Footwear - Test methods for heels - Heel pin holding strength?

or hand on the other of the other othe Footwear - Test methods for heels - Heel pin holding strength



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 19957:2004 sisaldab Euroopa standardi EN ISO 19957:2004 + AC:2006 ingliskeelset teksti.

Käesolev dokument on jõustatud 21.12.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 19957:2004 consists of the English text of the European standard EN ISO 19957:2004 + AC:2006.

This document is endorsed on 21.12.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This draft International Standard specifies a test method for measuring the force required to pull a single heel pin out of a heel. This test method can be used to measure the heel pin holding strength of heel materials by using a standard heel pin and a method of insertion, or it can be used to assess the heel nailing of commercial production

Scope:

This draft International Standard specifies a test method for measuring the force required to pull a single heel pin out of a heel. This test method can be used to measure the heel pin holding strength of heel materials by using a standard heel pin and a method of insertion, or it can be used to assess the heel nailing of commercial production

ICS 61.060

Võtmesõnad: definition, definitions, fitness for purpose, footwear heels, heels, holding devices, nails, nails (fasteners), operating requirements, shoe manufacture, shoes, strength of materials, testing

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 19957

September 2004

English version

Footwear - Test methods for heels

Heel pin holding strength (ISO 19957: 2004)

Chaussures - Méthodes d'essai relatives aux talons - Résistance à l'arrachement de pointe à talon (ISO 19957: 2004)

Schuhe - Prüfverfahren für Absätze - Absatznagel-Haltefestigkeit (ISO 19957: 2004)

This European Standard was approved by CEN on 2004-03-02.

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 Management Centre or to any CEN member.

The European Standards exist 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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and OR OF THE the United Kinadom.

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

Contents

		•
Forew	vord	2
1	Scope	3
2	Normative references	3
3	Terms and definitions	3
4	Apparatus and material	3
5	Sampling and conditioning	4
6	Test method	
7	Expression of results	6
8	Test report	7
Foreword		

Foreword

This document (EN ISO 19957:2004) has been prepared by Technical Committee CEN /TC 309 "Footwear", the secretariat of which is held by AENOR, in collaboration with Technical Committee ISO/TC 216 "Footwear".

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 March 2005, and conflicting national standards shall be withdrawn at the latest by March 2005.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Jen,

Page

1 Scope

This European Standard specifies a test method for measuring the force required to pull a single heel pin out of a heel. This test method can be used to measure the heel pin holding strength of heel materials by using a standard heel pin and a method of insertion, or it can be used to assess the heel nailing of commercial production.

This test method is applicable to testing plastics and wooden heels for women's footwear. Heels composed of layers of fibreboard or leather and low plastics heels for men's footwear cannot be tested by this method.

2 Normative references

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

EN ISO 7500-1, Metallic materials - Verification of static uniaxial testing machines - Part 1: Tension/compression testing machines (ISO 7500-11999).

3 Terms and definitions

For the purposes of this European Standard, the following term and definition apply.

heel pin holding strength

force required to pull a standard pin out of the heel material divided by the effective length of pin buttressing in the material, expressed as N/mm

4 Apparatus and material

- **4.1** The following apparatus and material shall be used:
- **4.2 Tensile testing machine** complying with the requirements of EN ISO 7500-1 class 2, with a range of approximately 0 N to 2000 N and a constant rate of speed of 40 mm/min ± 10 mm/min.

NOTE A constant rate of traverse tester can be used if this is of a type where increase of load produces an appreciable movement of the load jaw (e.g. a pendulum tester). Its rate of traverse should be set to give on average the specified rate of loading over the whole range for zero jaw separation. This approximation to constant rate of loading is acceptable because the amount of jaw separation in the test is small before the maximum load is reached.

- **4.3** Small clamp or slotted hook, which can be attached to one jaw of the tensile testing machine via a flexible coupling.
- 4.4 Commercial heel nailing machine.
- **4.5** Standard heel pin (see Figure 1), with the following dimensions:
- a) length:

18 mm \pm 0,5 mm;

b) diameter over the buttress ridges:

1,9 mm, minimun

c) number of complete formed buttress pressure flanks (the side of the buttress which is nearly at right angles to the pin shaft):

13 minimum;

d) distance from point to the base of the first fully formed buttress groove at the head end:

12 mm, minimum.