SLOVENSKI STANDARD

SIST EN 61340-4-5:2005

julij 2005

Elektrostatika - 4-5. del: Standardne preskusne metode za posebne aplikacije – Metode za karakterizacijo elektrostatične zaščite obutve in talnih oblog v kombinaciji z osebo

Electrostatics – Part 4-5: Standard test methods for specific applications – Methods for characterizing the electrostatic protection of footwear and flooring in combination with a person

ICS 17.220.99; 59.080.60; 61.060; 97.150

Referenčna številka
SIST EN 61340-4-5:2005(en)

EUROPEAN STANDARD **EN 61340-4-5**

NORME EUROPÉENNE

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ICS 17.220.99 ; 59.080.60

English version

Electrostatics
Part 4-5: Standard test methods for specific applications – Methods for characterizing the electrostatic protection of footwear and flooring in combination with a person
(IEC 61340-4-5:2004)

Electrostatique
Partie 4-5: Méthodes d'essai normalisées pour des applications spécifiques - Méthodes de caractérisation de la protection électrostatique des chaussures et des revêtements de sol par rapport à une personne
(CEI 61340-4-5:2004)

Elektrostatik
Teil 4-5: Standard-Prüfverfahren für spezielle Anwendungen – Verfahren zur Charakterisierung der elektrostatischen Schutzwirkung von Schuhwerk und Boden in Kombination mit einer Person
(IEC 61340-4-5:2004)

This European Standard was approved by CENELEC on 2004-09-01. 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 electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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

Ref. No. EN 61340-4-5:2004 E

Foreword

The text of document 101/178/FDIS, future edition 1 of IEC 61340-4-5, prepared by IEC TC 101, Electrostatics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61340-4-5 on 2004-09-01.

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)	2005-06-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2007-09-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61340-4-5:2004 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60093	- [1)]	Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials	HD 429 S1	1983 [2)]
IEC 61340-4-1	- [1)]	Electrostatics Part 4-1: Standard test methods for specific applications - Electrical resistance of floor coverings and installed floors	EN 61340-4-1	2004 [2)]
ISO 1957	- [1)]	Machine-made textile floor coverings - Selection and cutting of specimens for physical tests	-	-

1) Undated reference.

2) Valid edition at date of issue.

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Electrostatique–

Partie 4-5: Méthodes d'essai normalisées pour des applications spécifiques – Méthodes de caractérisation de la protection électrostatique des chaussures et des revêtements de sol par rapport à une personne

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International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch

Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROSTATICS –

Part 4-5: Standard test methods for specific applications – Methods for characterizing the electrostatic protection of footwear and flooring in combination with a person

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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International Standard IEC 61340-4-5 has been prepared by IEC technical committee 101: Electrostatics.

The text of this standard is based on the following documents:

FDIS	Report on voting
101/178/FDIS	101/186/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

ELECTROSTATICS –

Part 4-5: Standard test methods for specific applications – Methods for characterizing the electrostatic protection of footwear and flooring in combination with a person

1 Scope

This part of IEC 61340 specifies test methods for evaluating electrostatic protection provided by a system of footwear and flooring in combination with a person.

The test methods are not intended for individual material or system classification purposes.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60093, *Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials*

IEC 61340-4-1, *Electrostatics – Part 4-1: Standard test methods for specific applications – Electrostatic resistance of floor coverings and installed floors*

ISO 1957, *Machine-made textile floor coverings – Selection and cutting of specimens for physical tests*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61340-1-2 apply.

4 Principle

The characterization of a system is achieved by measuring electrical resistance and chargeability of the footwear and flooring in combination with a person. Chargeability is determined using a walking test.

WARNING: Test procedures described in this standard may expose personnel to potentially hazardous electrical conditions. Appropriate electrical hazard reduction practices should be exercised and proper earthing instructions for the equipment used should be followed when performing tests.