



SLOVENSKI STANDARD
SIST EN 12956:2000

01-december-2000

Wallcoverings in roll form - Determination of dimensions, straightness, spongeability and washability

Wallcoverings in roll form - Determination of dimensions, straightness, spongeability and washability

Wandbekleidungen in Rollen - Bestimmung der Maße, Geradheit, Wasserbeständigkeit und Abwaschbarkeit

Revetements muraux en rouleaux - Détermination des dimensions, de la rectitude, de l'épongeabilité et de la lavabilité

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Ta slovenski standard je istoveten z: EN 12956:1999

ICS:

91.180 P[dæ læ æ |b } æ^|æ Interior finishing

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12956

May 1999

ICS 91.180

English version

Wallcoverings in roll form - Determination of dimensions, straightness, spongeability and washability

Revêtements muraux en rouleaux - Détermination des
dimensions, de la rectitude, de l'épongeabilité et de la
lavabilité

Wandbekleidungen in Rollen - Bestimmung der Maße,
Geradheit, Wasserbeständigkeit und Abwaschbarkeit

This European Standard was approved by CEN on 18 April 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. 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.

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.

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

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

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 99 " Wallcoverings", 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 november 1999, and conflicting national standards shall be withdrawn at the latest by november 1999.

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

This European Standard will supersede the annexes of European Standard EN 233:1989. The final edition of EN 233 will contain only specifications.

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ANNEXE A
COMPLÉMENT
à l'annexe B de l'EN 233:1989
à la date de publication



1 Scope

This standard specifies :

- a method for measuring dimensions;
- a method for verifying straightness;
- a method for assessing spongeability and washability.

It is applicable to all wallcoverings in roll form, except cork wallcoverings.

2 Normative references

This standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 233	Wallcoverings in roll form - Specifications for finished wallpapers, wall vinyls and plastics wallcoverings
EN 235	Wallcoverings - Vocabulary and symbols
prEN 259-1	Wallcoverings in roll form - Heavy duty wallcoverings - Part 1: Specifications
ISO 187	Paper, board and pulps - Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples
ISO 565	Test sieves - Metal wire cloth, perforated metal plate and electroformed sheet - Nominal sizes of openings
ISO 1923	Cellular plastics and rubbers - Determination of linear dimensions
ISO 2439	Flexible cellular polymeric materials - Determination of hardness (indentation technique)

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3 Definitions

For the purposes of this European Standard, the definitions from EN 235 apply.

4 Method of measuring dimensions

4.1 Apparatus

4.1.1 Width

4.1.1.1 Suitable steel rule calibrated in millimetres accurate to $\pm 0,5$ mm or any other equivalent precision device:

4.1.1.2 Rectangular template $(32 \pm 0,5)$ mm \times $(300 \pm 0,5)$ mm for category 3 wallcoverings in accordance with EN 233.

4.1.2 Length

Suitable tape calibrated in centimetres accurate to $\pm 0,5$ cm per 20 m or any other equivalent precision device.

4.2 Preparation

Samples shall be conditioned in accordance with ISO 187.

Measurements shall be made on each roll selected for sampling in accordance with the wallcovering requirements, in particular the normative annexes of EN 233 and prEN 259-1.

NOTE: The measurement of very large rolls of heavy duty wallcoverings may be difficult to perform under the conditions of ISO 187 but should be undertaken as soon as practicable after such conditioning.

4.3 Procedures

4.3.1 Width

For the wallcoverings of category 1 and 2 defined in EN 233 and for other wallcoverings in roll form, measure the width perpendicular to the length of the roll at at least three points on the roll which are at least 1 m apart. State the width as the arithmetic mean of these measurements to the nearest millimetre.

For friezes (in accordance with category 3 defined in EN 233), place the template (see 4.1.1) on the frieze and try to inscribe it entirely within the latter. If this is possible, the width of the frieze shall be considered to be not less than 32 mm, if not the width shall be considered to be less than 32 mm.

4.3.2 Length

Measure the length on one side of the roll after ensuring that the roll ends are cut at right angles. State the length to the nearest centimetre.

5 Method of verifying straightness

5.1 Apparatus

5.1.1 Steel rule, at least 1 m long with a straightness accuracy of at least 0,04 mm over a length of 1 m.

5.1.2 Shim, 1 mm thick accurate to 0,1 mm.

5.2 Test pieces

From the sample, take a test piece 2,50 m long.

5.3 Procedure

Lay out the test piece over a flat surface. Make three marks 1 m apart on one edge of the test piece. Line up the rule with two of the marks. Check whether the distance between the edge of the test piece and the rule is greater than the thickness of the shim by sliding it along the rule. Repeat the operation with the third mark.

If the two measurements give a distance of less than the thickness of the shim, record the result as: distance less than 1 mm.

Otherwise, record the result as: distance greater than 1 mm.

6 Method of assessing spongeability and washability

6.1 Principle

Secure a test piece taken from the wallcovering to a horizontal surface and, after applying a reagent, rub it mechanically. Then examine the test piece for damage.

6.2 Reagents

6.2.1 Spongeability

- distilled or deionized water at the ambient temperature of the laboratory.

6.2.2 Washability or extra-washability

- Solution of soft soap in distilled or deionized water with a mass fraction of 2 % at the ambient temperature of the laboratory.

The soap shall be made by the reaction of potassium or sodium hydroxide with a vegetable oil or oils or with fatty acids derived from them yielding not less than 44 % of fatty acids. The soap shall be jelly-like in texture.

6.2.3 Scrubbability

- abrasive paste comprising 75 % by mass of a white aluminium oxide abrasive powder with particle size as given in table 1¹⁾ and 25 % of soap solution (6.2.2).

Table 1 - Particle sizing	
Nominal aperture size of sieve, μm (in accordance with ISO 565)	Percentage retained (by mass)
125	nil
90	0 to 15
63	≥ 40
53	≥ 65

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6.3 Apparatus

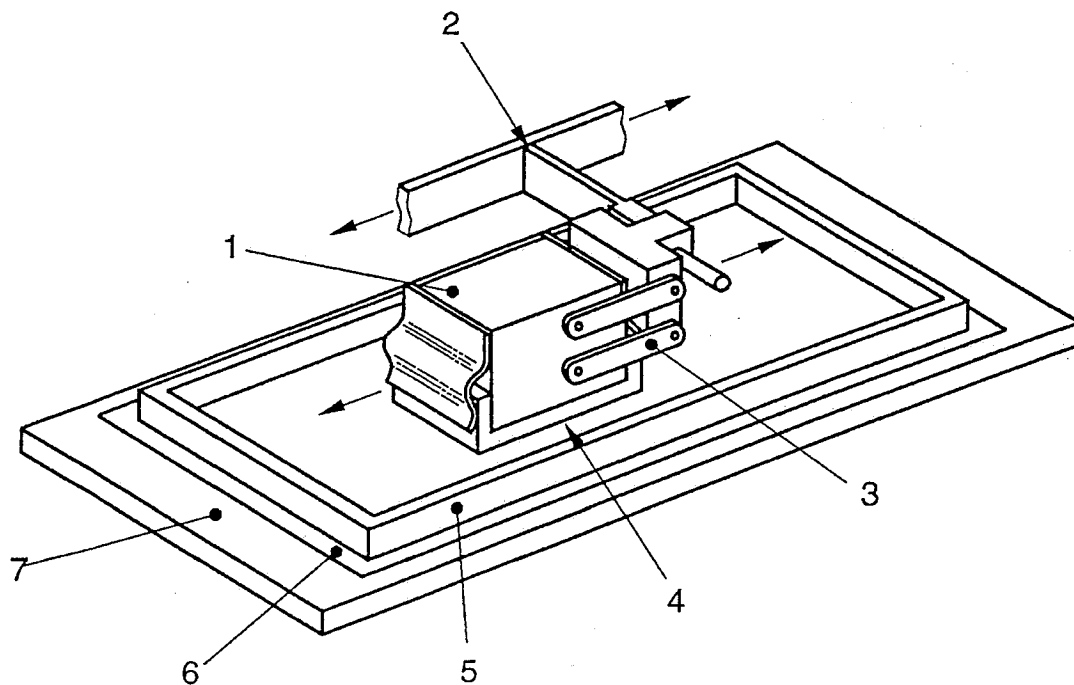
6.3.1 Base machine (see figure 1)

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The base machine shall include the following characteristics: 48db9d-adc3-4360-bc63-23B526d91cd/sist-en-12956-2000

- A flat glass platen mounted in the horizontal plane with a framework for clamping on a 300 mm long x 150 mm wide test piece of wallcovering, retaining the reagent placed on the test piece and preventing the ingress of reagent under the test piece.
- A motor-driven arm on which a rubbing head, with its bottom face resting on the platen, is pivoted. The machine has an automatic stop mechanism which can be pre-set to stop the arm on completion of the required number of cycles.
- The arm reciprocates the rubbing head on a straight course along the length of the test piece with sinusoidal displacement against time. The length of the stroke shall be (140 ± 1) mm and the arm shall be capable of being set to reciprocate at two speeds (30 ± 3) cycles/min or (120 ± 10) cycles/min.
- The rubbing head is attached to the arm by a parallelogram linkage to allow free vertical movement of the head whilst maintaining its working surface in a horizontal plane.

¹⁾ The sieving specification is termed Grit No. 180 by the Federation of European Producers of Abrasives



Legend

- 1 Rubbing head
- 2 Reciprocating arm and pivot
- 3 Parallelogram linkage
- 4 Rubbing material end clamped to bottom face of rubbing head
- 5 Framework
- 6 Test piece
- 7 Platen

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Figure 1 - Diagram illustrating the mechanism of the spongeability and washability test apparatus

6.3.2 Rubbing heads

The following rubbing heads are required:

a) For spongeability:

A head with a bottom face 50 mm long and 29 mm wide to which a sponge is secured by end clamps. The total mass of the head with the dry sponge attached, two of the four arms of the parallelogram and their attachment systems to the head shall be (100 ± 5) g (see figure 1).

The sponge is cut from polyether foam open cell irregular structure sheet of apparent density (22 ± 1) kg/m³, of hardness $(20,5 \pm 2,5)$ N when measured in accordance with ISO 2439, method C, in an atmosphere of (20 ± 2) °C and (65 ± 5) % relative humidity and of thickness $(6_0^{+3,2})$ mm in accordance with ISO 1923. The sponge is (29 ± 1) mm wide and of a length sufficient to be laid along the 50 mm length of the bottom face of the head and secured by clamps.

b) for washability and extra-washability

A head with a bottom face 50 mm long and 29 mm wide to which a strip of felt is secured by end clamps. The total mass of the head with the dry felt attached, two of the four arms of the parallelogram and their attachment systems shall be (550 ± 10) g (see figure 1).

The strip of felt is cut from white packaging felt sheet with a composition of at least 97 % wool fibre quality 60's, a density of $180 \text{ g/dm}^3 \pm 15$ %, a thickness of $6 \text{ mm} \pm 20$ % and the following chemical grade of purity:

- pH value of aqueous extract: 5 to 8; 2000
- chlorine content, calculated as NaCl: 0,05 % max.; 3-4360-bc63-
- sulfate content, calculated as Na₂SO₄: 0,25 % max.; 2-3-2000
- amount of matter soluble in toluene/methanol (other than matter derived from proofing agents): 5,0 % max.;
- amount of matter soluble in water after removal of matter soluble in toluene/methanol: 3,0 % max.;
- ash (other than the ash of proofing agents): 3,5 % max.

The strips shall be (29 ± 1) mm wide and of length sufficient to be laid along the 50 cm length of the bottom face of the head and secured by the clamps.

c) for scrubability

A head with a brush secured to the bottom face. The total mass of the head with the brush attached which bears on the test piece shall be (600 ± 10) g (see figure 2).

The brush has polyamide 6.6 bristles $(0,33 \pm 0,025)$ mm in diameter arranged in 55 tufts each of (23 ± 2) bristles and (12 ± 1) mm long (see details in figure 3).

NOTE: When not in use, the brush should be stored with the bristles upwards to prevent premature bending of the bristles.

6.3.3 Double-faced adhesive tape

6.3.4 Support paper, of approximately 150 g/m²