



# SLOVENSKI STANDARD

## SIST EN 435:1999

01-marec-1999

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### Netekstilne talne obloge - Ugotavljanje upogibnosti

Resilient floor coverings - Determination of flexibility

Elastische Bodenbeläge - Bestimmung der Biegsamkeit

Revetements de sol résilients - Détermination de la flexibilité

Ta slovenski standard je istoveten z: EN 435:1994

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#### **ICS:**

97.150      Netekstilne talne obloge      Non-textile floor coverings

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EUROPEAN STANDARD

EN 435

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1994

UDC 698.7:692.535.6:645.13:620.174.22

Descriptors: Floor coverings, textile floor coverings, tests, determination, flexibility

English version

**Resilient floor coverings - Determination of flexibility**

Revêtements de sol résilients - Détermination de la flexibilité

Elastische Bodenbeläge - Bestimmung der Biegsamkeit

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**CEN**European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

## Foreword

This European Standard was prepared by the Technical Committee CEN/TC 134 "Resilient and textile floorcoverings" of which the secretariat is held by BSI.

This document was submitted to the formal vote and approved.

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of an identical text or by endorsement, at the latest by February 1995, and conflicting national standards shall be withdrawn at the latest by February 1995.

In accordance with the CEN/CENELEC Internal Regulations, following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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## 1 Scope

This European Standard specifies two methods for determining the ability of a resilient floor covering to sustain a flexing.

## 2 Definitions

For the purposes of this standard the following definition apply.

Flexibility: The ability of a resilient floor covering to be bent.

## 3 Sampling and preparation of test pieces

Take a representative sample from the available material.

Take six test pieces, at equal distances from the sample, the distance between the outer edge of the sample and the nearest edge of the test piece being at least 100 mm, each measuring (250 to 300) mm x 50 mm from a sample, three in the direction of manufacture and three in the transverse direction.

If necessary, place the sample in an oven at 30 °C for 15 min before cutting the test pieces. Ensure that the edges of the test pieces are clean-cut, without notches.

## 4 Method A

### 4.1 Principle

The test piece is bent through 180° around a mandrel under specified conditions.

### 4.2 Apparatus

**4.2.1 Fixed metal mandrels** with nominal diameters 100 mm, 80 mm, 70 mm, 60 mm, 55 mm, 45 mm, 40 mm, 35 mm, 30 mm, 25 mm, 20 mm, 15 mm, 10 mm.

### 4.3 Conditioning

Condition the test pieces and mandrels at a temperature of  $(23 \pm 2)$  °C and relative humidity of  $(50 \pm 5)$  % for a minimum of 24 h.

Maintain these conditions when carrying out the test.

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#### 4.4 Procedure

Take the mandrel specified for the product. With the surface layer outwards, bend the test piece by hand around the mandrel through an arc of 180° within 5 s. Note when any superficial damage occurs in the surface. Ignore any effects within 10 mm from the edges of the test pieces.

#### 4.5 Expression of results

Report the results of the tests as cracking or no cracking.

### 5 Method B

#### 5.1 Principle

The test piece is deformed with a cylinder with a radius of curvature much greater than the test piece thickness by a force centred between two fixed supports.

#### 5.2 Apparatus

**5.2.1 A test piece stand**, comprising two metal cylinders, of minimum diameter 30 mm and minimum length 55 mm, with a distance of  $(150 \pm 5)$  mm between the two axes of the cylinders.

**5.2.2 A third, identical parallel cylinder**, which can be displaced in the vertical plane of symmetry of the stand at a speed of  $(100 \pm 5)$  mm/min.

**5.2.3 A water bath**, capable of being maintained at  $(25 \pm 0,5)$  °C.

#### 5.3 Procedure

Store the test piece in the water bath for a minimum of 3 h.

Remove the test piece from the water bath and place it on the stand. Bring the third cylinder into contact with the test piece and continue to move it at 100 mm/min over  $15 \pm 1$  mm, recording any rupturing that occurs.

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#### 5.4 Expression of results

Report the results of the test as cracking or no cracking.

## 6 Test report

The test report shall contain the following information:

- a) a reference to this standard and the method used, i.e. EN 435, Method A or B;
- b) a complete identification of the product tested, including type, source, colour and manufacturer's reference numbers;
- c) previous history of the sample;
- d) for method A, the appearance of cracking, etc, after testing with the specified product mandrel, together with the diameter of the mandrel used;
- e) for method B, whether or not cracking has occurred;
- f) any deviation from this standard which may have affected the results.

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