

Electrostatics - Part 4-3: Standard test methods for
specific applications - Footwear

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

| | |
|---|--|
| See Eesti standard EVS-EN IEC 61340-4-3:2018 sisaldab Euroopa standardi EN IEC 61340-4-3:2018 ingliskeelset teksti. | This Estonian standard EVS-EN IEC 61340-4-3:2018 consists of the English text of the European standard EN IEC 61340-4-3:2018. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 16.03.2018. | Date of Availability of the European standard is 16.03.2018. |
| Standard on kättesaadav Eesti Standardikeskusest. | The standard is available from the Estonian Centre for Standardisation. |

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English Version

**Electrostatics - Part 4-3: Standard test methods for specific applications - Footwear
(IEC 61340-4-3:2017)**

Electrostatique - Partie 4-3: Méthodes d'essai normalisées
pour des applications spécifiques - Chaussures
(IEC 61340-4-3:2017)

Elektrostatik - Teil 4-3: Standard-Prüfverfahren für spezielle
Anwendungen - Schuhwerk
(IEC 61340-4-3:2017)

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

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European foreword

The text of document 101/544/FDIS, future edition 2 of IEC 61340-4-3, prepared by IEC/TC 101 "Electrostatics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61340-4-3:2018.

The following dates are fixed:

- latest date by which the document has to be (dop) 2018-10-17
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publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2021-01-17
standards conflicting with the
document have to be withdrawn

This document supersedes EN 61340-4-3:2001.

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Endorsement notice

The text of the International Standard IEC 61340-4-3:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated :

IEC 61340-2-3 NOTE Harmonized as EN 61340-2-3.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|--------------|-------------|
| IEC 62631-3-1 | - | Dielectric and resistive properties of solid insulating materials - Part 3-1 Determination of resistive properties (DC methods) - Volume resistance and volume resistivity, general method | EN 62631-3-1 | - |
| IEC 62631-3-2 | - | Dielectric and resistive properties of solid insulating materials - Part 3-2 Determination of resistive properties (DC methods) - Surface resistance and surface resistivity | EN 62631-3-2 | - |
| IEC 62631-3-3 | - | Dielectric and resistive properties of solid insulating materials - Part 3-3: Determination of resistive properties (DC methods) - Insulation resistance | EN 62631-3-3 | - |

CONTENTS

| | |
|--|----|
| FOREWORD..... | 3 |
| INTRODUCTION..... | 5 |
| 1 Scope..... | 6 |
| 2 Normative references..... | 6 |
| 3 Terms and definitions..... | 6 |
| 4 Test specimens | 7 |
| 5 Environment for conditioning and testing | 7 |
| 5.1 Conditioning and controlled environment for qualification tests..... | 7 |
| 5.2 Environment for acceptance tests..... | 7 |
| 6 Test report..... | 7 |
| 7 Test equipment..... | 8 |
| 7.1 Load applied to footwear under test..... | 8 |
| 7.2 Conductive electrode..... | 8 |
| 7.3 Counter electrode..... | 8 |
| 7.4 Insulative support plate | 8 |
| 7.5 Resistance measurement apparatus..... | 8 |
| 7.5.1 General | 8 |
| 7.5.2 Laboratory evaluations (qualification testing) | 8 |
| 7.5.3 Acceptance testing..... | 9 |
| 7.6 Environmental test chamber | 9 |
| 8 Test procedure | 9 |
| 9 Repeatability and reproducibility..... | 10 |
| Bibliography | 11 |
| Figure 1 – Form-fitting weight and measuring set-up (schematic)..... | 9 |
| Table 1 – Controlled conditions for electrical measurements..... | 7 |

INTRODUCTION

Footwear, especially shoes, has become an important electrostatic control device in all areas, but particularly in electronics manufacturing. Standards exist from various national committees and these have served as guidance in the preparation of this part of IEC 61340 for electrostatic control footwear.

Control of unwanted electrostatic charge is of particular importance where personnel work around electrostatic-sensitive processes, materials or items. In many cases, devices such as wrist straps are employed to provide an electrical bond between a person's skin and a ground connection. Many instances exist in industry where wrist straps or other tethering devices cannot be safely or conveniently applied, but there is still a need to provide a ground connection for personnel. A convenient method to provide a ground connection for personnel is through their footwear while standing or walking on a defined and properly specified electrostatic control floor surface.

The measurement method described in this document can be used to monitor electrical specifications of footwear during manufacture, prior to selection by an end user or periodically during use. The method described involves the use of a specific set of test equipment and instruments. Other equipment and instruments may be used to measure the parameters specified, but in the event of any dispute, the equipment, instruments and measurement method established in this document apply.