



SLOVENSKI STANDARD
SIST EN 14959:2006

01-maj-2006

Sprijemna zapenjala – Ugotavljanje odpornosti proti obrabi po pranju

Touch and close fasteners - Determination of resistance to fraying after washing

Haftverschlüsse - Bestimmung der Kantenschnittfestigkeit nach dem Waschen

Fermetures auto-agrippantes - Détermination de la résistance a l'effilochage apres lavage

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ICS:

61.040 Ú[\ | ã ç ð Ò [å æ ä Headgear. Clothing
[à | æ ã [{ È] ^ } ò ò Á à | æ ã accessories. Fastening of
clothing

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EUROPEAN STANDARD

EN 14959

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2006

ICS 61.040

English Version

Touch and close fasteners - Determination of resistance to fraying after washing

Fermetures auto-agrippantes - Détermination de la résistance à l'effilochage après lavage

Haftverschlüsse - Bestimmung der Kantenschnittfestigkeit nach dem Waschen

This European Standard was approved by CEN on 30 December 2005.

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

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Foreword

This European Standard (EN 14959:2006) has been prepared by Technical Committee CEN/TC 248 “Textiles and textile products”, 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 August 2006, and conflicting national standards shall be withdrawn at the latest by August 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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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EN 14959:2006 (E)**1 Scope**

This European Standard specifies a method for determining the resistance to fraying of touch and close fasteners.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12241, *Touch and close fasteners — Method for closure prior to washing and drying or dry cleaning*

EN ISO 139, *Textiles — Standard atmospheres for conditioning and testing (ISO 139:2005)*

EN ISO 6330, *Textiles — Domestic washing and drying procedures for textile testing (ISO 6330:2000)*

3 Principle

In order to measure its resistance to fraying, the male or female component is cut along its longitudinal axis, sewn on a fabric, on three of its edges (as shown in Figure 1), then assembled with its male or female counterpart (as shown in Figure 2), using the roller specified in EN 12241, then washed according to the specified procedure described in EN ISO 6330. [SIST EN 14959:2006](https://standards.iteh.ai/catalog/standards/sist/02378780-6576-4e1e-a0f8-c6c6349f610f/sist-en-14959-2006)

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4 Apparatus

- 4.1 Long pair of scissors to cut the samples at a length of 50 mm in one stroke.
- 4.2 Loading fabric, polyester/cotton (50 %/50 %) 130 g/m².
- 4.3 Washing machine as specified in EN ISO 6330.
- 4.4 A metal roller as specified in EN 12241.

5 Test specimen

Cut a specimen of male or female tape, to be tested for resistance to fraying, of 50 mm length.

Cut a specimen of the male or female counterpart of same width, of 70 mm length.

Cut a specimen of loading fabric, of 75 mm length and of width equal to the width of the sample of tape to be tested plus 25 mm.

6 Conditioning

Condition the test specimens for a minimum of 24 h in accordance with the standard temperate atmosphere for testing as specified in EN ISO 139. The closing, the drying, the evaluation of the test specimens for resistance to fraying, shall also take place under these conditions.

7 Procedure

Cut the specimen of male or female tape to be tested, on a length of 50 mm, taking care to cut at an angle of 90° to its longitudinal axis. Cut the specimen along its longitudinal axis, in one stroke, with a long pair of scissors (4.1).

Once the cutting is completed, check the absence of loose filaments, along the longitudinal cut edge. In case of the presence of loose fibres, the sample has to be eliminated and the sampling repeated. The three cut edges have to be free of loose elements.

Sew this specimen on the fabric on the two longitudinal edges and one transversal edge, as shown in Figure 1, following the discontinuous lines.

Complete the sewing with 3 stitches per cm at 1,5 mm from the edge of the tape, using a needle number 0,80, with a polyester yarn 30 tex.

In order to simulate the closure in usage, position the counterpart of the male or female tape, on top of the tape to be tested (see Figure 1).

Use the metal roller (4.4) to close the samples.

The roller will be chosen according to the effective width of the tape to be tested after it had been cut along its longitudinal axis.

Traverse the metal roller along the closure in one direction then immediately reverse in the other direction.

Put the combined specimen in the loading bag, in order to protect it during washing. Put the loading bag in the washing machine (4.3), then complete the washing, according to the specified cycle in EN ISO 6330.

After washing, allow the specimen to dry 24 h in the standard temperate atmosphere defined in EN ISO 139.

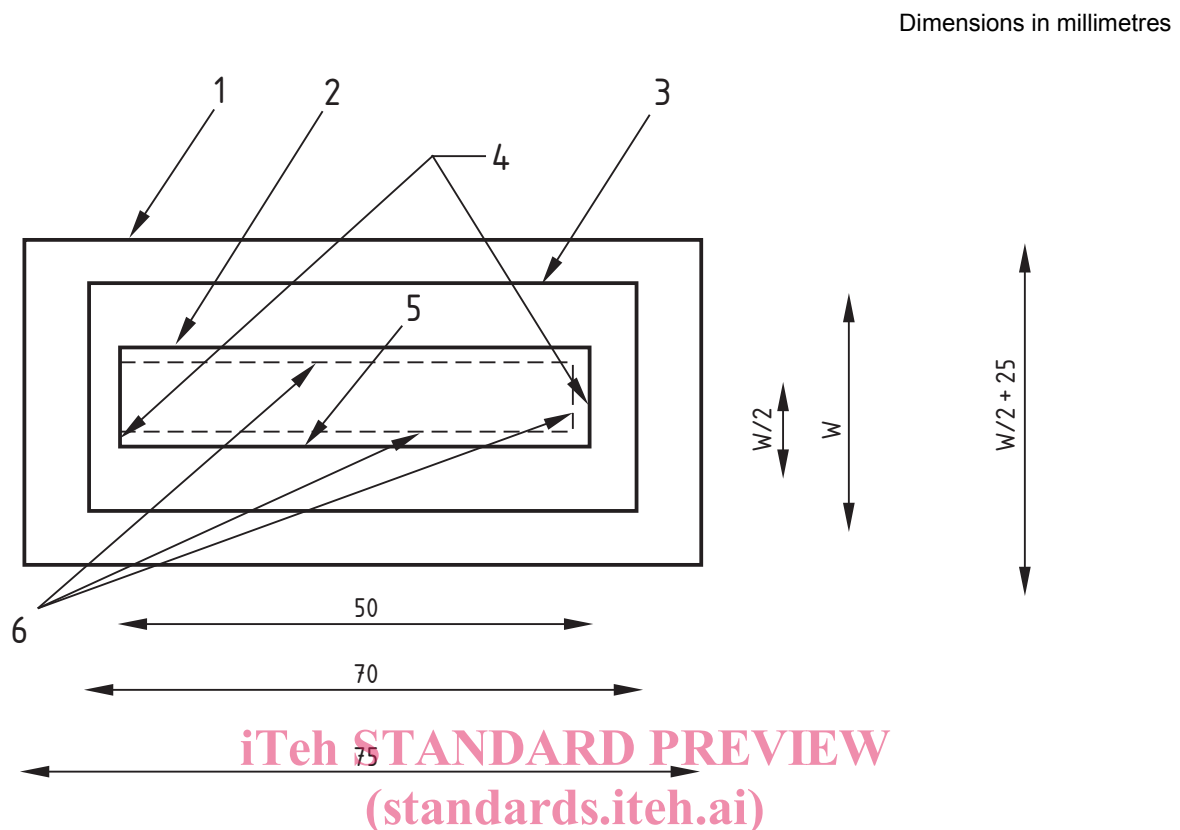
Separate and close the touch and close fastener, by hand, five times.

The fraying will be evaluated by counting the number of loose filaments still attached to the four edges of the tape.

8 Test report

The test report shall contain the following information:

- a) number and date of this European Standard, i.e. EN 14959:2006;
- b) date of the test;
- c) identification of the touch and close fastener;
- d) any deviation from this European Standard and any incident likely to have affected the results.
- e) result of the evaluation for fraying.

**Key**

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- 1 sample of loading fabric
- 2 tape to test for fraying
- 3 tape counterpart on top of sample to test for fraying
- 4 two transversal edges cut with scissors
- 5 one longitudinal edge cut with scissors
- 6 sewing lines

W is the original width of the tape to be tested for fraying, before being cut along its longitudinal axis (edge 5 on the figure).

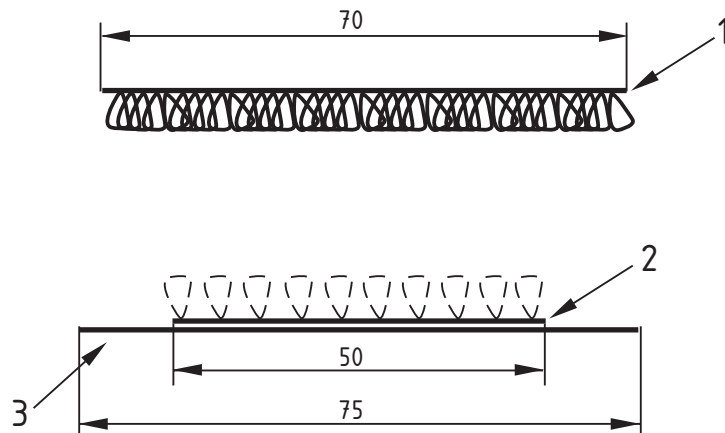
(on the figure, W is showing the width of the counter part to be positioned on top of the tape to be tested. W is also the width of the closure)

$W/2$ is the width of the tape to test for fraying, after it has been cut along its longitudinal axis, (edge 5 on the figure).

$W/2 + 25$ mm is the width of the loading fabric

Figure 1 — Top view of test specimen

Dimensions in millimetres

**Key**

- 1 counterpart
- 2 tape to test for fraying attached by sewing to the loading fabric
- 3 loading fabric

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Figure 2 — Side view of test specimen before the counterpart is assembled with the tape to be tested for fraying