

**Skodon – Prestandakrav för skodonsdelar –
Slitsulor (ISO/TR 20880:2007)**

**Footwear – Performance requirements for
components for footwear – Outsoles
(ISO/TR 20880:2007)**

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footwear - Outsoles (ISO/TR 20880:2007)**

Chaussures - Exigences de performance pour les
composants des chaussures - Semelles d'usure (ISO/TR
20880:2007)

Schuhe - Anforderungen an das Gebrauchsverhalten von
Schuhbestandteilen - Laufsohlen (ISO/TR 20880:2007)

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Foreword

This document (CEN ISO/TR 20880:2007) 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".

Footwear — Performance requirements for components for footwear — Outsoles

1 Scope

This Technical Report establishes the performance requirements for outsoles components for footwear (not for the 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 outsoles for all kind of footwear as defined in Clause 3.

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

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.

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

EN ISO 5404, *Leather — Physical and mechanical tests — Determination of the water resistance of heavy leathers*

EN ISO 17707, *Footwear — Test methods for outsoles — Flex resistance*

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

EN ISO 19952, *Footwear — Vocabulary*

ISO 20865, *Footwear — Test methods for outsoles — Compression energy*

ISO 20869, *Footwear — Test methods for outsoles, insoles, lining and insoles — Water soluble content*

ISO 20871, *Footwear — Test methods for outsoles — Abrasion resistance*

ISO 20872, *Footwear — Test methods for outsoles — Tear strength*

ISO 20873, *Footwear — Test methods for outsoles — Dimensional stability*

ISO 20874, *Footwear — Test methods for outsoles — Needle tear strength*

ISO 20875, *Footwear — Test methods for outsoles — Determination of split tear strength and delamination resistance*

EN 1391, *Adhesives for leather and footwear materials — A method for evaluating the bondability of materials — Minimum requirements and material classification*

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EN 1392, *Adhesives for leather and footwear materials — Solvent-based and dispersion adhesives — Test methods for measuring the bond strength under specified conditions*

EN 13287, *Personal protective equipment — Footwear — Test method for slip resistance*

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 two different types of performance requirement.

The essential requirements shall all be taken into account. The additional ones can be additionally agreed by the component supplier and the footwear manufacturer as indicated in the subclauses 4.2 to 4.10.

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, the sample shall be prepared in accordance with ISO 17709.

4.2 Performance requirements for outsoles components for general purpose sports footwear

4.2.1 Essential requirements

These essential requirements shall be fulfilled in all cases. See Table 1.

Table 1 — Test method and properties for general sports footwear — Essential requirements

Test method	Property	Requirement
EN ISO 17707	Flex resistance	cut growth $\leq 4,0$ mm, and no spontaneous crack
ISO 20871	Abrasion resistance	$0,9 \text{ g/cm}^3 \leq d \leq 200 \text{ mm}^3$ $0,9 \text{ g/cm}^3 > d \leq 150 \text{ mg}$
ISO 20875	Delamination resistance or split tear ^a	$0,9 \text{ g/cm}^3 \leq d \geq 3,0 \text{ N/mm}$ $0,9 \text{ g/cm}^3 > d \geq 1,7 \text{ N/mm}$
EN 13287	Slip resistance ^b	$\geq 0,30$ (flat slip) $\geq 0,28$ (heel slip) In both cases must be tested using ceramic tiles (floor) and water and detergent (lubricant)
^a This requirement is considered essential only in multilayer outsoles. ^b This test method is only applicable for finished footwear.		