

Electrically insulating footwear for working on low voltage installations

The European Standard EN 50321:1999 has the status of a
British Standard

ICS 13.260; 13.340.50

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

National foreword

This British Standard is the official English language version of EN 50321:1999.
The UK participation in its preparation was entrusted to Technical Committee PEL/78, Tools for live working, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 17 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 September 2000

© BSI 09-2000

ISBN 0 580 36438 0

Amendments issued since publication

Amd. No.	Date	Comments

English version

Electrically insulating footwear for working on low voltage installations

Chaussures électriquement isolantes pour
travaux sur installations à basse tension

Elektrisch isolierende Schuhe zum
Arbeiten in Niederspannungsanlagen

This European Standard was approved by CENELEC on 1999-10-01. CENELEC 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 CENELEC member.

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

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

CENELEC

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

Central Secretariat: rue de Stassart, 35 B-1050 Brussels

Contents

Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	5
4 Classification	5
5 Requirements	6
5.1 Non-electrical requirements	6
5.2 Electrical requirements	6
5.3 Marking	6
5.4 Packaging	6
5.5 Instructions for use	7
6 Tests	7
6.1 General	7
6.2 Non-electrical tests	7
6.3 Electrical tests	7
6.4 Marking	9
6.5 Packaging	9
7 Quality assurance plan and acceptance tests	9
7.1 General	9
7.2 Sampling procedure	9
7.3 Acceptance tests	9
Figure 1: Arrangement for electrical tests	10
Figure 2: Marking	11
Annex A (normative) General test procedure	12
Annex B (normative) Instructions for use and periodical inspection	13
Annex C (normative) Sampling procedure	15
Annex D (informative) Acceptance tests	17

Foreword

This European Standard has been prepared by the Technical Committee CENELEC TC 78, Equipment and tools for live working.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50321 on 1999-10-01.

This European Standard intends to cover the protection of personnel working on or in the vicinity of electrical installations, by adopting homogenous electrical requirements such as those defined for other personnel protective equipment, e.g. insulating gloves. It also intends to be complementary to European Standards produced by CEN/TC 161.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2000-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-10-01

Annexes designated “normative” are part of the body of the standard.

Annexes designated “informative” are given only for information.

In this standard, annexes A, B and C are normative, and annex D is informative.

1 Scope

This standard is applicable to electrically insulating footwear used for working live or close to live parts on installations not exceeding 1 000 V a.c.

This footwear, when used in conjunction with other electrically insulating protective equipment such as gloves or blankets, prevents dangerous current from passing through persons via their feet.

This standard applies to designs A low shoe, B ankle boot, C half-knee boot, and D knee-height boot, as shown in EN 344.

Antistatic and conductive footwear are excluded from the scope of this standard.

NOTE: Extension of this standard to overshoes is under consideration. Electrical requirements of this standard may be applied to overshoes but further considerations needs to be given to non-electrical requirements.

2 Normative references

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 (including amendments).

EN 344	1992	Requirements and test methods for safety, protective and occupational footwear for professional use
EN 345	1992	Specification for safety footwear for professional use
EN 346	1992	Specification for protective footwear for professional use
EN 347	1992	Specification for occupational footwear for professional use
EN 60060-2 + A11	1994 1998	High-voltage test techniques - Part 2: Measuring systems (IEC 60060-2:1994)
EN 60903 + A11	1992 1997	Specification for gloves and mitts of insulating material for live working (IEC 60903:1988, mod.)
HD 437 S1	1984	Standard conditions for use prior to and during the testing of solid electrical insulating materials (IEC 60212:1971)
HD 588.1 S1	1991	High-voltage test techniques - Part 1: General definitions and test requirements (IEC 60060-1:1989 + corrigendum March 1990)
IEC 60050-151	1978	International Electrotechnical Vocabulary - Electrical and magnetic devices
IEC 60410	1973	Sampling plans and procedures for inspection by attributes
IEC 61318	1994	Live working - Guidelines for quality assurance plans