
**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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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any of all such patent rights.

ISO/TR 20572 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 309, *Footwear*, in collaboration with Technical Committee ISO/TC 216, *Footwear*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Footwear — Performance requirements for components for footwear — Accessories

1 Scope

This Technical Report establishes the performance requirements for accessories (laces and eyelets, metal components and touch and close fasteners) for footwear (not for finished footwear), irrespective of the material, 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 Technical Report applies to accessories (laces and eyelets, metal components and touch and close fasteners) for all kind of footwear as defined in Clause 3.

This Technical Report is intended to be used as a reference between the manufacturer and the supplier. It is not intended for third party certification of finished shoes destined for the consumer.

2 Normative references

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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.

ISO 31-0, *Quantities and units — Part 0: General principles*

EN ISO 19952, *Footwear — Vocabulary*

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

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

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

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

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

3 Terms and definitions

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

4 Requirements

4.1 General

This Technical Report establishes performance (essential) requirements, all of which shall be taken into account.

The results of each single analytical determination, as well as the average values, shall be rounded off in accordance with ISO 31-0.

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

4.2 Performance requirements for accessories components for general purpose sports and school footwear

See Table 1.

Table 1 — Test methods and properties for general purpose sports and school footwear

Test method	Property	Requirement	
EN ISO 22774	Laces and eyelet abrasion resistance	Method 1	15 000 cycles
		Methods 2 and 3	15 000 cycles
EN ISO 22775	Metal accessories corrosion resistance	Method 1	No worse than grade 4
		Method 2	No worse than grade 4
EN ISO 22776	Touch and close fasteners shear strength	Before repeated closing	100 kPa (minimum shear)
		After repeated closing	80 kPa (after 5 000 opening/closing cycles)
EN ISO 22777	Touch and close fasteners peel strength	Before repeated closing	0,10 N/mm (minimum peel)
		After repeated closing	0,08 N/mm (after 5 000 opening/closing cycles)

4.3 Performance requirements for accessories components for casual, men's town, cold weather, women's town and fashion footwear

See Table 2.

Table 2 — Test methods and properties for casual, men's town, cold weather, women's town and fashion footwear

Test Method	Property	Requirement	
EN ISO 22774	Laces and eyelet abrasion resistance	Method 1	10 000 cycles
		Methods 2 and 3	10 000 cycles
EN ISO 22775	Metal accessories corrosion resistance	Method 1	No worse than grade 4
		Method 2	No worse than grade 4
EN ISO 22776	Touch and close fasteners shear strength	Before repeated closing	70 kPa (minimum shear)
		After repeated closing	60 kPa (after 5 000 opening/closing cycles)
EN ISO 22777	Touch and close fasteners peel strength	Before repeated closing	0,08 N/mm (minimum peel)
		After repeated closing	0,06 N/mm (after 5 000 opening/closing cycles)

4.4 Performance requirements for accessories components for infants' and indoor footwear

See Table 3.

Table 3 — Test methods and properties for infants' and indoor footwear

Test method	Property	Requirement	
EN ISO 22774	Laces and eyelet abrasion resistance	Method 1	5 000 cycles
		Methods 2 and 3	5 000 cycles
EN ISO 22775	Metal accessories corrosion resistance	Method 1	No worse than grade 4
		Method 2	No worse than grade 4
EN ISO 22776	Touch and close fasteners shear strength	Before repeated closing	50 kPa (minimum shear)
		After repeated closing	40 kPa (after 5 000 opening/closing cycles)
EN ISO 22777	Touch and close fasteners peel strength	Before repeated closing	0,08 N/mm (minimum peel)
		After repeated closing	0,06 N/mm (after 5 000 opening/closing cycles)

5 Marking and labelling

Marking and labelling is optional.

If reference to this Technical Report is made, only accessories complying with all the essential requirements can be marked. In this case, this shall be clearly marked by the manufacturer either directly on the product or by a label with the following additional information:

- the manufacturer's name, trade mark or identification mark;
- the type of footwear for which the accessories shall be used as indicated in Table 4.
- reference to this Technical Report.

Any reference to compliance with this Technical Report shall not be put in a part of the accessories which could be visible when the footwear is finished.

If the component complies, additional requirements agreed upon between the component supplier and the footwear manufacturer may be specified in the marking or label, making reference to the corresponding subclause.

Table 4 — Codes for various types of footwear

Type of footwear	Code
General sports footwear	SP
School footwear	SC
Casual footwear	CS
Men's town footwear	MT
Cold weather footwear	CW
Women's town footwear	WT
Fashion footwear	FS
Infants' footwear	IF
Indoor footwear	IN

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