

SLOVENSKI STANDARD SIST-TP CEN ISO/TR 18690:2006

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Guidance for the selection, use and maintenance of safety, protective and occupational footwear (ISO/TR 18690:2006)

Empfehlungen für Auswahl, Einsatz und Instandhaltung für Sicherheits-, Schutz- und Berufsschuhe (ISO/TR 18690(2006)) dards.iteh.ai)

Lignes directrices pour la sélection, l'utilisation et l'entretien des chaussures de protection d'usage professionnel (ISO/TR 18690:2006)

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13.340.50 Varovanje nog in stopal Leg and foot protection

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Foreword

This document (CEN ISO/TR 18690:2006) has been prepared by Technical Committee CEN/TC 161 "Foot and leg protectors", the secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 94 "Personal safety - Protective clothing and equipment".

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Page

Contents

Forev	word	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Design, construction and classification	1
5 5.1 5.2 5.3 5.4	Marking of categoriesSafety footwear for professional useProtective footwear for professional useOccupational footwear for professional useOther markings	3 5 6
6 6.1 6.2	Selection of professional footwearRisk assessmentErgonomic features	7
7 7.1 7.2 7.3 7.4 7.5 7.6 7.7	Use of professional footwear Mechanical hazards Chemical and microbiological hazards Electrical hazards Risks of inimical environment (hot and cold) Dry and warm conditions Wet conditions SIST-TP CEN ISO/TR 18690:2006 Job-related footwearlards.itch.ai/catalog/standards/sist/0726ed6b-ffc1-4b3e-aed2- Special types of footwear ⁶ 7/4c79f97/sist-tp-cen-iso-tr-18690-2006	
8 8.1 8.2 8.3	Maintenance of professional footwear Tests	15 18
Biblio	iography	19

ISO/TR 18690:2006(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 or all such patent rights.

ISO/TR 18690 was prepared by Technical Committee ISO/TC 94, Personal safety — Protective clothing and equipment, Subcommittee SC 3, Foot protection. TP CEN ISO/TR 18690:2006

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Guidance for the selection, use and maintenance of safety, protective and occupational footwear

1 Scope

This Technical Report provides guidance for selection, use and maintenance of safety, protective and occupational footwear for professional use. It is designed for footwear manufacturers, suppliers, employers and self-employed people, safety engineers and users. This Technical Report also provides guidance for preparing national guidance in this area.

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 20345:2004, Personal protective equipment — Safety footwear (standards.iten.ai)

ISO 20346:2004, Personal protective equipment — Protective footwear

ISO 20347:2004, Personal protective equipment — Occupational footwear and additional footwear and addi

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 20345, ISO 20346 and ISO 20347 apply.

4 Design, construction and classification

Construction of safety, protective and occupational footwear is exemplified in Figure 1. Design and classification have been defined in ISO 20345, ISO 20346 and ISO 20347. Classification is presented in Table 1. Designs of footwear are illustrated in Figure 2. Protective elements should be incorporated in the footwear in such a way that they cannot be removed without damaging it.

Table 1 — Classification of footwear

Code designation	Classification		
I	Footwear made from leather and other materials, excluding all-rubber or all-polymeric footwear		
II	All-rubber (i.e. entirely vulcanized) or all-polymeric (i.e. entirely moulded) footwear		

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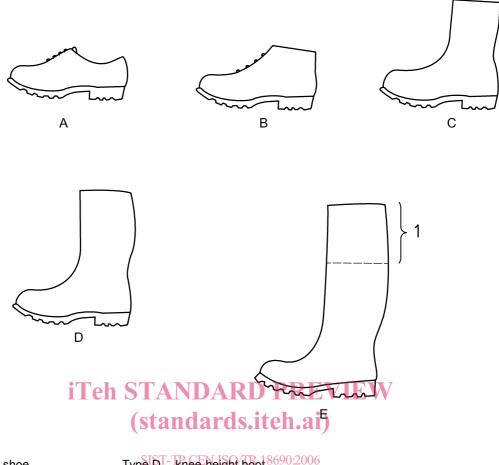


Key

	•		
1	facing	9	outsole
2	tongue	10	cleat
3	collar	11	penetration-resistant insert
4	upper	12	insole
5	vamp lining	13	heel
6	insock	14	Strobel stitching

7 toe puff 15 quarter 8 foam strip 16 vamp

Figure 1 — Example of construction of safety, protective and occupational footwear



Key
Type A low shoe
Type B ankle boot
Type C half-knee boot

Type C half-knee boot

Type C Type B low shoe
Type B ankle boot
Type C half-knee boot

Type C half-knee boot

Type C Type C Type C half-knee boot

Type C Type

Figure 2 — Designs of footwear

5 Marking of categories

5.1 Safety footwear for professional use

5.1.1 Basic requirements

Safety footwear is fitted with safety toecaps and complies with the basic requirements given in Table 2 of ISO 20345:2004. It can incorporate one or more additional protective features to protect the wearer from injuries that could arise through accidents in the working sectors for which the footwear is designed. Safety toecaps meet the requirements of impact resistance at an energy level of 200 J and the requirements of compression resistance at a compression load of 15 kN.

Marking symbol for basic requirements is SB.

5.1.2 Additional requirements

Additional protective features are presented in Table 2.