



# SLOVENSKI STANDARD

## SIST EN 345-2:1996

01-december-1996

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### Zaščitna obutev za poklicno uporabo - 2. del: Dodatne specifikacije

Safety footwear for professional use - Part 2: Additional specifications

Sicherheitsschuhe für den gewerblichen Gebrauch - Teil 2: Zusätzliche Spezifikation

Chaussures de sécurité a usage professionnel - Partie 2: Spécifications additionnelles

Ta slovenski standard je istoveten z: EN 345-2:1996

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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 345-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1996

ICS 13.340,10

Descriptors: personal protective equipment, accident prevention, work safety, footswear, boots, specifications, water resistance, classifications, marking, symbols

English version

## Safety footwear for professional use - Part 2: Additional specifications

Chaussures de sécurité à usage professionnel -  
Partie 2: Spécifications additionnelles

Sicherheitsschuhe für den gewerblichen Gebrauch  
- Teil 2: Zusätzliche Spezifikation

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This European Standard was approved by CEN on 1996-05-18. 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.

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# CEN

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

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

## Contents

	Foreword
0	Introduction
1	Scope
2	Normative references
3	Definitions
4	Classification
5	Safety footwear with resistance to water
6	Safety footwear with protection against cutting by hand held chain saw
7	Safety footwear with resistance to firefighting hazards
8	Safety footwear with metatarsal protection
9	Safety footwear with cut resistance
	Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives

## Foreword

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

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 January 1997, and conflicting national standards shall be withdrawn at the latest by January 1997.

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

This European Standard was originally submitted to the CEN enquiry as prEN 191. A modification to the number of the draft was required by CEN/TC 161 and consequently this European Standard is being issued as EN 345-2. Subsequent to the issue of EN 345-2, EN 345:1992 will be renumbered as EN 345-1 in order to maintain clarity in the identifier for EN 345. A similar situation exists for EN 344, EN 346 and EN 347.

For relationship with EU Directive(s), see informative Annex ZA which is an integral part of this standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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 and the United Kingdom.

## 0 Introduction

This standard extends the scope of EN 345 by specifying further properties which may be needed in safety footwear for professional use. It cross-refers to EN 345:1992<sup>1)</sup> for the basic requirements which are mandatory for all items of safety footwear and, if desired, allows other combinations of properties to be specified by the selection of appropriate optional requirements from table 3 of EN 345:1992<sup>1)</sup>.

## 1 Scope

This European Standard specifies, by reference to EN 344:1992<sup>1)</sup> and EN 344-2, additional requirements for safety footwear, relating to water resistance, protection against cutting by hand held chain saws, resistance to fire fighting hazards (footwear for fire fighters), metatarsal protection and cut resistance.

Basic and further optional requirements for safety footwear are given in EN 345:1992<sup>1)</sup>.

## 2 Normative references

This European Standard incorporates by dated or undated references, 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 <sup>1)</sup>	Requirements and test methods for safety, protective and occupational footwear for professional use
EN 345:1992 <sup>1)</sup>	Specification for safety footwear for professional use
EN 344- 2:1996	Safety, protective and occupational footwear for professional use - Part 2: Additional requirements and test methods

## 3 Definitions

For the purposes of this standard, the definitions given in EN 344:1992 and EN 345:1992 apply.

## 4 Classification

Footwear shall be classified in accordance with table 1 of EN 345:1992.

<sup>1)</sup> Subsequent to the issue of EN 344-2 and EN 345-2, EN 344: 1992 and EN 345:1992 will be renumbered into Parts 1.

## 5 Safety footwear with resistance to water

### 5.1 Performance

Footwear shall comply with the basic requirements specified in table 2 of EN 345:1992 and with the requirement given in table 1.

Table 1 : Safety footwear with resistance to water

Requirement	Appropriate clause in EN 344-2:1996	Classification I
Resistance to water	4.2	X
NOTE: X indicates that the requirement shall be met		

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### 5.2 Marking

Each item of safety footwear shall be clearly and permanently marked, for example by embossing or branding, as specified in clause 6 of EN 345:1992 and with the symbol WR.

## 6 Safety footwear with protection against cutting by hand held chain saw

### 6.1 Performance

Four classes of footwear are specified according to the different needs of the workplace. Class 0 applies only to classification I footwear and has been introduced on an interim basis to allow manufacturers time to develop footwear of this classification capable of meeting the more rigorous requirements specified for classes 1, 2 or 3. Consequently class 0 will cease to be valid from 1999-12-31.

Footwear shall comply with the basic requirements specified in table 2 of EN 345:1992, except where otherwise indicated, and with the requirements given in table 2.

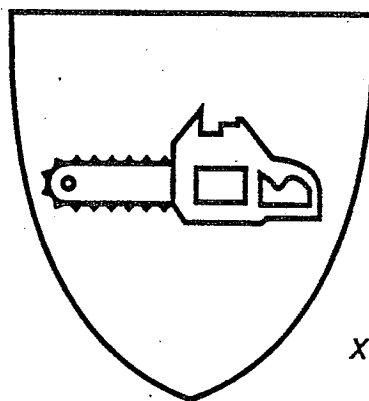
### 6.2 Marking

Each item of safety footwear shall be clearly and permanently marked, for example by embossing or branding, as specified in clause 6 of EN 345 : 1992.

In addition, the pictogram shown in figure 1, together with the class of protection provided (class 0, class 1, class 2 or class 3), shall be given on a label of dimensions at least 30 mm x 30 mm attached in a visible position on the outside of the footwear.

SIST EN 345-2:1996

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X = Class of protection

Figure 1 : Pictogram indicating protection against chain saw cutting



Table 2 : Safety footwear with protection against cutting by hand held chain saw

Requirement	Appropriate clause in		Classification		Indication of change to basic requirements
	EN 344:1992	EN 344-2 : 1996	I	II	
Cleated outsole	4.8.1.1 4.8.1.2 4.8.1.3		X X X	X X X	Become mandatory requirements
Design		4.3.1	X	X	Limitation on designs permitted in EN 345:1992
Construction		4.3.2	X	X	
Resistance to chain saw cutting:  class 0 1 2 3		4.3.3	X X X X	X X X X	
Flex resistance of metal penetration resistant insert		4.3.4	O	O	

NOTE : X indicates that the requirement shall be met.

O indicates that if the component part is present, the requirement shall be met.