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OHUTUS. OSA 2-30: ERINÕUDED
RUUMIKÜTTESEADMETELE**

**Household and similar electrical appliances - Safety -
Part 2-30: Particular requirements for room heaters
(IEC 60335-2-30:2009 + IEC 60335-2-30:2009/A1:2016,
modified + IEC 60335-2-30:2009/A2:2021)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 60335-2-30:2010+A11+A1+A12:2020 sisaldab Euroopa standardi EN 60335-2-30:2009 ja selle muudatuste A11:2012, A1:2020 ja A12:2020, ja paranduste AC:2010 ja AC:2015 ingliskeelset teksti.</p>	<p>This Estonian standard EVS-EN 60335-2-30:2010+A11+A1+A12:2020 consists of the English text of the European standard EN 60335-2-30:2009 and its amendments A11:2012, A1:2020 and A12:2020 and its corrigenda AC:2010 and AC:2015.</p>
<p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.12.2009, muudatused A11 30.03.2012, A1 24.04.2020 ja A12 25.09.2020.</p>	<p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 23.12.2009, for A11 30.03.2012, A1 24.04.2020 and A12 25.09.2020.</p>
<p>Muudatusega A11 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega A11 A11.</p> <p>Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega A1 A1.</p> <p>Muudatusega A12 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega A12 A12.</p> <p>Muudatusega A2 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega A2 A2.</p> <p>Muudatusega A13 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega A13 A13.</p> <p>Parandusega AC:2010 lisatud või muudetud teksti algus ja lõpp on tekstis ära märgitud märgenditega AC AC.</p> <p>Parandusega AC:2015 lisatud või muudetud teksti algus ja lõpp on tekstis ära märgitud märgenditega AC2 AC2.</p> <p>Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.</p>	<p>The start and finish of text introduced or altered by amendment A11 is indicated in the text by tags A11 A11.</p> <p>The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags A1 A1.</p> <p>The start and finish of text introduced or altered by amendment A12 is indicated in the text by tags A12 A12.</p> <p>The start and finish of text introduced or altered by amendment A2 is indicated in the text by tags A2 A2.</p> <p>The start and finish of text introduced or altered by amendment A13 is indicated in the text by tags A13 A13.</p> <p>The start and finish of text introduced or altered by corrigendum AC:2010 is indicated in the text by symbols AC AC.</p> <p>The start and finish of text introduced or altered by corrigendum AC:2015 is indicated in the text by symbols AC2 AC2.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>

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ICS 13.120, 97.100.10

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

**EN 60335-2-30 + A11 + A1
+ A12 + A2 + A13**

December 2009, March 2012, April 2020,
September 2020, September 2022, September 2022

ICS 13.120, 97.100.10

Supersedes EN 60335-2-30:2003 + A1:2004 + A2:2007

English Version

Household and similar electrical appliances - Safety - Part 2-30:
Particular requirements for room heaters
(IEC 60335-2-30:2009 + IEC 60335-2-30:2009/A1:2016,
modified + IEC 60335-2-30:2009/A2:2021)

Appareils électrodomestiques et analogues - Sécurité -
Partie 2-30: Règles particulières pour les appareils de
chauffage des locaux
(IEC 60335-2-30:2009 + IEC 60335-2-30:2009/A1:2016 ,
modifiée + IEC 60335-2-30:2009/A2:2021)

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Teil 2-30: Besondere Anforderungen für
Raumheizgeräte
(IEC 60335-2-30:2009 + IEC 60335-2-30:2009/A1:2016 ,
modifiziert + IEC 60335-2-30:2009/A2:2021)

This European Standard was approved by CENELEC on 2009-12-01. Amendment A11 was approved by CENELEC on 2012-02-20. Amendment A1 was approved by CENELEC on 2020-02-12. Amendment A12 was approved by CENELEC on 2020-05-01. Amendment A2 was approved by CENELEC on 2022-06-20. Amendment A13 was approved by CENELEC on 2022-06-20. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard and its amendments the status of a national standard without any alteration.

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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+ EN 60335-2-30:2009/A1:2020 E + EN 60335-2-30:2009/A12:2020 E
+ EN 60335-2-30:2009/A2:2022 E + EN 60335-2-30:2009/A13:2022 E

Foreword

The text of document 61/3910/FDIS, future edition 5 of IEC 60335-2-30, prepared by IEC TC 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60335-2-30 on 2009-12-01.

This European Standard supersedes EN 60335-2-30:2003 + A1:2004 + A2:2007.

The principal changes in EN 60335-2-30:2009 as compared with EN 60335-2-30:2003 are as follows (minor changes are not listed):

- some additional instructions are introduced for heaters without a built-in thermostat, or those installed in the floor or in a bathroom (7.12 and 7.12.1);
- a spillage test is introduced for appliances having a grille and that are built into the floor (15.2).

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) 2010-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-12-01

This Part 2 has to be used in conjunction with EN 60335-1, Household and similar electrical appliances – Safety – Part 1: General requirements. It was established on the basis of the 2002 edition of that standard. Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 1.

AC This Part 2 supplements or modifies the corresponding clauses of EN 60335-1, so as to convert it into the European Standard: Particular requirements for room heaters. **AC**

When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 1 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.;
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letter Z.

NOTE 2 The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

There are no special national conditions causing a deviation from this European Standard, other than those listed in Annex ZA to EN 60335-1.

There are no national deviations from this European Standard, other than those listed in Annex ZB to EN 60335-1.

NOTE In this document, p is used in the margin to indicate instructions for preparing the printed version.

Endorsement notice

The text of the International Standard IEC 60335-2-30:2009 was approved by CENELEC as a European Standard without any modification.

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A11 Amendment A11 Foreword

This document (EN 60335-2-30:2009/A11:2012) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-02-20
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2015-02-20

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 and EN 60335-2-30:2009.

There are no special national conditions causing a deviation from this amendment.

There are no national deviations from this amendment. **A11**

A1 Amendment A1 European foreword

The text of document 61/5281/FDIS, future IEC 60335-2-30/A1, prepared by IEC/TC 61 "Safety of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60335-2-30:2009/A1:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-11-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-02-12

This document supersedes EN 50408:2008 and all of its amendments and corrigenda (if any).

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

Endorsement notice

The text of the International Standard IEC 60335-2-30:2009/A1:2016 was approved by CENELEC as a European Standard without any modification. **A1**

A12 Amendment 12 European foreword

This document (EN 60335-2-30:2009/A12:2020) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2021-03-25
implemented at national level by publication of an
identical national standard or by endorsement
- latest date by which the national standards (dow) 2023-02-12
conflicting with this document have to be
withdrawn

This amendment supplements or modifies the corresponding clauses of the standards below:

- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 (Part 1)
- EN 60335-2-30:2009+AC:2010+A11:2012+AC:2014+A1:2020 (Part 2)

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A₂ Amendment A2 European foreword

This document (EN 60335-2-30:2009/A2:2022) consists of the text of document IEC 60335-2-30:2009/A2:2021, prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2023-06-20 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2025-06-20 conflicting with this document have to be withdrawn

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This document is read in conjunction with EN 60335-2-30:2009/A13:2022.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For the relationship with EU Directives see informative Annex ZZA, which is an integral part of EN 60335-2-30:2009/A13:2022.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60335-2-30:2009/A2:2021 was approved by CENELEC as a European Standard without any modification. **A₂**

A13 Amendment A13 European foreword

This document EN 60335-2-30:2009/A13:2022 has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-06-20
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2025-06-20

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This document is read in conjunction with EN 60335-2-30:2009/A2:2022.

The numbering system for European clauses, subclauses, notes, tables, figures and annexes that are additional to those in the IEC standard are prefixed with the letter "Z".

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directives see informative Annex ZZA, which is an integral part of this document.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Household and similar electrical appliances – Safety –
Part 2-30: Particular requirements for room heaters**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-30: Exigences particulières pour les appareils de chauffage des locaux**



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IEC 60335-2-30

Edition 5.2 2021-03
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Household and similar electrical appliances – Safety –
Part 2-30: Particular requirements for room heaters**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-30: Exigences particulières pour les appareils de chauffage des locaux**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –**

Part 2-30: Particular requirements for room heaters

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 60335-2-30 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This fifth edition cancels and replaces the fourth edition published in 2002, its Amendment 1 (2004) and Amendment 2 (2007). It constitutes a technical revision.

The principal changes in this edition as compared with the fourth edition of IEC 60335-2-30 are as follows (minor changes are not listed):

- some additional instructions are introduced for heaters without a built-in thermostat, or those installed in the floor or in a bathroom (7.12 and 7.12.1);
- a spillage test is introduced for appliances having a grille and that are built into the floor (15.2).

This bilingual version (2012-09) corresponds to the monolingual English version, published in 2009-11.

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

FDIS	Report on voting
61/3910/FDIS	61/3957/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.

The French version of this standard has not been voted upon.

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

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fourth edition (2001) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for room heaters.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of the base publication and its amendments 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.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

The following differences exist in the countries indicated below.

- 3.105: The immediate surround of a fireguard is extended to 50 mm (Austria, Germany and United Kingdom).
- 7.1: All heaters, except those for mounting at high level, are to be marked with a warning against covering (Norway).
- 7.1: All heaters, except those for permanent connection to fixed wiring, are to be marked with the minimum distances to combustible surfaces (Norway).
- 7.1: Appliances are not required to be marked "Do not cover" (USA).
- 7.12: Some of the instructions specified are to be marked on the heater (Norway and USA).
- Clause 11: The test methods are different (USA).
- ~~A1~~ deleted text ~~A1~~
- 11.8: For all fixed heaters, other than those for mounting at high level, the limit is 115 K for metallic air-outlet grilles and their surrounds (France).
- 11.8: For heaters used in hygiene rooms of dwellings, nurseries or after-school centres, the temperatures of surfaces accessible to test probe B of IEC 61032 are not to exceed 60 °C (Sweden).
- Clause 19: The tests are different (Canada and USA).
- 19.103: Visibly glowing radiant heaters, other than those for mounting at high level, have to withstand the test of this subclause (Sweden).
- 20.1: The test is different (USA).
- 22.7: The test is different (USA).
- 22.24: The test is different (USA).
- 22.101: The requirement is different (Canada and USA).
- 22.102: The requirement is different (Canada and USA).
- 22.103: The requirement is different (Canada and USA).
- 22.105: The requirement is different (USA).
- 22.108: The requirement is different (USA).
- 24.1.3: The number of cycles of operation is 6 000 (USA).
- 24.1.4: Thermal cut-outs that protect heating elements against overheating, incorporated in fan heaters and in stationary heaters intended to be mounted on or near to a wall, other than those for mounting at high level, are to be of the non-self-resetting type (Sweden).
- 25.3: Fixed appliances are to be appliances intended to be permanently connected to fixed wiring (France).

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

The contents of the corrigendum of November 2014 have been included in this copy.

A1 AMENDMENT A1 FOREWORD

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

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

FDIS	Report on voting
61/5281/FDIS	61/5298/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability 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.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

A₂ AMENDMENT A2 FOREWORD

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

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

FDIS	Report on voting
61/6130/FDIS	61/6181/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website 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.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

A13 *deleted text* **A13**

A13 This European Amendment A13 supplements or modifies the corresponding clauses of the standards below:

- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021+A16:2022 (Part 1)
- EN 60335-2-30:2009+AC:2010+A11:2012+AC:2014+A1:2020+A12:2020+A2:2022 (Part 2) **A13**

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-30: Particular requirements for room heaters

1 Scope

Ⓐ₁₁) This clause of Part 1 is replaced by the following.

This European Standard deals with the safety of electric room heaters for household and similar purposes, their **rated voltage** being not more than 250 V for single-phase appliances and 480 V for other appliances.

Ⓐ₁) This standard also deals with the safety of electric heaters intended for the heating of driver and passenger compartments of motor vehicles when they are stationary, their **rated voltage** being not more than 250 V. Ⓐ₁)

NOTE Z101 Examples of appliances that are within the scope of this standard are

- convector heaters;
- **fan heaters**;
- heaters for use in greenhouses;
- liquid-filled radiators;
- panel heaters;
- radiant heaters;
- tubular heaters;
- **ceiling mounted heat lamp appliances**.
- Ⓐ₁) **cab heaters**; Ⓐ₁)

For extraction fans of **ceiling mounted heat lamp appliances**, EN 60335-2-80 is applicable as far as is reasonable.

Appliances intended to be used by laymen in shops and other premises for normal housekeeping purposes, are within the scope of this standard.

NOTE Z102 Examples of appliance for household environment are appliances for typical housekeeping functions used in the household environment that may also be used by non expert users for typical housekeeping functions:

- in shops and other similar working environments;
- in farm houses;
- by clients in hotels, motels and other residential type environments;
- in bed and breakfast type environments.

NOTE Z103 Household environments include the dwelling and its associated buildings, the garden, etc.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in household and similar environments.

However, in general, it does not take into account:

- **children** playing with the appliance;
- the use of the appliance by **very young children**;
- the use of the appliance by **young children** without supervision.

It is recognized that very vulnerable people may have needs beyond the level addressed in this European Standard.

NOTE Z104 Attention is drawn to the fact that

- for appliances intended to be used in A_1 moving vehicles A_1 or on board ships or aircraft, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;
- for appliances intended to be used in the presence of combustible dust, for example in barns or stables, additional requirements may be necessary.

NOTE Z105 This European Standard does not apply to

- appliances intended exclusively for industrial purposes;
- appliances intended to be used where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- heaters that are built into air conditioners (EN 60335-2-40);
- clothes dryers and towel rails (EN 60335-2-43);
- heaters for saunas (EN 60335-2-53);
- thermal-storage room heaters (EN 60335-2-61);
- heating appliances for breeding and rearing animals (EN 60335-2-71);
- foot warmers and heating mats (EN 60335-2-81);
- flexible sheet heating elements for room heating (EN 60335-2-96);
- heated carpets;
- central heating systems;
- heating cables (IEC 60800).
- A_1 heaters intended for the heating of caravans. A_1

A_1

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

A_1 IEC 60068-2-6:2007, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)* A_1

IEC 60335-2-5:2002, *Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers*
Amendment 1 (2005)
Amendment 2 (2008)¹⁾

IEC 60335-2-43, *Household and similar electrical appliances – Safety – Part 2-43: Particular requirements for clothes dryers and towel rails*

IEC 60335-2-80, *Household and similar electrical appliances – Safety – Part 2-80: Particular requirements for fans*

IEC 60584-1, *Thermocouples – Part 1: EMF specifications and tolerances*

ISO 2758, *Paper – Determination of bursting strength*

ISO 3864-1, *Graphical symbols – Safety colours and safety signs – Part 1: Design principles for safety signs in workplaces and public areas*

3 **Terms and definitions**

This clause of Part 1 is applicable except as follows.

3.101

visibly glowing radiant heater

heater incorporating at least one **visibly glowing heating element**

3.102

fan heater

heater in which the movement of the air over the heating element is assisted by a fan

3.103

heater for mounting at high level

heater intended to be fixed at a height of at least 1,8 m above the floor

3.104

fireguard

that part of the enclosure of a **visibly glowing radiant heater** through which the heating element is normally visible and which is intended to guard against direct access to the heating element

3.105

immediate surround

any surface within 25 mm of the boundary of an air-outlet grille or within 50 mm of the boundary of a **fireguard**

NOTE Details of the way in which this distance is determined are shown in Figure 101 for air-outlet grilles and Figure 102 for **fireguards**.

3.106

ceiling mounted heat lamp appliance

heater for recessed mounting at high level into a ceiling and incorporating one or more heat lamps

¹⁾ There exists a consolidated edition 5.2 (2008) that includes edition 5 and its Amendments 1 and 2.