
**Footwear — Test methods for insoles
— Heel pin holding strength**

*Chaussures — Méthodes d'essai applicables aux premières de
montage — Tenue des clous pour talon*





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Foreword

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

This second edition cancels and replaces the first edition (ISO 20867:2001), which has been technically revised.

Footwear — Test methods for insoles — Heel pin holding strength

1 Scope

This document specifies a method to determine the ability of an insole component to hold a heel pin and to prevent its head from being pulled through the insole component.

The method is applicable to insoles used in the seat of footwear with inside attached heels, and also to seat components where outside heel attachments are used and the heel pin is clenched.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 5893, *Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Specification*

ISO 17709, *Footwear — Sampling location, preparation and duration of conditioning of samples and test pieces*

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

heel pin holding strength

force required to push a simulated heel pin head through the insole material

4 Apparatus and material

The following apparatus and material shall be used:

4.1 Drill, fitted with twist drill bit, 2,0 mm ± 0,1 mm diameter.

4.2 Tensile-testing machine (dynamometer), shall comply with the requirements of ISO 5893, to an accuracy corresponding to grade B, with a constant rate of traverse of 100 mm/min ± 20 mm/min. Autographic recording of force or a maximum force pointer is recommended.