



National Standards Authority of Ireland

IRISH STANDARD

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ICS 61.040

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**TOUCH AND CLOSE FASTENERS -
DETERMINATION OF LONGITUDINAL SHEAR
STRENGTH**

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EUROPEAN STANDARD
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English version

Touch and close fasteners - Determination of longitudinal shear strength

Fermetures auto-agrippantes - Détermination de la
résistance à la traction longitudinale

Haftverschlüsse - Bestimmung der Längsscherfestigkeit

This European Standard was approved by CEN on 12 December 2002.

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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 Management Centre has the same status as the official versions.

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Contents

	page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions.....	4
4 Principle	4
5 Apparatus	4
6 Test specimens	5
7 Conditioning	5
8 Procedure	6
9 Calculation and expression of results	7
10 Test report	8

Foreword

This document (EN 13780:2003) 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of an identical text or by endorsement, at the latest by August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

EN 13780:2003 (E)

1 Scope

This European Standard specifies a method for determining the longitudinal shear strength of a touch and close fastener.

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 (including amendments).

EN 12240, Touch and close fasteners - Determination of the overall and effective widths of tapes and the effective width of a closure.

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

EN ISO 7500-1, Metallic materials - Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines (ISO 7500-1:1999).

3 Terms and definitions

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

3.1

longitudinal shear strength

maximum force per unit effective area required to separate the two tapes forming the specified closure in a shearing action under the specified conditions of test

3.2

effective area of a closure

effective area of a closure is the product of the effective width of a closure and the length of a closure

4 Principle

Mated component tapes of a touch and close fastener are separated at a constant rate such that the separation occurs progressively along the closure in a direction parallel to the length of the tapes forming the closure and in the plane of the closure.

5 Apparatus

5.1 *Constant rate of extension tensile testing machine*, as specified in EN ISO 7500-1, connected to a computer, via a suitable interface, capable of recording data at a rate of at least 20 points per second.

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