



SLOVENSKI STANDARD

SIST EN 345:1996

01-februar-1996

Podroben opis zaščitne obutve za poklicno uporabo

Specification for safety footwear for professional use

Spezifikation der Sicherheitsschuhe für den gewerblichen Gebrauch

Spécifications des chaussures de sécurité a usage professionnel

Ta slovenski standard je istoveten z: EN 345:1992

[SIST EN 345:1996](https://standards.iteh.ai/catalog/standards/sist/6d1d92e8-87f0-44ac-abb1-f4221fd1b1b/sist-en-345-1996)

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ICS:

13.340.50 Varovanje nog in stopal Leg and foot protection

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en

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EUROPEAN STANDARD

EN 345:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Descriptors: Personal protective equipment, accident prevention, work safety, footwear, boots, specifications, classifications, marking, symbols

English version

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard was prepared by Technical Committee CEN/TC 161 "Foot and leg protectors", of which the secretariat is held by BSI.

This European Standard has been prepared under a mandate given to CEN by the Commission of the European Communities and the European Trade Association, and supports essential requirements of the EC Directive(s).

Work on this standard was initiated by Technical Committee CEN/TC 161 at its inaugural meeting in April 1989 and was subsequently undertaken by Technical Committee CEN/TC 161/WG 2. A draft proposal was prepared and circulated for the CEN Enquiry in 1990. Following consideration of all the comments received, a revised draft was prepared and agreement for its submission to the formal vote was given in October 1991. The result of the formal vote was positive.

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This European Standard refers directly to EN 344:1992 for details of the requirements and test methods specified.

Further specifications for safety footwear are currently being developed by Technical Committee CEN/TC 161. Initially, these will be published separately, but eventually it is intended that they should be incorporated in one standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 1993, and conflicting national standards shall be withdrawn at the latest by May 1993.

The Standard was approved and in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

1 Scope

This European Standard specifies, by reference to EN 344 : 1992, basic and additional (optional) requirements for safety footwear for professional use.

2 Normative reference

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 344 : 1992 Requirements and test methods for safety, protective and occupational footwear for professional use

3 Definition

For the purposes of this standard, the following definition applies.

3.1 safety footwear for professional use: Footwear incorporating protective features to protect the wearer from injuries which could arise through accidents in the working sectors for which the footwear was designed, fitted with toecaps designed to give protection against impact when tested at an energy level of 200 J.

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4 Design and classification

NOTE: The designs of footwear covered by this standard are illustrated in figure 1.

Footwear shall be classified in accordance with table 1.

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



A Low shoe



B Ankle boot



C Half-knee boot



D Knee-height boot

E Thigh boot

Figure 1: Designs of footwear

5 Requirements for safety footwear

Safety footwear shall comply with the basic requirements given in table 2. Safety footwear for special applications shall additionally comply with the appropriate requirements given in table 3.

Table 2: Basic requirements for safety footwear

NOTE: The applicability of a requirement to a particular classification is indicated in this table by the following:

X means that the requirement given in the appropriate clause of EN 344 : 1992 has to be met.

O means that if the component part exists, the requirement given in the appropriate clause of EN 344 : 1992 has to be met.

The absence of X or O indicates that no requirement is made.

Requirement	Appropriate clause in EN 344 : 1992	Classification	
		I	II
<u>Design</u>			
Height of upper	4.2.1	X	X
Seat region:	4.2.2		
Design A		X	X
B		X	X
C		X	X
D		X	X
E		X	X
<u>Whole footwear</u>			
<u>Sole performance:</u>	SIST EN 345:1996		
Construction	4.3.1.1	X	
Upper/outsole bond strength	4.3.1.2	X	
<u>Toe protection:</u>			
General	4.3.2.1	X	X
Toecap length	4.3.2.2	X	X
Impact resistance	4.3.2.3.1	X	X
Compression resistance	4.3.2.4.1	X	X
Corrosion resistance of metal toecaps	4.3.2.5		X
Leakproofness	4.3.7		X
<u>Upper</u>			
Thickness	4.4.1		X
Tear strength	4.4.2	X	
Tensile properties	4.4.3	X	X
Flexing resistance	4.4.4		X
Water vapour permeability and coefficient	4.4.6	X	
pH value	4.4.7	X	
Hydrolysis	4.4.8		X

continued

Table 2 (continued)

Requirement	Appropriate clause in EN 344 : 1992	Classification	
		I	II
<u>Vamp lining</u>			
Thickness	4.5.1	X	
Tear strength	4.5.2	X	
Abrasion resistance	4.5.3	X	
Water vapour permeability and coefficient	4.5.4	X	
pH value	4.5.5	X	
<u>Quarter lining</u>			
Thickness	4.5.1	O	
Tear strength	4.5.2	O	
Abrasion resistance	4.5.3	O	
Water vapour permeability and coefficient	4.5.4	O	
pH value	4.5.5	O	

continued