

Protective footwear



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CANADIAN STANDARDS
ASSOCIATION

CSA Standards Update Service

Z195-09

November 2009

Title: *Protective footwear*

Pagination: **39 pages** (viii preliminary and 31 text), each dated **November 2009**

To register for e-mail notification about any updates to this publication

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CSA Standard

Z195-09
Protective footwear



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*Published in November 2009 by Canadian Standards Association
A not-for-profit private sector organization
5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6
1-800-463-6727 • 416-747-4044*

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ISBN 1-55-436-308-X

Technical Editor: Dave Shanahan

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Preface

This is the sixth edition of CSA Z195, *Protective footwear*, covering design and performance requirements for protective footwear, including toe protection, sole puncture protection, metatarsal protection, electric-shock-resistant soles, slip-resisting soles, and other requirements relating to the general stability of footwear. It supersedes the previous editions, published in 2002, 1992, 1984, and 1981, and the first edition, entitled *Safety Footwear*, published in 1970.

This edition incorporates several amendments made to the 2002 edition, including modifications to protective sole coverage criteria, modification of the chainsaw cut test procedure, and the addition of blue and grey labels designating footwear offering toe protection only. New to this edition are performance requirements and test procedures for metatarsal guards and test procedures and labelling requirements for slip-resisting footwear. A clarification has also been made to the difference between electrically conductive footwear as specified in this Standard and other types of conductive footwear used by professional electricians for live electrical work.

Selection, care, and use guidelines for footwear users are specified in a companion document, CSA Z195.1, *Guideline on Selection, Care, and Use of Protective Footwear*.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Technical Committee on Protective Footwear, under the jurisdiction of the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

November 2009

Notes:

- (1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- (2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
- (3) This publication was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this publication.
- (4) CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.
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Z195-09

Protective footwear

1 Scope

1.1

This Standard deals with new protective footwear and includes requirements for two grades of toe impact resistance, as well as special requirements for sole plate performance, metatarsal protection, electric-shock protection, sole flex durability, conductivity, and chainsaw protection. (See [Figures 1](#) and [2](#) for footwear and foot nomenclature used in this Standard.)

1.2

This Standard also provides requirements for static-dissipative footwear, with or without toe impact resistance.

1.3

This Standard also provides requirements for slip-resisting footwear, with or without other protective features.

1.4

Electrical flash and flame protection, ankle protection, firefighter's footwear, spiked climber's footwear, and riot boots are not specifically addressed in this Standard. While the specific protection required by these applications is not covered, impact, puncture, and static-dissipative criteria may be applied to other types of footwear as appropriate.

1.5

In CSA Standards, "shall" is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; "should" is used to express a recommendation or that which is advised but not required; "may" is used to express an option or that which is permissible within the limits of the standard; and "can" is used to express possibility or capability. Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material. Notes to tables and figures are considered part of the table or figure and may be written as requirements. Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

1.6

The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

CSA (Canadian Standards Association)

Z195.1-02

Guideline on selection, care, and use of protective footwear