DRAFT INTERNATIONAL STANDARD

ISO/DIS 24264

ISO/TC **216**	Secretariat: **UNE**
Voting begins on: **2019-10-21**	Voting terminates on: **2020-01-13**

Footwear — Attachment strength of top pieces

ICS: 61.060

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING

Reference number
ISO/DIS 24264:2019(E)

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Published in Switzerland

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Foreword

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This document was prepared by Technical Committee ISO/TC 216, *Footwear.*

Footwear — Attachment strength of top pieces

1 Scope

This standard describes a method for determining the attachment pull-out strength of heel top pieces.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system*

ISO 18454, *Footwear — Standard atmospheres for conditioning and testing of footwear and components for footwear*

3 Apparatus and materials

3.1 A tensile testing machine with:

- A jaw separation rate of (100 ± 10) mm/min.
- A suitable force range for the sample to be tested, with 2 % accuracy, as specified for Class 2 in ISO 7500-1. For most cases, the adequate force range is 0 N to 1 000 N.
- A means of recording the force, as specified in ISO 7500-1, Class 2.
- A clamping device comprising:
    - o jaws the central shafts of which are aligned in the direction of the load applied that is perpendicular to the external edges of the jaws. The upper and lower jaws lie on the same plane;
    - o the jaws are manufactured in such a way that they are able to hold the test-piece and prevent it from slipping, and their edges do not cut or damage the test-piece.

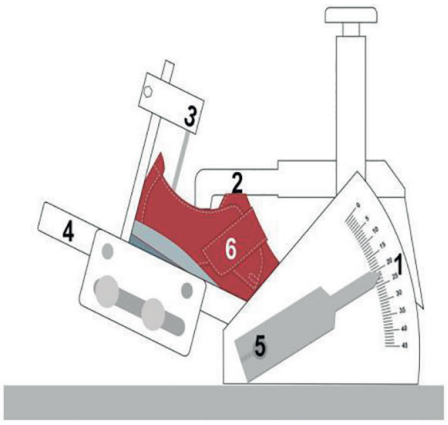

Figure 1 — Clamping device

3.2 A drill.

3.3 A knife or a similar cutting tool.

3.4 Steel cord of approximately 1 mm in diameter and a stop in one of its end of more than 2 mm in diameter.

4 Sampling and conditioning

At least three heels or shoes shall be tested.

Condition the samples 24 h before testing, according to ISO 18454, at (23 ± 2) °C and (50 ± 5) % relative humidity.

5 Preparation of test-pieces

Using the knife or a similar cutting tool cut out a part of the heel edge underneath the rear part of the top-piece. Then use the 2 mm bit to drill a hole through the overhanging part of the top piece. Clamp firmly the heel or the shoe in such a way that the top piece lies on top horizontally and they are prevented from moving during the test. Pass the steel cord through the hole, leaving the cord stop between the top piece and the heel (see Figure 2) and clamping the free end of the cord in the middle of the upper jaws.

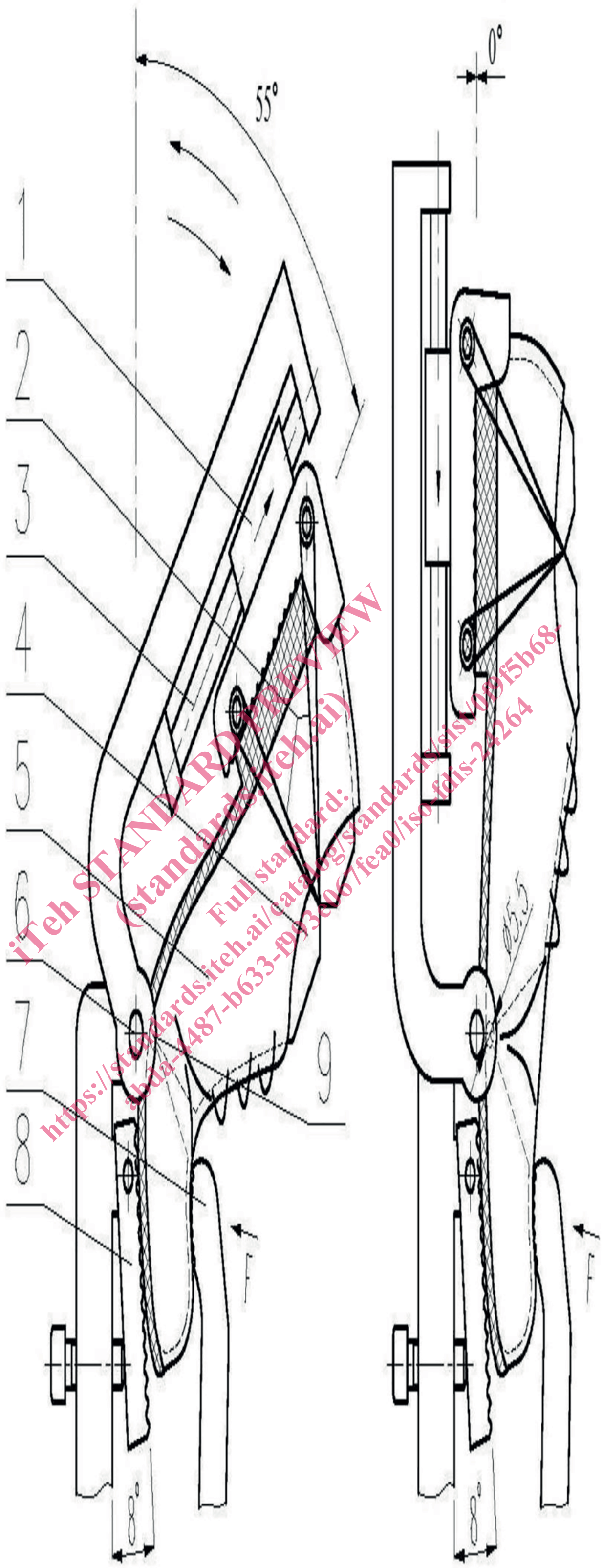

Figure 2 — Test piece placed in the tensile testing machine

6 Procedure

Run the tensile test machine until the top piece is completely separated and note the maximum force recorded.

In the case of top pieces with several pivots, several increases in forces will be recorded (one for each pivot); in that case, note the first maximum force recorded.

7 Expression of results

The results are expressed in N, recording the average force value obtained.

8 Test report

The test report shall contain the following information:

a) identification or description of the footwear tested (photograph is recommended);

b) reference to this European Standard;

c) the result obtained expressed in N;

d) date of test;

e) any deviation from the method given in this European Standard.