4 Apparatus**

**4.1 Length measuring device capable of measuring to an accuracy of**

For dimensions < 1,0 m - 1 mm.

For dimensions > 1,0 m and < 5,0 m - 5 mm.

For dimensions ≥ 5,0 m - 10 mm.

**4.2 Dividers**

**4.3 A device capable of describing a datum line across the width of the carpet at 90° to the edge of the carpet.**

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**5 Procedure**

**5.1 Measurement of dimensions**

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Lay the rug or carpet roll out flat, use surface uppermost and using the length measuring device (4.1) and dividers (4.2), if appropriate, measure the length, ( $l_x$ ) and width, ( $l_y$ ), in accordance with ISO 3018.

**5.2 Measurement of pattern distortion**

**5.2.1 General**

Each of the following measurements can be made either on the face, (tufted carpet) or back, (woven carpet) of the unrolled carpet.

**5.2.2 Distortion in pattern repeat**

Measure the distortion in pattern repeat length as the distance between a line drawn across the carpet at the maximum extent of the pattern ( $l_1$ ), and an equivalent line drawn across the carpet at the minimum extent of the corresponding pattern ( $l_2$ ). (See Figure 1 as an example of measurement of the distortion in pattern repeat length). Measure the maximum deviation to the appropriate accuracy (see 4.1) over  $n$  pattern repeats and over a length of at least 1 m.

The distortion (mm) is given by ( $l_2 - l_1$ ).

The measurements should be repeated in a number of positions throughout the carpet and all results quoted.



### 5.2.3 Bowing

Using the device described in 4.3, draw a line perpendicular to the machine direction edge of the carpet and measure the maximum deflection ( $a_q$ ) as shown in Figure 2, to the appropriate accuracy (see 4.1), using the length measuring device (4.1) and dividers (4.2). The line should be drawn perpendicular to the edge at a convenient reference point, i.e. one particular part of the pattern repeat that can be traced across the width of the carpet.

The measurements should be repeated in a number of positions throughout the carpet and all results quoted.

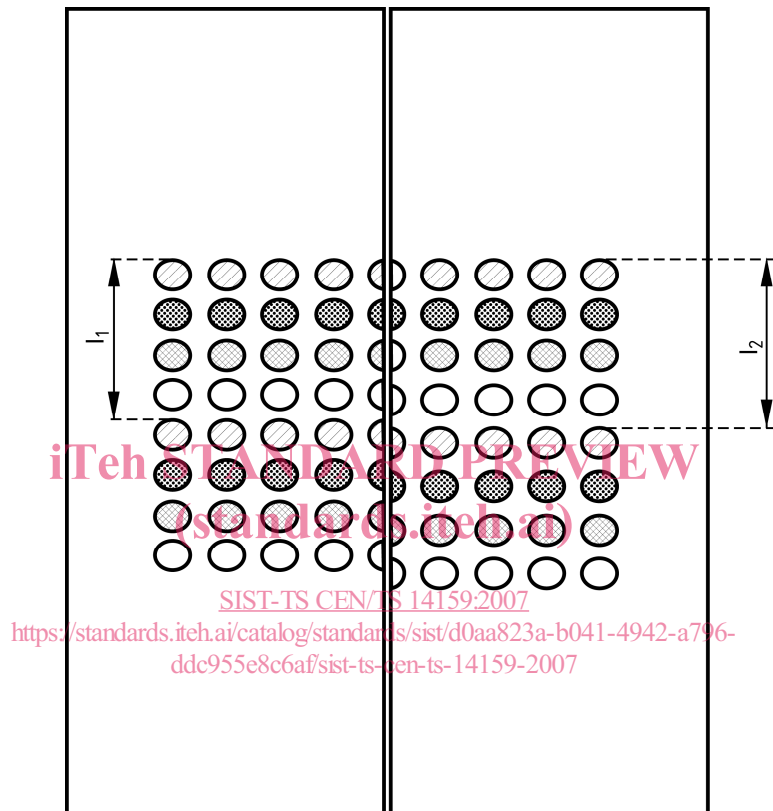


Figure 1 — Pattern repeat