



SLOVENSKI STANDARD

SIST EN 346:1996

01-februar-1996

Podroben opis varovalne obutve za poklicno uporabo

Specification for protective footwear for professional use

Spezifikation der Schutzschuhe für den gewerblichen Gebrauch

Spécifications des chaussures de protection a usage professionnel

Ta slovenski standard je istoveten z: EN 346:1992

[SIST EN 346:1996](https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-df25b98556d6/sist-en-346-1996)

<https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-df25b98556d6/sist-en-346-1996>

ICS:

13.340.50 Varovanje nog in stopal Leg and foot protection

SIST EN 346:1996

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 346:1996

<https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-df25b98556d6/sist-en-346-1996>

EUROPEAN STANDARD

EN 346:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1992

UDC 614.897.2:687.157

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

English version

Specification for protective footwear for professional use

Spécifications des chaussures de protection à usage professionnel

Spezifikation der Schutzschuhe für den gewerblichen Gebrauch

ITEH STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 346:1996](https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-d25b98556d6/sist-en-346-1996)

<https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-d25b98556d6/sist-en-346-1996>

This European Standard was approved by CEN on 1992-10-30. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2
EN 346:1992

Contents list

	Foreword	3
1	Scope	4
2	Normative references	4
3	Definition	4
4	Design and classification	4
5	Requirements for protective footwear	6
6	Marking	10
7	Information to be supplied	11

[SIST EN 346:1996](https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-df25b98556d6/sist-en-346-1996)

<https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-df25b98556d6/sist-en-346-1996>

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.

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

Further specifications for protective 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.

SIST EN 346:1996

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 protective 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 protective 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 100 J.

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

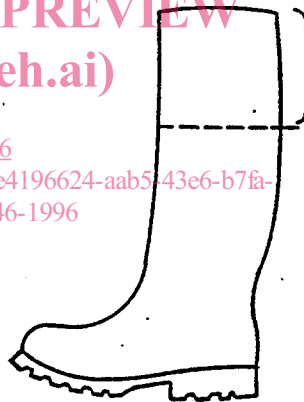
iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 346:1996

<https://standards.iteh.ai/catalog/standards/sist/e4196624-aab5-43e6-b7fa-df25b98556d6/sist-en-346-1996>



D Knee-height boot



Variable extension
which can be adapted
to the wearer

E Thigh boot

Figure 1: Designs of footwear

5 Requirements for protective footwear

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

Table 2: Basic requirements for protective 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
B		X	X
C		X	X
D		X	X
E		X	X
<u>Whole Footwear</u>			
Sole performance:			
Construction	4.3.1.1	X	
Upper/outsole bond strength	4.3.1.2	X	
Toe protection:			
General	4.3.2.1	X	X
Toecap length	4.3.2.2	X	X
Impact resistance	4.3.2.3.2	X	X
Compression resistance	4.3.2.4.2	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