



SLOVENSKI STANDARD
SIST EN 431:1999

01-marec-1999

Netekstilne talne obloge - Ugotavljanje odpornosti proti luščenju

Resilient floor coverings - Determination of peel resistance

Elastische Bodenbeläge - Bestimmung des Trennwiderstandes

Revetements de sol résilients - Détermination de la résistance au pelage

Ta slovenski standard je istoveten z: EN 431:1994

[SIST EN 431:1999](https://standards.iteh.ai/catalog/standards/sist/39702d44-c821-4366-b85e-dd375a675bd2/sist-en-431-1999)

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ICS:

97.150 Netekstilne talne obloge Non-textile floor coverings

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EUROPEAN STANDARD

EN 431

NORME EUROPÉENNE

EUROPÄISCHE NORM

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UDC 698.7:692.535.6:645.13:620.172

Descriptors: Floor coverings, textile floor coverings, peel tests, adhesive strength

English version

**Resilient floor coverings - Determination of peel
resistance**Revêtements de sol résilients - Détermination
de la résistance au pelageElastische Bodenbeläge - Bestimmung des
Trennwiderstandes**ITeH STANDARD PREVIEW**
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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENEuropean 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of an identical text or by endorsement, at the latest by February 1995, and conflicting national standards shall be withdrawn at the latest by February 1995.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 a method for determining the resistance against separation of two layers of a resilient floor covering by peeling.

2 Definition

For the purposes of this standard, the following definition applies.

peel resistance: The force applied to the width of one layer of a resilient floor covering which separates it from the other layers.

3 Principle

The force required to separate layers of a resilient floor covering by peeling is measured.

4 Apparatus

A tensile testing machine with suitable load cell and a recording device.

5 Sampling and preparation of test pieces

Take a representative sample from the available material.

Take six test pieces of 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, of minimum length 150 mm and width (50 ± 1) mm, three cut in the machine direction and three cut in the transverse direction.

Effect the initial separation of the two layers over a sufficient length to permit the test piece to be fixed in the jaws of the tensile testing machine.

If a solvent is used for initial separation, remove it by storing the test piece in a ventilated oven at 60° for 2 h, followed by normal conditioning as described in clause 6.

6 Conditioning

Condition the test pieces at a temperature of $(23 \pm 2)^\circ\text{C}$ and relative humidity of $(50 \pm 5)\%$ for a minimum of 24 h.

Maintain these conditions when carrying out the test.

Page 4
EN 431 :1994

7 Procedure

Place the test piece in the jaws (which are approximately 50 mm apart) of the tensile testing machine so that tension is applied evenly over the width. Set the machine and its recording device in operation such that the speed of separation is (100 ± 5) mm/min. Record the separation force which continues beyond the initial separation.

If the layers cannot be separated, record this and do not conduct the test.

8 Calculation and expression of results

Ignore the first and last quarter of the full length of the graph for each test piece.

Spread a screen as shown in figure 1 over the graph, and take the forces at the crosspoints as values in newtons.

Calculate the mean value of the peel resistance for each test piece to the nearest 5 N. Also calculate the mean value of peel resistance for each direction from the measurements taken and express the result to the nearest 5 N in newtons per 50 millimetres.

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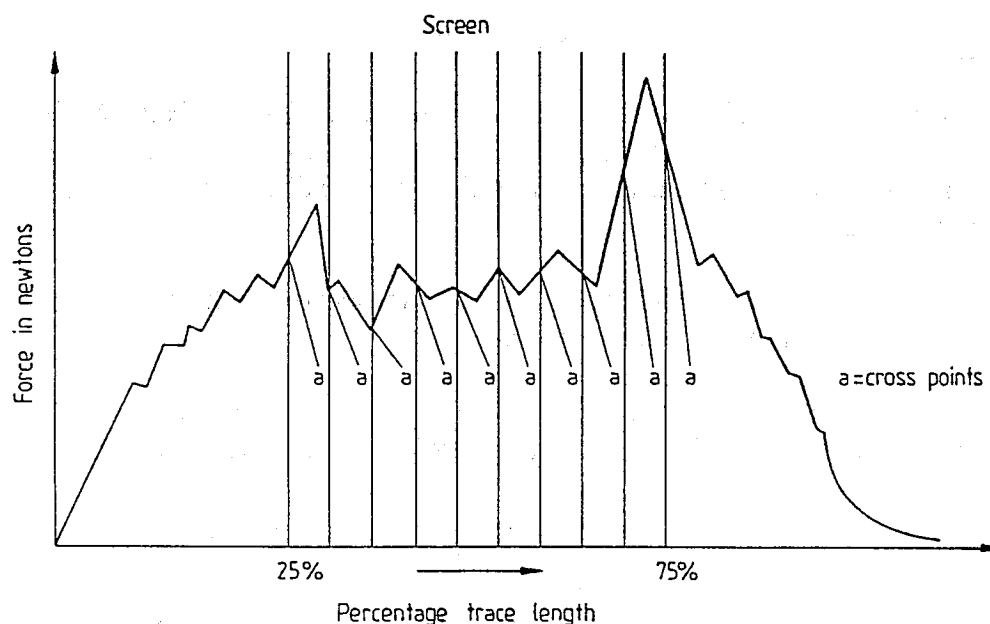


Figure 1: Schematic diagram of a typical trace

9 Test report

The test report shall contain the following information:

- a) reference to this standard, i.e. EN 431;
- b) complete identification of the product tested, including type, source, colour and manufacturer's reference numbers;
- c) previous history of the sample;
- d) if the layers can be separated:
 - 1) the mean value of peel resistance for each direction;
 - 2) the minimum values for each direction;
- e) the manner in which the test pieces failed if normal delamination did not occur;
- f) any deviation from this standard which may have affected the results.

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