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**Sprijemna zapenjala - Ugotavljanje celotne in efektivne širine trakov zapenjala in efektivne širine zapenjala**

Touch and close fasteners - Determination of the overall and effective widths of tapes and the effective width of a closure

Haftverschlüsse - Bestimmung der gesamten und der effektiven Breite der Bänder eines Haftverschlusses und der effektiven Breite eines geschlossenen Haftverschlusses

Fermetures auto-agrippantes - Détermination de la largeur totale et de la largeur utile des rubans et de la largeur utile d'une fermeture

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**Ta slovenski standard je istoveten z: EN 12240:1997**

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**ICS:**

61.040	Pokrivala. Dodatki k oblačilom. Spenjanje oblačil	Headgear. Clothing accessories. Fastening of clothing
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**SIST EN 12240:1999**

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EUROPEAN STANDARD

EN 12240

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

**Touch and close fasteners - Determination of the  
overall and effective widths of tapes and the  
effective width of a closure**

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la largeur totale et de la largeur utile des  
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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 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of an identical text or by endorsement, at the latest by December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

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.

## 1 Scope

This European Standard specifies a method for determining the overall widths and effective widths of tapes which comprise a touch and close fastener, and the effective width of the resulting closure.

## 2 Normative reference

This European 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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 20139 Textiles - Standard atmospheres for conditioning and testing (ISO 139:1973).

## 3 Definitions

For the purposes of this European Standard, the following definitions apply:

- 3.1 **Selvedge of a tape.** That part of the tape adjacent to the edge which does not contain any closure elements.
- 3.2 **Overall width of a tape.** The distance between the edges of the tape as measured by the method in 8.1.
- 3.3 **Effective width of a tape.** The distance between the edges of the pile surface of the tape as measured by the method in 8.2.
- 3.4 **Effective width of a closure.** The effective width of the male or female tape, whichever is the lower.

## 4 Principle

Determination, by using three steel scales, of the overall and effective widths for the tapes, which comprise a touch and close fastener and the effective width of the closure when the male and female tapes are closed together.

## 5 Apparatus

Three steel rules capable of measuring to within 0,5 mm.

## 6 Test specimens

Take one test specimen of length  $(100 \pm 2)$ mm of both the male and female tapes.

## 7 Conditioning

Condition the test specimen for at least 24 h in accordance with the standard atmosphere for testing as specified in EN 20139. Measure the tapes under these conditions.

## 8 Methods of measurement of width

### 8.1 Measurement of overall width of a tape

For each of the test specimens, place the test specimen on a flat surface so that the pile surface is downwards and making sure that the tape is free from creases, place a steel scale on the back of the tape and perpendicular to the edges of the tape. Measure the overall width of the tape, including any selvages, to an accuracy of 0,5 mm for tapes up to 100 mm width and 0,5 % for tapes of width greater than 100 mm.

Repeat this procedure to give a total of three measurements for each test specimen.

### 8.2 Measurement of the effective width of a tape

For each of the test specimens, place the test specimen on a flat surface so that the pile surface is upwards and making sure that the tape is free from creases, place a steel scale flush against the base of the pile of the tape, one on either side. Place the third steel scale on top of the first two steel scales and perpendicular to their edges (see figure 1). Measure the distance between the edges of the first two steel scales which are against the pile of the tape, to an accuracy of 0,5 mm for distances up to 100 mm and 0,5 % for distances greater than 100 mm.

Repeat this procedure at three places for each test specimen.

## 9 Calculation and expression of results

### 9.1 Calculation of the overall width of a tape

For each of the male and female tapes, calculate the arithmetic mean of the three measurements, according to 8.1, and express this to an accuracy of 0,5 mm for tapes up to 100 mm width and 0,5 % for tapes of width greater than 100 mm. Record this value as the overall width of the tape.

### 9.2 Calculation of the effective width of a tape

For each of the male and female tapes, calculate the arithmetic mean of the three measurements, according to 8.2, and express this to an accuracy of 0,5 mm for tapes up to 100 mm width and 0,5 % for tapes of width greater than 100 mm. Record this value as the effective width of the tape.

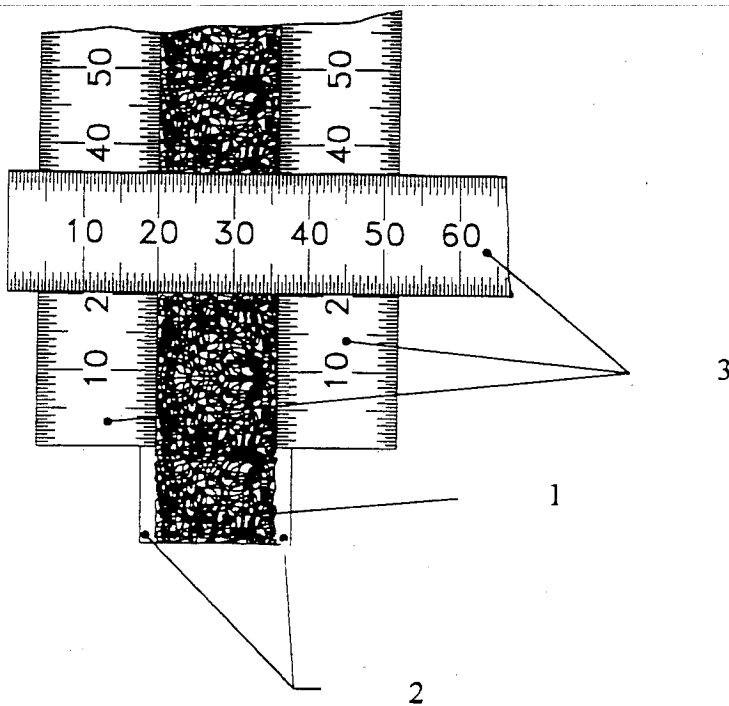
### 9.3 Calculation of the effective width of a closure

The effective width of a closure is equal to the effective width of either of the male or female tapes, whichever is the lesser.

## 10 Test report

The test report shall include the following information.

- a) the number and date of this European Standard;  
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- b) date of the test;
- c) a complete identification of the components, including where possible the type, source and manufacturer's reference numbers;
- d) the overall width and effective width for each tape and the effective width of the closure;
- e) any deviation from this standard or any incident likely to have affected the results.



- 1 Pile
- 2 Selvedges
- 3 Steel rule

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Figure 19 Measurement of effective width