



Technical Specification

ISO/TS 20358

Footwear — Performance requirements for components for footwear — Accessories

*Chaussures — Exigences de performance pour les composants des
chaussures — Accessoires*

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Foreword

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

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Footwear — Performance requirements for components for footwear — Accessories

1 Scope

This document establishes the performance requirements for accessories (laces and eyelets, metal components, touch and close fasteners, zippers and trims) for footwear, in order to assess the suitability for the end use. It also establishes the test methods to be used to evaluate the compliance with the requirements.

This document applies to accessories (laces and eyelets, metal components, touch and close fasteners, zippers and trims) for all kinds of footwear as defined in [Table 1](#).

This document can be used as a reference by the manufacturer and the supplier.

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 10734, *Footwear — Test methods for slide fasteners — Strength of slide fastener pullers*

ISO 10764, *Footwear — Test methods for slide fasteners — Lateral strength*

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

ISO 19952, *Footwear — Vocabulary*

ISO 22774, *Footwear — Test methods for accessories: shoe laces — Abrasion resistance*

ISO 22775, *Footwear — Test methods for accessories: Metallic accessories — Corrosion resistance*

ISO 22776, *Footwear — Test methods for accessories: Touch and close fasteners — Shear strength before and after repeated closing*

ISO 22777, *Footwear — Test methods for accessories: Touch and close fasteners — Peel strength before and after repeated closing*

ISO 24263, *Footwear — Attachment strength of straps, trims and accessories*

EN 16732, *Slide fasteners (zips) – Specification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 19952 apply.

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

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

4 Classification

The footwear shall be classified according to [Table 1](#).

Table 1 — Classification

Class	Exposure	Shoe type
A	slight	infant shoes, slippers, indoor shoes, fashion shoes
B	medium	casual shoes (adult and children shoes)
C	high	children school shoes, adult work shoes (not PPE) and general sport shoes
D	heavy	heavy work shoes (not PPE), trekking, hiking or similar purpose sports shoes

5 Requirements

5.1 General

This document establishes essential performance requirements, all of which shall be fulfilled.

The results of each determination, as well as the average values, shall be rounded off in accordance with ISO 80000-1.

When taken from finished footwear, samples shall be prepared in accordance with ISO 17709.

5.2 Performance requirements for accessories for footwear

The requirements in [Table 2](#) shall apply.

Table 2 — Test methods and requirements

Test method	Test name	Requirements			
		Class A	Class B	Class C	Class D
ISO 22774	Laces and eye-lets, abrasion resistance	1 000 cycles (method 1) 5 000 cycles (method 2 and 3)		10 000 cycles (method 1) 20 000 cycles (method 2 and 3)	
ISO 22775	Metal parts, corrosion resistance	no worse than grade 4 (method 1 or 2)			
ISO 22776	Touch and close fasteners shear strength	70 kPa (minimum shear before repeated closing) 60 kPa (after 5 000 opening/closing cycles)		100 kPa (minimum shear before repeated closing) 80 kPa (after 5 000 opening/closing cycles)	
ISO 22777	Touch and close fasteners peel strength	0,08 N/mm (minimum peel before repeated closing) 0,06 N/mm (after 5 000 opening/closing cycles)		0,10 N/mm (minimum peel before repeated closing) 0,08 N/mm (after 5 000 opening/closing cycles)	
ISO 10734	Zippers, puller attachment strength	≥ 250 N		≥ 300 N	