



**SLOVENSKI STANDARD**  
**SIST EN IEC 60335-2-81:2023/A2:2023**

**01-julij-2023**

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**Gospodinjski in podobni električni aparati - Varnost - 2-81. del: Posebne zahteve za grelnike nog in grelna pregrinjala (IEC 60335-2-81:2015/A2:2020) - Dopolnilo A2**

Household and similar electrical appliances - Safety - Part 2-81: Particular requirements for foot warmers and heating mats (IEC 60335-2-81:2015/A2:2020)

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-81: Besondere Anforderungen an Fußwärmer und Heizmatten (IEC 60335-2-81:2015/A2:2020)

Appareils électrodomestiques et analogues - Sécurité - Partie 2-81: Exigences particulières pour les chancelières et les carpettes chauffantes électriques (IEC 60335-2-81:2015/A2:2020)

**Ta slovenski standard je istoveten z: EN IEC 60335-2-81:2023/A2:2023**

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**ICS:**

13.120	Varnost na domu	Domestic safety
97.100.10	Električni grelniki	Electric heaters

**SIST EN IEC 60335-2-81:2023/A2:2023 en**



EUROPEAN STANDARD

**EN IEC 60335-2-81:2023/A2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2023

ICS 13.120; 97.100.10

English Version

**Household and similar electrical appliances - Safety - Part 2-81:  
Particular requirements for foot warmers and heating mats  
(IEC 60335-2-81:2015/A2:2020)**

Appareils électrodomestiques et analogues - Sécurité -  
Partie 2-81: Exigences particulières pour les chancelières et  
les carpettes chauffantes électriques  
(IEC 60335-2-81:2015/A2:2020)

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Teil 2-81: Besondere Anforderungen an  
Fußwärmer und Heizmatten  
(IEC 60335-2-81:2015/A2:2020)

This amendment A2 modifies the European Standard EN IEC 60335-2-81:2023; it was approved by CENELEC on 2023-03-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

[SIST EN IEC 60335-2-81:2023/A2:2023](#)

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 60335-2-81:2023/A2:2023 (E)****European foreword**

This document (EN IEC 60335-2-81:2023/A2:2023) consists of the text of IEC 60335-2-81:2015/A2:2020 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) 2024-03-01 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting (dow) 2026-03-01 with this document have to be withdrawn

This document is read in conjunction with EN IEC 60335-2-81:2023, and EN IEC 60335-2-81:2023/A1:2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN-CENELEC shall not be held responsible for identifying any or all such patent rights.

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

iTeh STANDARD PREVIEW

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**Endorsement notice**

SIST EN IEC 60335-2-81:2023/A2:2023

<https://standards.iteh.ai/catalog/standards/sist/3de1cde6-6e8f-4d5a-b8e3-000000000000/iec-60335-2-81-2023-a2-2023>

The text of the International Standard IEC 60335-2-81:2015/A2:2020 was approved by CEN-CENELEC as a European Standard without any modification.



IEC 60335-2-81

Edition 3.0 2020-06

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 2  
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**Household and similar electrical appliances – Safety –  
Part 2-81: Particular requirements for foot warmers and heating mats**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-81: Exigences particulières pour les chancelières et les carpettes  
chauffantes électriques**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## 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:

CDV	Report on voting
61/5934/CDV	61/6007/RVC

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.

## 2 Normative references

*Replace reference to IEC 60320-1 with the following:*

IEC 60320-1, *Appliance couplers for household and similar general purposes – Part 1: General requirements*

*Add the following new reference:*

IEC 60320-3, *Appliance couplers for household and similar general purposes – Part 3: Standard sheets and gauges*

## 15 Moisture resistance

*Add the following new subclause:*

### 15.1.2 Addition:

**Foot warmers** are orientated so that the base of the appliance is in contact with the support.

*Appliance inlets are covered before carrying out the test.*

## 24 Components

**24.1.5** Replace the text of the addition with the following:

*All parts of IEC 60320-1 are applicable except for those that make reference to the connectors in the standard sheets of IEC 60320-3.*

## 30 Resistance to heat and fire

**30.1** Replace the text of the modification with the following:

*Connectors of resilient plastic material are not subjected to the ball pressure test but are subjected to a pressure test using an apparatus similar to that shown in Figure 105, the test being made in a heating cabinet at a temperature of  $100\text{ °C} \pm 2\text{ °C}$ .*

*The specimen is clamped between steel jaws, having a cylindrical face of 25 mm radius, a width of 15 mm and a length of 50 mm. The corners are rounded with a radius of 2,5 mm.*

*The specimen is clamped in such a way that the jaws press against it in the area where it is gripped in normal use, the centre line of the jaws coinciding as nearly as possible with the centre of this area.*

*The force applied through the jaws is 20 N.*

*After 1 h, the jaws are removed (and the specimen shall show no damage within the meaning of this document.*

### Figures

Add the following new Figure:

<https://standards.iteh.ai/catalog/standards/sist/3dc1cde6-6e8f-4d5a-b8e3-d029e3a6395e/sist-en-iec-60335-2-81-2023-a2-2023>