

**Takjapael. Avamis- ja sulgemistoiming muude  
katsetuste eelkatsena**

Touch-and-close fasteners - Cycling procedure for  
subsequent testing

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1414:2000 sisaldab Euroopa standardi EN 1414:1996 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 11.01.2000 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 1414:2000 consists of the English text of the European standard EN 1414:1996.

This standard is ratified with the order of Estonian Centre for Standardisation dated 11.01.2000 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

ICS 61.040

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Descriptors: haberdashery, tapes, touch and close fasteners, operating requirements, artificial ageing tests, measurements, mechanical strength

English version

**Touch and close fasteners - Cycling procedure for subsequent testing**

Fermetures auto-agrippantes - Appareil simulateur d'usage

Haftverschlüsse - Schließ- und Öffnungsverfahren für nachfolgende Prüfungen

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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of an identical text or by endorsement, at the latest by May 1997, and conflicting national standards shall be withdrawn at the latest by May 1997.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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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## 1 Scope

This European Standard specifies an apparatus and method for submitting touch and close fasteners to opening and closing cycles in order to simulate use.

The touch and close fasteners subjected to these cycles will be used in subsequent physical tests intended to measure the residual mechanical strength characteristics.

## 2 Normative references

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.

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|------------|--|
| EN 20139   | Textiles - Standard atmospheres for conditioning and testing(ISO 139 : 1973).  |
| prEN 12240 | Touch and close fasteners - Determination of the overall and effective widths of tapes and the effective width of a closure. |

## 3 Principle

An apparatus is used to open and close a touch and close fastener of a specific width a specified number of times.

## 4 Apparatus

The apparatus comprises two drums mounted one on top of the other (see figure 1):

- the bottom drum is 110 mm wide and 160 mm in diameter;
- the top drum has the same width and is 162,5 mm in diameter.

The two drums shall have a slot to receive the end of the test specimens and a tensioning device (see figure 2).

The top drum shall be free to rotate. It shall be fitted with variable weight according to the total effective width of the touch and close fastener in order to apply a constant load.

The bottom drum shall rotate at a constant speed of  $(60 \pm 5) \text{ min}^{-1}$ . The direction of rotation shall be reversed every 30 s.

The rotation of the bottom drum is transmitted to the top drum by the physical contact of the touch and close fasteners.

The apparatus shall be fitted with a counter which records the number of rotations of the bottom drum regardless of the direction of rotation.

## 5 Test specimens

Take test specimens of male and female tapes of the same overall width.