

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

The European Standard EN 61340-4-5:2004 has the status of a British Standard

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee GEL/101, Electrostatics, which has the responsibility to:

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Summary of pages

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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)

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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

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:

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| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2007-09-01 |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

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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.